

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

(produced by SZGRF/BGR - HANNOVER)

June 2009 UPDATED 18.SEPTEMBER.2009

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 | | |
|-------------------------------|-------------|---------|------------|-------|-------|------|-------|--------|----|-----|
| 2009/06/01 | 04:10:0.6 | 45.328N | 15.976E | 10.0G | | | 2.5 | SZGRF | | |
| Northwestern Balkan Peninsula | | | | | | | | | | |
| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
| OBKA | e Pn | Z | 04:10:27.3 | 1.5 | 139.4 | | | | | 2.8 |
| | e Sg | E | 04:10:50.3 | | | | | | | |
| ARSA | e Pn | Z | 04:10:33.5 | 1.9 | 170.6 | | | | | 1.9 |
| | e Pg | Z | 04:10:37.3 | | | | | | | |
| MOA | e Pn | Z | 04:10:45.1 | 2.8 | 154.4 | | | | | |
| | e Sn | E | 04:11:19.5 | | | | | | | |
| RJOB | e Pn | Z | 04:10:51.7 | 3.3 | 136.6 | | | | | 2.6 |
| | e Sn | E | 04:11:31.9 | | | | | | | |
| WTTA | e Pn | Z | 04:10:55.4 | 3.6 | 121.3 | | | | | |
| | e Sn | N | 04:11:40.2 | | | | | | | |
| | e Sg | E | 04:11:50.7 | | | | | | | |
| GEC2 | e Pn | Z | 04:10:59.1 | 3.8 | 155.4 | | | | | 2.7 |
| | e Sn | N | 04:11:44.4 | | | | | | | |
| WET | e Pn | Z | 04:11:06.5 | 4.4 | 150.0 | | | | | 2.7 |
| | e Sn | N | 04:11:56.2 | | | | | | | |
| ROTZ | e Sn | E | 04:12:13.2 | 5.1 | 148.8 | | | | | |
| MANZ | e Sn | N | 04:12:19.2 | 5.3 | 149.3 | | | | | |
| TANN | e Sn | N | 04:12:25.8 | 5.6 | 153.8 | | | | | |
| BFO | e Sn | E | 04:12:36.2 | 6.0 | 117.0 | | | | | |
| MOX | e Sn | N | 04:12:36.7 | 6.1 | 149.6 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|----------------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/01 | 04:35:20.3 | 20.674N | 62.087W | 33.0G | 5.0 | 4.1 | | SZGRF |
| North Atlantic Ocean | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| BFO | e P | Z | 04:45:35.7 | 61.8 | 270.0 | 1.9 | 10 | 4.7 | | |
| TNS | e P | Z | 04:45:39.4 | 61.9 | 269.1 | 2.1 | 25 | 5.1 | | |
| STU | e P | Z | 04:45:41.9 | 62.4 | 270.4 | 1.4 | 11 | 4.9 | | |
| UBBA | e P | Z | 04:45:44.3 | 62.9 | 270.0 | 1.9 | 13 | 4.8 | | |
| BSEG | e P | Z | 04:45:45.3 | 63.1 | 268.7 | 2.0 | 39 | 5.2 | | |
| GRA1 | e P | Z | 04:45:50.0 | 63.7 | 271.5 | 1.9 | 22 | 5.1 | | |
| | e L | Z | 05:07:44.2 | | | 21.7 | 98 | | 4.0 | |
| MOX | e L | Z | 05:08:42.3 | 63.9 | 271.3 | 19.0 | 160 | | 4.2 | |
| ROTZ | e P | Z | 04:45:55.2 | 64.3 | 272.2 | 2.1 | 29 | 5.1 | | |
| TANN | e P | Z | 04:45:53.8 | 64.5 | 272.1 | 3.0 | 53 | 5.2 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/01 08:03:44.0 41.481N 22.798E 10.0G 4.2 SZGRF
 Northwestern Balkan Peninsula

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|-----|
| ARSA | e Pn | Z | 08:05:35.6 | 7.8 | 135.4 | | | | | 4.1 |
| | e Sn | E | 08:06:59.1 | | | | | | | |
| OBKA | e Pn | Z | 08:05:35.2 | 7.8 | 127.3 | | | | | 4.2 |
| KBA | e Pn | Z | 08:05:50.2 | 8.8 | 126.2 | | | | | 4.1 |
| MOA | e Pn | Z | 08:05:50.6 | 8.8 | 133.3 | | | | | 4.3 |
| | e Sn | N | 08:07:25.7 | | | | | | | |
| RJOB | e Pn | Z | 08:05:58.9 | 9.5 | 127.7 | | | | | |
| | e Sn | N | 08:07:43.5 | | | | | | | |
| GEC2 | e Pn | Z | 08:06:03.7 | 9.8 | 135.6 | | | | | |
| WTTA | e Pn | Z | 08:06:04.1 | 9.8 | 121.9 | | | | | |
| DAVA | e Pn | Z | 08:06:19.6 | 10.9 | 117.5 | | | | | |
| BFO | e Pn | Z | 08:06:37.5 | 12.3 | 118.5 | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/01 21:22:36.1 47.928N 153.613E 50.2 4.9 4.4 18.9 SZGRF
 Kuril Islands, Russia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| CLL | e P | Z | 21:34:12.5 | 75.2 | 26.1 | 1.1 | 12 | 5.0 | | |
| IBBN | e P | Z | 21:34:15.6 | 75.6 | 22.8 | 1.2 | 14 | 5.0 | | |
| TANN | e pP | Z | 21:34:32.7 | 76.1 | 25.7 | | | | | |
| MOX | e P | Z | 21:34:18.5 | 76.2 | 25.1 | 0.9 | 6 | 4.7 | | |
| | e pP | Z | 21:34:32.8 | | | | | | | |
| | e L | Z | 22:11:22.3 | | | 18.9 | 177 | | 4.4 | |
| UBBA | e pP | Z | 21:34:34.8 | 76.4 | 24.1 | | | | | |
| BUG | e pP | Z | 21:34:35.4 | 76.5 | 22.4 | | | | | |
| ROTZ | e P | Z | 21:34:22.3 | 76.8 | 25.4 | 1.1 | 10 | 4.9 | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

3

| | | | | | | | | | | | |
|------|------|---|------------|------|------|-----|------|-----|-----|-----|--|
| | e pP | Z | 21:34:36.7 | | | | | | | | |
| GRA1 | e P | Z | 21:34:24.4 | 77.1 | 24.8 | 1.0 | | 16 | 5.1 | | |
| | e pP | Z | 21:34:38.7 | | | | | | | | |
| | e L | Z | 22:14:32.3 | | | | 19.8 | 154 | | 4.3 | |
| WET | e P | Z | 21:34:24.4 | 77.2 | 25.8 | 1.0 | | 7 | 4.8 | | |
| | e pP | Z | 21:34:38.8 | | | | | | | | |
| GEC2 | e P | Z | 21:34:24.2 | 77.2 | 26.3 | 1.5 | | 8 | 4.6 | | |
| | e pP | Z | 21:34:38.5 | | | | | | | | |
| TNS | e pP | Z | 21:34:40.0 | 77.4 | 23.1 | | | | | | |
| RJOB | e P | Z | 21:34:31.5 | 78.5 | 25.6 | 1.0 | | 8 | 4.7 | | |
| FUR | e P | Z | 21:34:31.4 | 78.5 | 24.7 | 1.3 | | 21 | 5.0 | | |
| STU | e P | Z | 21:34:31.8 | 78.5 | 23.4 | 1.1 | | 12 | 4.8 | | |
| | e pP | Z | 21:34:46.3 | | | | | | | | |
| BFO | e P | Z | 21:34:35.0 | 79.1 | 22.9 | 1.0 | | 10 | 4.8 | | |
| | e pP | Z | 21:34:49.5 | | | | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/01 21:25:14.0 20.553S 169.145E 33.0G SZGRF
 Vanuatu Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| IBBN | e PKPbc | Z 21:44:47.3 | 145.1 | 31.5 | | | | | |
| ROTZ | e PKPbc | Z 21:44:48.5 | 145.5 | 40.4 | | | | | |
| GRA1 | e PKPbc | Z 21:44:49.9 | 146.0 | 39.0 | | | | | |
| TNS | e PKPbc | Z 21:44:52.3 | 146.6 | 34.3 | | | | | |
| RJOB | e PKPbc | Z 21:44:52.7 | 146.8 | 43.3 | | | | | |
| FUR | e PKPbc | Z 21:44:54.1 | 147.2 | 40.6 | | | | | |
| STU | e PKPbc | Z 21:44:55.4 | 147.5 | 36.7 | | | | | |
| WLF | e PKPbc | Z 21:44:57.0 | 147.9 | 31.0 | | | | | |
| OBER | e PKPbc | Z 21:44:57.3 | 148.2 | 39.8 | | | | | |
| BFO | e PKPbc | Z 21:44:57.5 | 148.2 | 35.8 | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/02 00:22: 2.9 35.700S 103.200W 10.0 NEIC
 Southeast of Easter Island

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|-------|------|-------|----|----|----|
| GRA1 | e PKP | Z 00:41:20.4 | 131.5 | 260.7 | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/02 01:32:34.0 3.200S 100.200E 35.0G 5.0 NEIC
 Southern Sumatera, Indonesia

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

4

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z | 01:45:38.8 | 91.8 | 92.8 | 1.5 | 11 | 5.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|-----|----|--------|
| 2009/06/02 | 02:16:57.9 | 20.313S | 169.685E | 33.0G | | 6.3 | | SZGRF |

Vanuatu Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|-----|----|
| IBBN | e PKPbc | Z | 02:36:31.2 | 145.1 | 30.5 | | | | | |
| MOX | e L | Z | 03:39:11.3 | 145.1 | 37.7 | 20.6 | 3911 | | 6.2 | |
| UBBA | e PKPbc | Z | 02:36:33.0 | 145.6 | 35.2 | | | | | |
| GEC2 | e PKPbc | Z | 02:36:32.8 | 145.6 | 42.5 | | | | | |
| WET | e PKPbc | Z | 02:36:33.1 | 145.7 | 41.0 | | | | | |
| GRA1 | e L | Z | 03:42:57.8 | 146.0 | 38.0 | 20.4 | 6081 | | 6.4 | |
| TNS | e PKPbc | Z | 02:36:35.8 | 146.6 | 33.2 | | | | | |
| RJOB | e PKPbc | Z | 02:36:36.8 | 146.8 | 42.3 | | | | | |
| STU | e PKPbc | Z | 02:36:38.9 | 147.5 | 35.7 | | | | | |
| WLF | e PKPbc | Z | 02:36:40.5 | 147.9 | 30.0 | | | | | |
| OBER | e PKPbc | Z | 02:36:40.7 | 148.2 | 38.8 | | | | | |
| BFO | e PKPbc | Z | 02:36:41.0 | 148.2 | 34.7 | | | | | |
| ECH | e PKPbc | Z | 02:36:42.4 | 148.7 | 32.9 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/02 | 02:26:48.0 | 20.384S | 169.522E | 33.0 | | | | SZGRF |

Vanuatu Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| ROTZ | e PKPbc | Z | 02:46:21.7 | 145.5 | 39.7 | | | | | |
| UBBA | e PKPbc | Z | 02:46:22.0 | 145.6 | 35.4 | | | | | |
| GRA1 | e PKPbc | Z | 02:46:23.5 | 146.0 | 38.3 | | | | | |
| | e SKPdf | Z | 02:50:06.0 | | | | | | | |
| TNS | e PKPbc | Z | 02:46:25.5 | 146.6 | 33.5 | | | | | |
| RJOB | e PKPbc | Z | 02:46:26.5 | 146.8 | 42.6 | | | | | |
| FUR | e PKPbc | Z | 02:46:27.4 | 147.2 | 39.8 | | | | | |
| STU | e PKPbc | Z | 02:46:28.8 | 147.5 | 36.0 | | | | | |
| WLF | e PKPbc | Z | 02:46:30.5 | 147.9 | 30.3 | | | | | |
| OBER | e PKPbc | Z | 02:46:30.7 | 148.2 | 39.1 | | | | | |
| BFO | e PKPbc | Z | 02:46:31.0 | 148.2 | 35.0 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/02 | 02:50:23.4 | 20.899S | 168.395E | 33.0G | | | | SZGRF |

Loyalty Islands

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

5

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| TNS | e PKPbc | Z | 03:10:01.8 | 146.7 | 35.7 | | | | | |
| STU | e PKPbc | Z | 03:10:05.0 | 147.6 | 38.2 | | | | | |
| WLF | e PKPbc | Z | 03:10:06.6 | 148.0 | 32.5 | | | | | |
| OBER | e PKPbc | Z | 03:10:06.9 | 148.1 | 41.3 | | | | | |
| BFO | e PKPbc | Z | 03:10:07.2 | 148.2 | 37.3 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/02 | 02:55:5.8 | 20.970S | 169.427E | 33.0N | | | | SZGRF |

Vanuatu Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| ROTZ | e PKPbc | Z | 03:14:41.7 | 146.0 | 40.3 | | | | | |
| TNS | e PKPbc | Z | 03:14:44.1 | 147.1 | 34.1 | | | | | |
| RJOB | e PKPbc | Z | 03:14:44.9 | 147.3 | 43.3 | | | | | |
| FUR | e PKPbc | Z | 03:14:46.1 | 147.6 | 40.5 | | | | | |
| STU | e PKPbc | Z | 03:14:47.3 | 148.0 | 36.6 | | | | | |
| WLF | e PKPbc | Z | 03:14:48.8 | 148.4 | 30.8 | | | | | |
| OBER | e PKPbc | Z | 03:14:49.2 | 148.6 | 39.7 | | | | | |
| BFO | e PKPbc | Z | 03:14:49.4 | 148.7 | 35.6 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/02 | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-----|------|-------|----|----|----|
| BFO | e PKP | Z | 05:48:09.6 | | | | | | | |
| OBER | e PKP | Z | 05:48:09.4 | | | | | | | |
| WLF | e PKP | Z | 05:48:09.1 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/02 | 14:39:42.4 | 39.499N | 51.023E | 33.0N | 4.9 | 3.8 | | SZGRF |

Caspian Sea

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| GEC2 | e P | Z | 14:45:30.8 | 28.0 | 95.3 | 1.0 | 14 | 4.7 | | |
| BRG | e P | Z | 14:45:31.3 | 28.1 | 99.3 | 0.9 | 22 | 5.0 | | |
| CLL | e P | Z | 14:45:36.4 | 28.8 | 99.2 | 0.8 | 14 | 4.8 | | |
| TANN | e P | Z | 14:45:39.2 | 29.0 | 97.1 | 0.8 | 6 | 4.5 | | |
| MOX | e P | Z | 14:45:44.2 | 29.6 | 96.7 | 0.7 | 15 | 4.9 | | |
| | e L | Z | 15:00:29.7 | | | 18.4 | 222 | | 3.8 | |
| GRA1 | e P | Z | 14:45:45.8 | 29.7 | 94.7 | 0.9 | 16 | 4.8 | | |
| | e L | Z | 14:59:43.6 | | | 21.7 | 181 | | 3.7 | |
| BSEG | e P | Z | 14:45:54.0 | 30.8 | 101.1 | 0.7 | 51 | 5.6 | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

6

| | | | | | | | | |
|------|-----|---|------------|------|------|-----|----|-----|
| STU | e P | Z | 14:45:57.0 | 31.0 | 91.5 | 1.1 | 25 | 5.1 |
| TNS | e P | Z | 14:46:01.9 | 31.5 | 93.3 | 1.0 | 9 | 4.7 |
| IBBN | e P | Z | 14:46:06.1 | 32.1 | 96.0 | 1.1 | 32 | 5.1 |
| BUG | e P | Z | 14:46:08.5 | 32.3 | 94.2 | 0.6 | 15 | 5.1 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/02 | 16:01:26.9 | 20.432S | 169.415E | 24.6 | | | | SZGRF |
| Vanuatu Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 16:21:04.0 | 146.0 | 38.5 | | | | | |
| TNS | e PKPbc | Z 16:21:05.7 | 146.6 | 33.7 | | | | | |
| RJOB | e PKPbc | Z 16:21:07.0 | 146.8 | 42.8 | | | | | |
| | e sPKPbc | Z 16:21:17.0 | | | | | | | |
| FUR | e sPKPbc | Z 16:21:18.2 | 147.2 | 40.0 | | | | | |
| STU | e PKPbc | Z 16:21:09.3 | 147.5 | 36.2 | | | | | |
| | e pPKPbc | Z 16:21:17.0 | | | | | | | |
| | e sPKPbc | Z 16:21:19.3 | | | | | | | |
| WLF | e PKPbc | Z 16:21:11.1 | 147.9 | 30.5 | | | | | |
| | e pPKPbc | Z 16:21:18.5 | | | | | | | |
| | e sPKPbc | Z 16:21:20.8 | | | | | | | |
| OBER | e PKPbc | Z 16:21:11.2 | 148.2 | 39.3 | | | | | |
| | e pPKPbc | Z 16:21:18.9 | | | | | | | |
| | e sPKPbc | Z 16:21:21.2 | | | | | | | |
| BFO | e PKPbc | Z 16:21:11.6 | 148.2 | 35.2 | | | | | |
| | e pPKPbc | Z 16:21:19.1 | | | | | | | |
| | e sPKPbc | Z 16:21:21.4 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/02 | 18:16:22.5 | 17.900S | 167.700E | 67.0 | 4.5 | | | NEIC |
| Vanuatu Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|-------|------|------|-------|----|----|----|
| STU | e PKPbc | Z 18:35:51.9 | 144.6 | 37.2 | | | | | |
| | e sPKPbc | Z 18:36:01.7 | | | | | | | |
| WLF | e PKPbc | Z 18:35:53.6 | 145.0 | 31.8 | | | | | |
| | e pPKPbc | Z 18:36:01.0 | | | | | | | |
| | e sPKPbc | Z 18:36:03.2 | | | | | | | |
| OBER | e PKPbc | Z 18:35:53.7 | 145.2 | 40.0 | | | | | |
| | e pPKPbc | Z 18:36:01.2 | | | | | | | |
| | e sPKPbc | Z 18:36:03.6 | | | | | | | |
| BFO | e PKPbc | Z 18:35:53.9 | 145.3 | 36.3 | | | | | |
| | e pPKPbc | Z 18:36:01.5 | | | | | | | |
| | e sPKPbc | Z 18:36:03.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|----|----|-----|--------|
| 2009/06/03 | 01:16:42.0 | 44.585N | 9.306E | 10.0G | | | 3.3 | SZGRF |

Northern Italy

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-------|-------|---|------------|------|-------|------|-------|----|----|-----|
| PLONS | e Pn | Z | 01:17:23.5 | 2.5 | 181.2 | | | | | |
| DAVA | e Pn | Z | 01:17:26.6 | 2.7 | 188.6 | | | | | 3.2 |
| WILA | e Pn | Z | 01:17:27.4 | 2.8 | 174.3 | | | | | |
| OBER | e Pn | Z | 01:17:29.0 | 2.9 | 194.0 | | | | | 3.1 |
| | e Sn | E | 01:18:04.4 | | | | | | | |
| BALST | e Pn | Z | 01:17:29.7 | 3.0 | 157.3 | | | | | |
| | e Sn | N | 01:18:05.6 | | | | | | | |
| SULZ | e Pn | Z | 01:17:30.4 | 3.1 | 163.9 | | | | | |
| | e Sn | N | 01:18:06.9 | | | | | | | |
| WTTA | e Pn | Z | 01:17:32.8 | 3.1 | 212.0 | | | | | 3.4 |
| | e Sn | E | 01:18:11.5 | | | | | | | |
| SLE | e Pn | Z | 01:17:31.9 | 3.2 | 169.7 | | | | | |
| KBA | e Sn | E | 01:18:25.0 | 3.8 | 229.9 | | | | | 3.1 |
| BFO | e Pn | Z | 01:17:39.4 | 3.8 | 169.5 | | | | | 3.3 |
| | e Sn | N | 01:18:21.9 | | | | | | | |
| FUR | e Sn | E | 01:18:23.9 | 3.8 | 201.5 | | | | | 3.6 |
| ECH | e Pn | Z | 01:17:42.5 | 3.9 | 157.0 | | | | | |
| | e Sn | N | 01:18:28.9 | | | | | | | |
| RJOB | e Pn | Z | 01:17:43.4 | 4.0 | 218.8 | | | | | 3.3 |
| | e Sn | E | 01:18:30.0 | | | | | | | |
| OBKA | e Pn | Z | 01:17:45.1 | 4.1 | 244.2 | | | | | 3.5 |
| MOA | e Pn | Z | 01:17:54.3 | 4.7 | 228.2 | | | | | |
| | e Sn | N | 01:18:46.2 | | | | | | | |
| GRB3 | e Pn | Z | 01:17:56.1 | 5.1 | 200.6 | | | | | |
| WET | e Sn | E | 01:18:54.8 | 5.2 | 209.5 | | | | | |
| GEC2 | e Pn | Z | 01:17:58.4 | 5.2 | 216.9 | | | | | 3.2 |
| | e Sn | E | 01:18:56.0 | | | | | | | |
| TNS | e Pn | Z | 01:18:05.6 | 5.7 | 173.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|----|----|-----|--------|
| 2009/06/03 | 01:36:42.4 | 44.471N | 9.234E | 10.0G | | | 2.8 | SZGRF |

Northern Italy

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-------|-------|---|------------|------|-------|------|-------|----|----|-----|
| PLONS | e Pn | Z | 01:37:25.1 | 2.6 | 182.3 | | | | | |
| | e Sn | N | 01:37:55.7 | | | | | | | |
| DAVA | e Pn | Z | 01:37:28.7 | 2.9 | 189.3 | | | | | 2.8 |
| | e Sn | E | 01:38:01.4 | | | | | | | |
| WILA | e Pn | Z | 01:37:28.9 | 3.0 | 175.5 | | | | | |
| | e Sn | N | 01:38:06.4 | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| BRG | e PKPdf | Z 23:56:03.2 | | | | | | | |
| GRA1 | e PKPdf | Z 23:56:09.9 | | | | | | | |
| TANN | e PKPdf | Z 23:56:07.2 | | | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/04 02:54:41.2 31.172N 83.225E 33.0N 5.2 4.1 ML SZGRF
 Xizang

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| BRG | e P | Z 03:03:59.1 | 53.7 | 83.5 | 1.8 | 46 | 5.2 | | |
| GEC2 | e P | Z 03:04:02.4 | 54.1 | 81.8 | 1.6 | 24 | 5.0 | | |
| CLL | e P | Z 03:04:02.8 | 54.2 | 83.1 | 1.6 | 27 | 5.0 | | |
| WET | e P | Z 03:04:06.2 | 54.6 | 81.5 | 1.9 | 49 | 5.2 | | |
| TANN | e P | Z 03:04:06.4 | 54.7 | 82.1 | 1.7 | 30 | 5.0 | | |
| RJOB | e P | Z 03:04:07.6 | 54.8 | 80.4 | 1.3 | 13 | 4.8 | | |
| ROTZ | e P | Z 03:04:09.0 | 54.9 | 81.4 | 1.6 | 44 | 5.2 | | |
| MOX | e P | Z 03:04:10.1 | 55.2 | 81.6 | 2.0 | 54 | 5.2 | | |
| | e L | Z 03:28:08.9 | | | 22.0 | 163 | | 4.1 | |
| BSEG | e P | Z 03:04:12.6 | 55.5 | 82.9 | 1.5 | 89 | 5.6 | | |
| GRA1 | e P | Z 03:04:13.6 | 55.5 | 80.7 | 1.4 | 37 | 5.2 | | |
| | e L | Z 03:27:52.2 | | | 21.5 | 190 | | 4.1 | |
| CLZ | e P | Z 03:04:14.5 | 55.7 | 81.6 | 1.1 | 24 | 5.1 | | |
| FUR | e P | Z 03:04:15.2 | 55.8 | 79.7 | 1.7 | 92 | 5.5 | | |
| NRDL | e P | Z 03:04:15.1 | 55.8 | 81.8 | 1.3 | 37 | 5.2 | | |
| UBBA | e P | Z 03:04:17.4 | 56.1 | 80.6 | 1.4 | 18 | 4.9 | | |
| STU | e P | Z 03:04:23.9 | 57.0 | 78.7 | 1.3 | 30 | 5.2 | | |
| TNS | e P | Z 03:04:25.2 | 57.2 | 79.1 | 1.4 | 25 | 5.1 | | |
| IBBN | e P | Z 03:04:25.1 | 57.3 | 80.0 | 1.4 | 50 | 5.3 | | |
| BFO | e P | Z 03:04:27.9 | 57.7 | 77.9 | 1.6 | 17 | 4.8 | | |
| BUG | e P | Z 03:04:28.6 | 57.7 | 79.1 | 1.8 | 83 | 5.5 | | |
| WLF | e P | Z 03:04:36.6 | 58.8 | 77.2 | 1.3 | 23 | 5.0 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/04

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 13:36:30.9 | | | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/04 17:10: 0.4 20.620S 169.320E 33.0N 5.2 4.1 ML SZGRF
 Vanuatu Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BRG | e PKPdf | Z | 17:29:35.5 | 144.1 | 41.7 | | | | | |
| MOX | e PKPbc | Z | 17:29:32.8 | 145.2 | 38.5 | | | | | |
| ROTZ | e PKPbc | Z | 17:29:34.8 | 145.7 | 40.2 | | | | | |
| GEC2 | e PKPbc | Z | 17:29:36.1 | 145.7 | 43.3 | | | | | |
| UBBA | e PKPbc | Z | 17:29:35.1 | 145.7 | 35.9 | | | | | |
| GRA1 | e PKPbc | Z | 17:29:36.3 | 146.1 | 38.8 | | | | | |
| TNS | e PKPbc | Z | 17:29:38.5 | 146.8 | 34.0 | | | | | |
| RJOB | e PKPbc | Z | 17:29:39.5 | 146.9 | 43.1 | | | | | |
| FUR | e PKPbc | Z | 17:29:40.5 | 147.3 | 40.4 | | | | | |
| STU | e PKPbc | Z | 17:29:41.6 | 147.7 | 36.5 | | | | | |
| WLF | e PKPdf | Z | 17:29:40.8 | 148.0 | 30.8 | | | | | |
| | e PKPbc | Z | 17:29:43.4 | | | | | | | |
| BFO | e PKPdf | Z | 17:29:41.4 | 148.4 | 35.5 | | | | | |
| | e PKPbc | Z | 17:29:43.9 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/04 | 17:25:25.3 | 45.800S | 35.100E | 10.0 | 6.0 | | | NEIC |

Prince Edward Islands, South Africa, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| WET | e PP | Z | 17:42:47.4 | 96.9 | 164.6 | | | | | |
| ROTZ | e PP | Z | 17:42:50.9 | 97.6 | 164.1 | | | | | |
| GRA1 | e P | Z | 17:38:58.6 | 97.7 | 163.5 | 1.1 | 12 | 5.5 | | |
| | e PP | Z | 17:42:51.4 | | | | | | | |
| WLF | e PP | Z | 17:43:02.1 | 98.7 | 160.0 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/04 | 22:13: 5.9 | 51.661N | 169.410W | 33.0N | 4.6 | | | SZGRF |

Fox Islands, Aleutian Islands, United States

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-----|------|-------|-----|----|----|
| GRA1 | e P | Z | 22:25:05.0 | 78.6 | 0.4 | 1.1 | 8 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/05 | 03:30:34.8 | 42.570N | 144.210E | 29.0 | 6.2 | 6.6 | | SZGRF |

Hokkaido, Japan, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z | 03:42:20.4 | 75.7 | 33.2 | 1.4 | 470 | 6.4 | | |
| RUE | e P | Z | 03:42:20.3 | 75.8 | 35.3 | 1.5 | 587 | 6.5 | | |
| | e pP | Z | 03:42:28.5 | | | | | | | |
| HLG | e pP | Z | 03:42:31.3 | 76.3 | 31.6 | | | | | |

| | | | | | | | | | | |
|------|------|---|------------|------|------|------|-------|-----|--|--|
| CLL | e P | Z | 03:42:26.8 | 77.0 | 34.7 | 1.3 | 240 | 6.2 | | |
| | e pP | Z | 03:42:35.2 | | | | | | | |
| NRDL | e P | Z | 03:42:27.1 | 77.0 | 32.9 | 2.0 | 499 | 6.3 | | |
| BRG | e P | Z | 03:42:27.0 | 77.0 | 35.2 | 1.9 | 400 | 6.2 | | |
| FBE | e P | Z | 03:42:28.4 | 77.2 | 34.8 | 1.4 | 329 | 6.3 | | |
| | e pP | Z | 03:42:36.7 | | | | | | | |
| CLZ | e P | Z | 03:42:30.2 | 77.5 | 33.0 | 1.4 | 390 | 6.3 | | |
| | e pP | Z | 03:42:38.5 | | | | | | | |
| NEUB | e P | Z | 03:42:29.9 | 77.5 | 33.8 | 1.3 | 306 | 6.3 | | |
| | e pP | Z | 03:42:38.4 | | | | | | | |
| IBBN | e P | Z | 03:42:32.5 | 77.9 | 31.3 | 1.3 | 275 | 6.2 | | |
| | e pP | Z | 03:42:40.8 | | | | | | | |
| TANN | e P | Z | 03:42:32.2 | 77.9 | 34.2 | 1.9 | 326 | 6.1 | | |
| | e pP | Z | 03:42:40.7 | | | | | | | |
| WERD | e P | Z | 03:42:32.4 | 78.0 | 34.1 | 1.9 | 366 | 6.2 | | |
| | e pP | Z | 03:42:40.7 | | | | | | | |
| PLN | e P | Z | 03:42:32.5 | 78.0 | 34.0 | 2.0 | 2379 | 7.0 | | |
| | e pP | Z | 03:42:41.0 | | | | | | | |
| GUNZ | e P | Z | 03:42:32.9 | 78.0 | 34.1 | 1.9 | 428 | 6.3 | | |
| MOX | e P | Z | 03:42:32.8 | 78.1 | 33.7 | 1.9 | 445 | 6.3 | | |
| WERN | e P | Z | 03:42:33.3 | 78.1 | 34.1 | 1.9 | 402 | 6.2 | | |
| MANZ | e P | Z | 03:42:35.0 | 78.4 | 33.9 | 2.0 | 349 | 6.1 | | |
| UBBA | e P | Z | 03:42:35.0 | 78.5 | 32.6 | 1.9 | 355 | 6.1 | | |
| ROTZ | e P | Z | 03:42:36.2 | 78.6 | 33.9 | 1.9 | 547 | 6.3 | | |
| GEC2 | e P | Z | 03:42:36.7 | 78.8 | 34.8 | 2.0 | 330 | 6.0 | | |
| BUG | e P | Z | 03:42:37.2 | 78.8 | 30.8 | 1.6 | 390 | 6.2 | | |
| WET | e P | Z | 03:42:37.4 | 78.8 | 34.3 | 1.8 | 447 | 6.2 | | |
| GRA1 | e P | Z | 03:42:38.5 | 79.0 | 33.3 | 1.4 | 457 | 6.3 | | |
| | e L | Z | 04:20:14.4 | | | 21.5 | 31522 | 6.6 | | |
| TNS | e P | Z | 03:42:40.9 | 79.5 | 31.5 | 1.8 | 338 | 6.0 | | |
| RJOB | e P | Z | 03:42:44.0 | 80.0 | 34.1 | 2.1 | 691 | 6.2 | | |
| FUR | e P | Z | 03:42:45.0 | 80.2 | 33.2 | 1.2 | 331 | 6.2 | | |
| STU | e P | Z | 03:42:46.1 | 80.5 | 31.9 | 1.1 | 160 | 6.0 | | |
| WLF | e P | Z | 03:42:47.5 | 80.7 | 29.9 | 1.6 | 286 | 6.0 | | |
| BFO | e P | Z | 03:42:49.6 | 81.2 | 31.3 | 1.8 | 463 | 6.2 | | |

Date 2009/06/05
 Origin Time 07:46:12.8
 Crete, Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 07:50:17.7 | 17.4 | 143.0 | 1.2 | 19 | 4.1 | | |

Date 2009/06/05
 Origin Time 16:12:47.5
 Lat 48.241N
 Long 151.960E
 Depth 33.0N
 mb 4.8
 Source SZGRF

Kuril Islands, Russia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| CLL | e P | Z | 16:24:22.2 | 74.4 | 27.0 | 0.7 | 12 | 5.1 | | |
| BRG | e P | Z | 16:24:22.9 | 74.6 | 27.5 | 1.0 | 6 | 4.6 | | |
| CLZ | e P | Z | 16:24:24.3 | 74.7 | 25.4 | 1.0 | 10 | 4.8 | | |
| FBE | e P | Z | 16:24:23.9 | 74.7 | 27.2 | 0.9 | 8 | 4.7 | | |
| NEUB | e P | Z | 16:24:25.8 | 74.9 | 26.2 | 1.0 | 13 | 4.9 | | |
| WERD | e P | Z | 16:24:28.1 | 75.4 | 26.5 | 0.8 | 3 | 4.4 | | |
| PLN | e P | Z | 16:24:28.0 | 75.4 | 26.4 | 1.0 | 21 | 5.2 | | |
| MOX | e P | Z | 16:24:28.1 | 75.4 | 26.0 | 1.0 | 6 | 4.7 | | |
| GUNZ | e P | Z | 16:24:28.5 | 75.5 | 26.5 | 0.8 | 5 | 4.7 | | |
| WERN | e P | Z | 16:24:28.7 | 75.5 | 26.5 | 0.6 | 5 | 4.8 | | |
| MANZ | e P | Z | 16:24:30.7 | 75.9 | 26.3 | 0.9 | 4 | 4.5 | | |
| ROTZ | e P | Z | 16:24:31.8 | 76.0 | 26.3 | 1.1 | 8 | 4.8 | | |
| GRA1 | e P | Z | 16:24:34.0 | 76.4 | 25.7 | 0.9 | 17 | 5.2 | | |
| WET | e P | Z | 16:24:34.1 | 76.4 | 26.7 | 1.0 | 8 | 4.8 | | |
| GEC2 | e P | Z | 16:24:33.6 | 76.4 | 27.1 | 0.8 | 3 | 4.5 | | |
| TNS | e P | Z | 16:24:35.3 | 76.7 | 24.0 | 0.8 | 6 | 4.8 | | |
| RJOB | e P | Z | 16:24:41.1 | 77.7 | 26.5 | 0.7 | 5 | 4.7 | | |
| BFO | e P | Z | 16:24:44.6 | 78.4 | 23.8 | 0.9 | 6 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/05 | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPbc | Z | 21:36:26.2 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/06 | 01:17:45.1 | 28.734N | 162.444E | 33.0N | 5.4 | | | SZGRF |
| North Pacific Ocean | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z | 01:30:59.5 | 93.9 | 24.3 | 1.0 | 15 | 5.3 | | |
| CLL | e P | Z | 01:31:06.8 | 95.6 | 26.6 | 0.8 | 12 | 5.4 | | |
| BRG | e P | Z | 01:31:07.6 | 95.7 | 27.4 | 0.9 | 11 | 5.4 | | |
| CLZ | e P | Z | 01:31:08.0 | 95.8 | 24.4 | 1.0 | 8 | 5.2 | | |
| FBE | e P | Z | 01:31:08.3 | 95.8 | 26.9 | 0.9 | 15 | 5.5 | | |
| NEUB | e P | Z | 01:31:09.0 | 96.0 | 25.6 | 1.1 | 15 | 5.5 | | |
| TANN | e P | Z | 01:31:11.3 | 96.5 | 26.2 | 1.2 | 7 | 5.2 | | |
| WERD | e P | Z | 01:31:11.4 | 96.5 | 26.1 | 1.2 | 9 | 5.3 | | |
| PLN | e P | Z | 01:31:11.4 | 96.5 | 25.9 | 0.8 | 17 | 5.7 | | |
| MOX | e P | Z | 01:31:11.3 | 96.5 | 25.5 | 1.2 | 9 | 5.3 | | |
| GUNZ | e P | Z | 01:31:11.9 | 96.6 | 26.1 | 1.2 | 11 | 5.4 | | |
| WERN | e P | Z | 01:31:12.2 | 96.6 | 26.1 | 0.9 | 10 | 5.5 | | |

| | | | | | | | | |
|------|-----|---|------------|------|------|-----|----|-----|
| MANZ | e P | Z | 01:31:13.6 | 97.0 | 25.9 | 1.0 | 4 | 5.0 |
| ROTZ | e P | Z | 01:31:14.6 | 97.2 | 26.0 | 1.2 | 8 | 5.2 |
| GRA1 | e P | Z | 01:31:16.0 | 97.5 | 25.2 | 1.1 | 11 | 5.5 |
| WET | e P | Z | 01:31:16.0 | 97.5 | 26.6 | 1.0 | 5 | 5.2 |
| GEC2 | e P | Z | 01:31:15.3 | 97.5 | 27.3 | 1.0 | 4 | 5.1 |
| RJOB | e P | Z | 01:31:21.4 | 98.8 | 26.6 | 0.9 | 12 | 5.6 |
| WLF | e P | Z | 01:31:22.0 | 98.8 | 20.9 | 1.8 | 24 | 5.6 |
| FUR | e P | Z | 01:31:22.0 | 98.9 | 25.3 | 1.0 | 27 | 5.9 |
| BFO | e P | Z | 01:31:24.2 | 99.5 | 22.8 | 1.1 | 6 | 5.1 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|--|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/06 | 04:15:28.7 | 55.000N | 162.250E | 36.1 | 5.5 | 4.3 | | SZGRF |
| Near east coast of Kamchatka Peninsula, Russia | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| RGN | e P | Z | 04:26:22.5 | 67.5 | 18.7 | 1.4 | 132 | 6.0 | | |
| BSEG | e P | Z | 04:26:29.5 | 68.6 | 16.8 | 1.0 | 48 | 5.7 | | |
| RUE | e P | Z | 04:26:33.8 | 69.4 | 18.7 | 0.8 | 58 | 5.8 | | |
| NRDL | e P | Z | 04:26:37.8 | 70.1 | 16.6 | 1.0 | 19 | 5.2 | | |
| | e pP | Z | 04:26:48.2 | | | | | | | |
| IBBN | e P | Z | 04:26:41.5 | 70.6 | 15.2 | 0.8 | 41 | 5.6 | | |
| CLZ | e P | Z | 04:26:41.9 | 70.6 | 16.7 | 1.4 | 98 | 5.8 | | |
| | e pP | Z | 04:26:52.1 | | | | | | | |
| CLL | e P | Z | 04:26:41.1 | 70.7 | 18.1 | 1.0 | 54 | 5.6 | | |
| | e pP | Z | 04:26:51.3 | | | | | | | |
| BRG | e P | Z | 04:26:42.6 | 70.9 | 18.6 | 1.8 | 64 | 5.5 | | |
| | e pP | Z | 04:26:52.9 | | | | | | | |
| FBE | e P | Z | 04:26:43.4 | 71.0 | 18.3 | 1.1 | 57 | 5.6 | | |
| NEUB | e P | Z | 04:26:43.4 | 71.0 | 17.4 | 2.0 | 143 | 5.8 | | |
| | e pP | Z | 04:26:53.7 | | | | | | | |
| BUG | e P | Z | 04:26:46.8 | 71.5 | 14.8 | 1.9 | 123 | 5.7 | | |
| MOX | e P | Z | 04:26:47.0 | 71.6 | 17.2 | 0.8 | 31 | 5.5 | | |
| PLN | e P | Z | 04:26:47.5 | 71.6 | 17.5 | 0.9 | 157 | 6.1 | | |
| | e pP | Z | 04:26:57.7 | | | | | | | |
| WERD | e P | Z | 04:26:47.5 | 71.6 | 17.6 | 1.0 | 34 | 5.4 | | |
| TANN | e P | Z | 04:26:47.6 | 71.6 | 17.7 | 1.4 | 33 | 5.3 | | |
| | e pP | Z | 04:26:57.7 | | | | | | | |
| UBBA | e P | Z | 04:26:48.2 | 71.7 | 16.3 | 1.2 | 35 | 5.4 | | |
| GUNZ | e P | Z | 04:26:48.0 | 71.7 | 17.6 | 1.9 | 119 | 5.7 | | |
| WERN | e P | Z | 04:26:48.4 | 71.7 | 17.6 | 2.1 | 202 | 5.9 | | |
| MANZ | e P | Z | 04:26:50.2 | 72.1 | 17.5 | 1.1 | 27 | 5.3 | | |
| ROTZ | e P | Z | 04:26:51.8 | 72.3 | 17.5 | 1.4 | 58 | 5.5 | | |
| | e pP | Z | 04:27:02.0 | | | | | | | |
| TNS | e P | Z | 04:26:53.0 | 72.5 | 15.4 | 1.6 | 57 | 5.4 | | |
| | e pP | Z | 04:27:03.4 | | | | | | | |
| GRA1 | e P | Z | 04:26:53.3 | 72.5 | 16.9 | 1.7 | 176 | 5.9 | | |
| | e L | Z | 05:01:42.6 | | | 21.8 | 196 | | 4.3 | |

| | | | | | | | | |
|------|------|---|------------|------|------|-----|-----|-----|
| WET | e P | Z | 04:26:54.5 | 72.7 | 17.8 | 1.8 | 106 | 5.7 |
| GEC2 | e P | Z | 04:26:54.8 | 72.9 | 18.3 | 0.7 | 18 | 5.3 |
| | e pP | Z | 04:27:05.2 | | | | | |
| WLF | e P | Z | 04:26:58.5 | 73.4 | 14.0 | 1.5 | 45 | 5.3 |
| STU | e P | Z | 04:27:00.1 | 73.8 | 15.7 | 1.0 | 27 | 5.2 |
| | e pP | Z | 04:27:10.5 | | | | | |
| FUR | e P | Z | 04:27:01.6 | 74.0 | 16.8 | 0.8 | 31 | 5.4 |
| | e pP | Z | 04:27:11.8 | | | | | |
| RJOB | e P | Z | 04:27:02.4 | 74.1 | 17.6 | 1.0 | 20 | 5.1 |
| BFO | e P | Z | 04:27:03.5 | 74.4 | 15.2 | 2.0 | 102 | 5.5 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|--|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/06 | 05:52:44.0 | 36.380N | 141.940E | 28.3 | 6.1 | 5.5 | | SZGRF |
| Near east coast of eastern Honshu, Japan | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| RGN | e P | Z | 06:04:47.7 | 78.9 | 39.9 | 1.4 | 279 | 6.1 | | |
| RUE | e P | Z | 06:04:55.0 | 80.4 | 39.9 | 1.5 | 270 | 6.1 | | |
| BSEG | e P | Z | 06:04:56.1 | 80.5 | 37.6 | 1.5 | 302 | 6.1 | | |
| BRG | e P | Z | 06:05:01.1 | 81.5 | 39.9 | 1.8 | 185 | 5.9 | | |
| CLL | e P | Z | 06:05:00.9 | 81.6 | 39.3 | 1.3 | 147 | 6.0 | | |
| | e pP | Z | 06:05:09.2 | | | | | | | |
| FBE | e P | Z | 06:05:02.3 | 81.7 | 39.5 | 1.6 | 287 | 6.2 | | |
| | e pP | Z | 06:05:10.6 | | | | | | | |
| NRDL | e P | Z | 06:05:02.2 | 81.7 | 37.3 | 1.6 | 104 | 5.7 | | |
| NEUB | e P | Z | 06:05:04.1 | 82.1 | 38.4 | 1.4 | 206 | 6.1 | | |
| | e pP | Z | 06:05:12.5 | | | | | | | |
| CLZ | e P | Z | 06:05:04.7 | 82.2 | 37.4 | 1.5 | 185 | 6.0 | | |
| TANN | e P | Z | 06:05:06.2 | 82.5 | 38.8 | 1.6 | 109 | 5.8 | | |
| WERD | e P | Z | 06:05:06.3 | 82.5 | 38.7 | 1.6 | 127 | 5.9 | | |
| PLN | e P | Z | 06:05:06.7 | 82.5 | 38.6 | 1.8 | 776 | 6.6 | | |
| GUNZ | e P | Z | 06:05:06.7 | 82.6 | 38.7 | 1.7 | 181 | 6.0 | | |
| | e pP | Z | 06:05:14.8 | | | | | | | |
| WERN | e P | Z | 06:05:06.9 | 82.6 | 38.7 | 1.7 | 193 | 6.1 | | |
| | e pP | Z | 06:05:14.9 | | | | | | | |
| MOX | e P | Z | 06:05:06.9 | 82.6 | 38.2 | 1.7 | 176 | 6.0 | | |
| IBBN | e P | Z | 06:05:07.4 | 82.7 | 35.6 | 1.5 | 160 | 6.0 | | |
| MANZ | e P | Z | 06:05:08.7 | 83.0 | 38.5 | 1.8 | 155 | 5.9 | | |
| ROTZ | e P | Z | 06:05:09.7 | 83.1 | 38.6 | 1.6 | 281 | 6.2 | | |
| | e pP | Z | 06:05:17.8 | | | | | | | |
| UBBA | e P | Z | 06:05:09.7 | 83.1 | 37.1 | 1.7 | 122 | 5.9 | | |
| GEC2 | e P | Z | 06:05:09.4 | 83.2 | 39.6 | 1.6 | 112 | 5.9 | | |
| WET | e P | Z | 06:05:10.5 | 83.3 | 39.0 | 1.6 | 151 | 6.0 | | |
| | e pP | Z | 06:05:18.6 | | | | | | | |
| GRA1 | e P | Z | 06:05:12.0 | 83.5 | 37.9 | 1.5 | 430 | 6.4 | | |
| | e L | Z | 06:45:25.3 | | | 20.7 | 2333 | | 5.5 | |
| BUG | e P | Z | 06:05:11.9 | 83.6 | 35.2 | 1.6 | 181 | 6.0 | | |

| | | | | | | | | |
|------|------|---|------------|------|------|-----|-----|-----|
| TNS | e P | Z | 06:05:14.9 | 84.2 | 36.0 | 1.6 | 167 | 6.0 |
| RJOB | e P | Z | 06:05:16.2 | 84.4 | 38.9 | 1.7 | 206 | 6.1 |
| FUR | e P | Z | 06:05:17.5 | 84.7 | 37.8 | 1.7 | 355 | 6.3 |
| | e pP | Z | 06:05:25.8 | | | | | |
| STU | e P | Z | 06:05:19.1 | 85.1 | 36.4 | 1.3 | 214 | 6.2 |
| | e pP | Z | 06:05:27.5 | | | | | |
| WLF | e P | Z | 06:05:21.8 | 85.5 | 34.3 | 1.6 | 304 | 6.2 |
| | e pP | Z | 06:05:30.1 | | | | | |
| BFO | e P | Z | 06:05:22.4 | 85.8 | 35.8 | 1.5 | 204 | 6.0 |
| | e pP | Z | 06:05:30.7 | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/06 10:38:2.3 45.979N 148.637E 33.0G 5.4 4.2 SZGRF
 Kuril Islands, Russia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| BSEG | e P | Z | 10:49:35.2 | 74.0 | 28.7 | 0.9 | 46 | 5.5 | | |
| RUE | e P | Z | 10:49:36.3 | 74.2 | 30.8 | 1.0 | 63 | 5.6 | | |
| NRDL | e P | Z | 10:49:42.4 | 75.3 | 28.4 | 1.1 | 23 | 5.2 | | |
| CLL | e P | Z | 10:49:42.9 | 75.5 | 30.1 | 0.8 | 63 | 5.8 | | |
| BRG | e P | Z | 10:49:43.6 | 75.6 | 30.7 | 1.1 | 26 | 5.2 | | |
| FBE | e P | Z | 10:49:44.7 | 75.7 | 30.3 | 0.9 | 39 | 5.5 | | |
| CLZ | e P | Z | 10:49:45.7 | 75.8 | 28.5 | 1.2 | 69 | 5.7 | | |
| NEUB | e P | Z | 10:49:45.8 | 75.9 | 29.3 | 1.1 | 68 | 5.7 | | |
| IBBN | e P | Z | 10:49:47.2 | 76.2 | 26.8 | 0.9 | 32 | 5.5 | | |
| TANN | e P | Z | 10:49:48.7 | 76.4 | 29.7 | 1.9 | 49 | 5.3 | | |
| WERD | e P | Z | 10:49:48.8 | 76.4 | 29.6 | 1.0 | 22 | 5.2 | | |
| PLN | e P | Z | 10:49:48.9 | 76.5 | 29.5 | 1.0 | 104 | 5.9 | | |
| MOX | e P | Z | 10:49:49.0 | 76.5 | 29.2 | 1.1 | 32 | 5.4 | | |
| GUNZ | e P | Z | 10:49:49.2 | 76.5 | 29.6 | 0.9 | 29 | 5.4 | | |
| WERN | e P | Z | 10:49:49.6 | 76.6 | 29.6 | 0.9 | 31 | 5.4 | | |
| UBBA | e P | Z | 10:49:51.0 | 76.8 | 28.1 | 1.8 | 35 | 5.2 | | |
| MANZ | e P | Z | 10:49:51.3 | 76.9 | 29.4 | 1.0 | 23 | 5.3 | | |
| BUG | e P | Z | 10:49:52.1 | 77.1 | 26.4 | 1.2 | 48 | 5.5 | | |
| ROTZ | e P | Z | 10:49:52.7 | 77.1 | 29.4 | 1.1 | 33 | 5.4 | | |
| GEC2 | e P | Z | 10:49:53.8 | 77.4 | 30.3 | 1.1 | 19 | 5.1 | | |
| WET | e P | Z | 10:49:54.4 | 77.4 | 29.8 | 1.1 | 57 | 5.6 | | |
| GRA1 | e P | Z | 10:49:54.7 | 77.4 | 28.8 | 0.9 | 63 | 5.7 | | |
| | e L | Z | 11:27:30.5 | | | 20.5 | 115 | | 4.2 | |
| TNS | e P | Z | 10:49:56.4 | 77.8 | 27.1 | 1.2 | 31 | 5.3 | | |
| RJOB | e P | Z | 10:50:01.3 | 78.6 | 29.6 | 1.1 | 28 | 5.2 | | |
| FUR | e P | Z | 10:50:01.7 | 78.8 | 28.7 | 1.0 | 63 | 5.6 | | |
| STU | e P | Z | 10:50:02.1 | 78.9 | 27.4 | 1.0 | 42 | 5.4 | | |
| BFO | e P | Z | 10:50:05.6 | 79.5 | 26.8 | 1.1 | 25 | 5.1 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/06 | 12:21:51.1 | 55.861N | 162.938W | 33.0G | 5.5 | 4.6 | | SZGRF |

Alaska Peninsula, United States

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| BSEG | e P | Z | 12:33:00.6 | 70.1 | 356.0 | 1.3 | 115 | 5.9 | | |
| NRDL | e P | Z | 12:33:08.7 | 71.5 | 355.9 | 1.2 | 57 | 5.6 | | |
| IBBN | e P | Z | 12:33:09.3 | 71.6 | 354.5 | 1.3 | 116 | 5.8 | | |
| RUE | e P | Z | 12:33:09.6 | 71.6 | 358.1 | 1.2 | 101 | 5.8 | | |
| CLZ | e P | Z | 12:33:13.1 | 72.2 | 356.1 | 1.3 | 94 | 5.8 | | |
| BUG | e P | Z | 12:33:13.7 | 72.4 | 354.3 | 1.2 | 80 | 5.7 | | |
| CLL | e P | Z | 12:33:16.0 | 72.8 | 357.6 | 1.2 | 45 | 5.5 | | |
| NEUB | e P | Z | 12:33:16.8 | 72.8 | 356.9 | 1.3 | 87 | 5.7 | | |
| UBBA | e P | Z | 12:33:18.7 | 73.2 | 355.9 | 1.6 | 37 | 5.2 | | |
| FBE | e P | Z | 12:33:18.9 | 73.2 | 357.8 | 1.3 | 86 | 5.6 | | |
| BRG | e P | Z | 12:33:18.9 | 73.2 | 358.2 | 1.2 | 43 | 5.4 | | |
| MOX | e P | Z | 12:33:20.0 | 73.4 | 356.8 | 1.3 | 78 | 5.6 | | |
| PLN | e P | Z | 12:33:21.2 | 73.6 | 357.1 | 1.2 | 155 | 5.9 | | |
| WERD | e P | Z | 12:33:21.4 | 73.6 | 357.2 | 1.9 | 70 | 5.4 | | |
| TANN | e P | Z | 12:33:21.7 | 73.7 | 357.3 | 1.7 | 60 | 5.4 | | |
| TNS | e P | Z | 12:33:21.6 | 73.7 | 355.0 | 1.2 | 53 | 5.4 | | |
| GUNZ | e P | Z | 12:33:22.0 | 73.7 | 357.2 | 1.6 | 59 | 5.4 | | |
| WERN | e P | Z | 12:33:22.5 | 73.8 | 357.3 | 1.4 | 62 | 5.4 | | |
| MANZ | e P | Z | 12:33:23.9 | 74.1 | 357.1 | 1.5 | 50 | 5.3 | | |
| WLF | e P | Z | 12:33:24.2 | 74.1 | 353.7 | 1.3 | 87 | 5.6 | | |
| ROTZ | e P | Z | 12:33:25.6 | 74.3 | 357.2 | 1.4 | 48 | 5.4 | | |
| GRA1 | e P | Z | 12:33:25.8 | 74.3 | 356.6 | 1.4 | 92 | 5.6 | | |
| | e L | Z | 13:14:37.4 | | | 18.7 | 287 | | 4.6 | |
| WET | e P | Z | 12:33:29.2 | 74.9 | 357.6 | 1.3 | 43 | 5.3 | | |
| STU | e P | Z | 12:33:30.0 | 75.2 | 355.4 | 1.2 | 47 | 5.5 | | |
| GEC2 | e P | Z | 12:33:30.7 | 75.3 | 358.1 | 1.2 | 33 | 5.3 | | |
| BFO | e P | Z | 12:33:32.1 | 75.6 | 355.0 | 1.6 | 58 | 5.5 | | |
| FUR | e P | Z | 12:33:34.2 | 75.9 | 356.7 | 1.5 | 111 | 5.8 | | |
| RJOB | e P | Z | 12:33:36.8 | 76.3 | 357.5 | 1.0 | 32 | 5.4 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/06 | 20:33:24.3 | 22.990N | 46.660W | 34.1 | 6.0 | 5.9 | | SZGRF |

Northern Mid-Atlantic Ridge

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| BUG | e P | Z | 20:42:15.7 | 50.0 | 256.4 | 1.3 | 146 | 5.8 | | |
| | e pP | Z | 20:42:24.9 | | | | | | | |
| BFO | e P | Z | 20:42:15.9 | 50.0 | 259.9 | 1.2 | 256 | 6.0 | | |
| | e pP | Z | 20:42:25.3 | | | | | | | |
| TNS | e P | Z | 20:42:19.6 | 50.4 | 258.4 | 1.2 | 236 | 6.0 | | |
| IBBN | e P | Z | 20:42:19.5 | 50.5 | 256.1 | 1.2 | 319 | 6.1 | | |
| STU | e P | Z | 20:42:20.5 | 50.6 | 260.2 | 1.2 | 244 | 6.0 | | |

| | | | | | | | | | |
|------|------|---|------------|------|-------|------|-------|-----|-----|
| UBBA | e P | Z | 20:42:27.8 | 51.5 | 259.3 | 1.6 | 125 | 5.6 | |
| NRDL | e P | Z | 20:42:30.7 | 51.9 | 258.1 | 1.2 | 392 | 6.2 | |
| | e pP | Z | 20:42:40.1 | | | | | | |
| FUR | e P | Z | 20:42:30.7 | 51.9 | 262.4 | 1.5 | 214 | 5.9 | |
| CLZ | e P | Z | 20:42:30.7 | 51.9 | 258.8 | 1.2 | 187 | 5.9 | |
| | e pP | Z | 20:42:40.4 | | | | | | |
| GRA1 | e P | Z | 20:42:31.8 | 52.1 | 261.2 | 1.2 | 172 | 5.9 | |
| | e pP | Z | 20:42:40.8 | | | | | | |
| | e L | E | 21:00:27.0 | | | 19.6 | 11015 | | 5.9 |
| BSEG | e P | Z | 20:42:33.6 | 52.3 | 257.2 | 1.2 | 783 | 6.5 | |
| | e pP | Z | 20:42:42.9 | | | | | | |
| MOX | e P | Z | 20:42:34.8 | 52.5 | 260.8 | 1.2 | 180 | 5.9 | |
| | e pP | Z | 20:42:44.3 | | | | | | |
| NEUB | e P | Z | 20:42:36.1 | 52.7 | 260.5 | 1.1 | 207 | 6.0 | |
| | e pP | Z | 20:42:45.1 | | | | | | |
| MANZ | e P | Z | 20:42:36.3 | 52.7 | 261.7 | 1.3 | 161 | 5.8 | |
| | e pP | Z | 20:42:45.6 | | | | | | |
| ROTZ | e P | Z | 20:42:36.8 | 52.7 | 262.0 | 1.3 | 135 | 5.7 | |
| | e pP | Z | 20:42:46.2 | | | | | | |
| PLN | e P | Z | 20:42:37.3 | 52.8 | 261.4 | 1.1 | 342 | 6.2 | |
| | e pP | Z | 20:42:46.4 | | | | | | |
| RJOB | e P | Z | 20:42:37.5 | 52.9 | 264.0 | 1.3 | 104 | 5.6 | |
| | e pP | Z | 20:42:46.7 | | | | | | |
| WERN | e P | Z | 20:42:38.4 | 52.9 | 261.7 | 1.3 | 306 | 6.1 | |
| TANN | e P | Z | 20:42:38.6 | 53.0 | 261.7 | 1.4 | 146 | 5.7 | |
| WET | e P | Z | 20:42:39.2 | 53.1 | 263.0 | 1.3 | 178 | 5.8 | |
| | e pP | Z | 20:42:48.6 | | | | | | |
| CLL | e P | Z | 20:42:41.8 | 53.5 | 261.5 | 1.1 | 172 | 6.0 | |
| GEC2 | e P | Z | 20:42:43.0 | 53.6 | 263.9 | 1.3 | 312 | 6.2 | |
| | e pP | Z | 20:42:52.2 | | | | | | |
| FBE | e P | Z | 20:42:43.4 | 53.6 | 262.1 | 1.2 | 296 | 6.2 | |
| | e pP | Z | 20:42:52.7 | | | | | | |
| BRG | e P | Z | 20:42:45.9 | 54.0 | 262.6 | 1.2 | 162 | 5.9 | |
| | e pP | Z | 20:42:55.2 | | | | | | |
| RUE | e P | Z | 20:42:46.7 | 54.1 | 261.3 | 1.2 | 414 | 6.3 | |

Date 2009/06/07 Origin Time 23:24:41.0 Lat 59.490N Long 137.361W Depth 16.0 mb 5.3 Ms 4.5 ML Source SZGRF
Southeastern Alaska, United States

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| BSEG | e P | Z | 23:35:11.9 | 63.6 | 342.4 | 1.3 | 50 | 5.6 | | |
| | e pP | Z | 23:35:16.4 | | | | | | | |
| IBBN | e P | Z | 23:35:18.7 | 64.7 | 341.3 | 1.2 | 29 | 5.4 | | |
| | e pP | Z | 23:35:23.2 | | | | | | | |
| NRDL | e P | Z | 23:35:20.2 | 65.0 | 342.5 | 1.1 | 24 | 5.3 | | |
| | e pP | Z | 23:35:24.7 | | | | | | | |

| | | | | | | | | |
|------|------|---|------------|------|-------|-----|----|-----|
| BUG | e P | Z | 23:35:22.8 | 65.4 | 341.1 | 1.3 | 33 | 5.4 |
| | e pP | Z | 23:35:27.4 | | | | | |
| RUE | e P | Z | 23:35:24.6 | 65.6 | 344.4 | 1.1 | 35 | 5.5 |
| | e pP | Z | 23:35:29.1 | | | | | |
| CLZ | e P | Z | 23:35:25.0 | 65.7 | 342.7 | 1.1 | 34 | 5.5 |
| | e pP | Z | 23:35:29.6 | | | | | |
| NEUB | e P | Z | 23:35:30.3 | 66.5 | 343.5 | 1.1 | 41 | 5.6 |
| | e pP | Z | 23:35:34.6 | | | | | |
| UBBA | e P | Z | 23:35:30.4 | 66.6 | 342.6 | 1.6 | 27 | 5.2 |
| | e pP | Z | 23:35:34.9 | | | | | |
| CLL | e P | Z | 23:35:30.5 | 66.6 | 344.1 | 1.0 | 15 | 5.2 |
| | e pP | Z | 23:35:35.0 | | | | | |
| TNS | e P | Z | 23:35:32.0 | 66.8 | 341.9 | 1.5 | 19 | 5.1 |
| | e pP | Z | 23:35:36.5 | | | | | |
| WLF | e P | Z | 23:35:32.6 | 66.9 | 340.8 | 1.3 | 16 | 5.1 |
| | e pP | Z | 23:35:37.2 | | | | | |
| MOX | e P | Z | 23:35:33.3 | 67.0 | 343.5 | 1.1 | 24 | 5.4 |
| | e pP | Z | 23:35:37.9 | | | | | |
| FBE | e P | Z | 23:35:33.8 | 67.1 | 344.4 | 1.2 | 26 | 5.3 |
| | e pP | Z | 23:35:38.2 | | | | | |
| BRG | e P | Z | 23:35:34.5 | 67.2 | 344.7 | 1.1 | 22 | 5.3 |
| | e pP | Z | 23:35:39.0 | | | | | |
| PLN | e P | Z | 23:35:34.8 | 67.3 | 343.8 | 1.1 | 81 | 5.9 |
| | e pP | Z | 23:35:39.3 | | | | | |
| WERD | e P | Z | 23:35:35.3 | 67.3 | 343.9 | 1.1 | 11 | 5.0 |
| | e pP | Z | 23:35:39.8 | | | | | |
| TANN | e P | Z | 23:35:35.7 | 67.4 | 344.0 | 1.0 | 11 | 5.0 |
| | e pP | Z | 23:35:40.2 | | | | | |
| GUNZ | e P | Z | 23:35:36.0 | 67.4 | 343.9 | 1.1 | 13 | 5.1 |
| | e pP | Z | 23:35:40.3 | | | | | |
| WERN | e P | Z | 23:35:36.4 | 67.5 | 343.9 | 1.2 | 16 | 5.1 |
| | e pP | Z | 23:35:41.1 | | | | | |
| MANZ | e P | Z | 23:35:37.5 | 67.7 | 343.8 | 1.3 | 15 | 5.0 |
| | e pP | Z | 23:35:42.2 | | | | | |
| GRA1 | e P | Z | 23:35:38.9 | 67.9 | 343.4 | 1.3 | 33 | 5.4 |
| | e pP | Z | 23:35:43.1 | | | | | |
| ROTZ | e P | Z | 23:35:39.5 | 68.0 | 343.9 | 1.2 | 11 | 5.0 |
| | e pP | Z | 23:35:44.0 | | | | | |
| STU | e P | Z | 23:35:41.6 | 68.4 | 342.5 | 1.5 | 25 | 5.2 |
| | e pP | Z | 23:35:46.2 | | | | | |
| BFO | e P | Z | 23:35:43.1 | 68.6 | 342.1 | 1.4 | 19 | 5.2 |
| | e pP | Z | 23:35:47.6 | | | | | |
| WET | e P | Z | 23:35:44.0 | 68.7 | 344.3 | 1.2 | 17 | 5.1 |
| | e pP | Z | 23:35:48.6 | | | | | |
| GEC2 | e P | Z | 23:35:46.6 | 69.1 | 344.8 | 1.1 | 13 | 5.0 |
| | e pP | Z | 23:35:51.2 | | | | | |
| FUR | e P | Z | 23:35:47.7 | 69.3 | 343.6 | 1.0 | 25 | 5.3 |
| | e pP | Z | 23:35:52.4 | | | | | |
| RJOB | e P | Z | 23:35:52.0 | 70.0 | 344.4 | 1.0 | 10 | 4.9 |

| | | | | | | | | | | |
|------|------|---|------------|------|-------|------|--|-----|--|-----|
| | e pP | Z | 23:35:56.5 | | | | | | | |
| GRA1 | e L | Z | 00:06:18.1 | 67.9 | 343.4 | 19.7 | | 271 | | 4.5 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------------------------------|-------------|---------|----------|--------|----|----|----|--------|
| 2009/06/07 | 12:46:29.0 | 22.000S | 179.600W | 570.0G | | | | NEIC |
| Southeastern Alaska, United States | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 13:05:08.1 | 147.2 | 17.1 | | | | | |
| RUE | e PKPbc | Z | 13:05:09.8 | 147.8 | 23.8 | | | | | |
| NRDL | e PKPbc | Z | 13:05:11.6 | 148.6 | 17.5 | | | | | |
| CLL | e PKPbc | Z | 13:05:12.8 | 149.1 | 23.2 | | | | | |
| IBBN | e PKPbc | Z | 13:05:13.0 | 149.2 | 13.4 | | | | | |
| CLZ | e PKPbc | Z | 13:05:13.3 | 149.2 | 18.3 | | | | | |
| BRG | e PKPbc | Z | 13:05:13.4 | 149.3 | 25.1 | | | | | |
| FBE | e PKPbc | Z | 13:05:14.0 | 149.4 | 24.1 | | | | | |
| NEUB | e PKPbc | Z | 13:05:13.9 | 149.5 | 21.1 | | | | | |
| MOX | e PKPbc | Z | 13:05:15.1 | 150.0 | 21.2 | | | | | |
| TANN | e PKPbc | Z | 13:05:15.3 | 150.1 | 22.8 | | | | | |
| WERD | e PKPbc | Z | 13:05:15.2 | 150.1 | 22.5 | | | | | |
| PLN | e PKPbc | Z | 13:05:15.2 | 150.1 | 22.2 | | | | | |
| BUG | e PKPbc | Z | 13:05:14.9 | 150.1 | 12.8 | | | | | |
| GUNZ | e PKPbc | Z | 13:05:15.6 | 150.1 | 22.6 | | | | | |
| WERN | e PKPbc | Z | 13:05:15.8 | 150.2 | 22.8 | | | | | |
| UBBA | e PKPbc | Z | 13:05:15.5 | 150.2 | 18.1 | | | | | |
| MANZ | e PKPbc | Z | 13:05:16.4 | 150.5 | 22.5 | | | | | |
| ROTZ | e PKPbc | Z | 13:05:16.6 | 150.7 | 22.8 | | | | | |
| GRA1 | e PKPbc | Z | 13:05:17.3 | 151.0 | 21.1 | | | | | |
| TNS | e PKPbc | Z | 13:05:17.5 | 151.1 | 15.6 | | | | | |
| WET | e PKPbc | Z | 13:05:17.4 | 151.1 | 24.5 | | | | | |
| GEC2 | e PKPbc | Z | 13:05:17.6 | 151.1 | 26.2 | | | | | |
| WLF | e PKPbc | Z | 13:05:19.9 | 152.0 | 11.4 | | | | | |
| STU | e PKPbc | Z | 13:05:20.2 | 152.3 | 17.8 | | | | | |
| RJOB | e PKPbc | Z | 13:05:19.9 | 152.4 | 25.4 | | | | | |
| FUR | e PKPbc | Z | 13:05:20.3 | 152.4 | 22.2 | | | | | |
| BFO | e PKPbc | Z | 13:05:21.2 | 152.9 | 16.3 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/07 | 17:48:42.7 | 36.181S | 20.699W | 31.1 | 5.4 | | | SZGRF |
| Southern Mid-Atlantic Ridge | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z | 18:01:41.3 | 90.4 | 205.3 | 0.8 | 18 | 5.4 | | |
| | e PcP | Z | 18:01:44.9 | | | | | | | |
| | e pP | Z | 18:01:50.3 | | | | | | | |

e sP Z 18:01:54.1

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/07 | 21:26:44.9 | 15.712N | 93.154W | 157.2 | 4.8 | | | SZGRF |

Near coast of Chiapas, Mexico

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GRA1 | e P | Z 21:39:13.0 | 87.0 | 291.0 | 1.4 | 11 | 4.8 | | |
| | e pP | Z 21:39:51.9 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/08 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 00:03:48.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|--------|----|----|----|--------|
| 2009/06/08 | 04:33:20.2 | 22.200S | 179.600W | 618.0G | | | | NEIC |

South of Fiji Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z 04:51:55.4 | 147.4 | 17.2 | | | | | |
| | e PKPab | Z 04:51:59.6 | | | | | | | |
| HLG | e PKPbc | Z 04:51:55.7 | 147.5 | 13.0 | | | | | |
| RUE | e PKPbc | Z 04:51:57.1 | 148.0 | 23.9 | | | | | |
| NRDL | e PKPbc | Z 04:51:58.7 | 148.8 | 17.5 | | | | | |
| CLL | e PKPbc | Z 04:52:00.1 | 149.3 | 23.3 | | | | | |
| IBBN | e PKPbc | Z 04:52:00.3 | 149.4 | 13.5 | | | | | |
| | e PKPab | Z 04:52:07.6 | | | | | | | |
| CLZ | e PKPbc | Z 04:52:00.5 | 149.4 | 18.3 | | | | | |
| BRG | e PKPbc | Z 04:52:00.7 | 149.4 | 25.2 | | | | | |
| FBE | e PKPbc | Z 04:52:01.2 | 149.6 | 24.2 | | | | | |
| NEUB | e PKPbc | Z 04:52:01.1 | 149.7 | 21.2 | | | | | |
| MOX | e PKPbc | Z 04:52:02.3 | 150.2 | 21.3 | | | | | |
| | e PKPab | Z 04:52:11.4 | | | | | | | |
| TANN | e PKPbc | Z 04:52:02.5 | 150.2 | 22.9 | | | | | |
| WERD | e PKPbc | Z 04:52:02.5 | 150.3 | 22.6 | | | | | |
| PLN | e PKPbc | Z 04:52:02.5 | 150.3 | 22.3 | | | | | |
| BUG | e PKPbc | Z 04:52:02.2 | 150.3 | 12.9 | | | | | |
| GUNZ | e PKPbc | Z 04:52:02.8 | 150.3 | 22.7 | | | | | |
| | e PKPab | Z 04:52:12.2 | | | | | | | |
| WERN | e PKPbc | Z 04:52:02.9 | 150.4 | 22.9 | | | | | |
| | e PKPab | Z 04:52:12.5 | | | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

21

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| UBBA | e | PKPbc | Z | 04:52:02.7 | 150.4 | 18.2 |
| MANZ | e | PKPbc | Z | 04:52:03.6 | 150.7 | 22.6 |
| | e | PKPab | Z | 04:52:04.9 | | |
| ROTZ | e | PKPbc | Z | 04:52:04.0 | 150.9 | 22.9 |
| | e | PKPab | Z | 04:52:14.8 | | |
| GRA1 | e | PKPbc | Z | 04:52:04.6 | 151.2 | 21.2 |
| | e | PKPab | Z | 04:52:16.0 | | |
| TNS | e | PKPbc | Z | 04:52:04.7 | 151.3 | 15.6 |
| WET | e | PKPbc | Z | 04:52:04.7 | 151.3 | 24.6 |
| | e | PKPab | Z | 04:52:16.6 | | |
| GEC2 | e | PKPbc | Z | 04:52:04.8 | 151.3 | 26.4 |
| WLF | e | PKPbc | Z | 04:52:07.0 | 152.2 | 11.5 |
| STU | e | PKPbc | Z | 04:52:07.5 | 152.5 | 17.9 |
| | e | PKPab | Z | 04:52:21.0 | | |
| RJOB | e | PKPab | Z | 04:52:22.4 | 152.6 | 25.6 |
| FUR | e | PKPbc | Z | 04:52:07.5 | 152.6 | 22.3 |
| | e | PKPab | Z | 04:52:22.1 | | |
| BFO | e | PKPbc | Z | 04:52:08.4 | 153.1 | 16.4 |
| | e | PKPab | Z | 04:52:23.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-------------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/08 | 05:13:24.0 | 16.580N | 85.460W | 22.4 | 5.4 | 4.8 | | SZGRF |
| North of Honduras | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| TNS | e P | Z | 05:25:31.4 | 79.8 | 283.7 | 1.2 | 36 | 5.2 | | |
| | e pP | Z | 05:25:37.9 | | | | | | | |
| BSEG | e P | Z | 05:25:32.6 | 80.0 | 284.5 | 1.3 | 94 | 5.6 | | |
| | e pP | Z | 05:25:39.1 | | | | | | | |
| BFO | e P | Z | 05:25:33.0 | 80.2 | 283.9 | 1.3 | 19 | 4.9 | | |
| | e pP | Z | 05:25:39.4 | | | | | | | |
| NRDL | e P | Z | 05:25:33.9 | 80.2 | 284.5 | 1.1 | 45 | 5.3 | | |
| | e pP | Z | 05:25:40.4 | | | | | | | |
| CLZ | e P | Z | 05:25:35.8 | 80.5 | 284.9 | 1.0 | 46 | 5.4 | | |
| | e pP | Z | 05:25:42.3 | | | | | | | |
| UBBA | e P | Z | 05:25:36.0 | 80.6 | 284.7 | 1.9 | 57 | 5.3 | | |
| | e pP | Z | 05:25:42.5 | | | | | | | |
| NEUB | e P | Z | 05:25:40.8 | 81.6 | 286.0 | 1.1 | 39 | 5.4 | | |
| MOX | e P | Z | 05:25:41.1 | 81.6 | 286.0 | 1.1 | 26 | 5.3 | | |
| | e pP | Z | 05:25:47.6 | | | | | | | |
| GRA1 | e P | Z | 05:25:41.5 | 81.6 | 285.8 | 1.3 | 38 | 5.4 | | |
| | e pP | Z | 05:25:48.0 | | | | | | | |
| | e L | Z | 06:01:49.5 | | | 19.5 | 460 | | 4.8 | |
| PLN | e P | Z | 05:25:43.2 | 82.0 | 286.4 | 1.0 | 126 | 6.0 | | |
| | e pP | Z | 05:25:49.7 | | | | | | | |
| WERD | e P | Z | 05:25:43.7 | 82.1 | 286.5 | 1.1 | 28 | 5.3 | | |
| | e pP | Z | 05:25:50.2 | | | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

22

| | | | | | | | | |
|------|------|---|------------|------|-------|-----|-----|-----|
| MANZ | e P | Z | 05:25:43.9 | 82.1 | 286.4 | 1.1 | 17 | 5.1 |
| | e pP | Z | 05:25:50.4 | | | | | |
| GUNZ | e P | Z | 05:25:44.0 | 82.1 | 286.5 | 1.1 | 28 | 5.3 |
| | e pP | Z | 05:25:50.5 | | | | | |
| WERN | e P | Z | 05:25:44.4 | 82.2 | 286.6 | 1.1 | 37 | 5.4 |
| | e pP | Z | 05:25:50.9 | | | | | |
| TANN | e P | Z | 05:25:44.4 | 82.2 | 286.6 | 1.1 | 35 | 5.4 |
| | e pP | Z | 05:25:50.9 | | | | | |
| ROTZ | e P | Z | 05:25:44.9 | 82.2 | 286.5 | 1.4 | 36 | 5.3 |
| | e pP | Z | 05:25:51.3 | | | | | |
| CLL | e P | Z | 05:25:44.4 | 82.3 | 286.9 | 1.0 | 34 | 5.4 |
| | e pP | Z | 05:25:50.9 | | | | | |
| FBE | e P | Z | 05:25:46.6 | 82.6 | 287.2 | 1.9 | 116 | 5.8 |
| | e pP | Z | 05:25:53.1 | | | | | |
| WET | e P | Z | 05:25:47.9 | 82.8 | 287.1 | 1.3 | 58 | 5.7 |
| | e pP | Z | 05:25:54.4 | | | | | |
| BRG | e P | Z | 05:25:48.3 | 83.0 | 287.7 | 2.2 | 148 | 5.8 |
| | e pP | Z | 05:25:54.7 | | | | | |
| RJOB | e P | Z | 05:25:49.5 | 83.2 | 287.2 | 1.7 | 62 | 5.6 |
| | e pP | Z | 05:25:56.0 | | | | | |
| GEC2 | e P | Z | 05:25:50.8 | 83.4 | 287.7 | 1.2 | 53 | 5.6 |
| | e pP | Z | 05:25:57.3 | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/08 14:49:42.2 20.900S 177.200W 343.0G NEIC
 Fiji Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 15:08:43.5 | 146.5 | 12.8 | | | | | |
| RUE | e PKPbc | Z | 15:08:45.8 | 147.3 | 19.2 | | | | | |
| NRDL | e PKPbc | Z | 15:08:47.2 | 147.9 | 12.9 | | | | | |
| IBBN | e PKPbc | Z | 15:08:48.7 | 148.4 | 8.9 | | | | | |
| CLZ | e PKPbc | Z | 15:08:49.4 | 148.5 | 13.6 | | | | | |
| CLL | e PKPbc | Z | 15:08:49.2 | 148.6 | 18.5 | | | | | |
| BRG | e PKPbc | Z | 15:08:49.9 | 148.8 | 20.4 | | | | | |
| FBE | e PKPbc | Z | 15:08:50.5 | 148.9 | 19.3 | | | | | |
| NEUB | e PKPbc | Z | 15:08:50.2 | 148.9 | 16.4 | | | | | |
| BUG | e PKPbc | Z | 15:08:50.8 | 149.3 | 8.2 | | | | | |
| MOX | e PKPbc | Z | 15:08:51.6 | 149.5 | 16.4 | | | | | |
| PLN | e PKPbc | Z | 15:08:51.8 | 149.5 | 17.4 | | | | | |
| WERD | e PKPbc | Z | 15:08:51.8 | 149.5 | 17.7 | | | | | |
| TANN | e PKPbc | Z | 15:08:51.8 | 149.5 | 18.0 | | | | | |
| UBBA | e PKPbc | Z | 15:08:51.7 | 149.6 | 13.4 | | | | | |
| GUNZ | e PKPbc | Z | 15:08:52.2 | 149.6 | 17.8 | | | | | |
| WERN | e PKPbc | Z | 15:08:52.3 | 149.7 | 17.9 | | | | | |
| MANZ | e PKPbc | Z | 15:08:53.0 | 150.0 | 17.6 | | | | | |
| ROTZ | e PKPbc | Z | 15:08:53.4 | 150.2 | 17.9 | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

23

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| TNS | e | PKPbc | Z | 15:08:53.7 | 150.3 | 10.7 |
| GEC2 | e | PKPbc | Z | 15:08:54.5 | 150.7 | 21.2 |
| WLF | e | PKPbc | Z | 15:08:55.9 | 151.1 | 6.5 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|----|----|--------|
| 2009/06/08 | 20:20:18.0 | 7.300S | 69.340W | 546.0 | 5.2 | | | SZGRF |

Western Brazil

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| WLF | e P | Z 20:32:02.1 | 86.3 | 254.2 | 0.9 | 58 | 5.7 | | |
| | e pP | Z 20:34:00.6 | | | | | | | |
| BFO | e P | Z 20:32:06.3 | 87.4 | 255.9 | 1.1 | 12 | 4.9 | | |
| BUG | e P | Z 20:32:07.0 | 87.5 | 255.0 | 1.3 | 33 | 5.3 | | |
| TNS | e P | Z 20:32:09.3 | 87.9 | 256.0 | 1.0 | 16 | 5.3 | | |
| STU | e P | Z 20:32:09.7 | 88.0 | 256.6 | 0.9 | 26 | 5.5 | | |
| FUR | e P | Z 20:32:15.8 | 89.2 | 258.2 | 0.9 | 26 | 5.5 | | |
| GRA1 | e P | Z 20:32:16.9 | 89.5 | 258.1 | 1.5 | 26 | 5.2 | | |
| | e pP | Z 20:34:16.6 | | | | | | | |
| MANZ | e P | Z 20:32:20.1 | 90.1 | 258.8 | 1.0 | 11 | 5.0 | | |
| | e pP | Z 20:34:19.9 | | | | | | | |
| RJOB | e P | Z 20:32:20.0 | 90.2 | 259.3 | 1.2 | 24 | 5.3 | | |
| ROTZ | e P | Z 20:32:20.3 | 90.2 | 258.8 | 1.0 | 16 | 5.2 | | |
| | e pP | Z 20:34:19.8 | | | | | | | |
| PLN | e P | Z 20:32:20.4 | 90.3 | 258.8 | 2.0 | 145 | 5.9 | | |
| WERD | e P | Z 20:32:20.8 | 90.4 | 258.9 | 1.1 | 7 | 4.8 | | |
| | e pP | Z 20:34:20.8 | | | | | | | |
| WERN | e P | Z 20:32:21.1 | 90.4 | 259.0 | 1.0 | 7 | 4.8 | | |
| TANN | e P | Z 20:32:21.1 | 90.4 | 259.0 | 1.2 | 12 | 5.0 | | |
| | e pP | Z 20:34:21.0 | | | | | | | |
| WET | e P | Z 20:32:21.2 | 90.5 | 259.4 | 1.1 | 12 | 5.0 | | |
| | e pP | Z 20:34:21.1 | | | | | | | |
| CLL | e P | Z 20:32:23.2 | 90.9 | 259.5 | 1.5 | 12 | 5.0 | | |
| | e pP | Z 20:34:23.1 | | | | | | | |
| GEC2 | e P | Z 20:32:23.4 | 91.0 | 260.0 | 1.1 | 12 | 5.2 | | |
| FBE | e P | Z 20:32:24.4 | 91.1 | 259.7 | 1.0 | 10 | 5.1 | | |
| | e pP | Z 20:34:24.6 | | | | | | | |
| BRG | e P | Z 20:32:25.9 | 91.5 | 260.2 | 1.1 | 12 | 5.1 | | |
| | e pP | Z 20:34:25.7 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/09 | 02:07:39.5 | 40.520N | 142.855E | 45.1 | 4.9 | | | SZGRF |

Near east coast of eastern Honshu, Japan

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z 02:19:45.7 | 80.3 | 35.2 | 1.0 | 14 | 4.9 | | |

e pP Z 02:19:59.0

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/09 | 05:11:10.6 | 22.800S | 171.400E | 57.0G | | | | NEIC |

Southeast of Loyalty Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| RUE | e PKPbc | Z | 05:30:43.1 | 145.7 | 38.6 | | | | | |
| BSEG | e PKPbc | Z | 05:30:43.2 | 145.8 | 32.1 | | | | | |
| BRG | e PKPbc | Z | 05:30:46.7 | 146.9 | 40.4 | | | | | |
| CLL | e PKPbc | Z | 05:30:46.6 | 147.0 | 38.5 | | | | | |
| NRDL | e PKPbc | Z | 05:30:46.9 | 147.0 | 32.9 | | | | | |
| FBE | e PKPbc | Z | 05:30:47.5 | 147.1 | 39.4 | | | | | |
| CLZ | e PKPbc | Z | 05:30:48.5 | 147.5 | 33.9 | | | | | |
| NEUB | e PKPbc | Z | 05:30:48.4 | 147.5 | 36.7 | | | | | |
| TANN | e PKPbc | Z | 05:30:49.4 | 147.9 | 38.5 | | | | | |
| WERD | e PKPbc | Z | 05:30:49.5 | 147.9 | 38.3 | | | | | |
| PLN | e PKPbc | Z | 05:30:49.6 | 147.9 | 38.0 | | | | | |
| IBBN | e PKPbc | Z | 05:30:49.3 | 147.9 | 29.3 | | | | | |
| GUNZ | e PKPbc | Z | 05:30:49.8 | 148.0 | 38.4 | | | | | |
| WERN | e PKPbc | Z | 05:30:50.0 | 148.0 | 38.5 | | | | | |
| MOX | e PKPbc | Z | 05:30:49.6 | 148.0 | 37.0 | | | | | |
| MANZ | e PKPbc | Z | 05:30:50.8 | 148.3 | 38.4 | | | | | |
| UBBA | e PKPbc | Z | 05:30:51.0 | 148.5 | 34.2 | | | | | |
| ROTZ | e PKPbc | Z | 05:30:51.2 | 148.5 | 38.8 | | | | | |
| GEC2 | e PKPbc | Z | 05:30:51.1 | 148.5 | 42.1 | | | | | |
| WET | e PKPbc | Z | 05:30:51.8 | 148.7 | 40.5 | | | | | |
| BUG | e PKPbc | Z | 05:30:51.5 | 148.8 | 29.2 | | | | | |
| GRA1 | e PKPbc | Z | 05:30:52.2 | 148.9 | 37.3 | | | | | |
| TNS | e PKPbc | Z | 05:30:53.6 | 149.5 | 32.2 | | | | | |
| RJOB | e PKPbc | Z | 05:30:53.9 | 149.8 | 41.9 | | | | | |
| STU | e PKPbc | Z | 05:30:55.8 | 150.5 | 34.8 | | | | | |
| WLF | e PKPbc | Z | 05:30:57.0 | 150.7 | 28.7 | | | | | |
| BFO | e PKPbc | Z | 05:30:57.0 | 151.1 | 33.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/09 | 05:38:22.3 | 10.700N | 91.330E | 30.5 | 5.2 | 4.9 | | SZGRF |

Andaman Islands, India, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 05:49:55.4 | 73.8 | 92.9 | 0.8 | 17 | 5.1 | | |
| | e pP | Z | 05:50:04.2 | | | | | | | |
| GEC2 | e P | Z | 05:49:55.8 | 73.8 | 92.2 | 0.8 | 14 | 5.0 | | |
| RUE | e P | Z | 05:49:56.3 | 74.0 | 93.3 | 1.3 | 72 | 5.5 | | |
| | e pP | Z | 05:50:04.9 | | | | | | | |

| | | | | | | | | | |
|------|------|---|------------|------|------|------|-----|-----|-----|
| FBE | e P | Z | 05:49:57.8 | 74.1 | 92.5 | 0.7 | 37 | 5.5 | |
| | e pP | Z | 05:50:06.7 | | | | | | |
| CLL | e P | Z | 05:49:58.4 | 74.4 | 92.3 | 0.8 | 12 | 5.0 | |
| | e pP | Z | 05:50:07.3 | | | | | | |
| WET | e P | Z | 05:49:59.0 | 74.4 | 91.6 | 0.7 | 11 | 5.0 | |
| | e pP | Z | 05:50:07.8 | | | | | | |
| RJOB | e P | Z | 05:49:58.3 | 74.4 | 91.2 | 1.2 | 11 | 4.8 | |
| TANN | e P | Z | 05:50:00.7 | 74.7 | 91.7 | 1.3 | 11 | 4.7 | |
| | e pP | Z | 05:50:09.5 | | | | | | |
| WERN | e P | Z | 05:50:01.1 | 74.7 | 91.6 | 0.8 | 9 | 4.9 | |
| | e pP | Z | 05:50:09.7 | | | | | | |
| GUNZ | e P | Z | 05:50:01.2 | 74.8 | 91.5 | 0.7 | 11 | 5.0 | |
| | e pP | Z | 05:50:09.9 | | | | | | |
| WERD | e P | Z | 05:50:01.2 | 74.8 | 91.5 | 0.7 | 12 | 5.0 | |
| | e pP | Z | 05:50:09.9 | | | | | | |
| ROTZ | e P | Z | 05:50:02.1 | 74.8 | 91.3 | 1.1 | 23 | 5.1 | |
| | e pP | Z | 05:50:10.8 | | | | | | |
| PLN | e P | Z | 05:50:01.7 | 74.9 | 91.4 | 0.8 | 52 | 5.6 | |
| | e pP | Z | 05:50:10.5 | | | | | | |
| MANZ | e P | Z | 05:50:02.4 | 74.9 | 91.3 | 1.6 | 59 | 5.4 | |
| | e pP | Z | 05:50:11.2 | | | | | | |
| NEUB | e P | Z | 05:50:03.1 | 75.1 | 91.3 | 0.9 | 16 | 5.0 | |
| | e pP | Z | 05:50:11.8 | | | | | | |
| MOX | e P | Z | 05:50:03.8 | 75.2 | 91.1 | 0.7 | 12 | 5.0 | |
| GRA1 | e P | Z | 05:50:05.6 | 75.5 | 90.5 | 1.2 | 34 | 5.3 | |
| | e L | Z | 06:40:59.7 | | | 19.8 | 672 | | 4.9 |
| CLZ | e P | Z | 05:50:08.4 | 76.0 | 90.4 | 0.7 | 24 | 5.4 | |
| BSEG | e P | Z | 05:50:08.7 | 76.1 | 90.9 | 1.0 | 58 | 5.7 | |
| | e pP | Z | 05:50:17.6 | | | | | | |
| NRDL | e P | Z | 05:50:09.3 | 76.2 | 90.3 | 1.2 | 23 | 5.2 | |
| UBBA | e P | Z | 05:50:09.5 | 76.3 | 89.9 | 0.6 | 4 | 4.7 | |
| TNS | e P | Z | 05:50:15.2 | 77.3 | 88.5 | 0.8 | 16 | 5.2 | |
| BFO | e P | Z | 05:50:15.6 | 77.4 | 88.0 | 1.0 | 14 | 5.1 | |
| IBBN | e P | Z | 05:50:17.5 | 77.6 | 88.4 | 1.2 | 42 | 5.4 | |
| BUG | e P | Z | 05:50:19.2 | 78.0 | 87.9 | 1.6 | 44 | 5.3 | |

Date 2009/06/09
 Origin Time 10:38: 2.0
 Central Italy

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|-----|
| DAVA | e Pn | Z | 10:39:02.7 | 3.8 | 173.4 | | | | | 3.9 |
| | e Sn | E | 10:39:48.2 | | | | | | | |
| WTTA | e Pn | Z | 10:39:02.7 | 3.9 | 192.4 | | | | | 3.8 |
| | e Sn | E | 10:39:48.3 | | | | | | | |
| OBER | e Pn | Z | 10:39:03.0 | 3.9 | 178.0 | | | | | |
| | e Sn | E | 10:39:50.4 | | | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

26

| | | | | | | | | | | | | |
|------|------|---|------------|-----|-------|--|--|--|--|--|--|-----|
| KBA | e Pn | Z | 10:39:05.3 | 4.1 | 210.2 | | | | | | | 3.4 |
| | e Sn | E | 10:39:51.8 | | | | | | | | | |
| OBKA | e Sn | N | 10:39:54.9 | 4.2 | 224.9 | | | | | | | 3.6 |
| RJOB | e Pn | Z | 10:39:11.3 | 4.6 | 201.6 | | | | | | | 3.5 |
| | e Sn | N | 10:40:02.6 | | | | | | | | | |
| BFO | e Pn | Z | 10:39:17.3 | 5.1 | 162.0 | | | | | | | 3.7 |
| | e Sn | N | 10:40:09.7 | | | | | | | | | |
| MOA | e Sn | E | 10:40:12.8 | 5.1 | 212.5 | | | | | | | |
| GEC2 | e Pn | Z | 10:39:26.6 | 5.8 | 203.7 | | | | | | | 3.4 |
| | e Sn | E | 10:40:30.5 | | | | | | | | | |
| WET | e Pn | Z | 10:39:27.1 | 5.9 | 197.1 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/09 | 17:51:12.8 | 21.476S | 178.091W | 33.0G | | | | SZGRF |
| Fiji Islands region | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| CLL | e PKPbc | Z | 18:10:56.7 | 148.9 | 20.3 | | | | | |
| BRG | e PKPbc | Z | 18:10:57.5 | 149.1 | 22.2 | | | | | |
| FBE | e PKPbc | Z | 18:10:58.0 | 149.2 | 21.2 | | | | | |
| PLN | e PKPbc | Z | 18:10:59.4 | 149.9 | 19.3 | | | | | |
| TANN | e PKPbc | Z | 18:10:59.3 | 149.9 | 19.9 | | | | | |
| WERD | e PKPbc | Z | 18:10:59.5 | 149.9 | 19.6 | | | | | |
| GUNZ | e PKPbc | Z | 18:10:59.7 | 150.0 | 19.7 | | | | | |
| MANZ | e PKPbc | Z | 18:11:00.7 | 150.4 | 19.5 | | | | | |
| ROTZ | e PKPbc | Z | 18:11:01.1 | 150.6 | 19.8 | | | | | |
| TNS | e PKPbc | Z | 18:11:01.7 | 150.8 | 12.5 | | | | | |
| GEC2 | e PKPbc | Z | 18:11:02.2 | 151.1 | 23.1 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|----------------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/09 | 22:42:39.8 | 55.100S | 126.500W | 10.0G | | | | NEIC |
| Southern East Pacific Rise | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|-------|------|-------|----|----|----|
| GRA1 | e PKPbc | Z | 23:02:41.1 | 154.1 | 241.6 | | | | | |
| | e PP | Z | 23:06:28.0 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------------------------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/10 | 15:54:58.8 | 46.658N | 148.459E | 33.0G | 5.1 | 3.7 | | SZGRF |
| Northwest of Kuril Islands, Russia | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|---|------------|------|------|------|-------|-----|----|----|
| CLL | e P | Z | 16:06:35.7 | 74.8 | 29.9 | 0.5 | 29 | 5.6 | | |

| | | | | | | | | | |
|------|-----|---|------------|------|------|------|----|-----|-----|
| CLZ | e P | Z | 16:06:38.4 | 75.1 | 28.3 | 0.9 | 9 | 4.8 | |
| NEUB | e P | Z | 16:06:38.4 | 75.3 | 29.1 | 0.6 | 10 | 5.1 | |
| IBBN | e P | Z | 16:06:40.6 | 75.5 | 26.7 | 0.9 | 13 | 5.1 | |
| WERD | e P | Z | 16:06:41.4 | 75.8 | 29.4 | 1.5 | 10 | 4.8 | |
| PLN | e P | Z | 16:06:41.5 | 75.8 | 29.3 | 0.6 | 15 | 5.3 | |
| MOX | e P | Z | 16:06:41.5 | 75.8 | 29.0 | 0.6 | 7 | 5.0 | |
| GUNZ | e P | Z | 16:06:41.9 | 75.9 | 29.4 | 0.6 | 9 | 5.0 | |
| WERN | e P | Z | 16:06:42.3 | 75.9 | 29.4 | 0.4 | 10 | 5.3 | |
| MANZ | e P | Z | 16:06:44.0 | 76.2 | 29.2 | 0.6 | 5 | 4.8 | |
| BUG | e P | Z | 16:06:44.7 | 76.4 | 26.3 | | | | |
| GEC2 | e P | Z | 16:06:46.5 | 76.7 | 30.0 | 0.4 | 9 | 5.3 | |
| WET | e P | Z | 16:06:47.0 | 76.7 | 29.6 | 0.5 | 6 | 5.0 | |
| GRA1 | e P | Z | 16:06:47.6 | 76.8 | 28.6 | 0.8 | 16 | 5.2 | |
| | e L | Z | 16:42:05.9 | | | 20.8 | 40 | | 3.7 |
| RJOB | e P | Z | 16:06:55.0 | 78.0 | 29.4 | 0.9 | 7 | 4.8 | |
| BFO | e P | Z | 16:06:58.0 | 78.9 | 26.6 | 1.9 | 26 | 5.0 | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/10 18:52: 7.8 56.433N 110.628E 23.7 4.9 4.5
 Lake Baykal, Russia, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z 19:01:20.5 | 52.7 | 43.6 | 0.8 | 10 | 4.8 | | |
| CLL | e P | Z 19:01:20.8 | 52.8 | 43.5 | 1.4 | 16 | 4.8 | | |
| | e sP | Z 19:01:30.3 | | | | | | | |
| NRDL | e P | Z 19:01:23.9 | 53.2 | 42.8 | 1.1 | 12 | 4.7 | | |
| NEUB | e P | Z 19:01:25.4 | 53.4 | 42.9 | 1.1 | 14 | 4.9 | | |
| | e sP | Z 19:01:35.0 | | | | | | | |
| CLZ | e P | Z 19:01:26.9 | 53.5 | 42.6 | 1.5 | 21 | 4.9 | | |
| | e sP | Z 19:01:36.4 | | | | | | | |
| TANN | e P | Z 19:01:27.8 | 53.7 | 42.8 | 1.1 | 8 | 4.7 | | |
| | e pP | Z 19:01:34.0 | | | | | | | |
| | e sP | Z 19:01:37.4 | | | | | | | |
| WERD | e P | Z 19:01:28.1 | 53.7 | 42.7 | 1.1 | 9 | 4.7 | | |
| | e pP | Z 19:01:34.2 | | | | | | | |
| | e sP | Z 19:01:37.7 | | | | | | | |
| PLN | e P | Z 19:01:28.4 | 53.8 | 42.7 | 0.9 | 62 | 5.7 | | |
| | e pP | Z 19:01:34.7 | | | | | | | |
| | e sP | Z 19:01:38.1 | | | | | | | |
| GUNZ | e P | Z 19:01:28.5 | 53.8 | 42.7 | 1.3 | 11 | 4.7 | | |
| | e pP | Z 19:01:34.8 | | | | | | | |
| | e sP | Z 19:01:38.2 | | | | | | | |
| WERN | e P | Z 19:01:28.7 | 53.8 | 42.7 | 1.0 | 14 | 5.0 | | |
| | e pP | Z 19:01:35.2 | | | | | | | |
| | e sP | Z 19:01:38.4 | | | | | | | |
| MOX | e P | Z 19:01:29.3 | 53.9 | 42.5 | 1.1 | 18 | 5.0 | | |
| | e pP | Z 19:01:35.5 | | | | | | | |

| | | | | | | | | | | | |
|------|------|---|------------|------|------|------|--|-----|-----|-----|--|
| | e sP | Z | 19:01:38.9 | | | | | | | | |
| MANZ | e P | Z | 19:01:31.0 | 54.2 | 42.4 | 1.7 | | 18 | 4.8 | | |
| | e pP | Z | 19:01:37.4 | | | | | | | | |
| | e sP | Z | 19:01:40.4 | | | | | | | | |
| IBBN | e P | Z | 19:01:31.8 | 54.3 | 41.6 | 0.8 | | 13 | 5.0 | | |
| | e pP | Z | 19:01:38.1 | | | | | | | | |
| | e sP | Z | 19:01:41.2 | | | | | | | | |
| ROTZ | e P | Z | 19:01:32.4 | 54.3 | 42.4 | 0.9 | | 10 | 4.8 | | |
| | e sP | Z | 19:01:41.8 | | | | | | | | |
| GEC2 | e P | Z | 19:01:32.1 | 54.3 | 42.5 | 1.1 | | 10 | 4.8 | | |
| | e sP | Z | 19:01:41.6 | | | | | | | | |
| UBBA | e P | Z | 19:01:33.0 | 54.4 | 41.9 | 1.3 | | 12 | 4.7 | | |
| WET | e P | Z | 19:01:33.5 | 54.4 | 42.3 | 0.9 | | 12 | 4.9 | | |
| | e pP | Z | 19:01:39.8 | | | | | | | | |
| | e sP | Z | 19:01:43.1 | | | | | | | | |
| GRA1 | e P | Z | 19:01:35.8 | 54.8 | 41.9 | 1.0 | | 11 | 4.8 | | |
| | e L | Z | 19:27:38.5 | | | 18.4 | | 400 | | 4.5 | |
| BUG | e P | Z | 19:01:38.0 | 55.1 | 41.0 | 1.0 | | 17 | 5.0 | | |
| | e pP | Z | 19:01:44.4 | | | | | | | | |
| RJOB | e P | Z | 19:01:41.2 | 55.5 | 41.6 | 1.0 | | 7 | 4.6 | | |
| TNS | e P | Z | 19:01:41.1 | 55.5 | 41.0 | 1.1 | | 8 | 4.7 | | |
| | e pP | Z | 19:01:47.4 | | | | | | | | |
| FUR | e P | Z | 19:01:43.8 | 55.9 | 41.2 | 1.1 | | 25 | 5.2 | | |
| WLF | e P | Z | 19:01:50.9 | 56.9 | 39.7 | 1.1 | | 12 | 4.8 | | |
| BFO | e P | Z | 19:01:51.3 | 57.0 | 40.1 | 1.1 | | 12 | 4.8 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/10

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e PKP Z 23:28:06.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/10 23:13:22.2 41.600S 83.800W 10.0 NEIC
 West Chile Rise

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e PKPdf Z 23:32:18.3 123.3 243.0
 e pPKPdf Z 23:32:22.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/11 01:35: 4.2 53.285N 158.688E 33.0G 5.9 3.7 SZGRF
 Near east coast of Kamchatka Peninsula, Russia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|-----|----|
| RGN | e P | Z | 01:46:03.7 | 68.4 | 21.4 | 0.9 | 411 | 6.6 | | |
| BSEG | e P | Z | 01:46:10.8 | 69.6 | 19.5 | 1.1 | 260 | 6.3 | | |
| RUE | e P | Z | 01:46:14.5 | 70.3 | 21.4 | 1.0 | 273 | 6.3 | | |
| NRDL | e P | Z | 01:46:18.8 | 71.0 | 19.2 | 1.0 | 94 | 5.9 | | |
| CLL | e P | Z | 01:46:21.7 | 71.5 | 20.8 | 1.0 | 190 | 6.2 | | |
| CLZ | e P | Z | 01:46:22.9 | 71.6 | 19.3 | 1.1 | 245 | 6.3 | | |
| IBBN | e P | Z | 01:46:22.8 | 71.6 | 17.8 | 1.1 | 180 | 6.1 | | |
| BRG | e P | Z | 01:46:22.9 | 71.7 | 21.3 | 1.3 | 88 | 5.7 | | |
| NEUB | e P | Z | 01:46:24.0 | 71.9 | 20.1 | 1.6 | 225 | 6.1 | | |
| MOX | e P | Z | 01:46:27.5 | 72.4 | 19.9 | 1.1 | 102 | 5.9 | | |
| TANN | e P | Z | 01:46:27.7 | 72.5 | 20.4 | 1.6 | 106 | 5.7 | | |
| PLN | e P | Z | 01:46:27.7 | 72.5 | 20.2 | 1.1 | 355 | 6.4 | | |
| WERD | e P | Z | 01:46:27.7 | 72.5 | 20.3 | 1.1 | 91 | 5.8 | | |
| GUNZ | e P | Z | 01:46:28.2 | 72.6 | 20.3 | 1.0 | 70 | 5.7 | | |
| BUG | e P | Z | 01:46:28.0 | 72.6 | 17.4 | 1.1 | 121 | 6.0 | | |
| WERN | e P | Z | 01:46:28.6 | 72.6 | 20.3 | 0.8 | 87 | 5.9 | | |
| UBBA | e P | Z | 01:46:28.6 | 72.6 | 19.0 | 1.6 | 128 | 5.8 | | |
| MANZ | e P | Z | 01:46:30.4 | 73.0 | 20.1 | 1.1 | 57 | 5.6 | | |
| ROTZ | e P | Z | 01:46:31.9 | 73.1 | 20.2 | 1.0 | 74 | 5.8 | | |
| GRA1 | e P | Z | 01:46:33.6 | 73.4 | 19.6 | 1.0 | 159 | 6.0 | | |
| | e L | Z | 02:27:39.3 | | | 21.5 | 48 | | 3.7 | |
| TNS | e P | Z | 01:46:33.7 | 73.5 | 18.0 | 0.9 | 74 | 5.7 | | |
| WET | e P | Z | 01:46:34.4 | 73.6 | 20.5 | 1.1 | 113 | 5.8 | | |
| GEC2 | e P | Z | 01:46:34.5 | 73.7 | 20.9 | 1.2 | 74 | 5.6 | | |
| STU | e P | Z | 01:46:40.6 | 74.7 | 18.3 | 1.3 | 103 | 5.7 | | |
| FUR | e P | Z | 01:46:41.5 | 74.9 | 19.5 | 1.1 | 111 | 5.8 | | |
| RJOB | e P | Z | 01:46:42.2 | 74.9 | 20.3 | 0.9 | 52 | 5.6 | | |
| BFO | e P | Z | 01:46:44.0 | 75.3 | 17.8 | 1.0 | 58 | 5.6 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/11 02:50:17.6 35.500N 141.100E 37.0G 5.0
 Near east coast of eastern Honshu, Japan

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z | 03:02:45.6 | 84.0 | 38.9 | 1.4 | 13 | 5.0 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/11 17:59:24.2 42.390N 83.821E 33.0N 4.6
 Northern Xinjiang, China

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z | 18:08:07.5 | 48.9 | 69.2 | 1.0 | 7 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-------------------------------|-------------|---------|---------|-------|----|----|----|--------|
| 2009/06/12 | 00:05:42.0 | 43.014N | 17.471E | 10.0G | | | | SZGRF |
| Northwestern Balkan Peninsula | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| GEC2 | e Pn | Z 00:07:13.9 | 6.4 | 154.4 | | | | | |
| | e Sn | N 00:08:21.8 | | | | | | | |
| WET | e Pn | Z 00:07:21.3 | 6.9 | 150.9 | | | | | |
| | e Sn | N 00:08:32.6 | | | | | | | |
| BFO | e Pn | Z 00:07:40.1 | 8.3 | 126.4 | | | | | |
| | e Sn | N 00:09:06.0 | | | | | | | |
| MOX | e Pn | Z 00:07:44.1 | 8.6 | 150.1 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/12 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 09:07:10.0 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/12 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPbc | Z 09:44:09.9 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/12 | 09:44:20.4 | 17.600S | 167.700E | 53.0G | | | | NEIC |
| Vanuatu Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|------|------|-------|----|----|----|
| BSEG | e PP | Z 10:06:37.9 | 139.7 | 34.5 | | | | | |
| BRG | e PP | Z 10:06:44.3 | 140.7 | 41.7 | | | | | |
| CLL | e PP | Z 10:06:41.6 | 140.8 | 40.1 | | | | | |
| NRDL | e PP | Z 10:06:45.6 | 140.9 | 35.2 | | | | | |
| CLZ | e PP | Z 10:06:48.2 | 141.4 | 36.1 | | | | | |
| TANN | e PP | Z 10:06:50.1 | 141.7 | 40.1 | | | | | |
| WERD | e | 10:03:41.2 | 141.7 | 39.8 | | | | | |
| PLN | e | 10:03:41.2 | 141.8 | 39.6 | | | | | |
| GUNZ | e | 10:03:41.6 | 141.8 | 39.9 | | | | | |
| WERN | e | 10:03:41.7 | 141.8 | 40.1 | | | | | |
| MOX | e | 10:03:41.7 | 141.8 | 38.7 | | | | | |

| | | | | | |
|------|-------|---|------------|-------|------|
| | e PP | Z | 10:06:51.1 | | |
| | e SS | T | 10:25:20.6 | | |
| IBBN | e PP | Z | 10:06:51.3 | 141.9 | 32.0 |
| MANZ | e | | 10:03:42.7 | 142.2 | 39.9 |
| ROTZ | e | | 10:03:43.4 | 142.3 | 40.3 |
| | e PP | Z | 10:06:53.8 | | |
| GEC2 | e | | 10:03:43.5 | 142.3 | 43.1 |
| | e PP | Z | 10:06:53.0 | | |
| | e SS | T | 10:25:26.2 | | |
| UBBA | e | | 10:03:43.6 | 142.3 | 36.3 |
| | e SS | T | 10:25:26.3 | | |
| WET | e | | 10:03:44.0 | 142.5 | 41.7 |
| | e PP | Z | 10:06:54.9 | | |
| | e SS | T | 10:25:27.8 | | |
| GRA1 | e | | 10:03:45.2 | 142.7 | 38.9 |
| | e PP | Z | 10:06:56.4 | | |
| | e SS | T | 10:25:31.1 | | |
| BUG | e SS | T | 10:25:31.4 | 142.8 | 31.9 |
| TNS | e PKP | Z | 10:03:47.3 | 143.4 | 34.5 |
| | e SS | T | 10:25:38.5 | | |
| RJOB | e PKP | Z | 10:03:47.6 | 143.5 | 42.9 |
| | e SS | T | 10:25:40.3 | | |
| FUR | e PKP | Z | 10:03:49.2 | 143.9 | 40.3 |
| | e SS | T | 10:25:50.5 | | |
| STU | e PKP | Z | 10:03:49.9 | 144.3 | 36.7 |
| | e SS | T | 10:25:54.0 | | |
| WLF | e PKP | Z | 10:03:50.9 | 144.7 | 31.4 |
| | e SS | T | 10:25:53.1 | | |
| BFO | e PKP | Z | 10:03:51.7 | 145.0 | 35.8 |
| | e SS | T | 10:25:56.7 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/12 14:32:56.0 17.500S 167.800E 31.0G 4.6
 Vanuatu Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|-----|----|
| BRG | e PKiKP | Z | 14:52:25.4 | 140.7 | 41.5 | | | | | |
| CLL | e PKiKP | Z | 14:52:25.3 | 140.7 | 39.9 | | | | | |
| FBE | e PKiKP | Z | 14:52:25.9 | 140.9 | 40.7 | | | | | |
| NEUB | e PKiKP | Z | 14:52:26.1 | 141.3 | 38.3 | | | | | |
| CLZ | e PKiKP | Z | 14:52:26.7 | 141.3 | 35.8 | | | | | |
| TANN | e PKiKP | Z | 14:52:26.7 | 141.6 | 39.9 | | | | | |
| WERD | e PKiKP | Z | 14:52:26.8 | 141.7 | 39.6 | | | | | |
| PLN | e PKiKP | Z | 14:52:27.1 | 141.7 | 39.4 | | | | | |
| WERN | e PKiKP | Z | 14:52:27.6 | 141.8 | 39.9 | | | | | |
| MOX | e PKiKP | Z | 14:52:27.7 | 141.8 | 38.5 | | | | | |
| | e L | Z | 15:58:12.3 | | | 19.1 | 112 | | 4.6 | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

32

| | | | | | | | | | |
|------|---------|---|------------|-------|------|------|-----|-----|--|
| IBBN | e PKiKP | Z | 14:52:27.7 | 141.8 | 31.8 | | | | |
| MANZ | e PKiKP | Z | 14:52:28.3 | 142.1 | 39.7 | | | | |
| ROTZ | e | | 14:52:21.3 | 142.2 | 40.1 | | | | |
| | e PKiKP | Z | 14:52:28.4 | | | | | | |
| UBBA | e | | 14:52:21.5 | 142.3 | 36.1 | | | | |
| | e PKiKP | Z | 14:52:28.7 | | | | | | |
| GEC2 | e | | 14:52:21.6 | 142.3 | 42.9 | | | | |
| | e PKiKP | Z | 14:52:28.5 | | | | | | |
| WET | e | | 14:52:21.9 | 142.4 | 41.5 | | | | |
| | e PKiKP | Z | 14:52:29.1 | | | | | | |
| GRA1 | e PKiKP | Z | 14:52:29.8 | 142.7 | 38.7 | | | | |
| | e L | Z | 15:58:31.1 | | | 20.2 | 150 | 4.7 | |
| TNS | e | | 14:52:24.9 | 143.3 | 34.3 | | | | |
| RJOB | e | | 14:52:25.5 | 143.5 | 42.7 | | | | |
| FUR | e | | 14:52:26.8 | 143.9 | 40.1 | | | | |
| STU | e | | 14:52:27.7 | 144.2 | 36.5 | | | | |
| WLF | e PKP | Z | 14:52:29.4 | 144.6 | 31.2 | | | | |
| BFO | e PKP | Z | 14:52:29.8 | 144.9 | 35.6 | | | | |

| | | | | | | | | |
|------------|-------------|--------|----------|--------|----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2009/06/12 | 20:46:55.3 | 5.300S | 128.000E | 341.0G | | | | NEIC |
| Banda Sea | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BRG | e | | 21:07:46.7 | 109.1 | 74.2 | | | | | |
| CLL | e | | 21:07:47.7 | 109.6 | 73.3 | | | | | |
| GEC2 | e PKiKP | Z | 21:04:45.8 | 109.8 | 74.7 | | | | | |
| | e | | 21:07:47.8 | | | | | | | |
| TANN | e | | 21:07:48.6 | 110.2 | 73.2 | | | | | |
| WET | e | | 21:07:48.6 | 110.3 | 74.0 | | | | | |
| BSEG | e | | 21:07:49.8 | 110.3 | 70.1 | | | | | |
| MOX | e | | 21:07:49.1 | 110.6 | 72.4 | | | | | |
| NRDL | e | | 21:07:50.1 | 110.9 | 70.4 | | | | | |
| CLZ | e PKiKP | Z | 21:04:48.3 | 111.0 | 70.9 | | | | | |
| | e | | 21:07:50.2 | | | | | | | |
| GRA1 | e PKiKP | Z | 21:04:47.8 | 111.1 | 72.4 | | | | | |
| FUR | e PKiKP | Z | 21:04:49.0 | 111.6 | 73.0 | | | | | |
| | e | | 21:07:51.0 | | | | | | | |
| IBBN | e | | 21:07:52.7 | 112.3 | 68.4 | | | | | |
| TNS | e | | 21:07:53.3 | 112.7 | 69.8 | | | | | |
| STU | e PKiKP | Z | 21:04:50.2 | 112.7 | 71.0 | | | | | |
| | e | | 21:07:53.3 | | | | | | | |
| BUG | e | | 21:07:54.1 | 112.9 | 68.3 | | | | | |
| BFO | e PKiKP | Z | 21:04:52.1 | 113.4 | 70.5 | | | | | |
| | e | | 21:07:54.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/13 | 16:12:35.1 | 18.854N | 66.179W | 33.0N | 5.0 | | | SZGRF |

Puerto Rico region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| BUG | e P | Z | 16:23:12.8 | 65.1 | 269.4 | 0.8 | 8 | 5.0 | | |
| IBBN | e P | Z | 16:23:14.8 | 65.4 | 269.4 | 1.4 | 27 | 5.3 | | |
| BFO | e P | Z | 16:23:17.2 | 65.8 | 271.6 | 2.2 | 16 | 4.9 | | |
| TNS | e P | Z | 16:23:18.0 | 65.9 | 270.9 | 1.2 | 8 | 4.8 | | |
| BSEG | e P | Z | 16:23:24.8 | 67.0 | 270.7 | 1.2 | 19 | | | |
| CLZ | e P | Z | 16:23:25.4 | 67.0 | 271.7 | 1.1 | 12 | 5.1 | | |
| GRA1 | e P | Z | 16:23:29.4 | 67.7 | 273.2 | 1.3 | 10 | 4.9 | | |
| MOX | e P | Z | 16:23:30.6 | 67.9 | 273.1 | 2.5 | 25 | 5.0 | | |
| NEUB | e P | Z | 16:23:31.0 | 67.9 | 273.0 | 0.9 | 14 | 5.2 | | |
| PLN | e P | Z | 16:23:32.7 | 68.2 | 273.6 | 1.3 | 41 | 5.5 | | |
| MANZ | e P | Z | 16:23:32.7 | 68.2 | 273.7 | 1.0 | 15 | 5.2 | | |
| ROTZ | e P | Z | 16:23:33.6 | 68.3 | 273.9 | 1.1 | 9 | 4.9 | | |
| WERD | e P | Z | 16:23:33.2 | 68.3 | 273.7 | 1.1 | 5 | 4.7 | | |
| TANN | e P | Z | 16:23:34.0 | 68.4 | 273.8 | 1.1 | 7 | 4.8 | | |
| CLL | e P | Z | 16:23:35.6 | 68.7 | 273.9 | 1.0 | 8 | 4.9 | | |
| WET | e P | Z | 16:23:36.3 | 68.8 | 274.6 | 0.9 | 6 | 4.9 | | |
| FBE | e P | Z | 16:23:37.5 | 68.9 | 274.3 | 1.0 | 16 | 5.2 | | |
| BRG | e P | Z | 16:23:39.6 | 69.3 | 274.8 | 1.0 | 11 | 5.0 | | |
| GEC2 | e P | Z | 16:23:39.8 | 69.3 | 275.4 | 1.1 | 5 | 4.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|-----|----|--------|
| 2009/06/13 | 16:48:48.7 | 73.251N | 4.792E | 10.0G | 4.3 | 3.8 | | SZGRF |

Greenland Sea

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| BSEG | e | | 16:54:05.6 | 19.5 | 355.2 | | | | | |
| NRDL | e P | Z | 16:53:33.4 | 20.9 | 355.7 | 2.7 | 93 | 4.6 | | |
| IBBN | e P | Z | 16:53:35.8 | 21.0 | 357.6 | 1.1 | 14 | 4.2 | | |
| | e | | 16:54:20.3 | | | | | | | |
| CLZ | e P | Z | 16:53:41.0 | 21.5 | 355.6 | 1.2 | 17 | 4.3 | | |
| | e | | 16:54:25.7 | | | | | | | |
| BUG | e | | 16:54:28.7 | 21.8 | 358.1 | | | | | |
| CLL | e P | Z | 16:53:49.5 | 22.2 | 353.8 | 1.8 | 14 | 4.1 | | |
| | e | | 16:54:33.6 | | | | | | | |
| UBBA | e P | Z | 16:53:50.9 | 22.5 | 356.1 | 2.4 | 45 | 4.6 | | |
| | e | | 16:54:36.3 | | | | | | | |
| BRG | e | | 16:54:37.9 | 22.7 | 353.2 | | | | | |
| MOX | e P | Z | 16:53:53.2 | 22.8 | 354.9 | 1.5 | 14 | 4.3 | | |
| | e | | 16:54:39.2 | | | | | | | |
| | e L | Z | 17:02:31.2 | | | 20.3 | 200 | | 3.6 | |
| ROTZ | e P | Z | 16:54:01.9 | 23.7 | 354.7 | 1.4 | 7 | 4.0 | | |

| | | | | | | | | | | |
|------|-----|---|------------|------|-------|------|-----|-----|-----|--|
| | e | | 16:54:49.2 | | | | | | | |
| GRA1 | e L | Z | 17:03:10.4 | 23.7 | 355.4 | 19.1 | 403 | | 3.9 | |
| WET | e P | Z | 16:54:09.0 | 24.4 | 354.4 | 1.6 | 11 | 4.1 | | |
| | e | | 16:54:56.2 | | | | | | | |
| GEC2 | e P | Z | 16:54:11.5 | 24.7 | 353.9 | 2.2 | 24 | 4.5 | | |
| | e | | 16:54:59.5 | | | | | | | |
| BFO | e P | Z | 16:54:13.6 | 25.0 | 357.6 | 2.8 | 50 | 4.8 | | |
| | e | | 16:55:01.6 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|----|----|--------|
| 2009/06/13 | 17:18:33.2 | 72.480N | 2.198E | 10.0G | 4.4 | | | SZGRF |

Norwegian Sea

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| BSEG | e P | Z 17:22:54.3 | 18.9 | 352.4 | 1.1 | 19 | 4.2 | | |
| IBBN | e P | Z 17:23:09.6 | 20.3 | 355.2 | 0.8 | 9 | 4.0 | | |
| CLZ | e P | Z 17:23:16.6 | 20.9 | 353.1 | 1.2 | 24 | 4.4 | | |
| BUG | e P | Z 17:23:18.5 | 21.2 | 355.8 | 1.0 | 17 | 4.3 | | |
| NEUB | e P | Z 17:23:23.4 | 21.7 | 352.2 | 1.1 | 21 | 4.5 | | |
| FBE | e P | Z 17:23:29.2 | 22.1 | 351.1 | 1.7 | 38 | 4.6 | | |
| BRG | e P | Z 17:23:29.9 | 22.2 | 350.7 | 1.8 | 20 | 4.2 | | |
| MOX | e P | Z 17:23:31.0 | 22.2 | 352.5 | 1.4 | 23 | 4.4 | | |
| PLN | e P | Z 17:23:32.8 | 22.4 | 352.2 | 2.0 | 172 | 5.2 | | |
| WERD | e P | Z 17:23:33.6 | 22.5 | 352.1 | 1.1 | 10 | 4.3 | | |
| TANN | e P | Z 17:23:34.5 | 22.5 | 352.0 | 1.2 | 14 | 4.3 | | |
| WERN | e P | Z 17:23:35.0 | 22.6 | 352.1 | 1.2 | 16 | 4.4 | | |
| GRA1 | e P | Z 17:23:39.7 | 23.1 | 353.1 | 1.2 | 11 | 4.3 | | |
| ROTZ | e P | Z 17:23:39.2 | 23.1 | 352.4 | 1.0 | 6 | 4.1 | | |
| WET | e P | Z 17:23:46.9 | 23.8 | 352.1 | 2.2 | 36 | 4.5 | | |
| GEC2 | e P | Z 17:23:49.7 | 24.2 | 351.6 | 1.4 | 9 | 4.1 | | |
| BFO | e P | Z 17:23:48.3 | 24.3 | 355.5 | 1.2 | 9 | 4.2 | | |
| RJOB | e P | Z 17:23:59.1 | 25.2 | 352.5 | 0.7 | 4 | 4.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/13 | 17:17:34.1 | 43.817N | 79.464E | 12.8 | 5.8 | | | SZGRF |

Lake Issyk-Kul, Kyrgyzstan, region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-----|-------|--------------|------|------|------|-------|-----|----|----|
| RGN | e P | Z 17:25:30.8 | 42.8 | 76.1 | 0.9 | 359 | 6.1 | | |
| RUE | e P | Z 17:25:32.5 | 43.1 | 74.2 | 1.4 | 180 | 5.6 | | |
| | e pP | Z 17:25:35.8 | | | 1.4 | 180 | | | |
| BRG | e P | Z 17:25:35.9 | 43.5 | 72.7 | 1.5 | 155 | 5.5 | | |
| | e pP | Z 17:25:39.3 | | | 1.5 | 139 | | | |
| FBE | e P | Z 17:25:38.9 | 43.8 | 72.4 | 1.2 | 185 | 5.7 | | |
| | e pP | Z 17:25:42.2 | | | 1.2 | 185 | | | |

| | | | | | | | | |
|------|-------|---|------------|------|------|-----|-----|-----|
| CLL | e P | Z | 17:25:39.1 | 43.9 | 72.6 | 1.1 | 200 | 5.8 |
| GEC2 | e P | Z | 17:25:42.7 | 44.3 | 70.5 | 2.1 | 185 | 5.5 |
| | e pP | Z | 17:25:46.0 | | | 1.4 | 77 | |
| TANN | e P | Z | 17:25:44.5 | 44.5 | 71.4 | 1.1 | 106 | 5.7 |
| | e pP | Z | 17:25:47.7 | | | 1.1 | 106 | |
| WERD | e P | Z | 17:25:45.0 | 44.6 | 71.3 | 1.1 | 88 | 5.6 |
| | e pP | Z | 17:25:48.3 | | | 1.1 | 88 | |
| WERN | e P | Z | 17:25:45.3 | 44.6 | 71.2 | 1.0 | 71 | 5.5 |
| | e pP | Z | 17:25:48.7 | | | 1.0 | 71 | |
| GUNZ | e P | Z | 17:25:45.3 | 44.6 | 71.2 | 1.1 | 125 | 5.8 |
| NEUB | e P | Z | 17:25:45.3 | 44.7 | 71.7 | 1.1 | 199 | 6.0 |
| | e pP | Z | 17:25:48.9 | | | 1.1 | 199 | |
| PLN | e P | Z | 17:25:45.6 | 44.7 | 71.3 | 1.3 | 508 | 6.3 |
| WET | e P | Z | 17:25:45.9 | 44.7 | 70.4 | 1.2 | 82 | 5.5 |
| | e pP | Z | 17:25:49.2 | | | 1.2 | 82 | |
| BSEG | e P | Z | 17:25:45.9 | 44.7 | 73.5 | 1.0 | 209 | 6.0 |
| MANZ | e P | Z | 17:25:47.2 | 44.9 | 70.8 | 1.4 | 91 | 5.5 |
| | e pP | Z | 17:25:51.0 | | | 1.4 | 91 | |
| ROTZ | e P | Z | 17:25:47.6 | 44.9 | 70.6 | 1.7 | 152 | 5.6 |
| MOX | e P | Z | 17:25:47.8 | 44.9 | 71.1 | 1.0 | 108 | 5.7 |
| | e pP | Z | 17:25:51.1 | | | 1.0 | 108 | |
| | e S | R | 17:32:19.6 | | | | | |
| RJOB | e P | Z | 17:25:50.4 | 45.2 | 69.0 | | | |
| NRDL | e P | Z | 17:25:50.4 | 45.2 | 72.0 | 1.1 | 198 | 6.0 |
| | e pP | Z | 17:25:53.6 | | | 1.1 | 198 | |
| CLZ | e P | Z | 17:25:50.5 | 45.3 | 71.5 | 1.3 | 86 | 5.5 |
| | e pP | Z | 17:25:54.2 | | | 1.3 | 86 | |
| GRA1 | e P | Z | 17:25:53.0 | 45.5 | 70.0 | 1.0 | 207 | 6.1 |
| | e pP | Z | 17:25:56.7 | | | 1.0 | 207 | |
| | e PP | Z | 17:27:39.4 | | | | | |
| | e S | R | 17:32:29.5 | | | | | |
| UBBA | e P | Z | 17:25:54.9 | 45.8 | 70.4 | | | |
| FUR | e P | Z | 17:25:57.2 | 46.0 | 68.6 | 1.1 | 241 | 6.1 |
| | e PP | Z | 17:27:45.7 | | | | | |
| IBBN | e P | Z | 17:26:01.1 | 46.7 | 70.4 | 1.2 | 147 | 6.0 |
| | e pP | Z | 17:26:04.6 | | | 1.2 | 147 | |
| | e PcP | Z | 17:27:37.5 | | | | | |
| | e PP | Z | 17:27:49.8 | | | | | |
| TNS | e P | Z | 17:26:04.1 | 47.0 | 69.0 | 1.2 | 83 | 5.7 |
| | e pP | Z | 17:26:07.5 | | | 1.2 | 83 | |
| | e PcP | Z | 17:27:38.5 | | | | | |
| STU | e P | Z | 17:26:04.7 | 47.1 | 68.1 | 1.1 | 136 | 6.0 |
| | e PcP | Z | 17:27:38.4 | | | | | |
| | e PP | Z | 17:27:54.9 | | | | | |
| BUG | e P | Z | 17:26:06.0 | 47.2 | 69.3 | 1.2 | 132 | 5.9 |
| | e pP | Z | 17:26:09.2 | | | 1.2 | 132 | |
| | e PP | Z | 17:27:57.0 | | | | | |
| BFO | e P | Z | 17:26:10.1 | 47.8 | 67.3 | 1.0 | 74 | 5.8 |
| | e PcP | Z | 17:27:40.6 | | | | | |

| | | | | | | | | | | | | |
|--|-----|-------|---|------------|------|------|-----|--|-----|-----|--|--|
| | | e PP | Z | 17:28:00.9 | | | | | | | | |
| | WLF | e P | Z | 17:26:16.6 | 48.6 | 67.2 | 1.1 | | 102 | 5.8 | | |
| | | e pP | Z | 17:26:20.2 | | | 1.1 | | 102 | | | |
| | | e PcP | Z | 17:27:44.4 | | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/13 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| AHRW | e P | Z 18:30:16.7 | | | 1.2 | 19 | | | |
| BRG | e P | Z 18:30:16.2 | | | 1.9 | 23 | | | |
| BUG | e P | Z 18:30:06.6 | | | 1.3 | 16 | | | |
| CLL | e P | Z 18:30:07.2 | | | 1.4 | 13 | | | |
| CLZ | e P | Z 18:30:05.4 | | | 1.3 | 18 | | | |
| GEC2 | e P | Z 18:30:35.8 | | | 2.8 | 62 | | | |
| GUNZ | e P | Z 18:30:21.3 | | | | | | | |
| MOX | e P | Z 18:30:17.3 | | | 1.2 | 13 | | | |
| NRDL | e P | Z 18:29:58.0 | | | 1.9 | 37 | | | |
| PLN | e P | Z 18:30:19.5 | | | 1.5 | 89 | | | |
| ROTZ | e P | Z 18:30:26.7 | | | 1.2 | 8 | | | |
| WERD | e P | Z 18:30:19.8 | | | 1.4 | 13 | | | |
| WERN | e P | Z 18:30:22.1 | | | | | | | |
| WLF | e P | Z 18:30:29.4 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/13 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e P | Z 20:24:21.2 | | | 1.6 | 16 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/13 | 22:07:37.6 | 86.900N | 54.300E | 26.0G | 4.5 | | | NEIC |
| North of Franz Josef Land | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|-----|----|----|
| NRDL | e P | Z 22:14:31.8 | 35.3 | 3.7 | 1.5 | 19 | 4.7 | | |
| CLZ | e P | Z 22:14:37.4 | 36.0 | 3.7 | 1.2 | 9 | 4.5 | | |
| CLL | e P | Z 22:14:40.2 | 36.4 | 3.4 | 1.1 | 8 | 4.4 | | |
| BUG | e P | Z 22:14:41.7 | 36.5 | 3.8 | 1.2 | 11 | 4.5 | | |
| | e pP | Z 22:14:49.0 | | | | | | | |
| NEUB | e P | Z 22:14:41.8 | 36.6 | 3.5 | 1.1 | 10 | 4.5 | | |
| FBE | e P | Z 22:14:43.7 | 36.8 | 3.4 | 0.9 | 14 | 4.7 | | |
| | e pP | Z 22:14:51.1 | | | | | | | |

| | | | | | | | | |
|------|------|---|------------|------|-----|-----|----|-----|
| BRG | e P | Z | 22:14:43.9 | 36.8 | 3.4 | 1.2 | 12 | 4.5 |
| MOX | e P | Z | 22:14:47.0 | 37.1 | 3.5 | 1.1 | 14 | 4.6 |
| | e pP | Z | 22:14:54.4 | | | | | |
| PLN | e P | Z | 22:14:48.0 | 37.3 | 3.4 | 1.6 | 91 | 5.2 |
| WERD | e P | Z | 22:14:48.5 | 37.3 | 3.4 | 1.1 | 6 | 4.3 |
| TANN | e P | Z | 22:14:48.5 | 37.3 | 3.4 | 1.2 | 9 | 4.4 |
| GUNZ | e P | Z | 22:14:49.3 | 37.4 | 3.4 | 1.1 | 9 | 4.4 |
| | e pP | Z | 22:14:56.5 | | | | | |
| WERN | e P | Z | 22:14:50.1 | 37.5 | 3.4 | 1.2 | 22 | 4.8 |
| | e pP | Z | 22:14:57.2 | | | | | |
| TNS | e P | Z | 22:14:51.8 | 37.7 | 3.6 | 0.9 | 8 | 4.5 |
| | e pP | Z | 22:14:59.3 | | | | | |
| MANZ | e P | Z | 22:14:52.6 | 37.8 | 3.4 | 1.6 | 13 | 4.4 |
| ROTZ | e P | Z | 22:14:54.6 | 38.0 | 3.4 | 1.2 | 12 | 4.5 |
| | e pP | Z | 22:15:01.7 | | | | | |
| GRA1 | e P | Z | 22:14:55.5 | 38.1 | 3.4 | 1.1 | 15 | 4.6 |
| | e pP | Z | 22:15:02.6 | | | | | |
| WLF | e pP | Z | 22:15:04.6 | 38.3 | 3.7 | | | |
| WET | e P | Z | 22:14:59.5 | 38.6 | 3.3 | 1.3 | 10 | 4.3 |
| GEC2 | e P | Z | 22:15:01.6 | 38.8 | 3.2 | 0.9 | 5 | 4.2 |
| | e pP | Z | 22:15:08.9 | | | | | |
| STU | e P | Z | 22:15:03.7 | 39.1 | 3.5 | 1.3 | 22 | 4.6 |
| BFO | e P | Z | 22:15:07.8 | 39.6 | 3.5 | 1.1 | 8 | 4.2 |
| RJOB | e P | Z | 22:15:11.2 | 40.0 | 3.2 | 0.8 | 6 | 4.3 |

Date 2009/06/14
Origin Time 03:36: 4.3
Lat 7.600S
Long 117.200E
Depth 40.0G
mb
Ms 5.1
ML
Source NEIC
Bali Sea

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|-------|------|------|-------|----|-----|----|
| MOX | e PP | Z | 03:54:33.5 | 105.7 | 82.7 | | | | | |
| | e L | Z | 04:47:52.7 | | | 18.8 | 502 | | 5.1 | |
| GRA1 | e PP | Z | 03:54:35.4 | 106.1 | 82.7 | | | | | |
| | e L | Z | 04:48:38.6 | | | 19.5 | 564 | | 5.1 | |

Date 2009/06/14
Origin Time 05:58:48.0
Lat 5.400N
Long 126.400E
Depth 75.0G
mb
Ms
ML
Source NEIC
Mindanao, Philippine Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| RUE | e Pdiff | Z | 06:12:22.9 | 99.1 | 68.6 | 1.2 | 104 | | | |
| BRG | e Pdiff | Z | 06:12:24.2 | 99.6 | 68.9 | 1.2 | 30 | | | |
| FBE | e Pdiff | Z | 06:12:25.9 | 99.9 | 68.4 | 1.1 | 33 | | | |
| CLL | e Pdiff | Z | 06:12:25.5 | 100.0 | 68.1 | 1.5 | 33 | | | |
| BSEG | e Pdiff | Z | 06:12:28.2 | 100.5 | 65.4 | 1.1 | 45 | | | |

| | | | | | | | |
|------|---------|---|------------|-------|------|-----|----|
| GEC2 | e Pdiff | Z | 06:12:28.1 | 100.5 | 69.1 | 1.5 | 27 |
| TANN | e Pdiff | Z | 06:12:28.9 | 100.7 | 67.8 | 1.2 | 19 |
| WERD | e Pdiff | Z | 06:12:29.2 | 100.7 | 67.7 | 1.1 | 16 |
| GUNZ | e Pdiff | Z | 06:12:29.3 | 100.8 | 67.7 | 1.1 | 24 |
| NEUB | e Pdiff | Z | 06:12:29.5 | 100.8 | 67.1 | 1.1 | 38 |
| WERN | e Pdiff | Z | 06:12:29.5 | 100.8 | 67.8 | 1.1 | 14 |
| PLN | e Pdiff | Z | 06:12:29.8 | 100.8 | 67.5 | 1.2 | 92 |
| MANZ | e Pdiff | Z | 06:12:30.8 | 101.0 | 67.6 | 1.5 | 24 |
| ROTZ | e Pdiff | Z | 06:12:31.1 | 101.1 | 67.7 | 1.4 | 22 |
| MOX | e Pdiff | Z | 06:12:30.8 | 101.1 | 67.1 | 1.5 | 30 |
| | e PP | Z | 06:16:39.2 | | | | |
| NRDL | e Pdiff | Z | 06:12:31.7 | 101.2 | 65.5 | 1.3 | 62 |
| CLZ | e Pdiff | Z | 06:12:32.3 | 101.3 | 65.8 | 1.0 | 42 |
| GRA1 | e Pdiff | Z | 06:12:33.7 | 101.7 | 66.9 | 1.8 | 36 |
| | e PP | Z | 06:16:47.2 | | | | |
| UBBA | e Pdiff | Z | 06:12:34.4 | 101.9 | 65.7 | | |
| IBBN | e Pdiff | Z | 06:12:37.7 | 102.6 | 63.5 | 1.1 | 49 |
| BUG | e Pdiff | Z | 06:12:40.6 | 103.2 | 63.3 | 1.7 | 61 |

Date 2009/06/14 Origin Time 08:15:56.0 Lat 5.400N Long 126.500E Depth 55.0G mb Ms 4.8 ML Source NEIC
Mindanao, Philippine Islands

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|-----|----|
| BRG | e Pdiff | Z 08:29:40.2 | 99.7 | 68.9 | | | | | |
| TANN | e Pdiff | Z 08:29:41.5 | 100.7 | 67.7 | | | | | |
| MOX | e L | Z 09:19:30.6 | 101.1 | 67.0 | 20.6 | 339 | | 4.8 | |
| CLZ | e Pdiff | Z 08:29:43.1 | 101.4 | 65.7 | | | | | |
| GRA1 | e Pdiff | Z 08:29:43.1 | 101.7 | 66.8 | | | | | |
| | e L | Z 09:18:42.4 | | | 22.0 | 282 | | 4.7 | |

Date 2009/06/14 Origin Time Lat Long Depth mb Ms ML Source

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e PKPab | Z 08:40:31.8 | | | | | | | |
| | e pPKPab | Z 08:40:38.1 | | | | | | | |

Date 2009/06/14 Origin Time Lat Long Depth mb Ms ML Source

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|----|----|----|
| GRA1 | e P | Z 12:08:06.8 | | | | | | | |

e 12:09:10.5

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/14 | 14:18:29.7 | 15.881N | 88.085W | 33.0G | 5.2 | 4.6 | | SZGRF |

Honduras

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| WLF | e P | Z 14:30:39.4 | 80.6 | 283.6 | 1.5 | 21 | 5.0 | | |
| BUG | e P | Z 14:30:41.1 | 80.9 | 284.1 | 1.3 | 16 | 4.9 | | |
| IBBN | e P | Z 14:30:41.3 | 81.0 | 284.4 | 1.7 | 31 | 5.1 | | |
| TNS | e P | Z 14:30:46.0 | 81.9 | 285.2 | 1.4 | 10 | 4.8 | | |
| BSEG | e P | Z 14:30:46.8 | 82.0 | 286.1 | 1.5 | 31 | 5.2 | | |
| NRDL | e P | Z 14:30:48.3 | 82.3 | 286.1 | 1.3 | 14 | 4.9 | | |
| CLZ | e P | Z 14:30:50.3 | 82.7 | 286.4 | 1.9 | 38 | 5.3 | | |
| NEUB | e P | Z 14:30:55.1 | 83.7 | 287.6 | 1.5 | 27 | 5.2 | | |
| MOX | e P | Z 14:30:55.5 | 83.8 | 287.5 | 1.4 | 19 | 5.1 | | |
| | e | 14:31:04.5 | | | | | | | |
| | e L | Z 15:05:36.5 | | | 21.6 | 232 | | 4.5 | |
| GRA1 | e P | Z 14:30:56.1 | 83.8 | 287.3 | 2.3 | 63 | 5.4 | | |
| | e | 14:31:05.0 | | | | | | | |
| | e L | Z 15:05:59.3 | | | 19.9 | 347 | | 4.7 | |
| PLN | e P | Z 14:30:57.4 | 84.1 | 287.9 | 1.3 | 107 | 5.9 | | |
| WERD | e P | Z 14:30:57.9 | 84.2 | 288.0 | 1.3 | 21 | 5.2 | | |
| MANZ | e P | Z 14:30:58.1 | 84.3 | 287.9 | 1.3 | 14 | 5.0 | | |
| GUNZ | e P | Z 14:30:58.2 | 84.3 | 288.1 | 1.4 | 27 | 5.3 | | |
| WERN | e P | Z 14:30:58.8 | 84.3 | 288.1 | 1.2 | 30 | 5.4 | | |
| TANN | e P | Z 14:30:58.5 | 84.3 | 288.2 | 1.4 | 30 | 5.3 | | |
| CLL | e P | Z 14:30:58.5 | 84.4 | 288.5 | 1.4 | 25 | 5.2 | | |
| ROTZ | e P | Z 14:30:59.1 | 84.4 | 288.0 | 1.5 | 22 | 5.2 | | |
| RUE | e P | Z 14:30:58.6 | 84.5 | 289.0 | 0.6 | 16 | 5.4 | | |
| FBE | e P | Z 14:31:00.4 | 84.7 | 288.8 | 1.2 | 19 | 5.2 | | |
| WET | e P | Z 14:31:02.0 | 85.0 | 288.6 | 1.3 | 31 | 5.4 | | |
| BRG | e P | Z 14:31:02.5 | 85.1 | 289.2 | 1.3 | 18 | 5.2 | | |
| RJOB | e P | Z 14:31:03.8 | 85.4 | 288.6 | 1.4 | 18 | 5.0 | | |
| GEC2 | e P | Z 14:31:04.8 | 85.6 | 289.2 | 1.3 | 18 | 5.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|-----|----|--------|
| 2009/06/14 | 20:25: 8.2 | 58.344S | 30.791W | 33.0N | | 4.8 | | SZGRF |

South Sandwich Islands region

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|-------|-------|------|-------|----|-----|----|
| GRA1 | e PP | Z 20:44:33.9 | 113.4 | 202.5 | | | | | |
| | e L | Z 21:26:50.1 | | | 20.6 | 211 | | 4.7 | |
| MOX | e L | Z 21:27:17.2 | 114.4 | 202.9 | 20.0 | 227 | | 4.8 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------------------------|-------------|--------|----------|-------|----|----|----|--------|
| 2009/06/14 | 21:08:27.4 | 5.400N | 126.500E | 69.0G | | | | NEIC |
| Mindanao, Philippine Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|--------|--------------|-------|------|------|-------|----|----|----|
| GRA1 | e Pdif | Z 21:22:15.6 | 101.7 | 66.8 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------------------|-------------|--------|----------|-------|----|----|----|--------|
| 2009/06/15 | 00:44:57.7 | 5.400S | 151.300E | 69.0G | | | | NEIC |
| New Britain, Papua New Guinea, region | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| BRG | e PKPdf | Z 01:03:44.6 | 122.4 | 53.0 | | | | | |
| CLL | e PKPdf | Z 01:03:44.9 | 122.6 | 51.8 | | | | | |
| FBE | e PKPdf | Z 01:03:45.8 | 122.6 | 52.3 | | | | | |
| TANN | e PKPdf | Z 01:03:46.8 | 123.4 | 51.7 | | | | | |
| WERD | e PKPdf | Z 01:03:46.6 | 123.4 | 51.5 | | | | | |
| CLZ | e PKPdf | Z 01:03:47.1 | 123.5 | 48.8 | | | | | |
| GUNZ | e PKPdf | Z 01:03:47.3 | 123.5 | 51.6 | | | | | |
| PLN | e PKPdf | Z 01:03:47.2 | 123.5 | 51.3 | | | | | |
| WERN | e PKPdf | Z 01:03:47.6 | 123.5 | 51.7 | | | | | |
| MOX | e PKPdf | Z 01:03:47.4 | 123.7 | 50.7 | | | | | |
| GEC2 | e PKPdf | Z 01:03:47.0 | 123.7 | 53.8 | | | | | |
| MANZ | e PKPdf | Z 01:03:47.5 | 123.8 | 51.5 | | | | | |
| ROTZ | e PKPdf | Z 01:03:47.3 | 123.9 | 51.8 | | | | | |
| WET | e PKPdf | Z 01:03:48.5 | 123.9 | 52.8 | | | | | |
| GRA1 | e PKPdf | Z 01:03:48.9 | 124.4 | 50.8 | | | | | |
| RJOB | e PKPdf | Z 01:03:49.5 | 124.8 | 53.5 | | | | | |
| BUG | e PKPdf | Z 01:03:49.8 | 125.2 | 45.7 | | | | | |
| TNS | e PKPdf | Z 01:03:51.4 | 125.5 | 47.6 | | | | | |
| STU | e PKPdf | Z 01:03:51.7 | 126.1 | 49.1 | | | | | |
| BFO | e PKPdf | Z 01:03:52.6 | 126.8 | 48.5 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/15 | 02:08:38.9 | 19.042S | 179.508E | 33.0N | | | | SZGRF |
| South of Fiji Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| NRDL | e PKPbc | Z 02:28:13.8 | 145.5 | 17.9 | | | | | |
| CLL | e PKPbc | Z 02:28:15.7 | 146.0 | 23.2 | | | | | |
| CLZ | e PKPbc | Z 02:28:16.1 | 146.1 | 18.6 | | | | | |
| BRG | e PKPbc | Z 02:28:16.1 | 146.2 | 25.0 | | | | | |
| MOX | e PKPbc | Z 02:28:18.4 | 147.0 | 21.3 | | | | | |

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| TANN | e | PKPbc | Z | 02:28:18.6 | 147.0 | 22.9 |
| UBBA | e | PKPbc | Z | 02:28:19.0 | 147.2 | 18.5 |
| ROTZ | e | PKPbc | Z | 02:28:20.3 | 147.6 | 22.8 |
| TNS | e | PKPbc | Z | 02:28:21.7 | 148.0 | 16.1 |
| WET | e | PKPbc | Z | 02:28:21.5 | 148.0 | 24.4 |
| GEC2 | e | PKPbc | Z | 02:28:21.6 | 148.1 | 26.0 |
| WLF | e | PKPbc | Z | 02:28:24.3 | 148.9 | 12.2 |
| RJOB | e | PKPbc | Z | 02:28:24.9 | 149.3 | 25.2 |
| FUR | e | PKPbc | Z | 02:28:24.6 | 149.4 | 22.2 |
| BFO | e | PKPbc | Z | 02:28:26.1 | 149.9 | 16.8 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|--------------------------------|-------------|--------|---------|-------|-----|----|----|--------|
| 2009/06/15 | 12:05:24.7 | 8.351N | 93.282E | 33.0G | 5.5 | | | SZGRF |
| Nicobar Islands, India, region | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 12:17:13.1 | 76.8 | 93.0 | 1.0 | 29 | 5.4 | | |
| GEC2 | e P | Z | 12:17:13.5 | 76.9 | 92.3 | 1.3 | 71 | 5.6 | | |
| RUE | e P | Z | 12:17:13.7 | 77.0 | 93.2 | 1.4 | 166 | 6.0 | | |
| FBE | e P | Z | 12:17:15.4 | 77.2 | 92.5 | 1.4 | 90 | 5.7 | | |
| CLL | e P | Z | 12:17:16.0 | 77.4 | 92.3 | 0.9 | 22 | 5.3 | | |
| WET | e P | Z | 12:17:16.6 | 77.4 | 91.7 | 1.3 | 47 | 5.5 | | |
| RJOB | e P | Z | 12:17:16.1 | 77.4 | 91.4 | 1.0 | 26 | 5.3 | | |
| TANN | e P | Z | 12:17:18.2 | 77.7 | 91.7 | 1.5 | 34 | 5.2 | | |
| WERN | e P | Z | 12:17:18.6 | 77.8 | 91.6 | 1.9 | 51 | 5.3 | | |
| GUNZ | e P | Z | 12:17:18.7 | 77.8 | 91.6 | 1.3 | 37 | 5.3 | | |
| WERD | e P | Z | 12:17:18.6 | 77.8 | 91.6 | 1.5 | 38 | 5.3 | | |
| ROTZ | e P | Z | 12:17:19.6 | 77.9 | 91.4 | 1.3 | 54 | 5.5 | | |
| PLN | e P | Z | 12:17:19.3 | 77.9 | 91.5 | 0.9 | 83 | 5.9 | | |
| MANZ | e P | Z | 12:17:19.9 | 77.9 | 91.3 | 1.4 | 69 | 5.6 | | |
| NEUB | e P | Z | 12:17:20.4 | 78.2 | 91.3 | 1.3 | 50 | 5.5 | | |
| MOX | e P | Z | 12:17:21.2 | 78.3 | 91.1 | 1.0 | 20 | 5.2 | | |
| FUR | e P | Z | 12:17:22.0 | 78.5 | 90.3 | 1.8 | 140 | 5.7 | | |
| GRA1 | e P | Z | 12:17:23.0 | 78.5 | 90.6 | 1.0 | 44 | 5.5 | | |
| CLZ | e P | Z | 12:17:25.5 | 79.1 | 90.4 | 0.9 | 39 | 5.5 | | |
| BSEG | e P | Z | 12:17:25.8 | 79.1 | 90.7 | 1.1 | 134 | 5.9 | | |
| NRDL | e P | Z | 12:17:26.7 | 79.2 | 90.3 | 1.6 | 95 | 5.6 | | |
| STU | e P | Z | 12:17:29.7 | 79.8 | 88.9 | | | | | |
| TNS | e P | Z | 12:17:32.4 | 80.3 | 88.6 | 0.9 | 22 | 5.1 | | |
| BFO | e P | Z | 12:17:32.7 | 80.4 | 88.2 | 1.3 | 34 | 5.1 | | |
| IBBN | e P | Z | 12:17:34.3 | 80.7 | 88.4 | 1.1 | 92 | 5.7 | | |
| BUG | e P | Z | 12:17:36.0 | 81.0 | 87.9 | 1.1 | 62 | 5.5 | | |
| WLF | e P | Z | 12:17:40.9 | 81.8 | 86.7 | 1.6 | 73 | 5.6 | | |

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

2009/06/15 16:00:56.2 15.868N 86.882W 33.0N 4.8 4.2 SZGRF
Honduras

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| TNS | e P | Z 16:13:09.1 | 81.2 | 284.3 | 0.6 | 4 | 4.5 | | |
| CLZ | e P | Z 16:13:13.1 | 82.0 | 285.5 | 1.1 | 7 | 4.7 | | |
| MOX | e P | Z 16:13:18.4 | 83.0 | 286.6 | 1.8 | 10 | 4.7 | | |
| | e L | Z 16:51:14.0 | | | 19.5 | 98 | | 4.2 | |
| GRA1 | e P | Z 16:13:18.8 | 83.1 | 286.4 | 1.5 | 12 | 4.9 | | |
| | e L | Z 16:45:13.1 | | | 20.6 | 148 | | 4.3 | |
| TANN | e P | Z 16:13:21.8 | 83.6 | 287.2 | 1.0 | 4 | 4.6 | | |
| ROTZ | e P | Z 16:13:22.1 | 83.7 | 287.1 | 1.2 | 4 | 4.5 | | |
| CLL | e P | Z 16:13:21.8 | 83.7 | 287.6 | 0.8 | 4 | 4.8 | | |
| WET | e P | Z 16:13:25.0 | 84.3 | 287.7 | 1.0 | 7 | 4.8 | | |
| BRG | e P | Z 16:13:25.6 | 84.4 | 288.3 | 2.2 | 27 | 5.1 | | |
| GEC2 | e P | Z 16:13:27.9 | 84.9 | 288.3 | 1.7 | 16 | 5.0 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
2009/06/16 00:04: 6.9 48.683N 145.242E 403.5 5.7 ML SZGRF
Sea of Okhotsk

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| RGN | e P | Z 00:14:31.4 | 69.1 | 31.7 | 0.7 | 92 | 6.1 | | |
| BSEG | e P | Z 00:14:39.7 | 70.6 | 29.7 | 0.9 | 100 | 6.0 | | |
| RUE | e P | Z 00:14:40.7 | 70.8 | 31.6 | 1.2 | 109 | 5.8 | | |
| | e pP | Z 00:16:09.8 | | | | | | | |
| NRDL | e P | Z 00:14:47.1 | 71.9 | 29.3 | 0.8 | 40 | 5.6 | | |
| CLL | e P | Z 00:14:47.6 | 72.0 | 30.9 | 1.1 | 134 | 6.0 | | |
| | e pP | Z 00:16:16.8 | | | | | | | |
| BRG | e P | Z 00:14:48.0 | 72.1 | 31.4 | 1.3 | 40 | 5.4 | | |
| | e pP | Z 00:16:17.3 | | | | | | | |
| FBE | e P | Z 00:14:49.2 | 72.2 | 31.1 | 0.8 | 50 | 5.7 | | |
| | e pP | Z 00:16:18.4 | | | | | | | |
| CLZ | e P | Z 00:14:50.5 | 72.4 | 29.4 | 1.6 | 200 | 6.0 | | |
| NEUB | e P | Z 00:14:50.5 | 72.5 | 30.2 | 1.0 | 99 | 5.9 | | |
| | e pP | Z 00:16:20.1 | | | | | | | |
| IBBN | e P | Z 00:14:52.1 | 72.7 | 27.9 | 0.6 | 96 | 6.1 | | |
| | e pP | Z 00:16:21.5 | | | | | | | |
| TANN | e P | Z 00:14:53.2 | 73.0 | 30.5 | 1.0 | 18 | 5.2 | | |
| | e pP | Z 00:16:22.7 | | | | | | | |
| WERD | e P | Z 00:14:53.4 | 73.0 | 30.4 | 0.9 | 26 | 5.4 | | |
| | e pP | Z 00:16:22.9 | | | | | | | |
| PLN | e P | Z 00:14:53.5 | 73.0 | 30.3 | 1.1 | 172 | 6.1 | | |
| MOX | e P | Z 00:14:53.7 | 73.0 | 30.0 | 0.9 | 36 | 5.5 | | |
| | e pP | Z 00:16:23.2 | | | | | | | |
| GUNZ | e P | Z 00:14:53.9 | 73.0 | 30.4 | 0.8 | 32 | 5.5 | | |
| | e pP | Z 00:16:23.4 | | | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

43

| | | | | | | | | |
|------|------|---|------------|------|------|-----|-----|-----|
| WERN | e P | Z | 00:14:54.3 | 73.1 | 30.4 | 0.7 | 36 | 5.6 |
| | e pP | Z | 00:16:23.6 | | | | | |
| UBBA | e P | Z | 00:14:55.6 | 73.4 | 29.0 | 0.7 | 34 | 5.5 |
| | e pP | Z | 00:16:25.3 | | | | | |
| MANZ | e P | Z | 00:14:56.0 | 73.4 | 30.2 | 1.3 | 40 | 5.3 |
| | e pP | Z | 00:16:25.7 | | | | | |
| ROTZ | e P | Z | 00:14:57.2 | 73.6 | 30.2 | 1.0 | 34 | 5.4 |
| BUG | e P | Z | 00:14:57.2 | 73.6 | 27.4 | 1.0 | 82 | 5.7 |
| | e pP | Z | 00:16:27.1 | | | | | |
| GEC2 | e P | Z | 00:14:58.5 | 73.9 | 31.0 | 0.6 | 31 | 5.5 |
| WET | e P | Z | 00:14:59.2 | 73.9 | 30.5 | 1.0 | 78 | 5.7 |
| | e pP | Z | 00:16:28.5 | | | | | |
| GRA1 | e P | Z | 00:14:59.6 | 74.0 | 29.6 | 0.7 | 116 | 6.0 |
| | e pP | Z | 00:16:29.0 | | | | | |
| TNS | e P | Z | 00:15:01.5 | 74.4 | 28.0 | 1.0 | 64 | 5.6 |
| | e pP | Z | 00:16:31.3 | | | | | |
| RJOB | e P | Z | 00:15:06.1 | 75.2 | 30.3 | 0.9 | 50 | 5.5 |
| | e pP | Z | 00:16:36.0 | | | | | |
| FUR | e P | Z | 00:15:06.7 | 75.3 | 29.4 | 1.1 | 144 | 6.0 |
| STU | e P | Z | 00:15:07.2 | 75.4 | 28.3 | 0.9 | 90 | 5.9 |
| BFO | e P | Z | 00:15:10.7 | 76.1 | 27.7 | 1.2 | 68 | 5.7 |

Date
2009/06/16

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| BRG | e PKPab | Z 04:33:58.8 | | | | | | | |
| FBE | e PKPab | Z 04:33:59.0 | | | | | | | |
| GRA1 | e PKPab | Z 04:34:05.1 | | | | | | | |
| | e | 04:34:15.8 | | | | | | | |
| GUNZ | e PKPab | Z 04:34:01.6 | | | | | | | |
| LEIB | e PKPab | Z 04:34:01.4 | | | | | | | |
| MOX | e PKPab | Z 04:34:01.2 | | | | | | | |
| MULD | e PKPab | Z 04:34:01.6 | | | | | | | |
| NEUB | e PKPab | Z 04:33:58.5 | | | | | | | |
| PLN | e PKPab | Z 04:34:00.7 | | | | | | | |
| ROHR | e PKPab | Z 04:34:02.3 | | | | | | | |
| TANN | e PKPab | Z 04:34:01.6 | | | | | | | |
| TRIB | e PKPab | Z 04:34:02.1 | | | | | | | |
| WERN | e PKPab | Z 04:34:02.1 | | | | | | | |
| | e | 04:34:12.8 | | | | | | | |
| WET | e PKPab | Z 04:34:06.8 | | | | | | | |

Date
2009/06/16

Origin Time
04:30:42.1

Lat
22.517S

Long
175.166W

Depth
33.0N

mb

Ms

ML

Source
SZGRF

Tonga Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 04:50:24.9 | 148.3 | 9.7 | | | | | |
| | e PKPab | Z | 04:50:28.6 | | | | | | | |
| RUE | e PKPbc | Z | 04:50:27.2 | 149.3 | 16.3 | | | | | |
| NRDL | e PKPbc | Z | 04:50:28.4 | 149.8 | 9.7 | | | | | |
| IBBN | e PKPbc | Z | 04:50:29.5 | 150.1 | 5.4 | | | | | |
| CLZ | e PKPbc | Z | 04:50:30.2 | 150.4 | 10.4 | | | | | |
| | e PKPbc | Z | 04:50:30.1 | 150.5 | 15.5 | | | | | |
| BRG | e PKPab | Z | 04:50:37.2 | | | | | | | |
| | e PKPbc | Z | 04:50:30.8 | 150.8 | 17.4 | | | | | |
| NEUB | e PKPab | Z | 04:50:38.3 | | | | | | | |
| | e PKPbc | Z | 04:50:31.2 | 150.8 | 13.2 | | | | | |
| FBE | e PKPbc | Z | 04:50:31.3 | 150.8 | 16.3 | | | | | |
| | e PKPab | Z | 04:50:38.7 | | | | | | | |
| BUG | e PKPbc | Z | 04:50:31.5 | 151.0 | 4.6 | | | | | |
| MOX | e PKPbc | Z | 04:50:32.2 | 151.4 | 13.2 | | | | | |
| | e PKPab | Z | 04:50:41.0 | | | | | | | |
| PLN | e PKPbc | Z | 04:50:32.3 | 151.5 | 14.3 | | | | | |
| WERD | e PKPbc | Z | 04:50:32.4 | 151.5 | 14.6 | | | | | |
| TANN | e PKPbc | Z | 04:50:32.4 | 151.5 | 14.9 | | | | | |
| | e PKPab | Z | 04:50:41.3 | | | | | | | |
| GUNZ | e PKPbc | Z | 04:50:32.8 | 151.5 | 14.7 | | | | | |
| | e PKPab | Z | 04:50:41.7 | | | | | | | |
| WERN | e PKPbc | Z | 04:50:33.0 | 151.6 | 14.8 | | | | | |
| | e PKPab | Z | 04:50:42.2 | | | | | | | |
| MANZ | e PKPbc | Z | 04:50:33.6 | 151.9 | 14.4 | | | | | |
| ROTZ | e PKPbc | Z | 04:50:34.3 | 152.1 | 14.7 | | | | | |
| | e PKPab | Z | 04:50:44.4 | | | | | | | |
| TNS | e PKPbc | Z | 04:50:34.5 | 152.2 | 7.2 | | | | | |
| | e PKPab | Z | 04:50:44.7 | | | | | | | |
| GRA1 | e PKPbc | Z | 04:50:34.9 | 152.4 | 12.8 | | | | | |
| | e PKPab | Z | 04:50:45.5 | | | | | | | |
| WET | e PKPab | Z | 04:50:46.5 | 152.6 | 16.3 | | | | | |
| GEC2 | e PKPbc | Z | 04:50:35.1 | 152.7 | 18.1 | | | | | |
| RJOB | e PKPab | Z | 04:50:52.8 | 154.0 | 17.0 | | | | | |
| BFO | e PKPbc | Z | 04:50:38.3 | 154.0 | 7.4 | | | | | |
| | e PKPab | Z | 04:50:52.4 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|----|--------|
| 2009/06/16 | 18:52:58.0 | 42.005N | 13.668E | 10.0G | | | | SZGRF |

Central Italy

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|----|
| RJOB | e Pn | Z | 18:54:21.4 | 5.8 | 173.5 | | | | | |
| | e Sn | N | 18:55:23.9 | | | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

45

| | | | | | |
|------|------|---|------------|-----|-------|
| OBER | e Pn | Z | 18:54:25.1 | 5.9 | 154.9 |
| | e Sn | N | 18:55:27.1 | | |
| GEC2 | e Sn | N | 18:55:48.1 | 6.8 | 180.2 |
| WET | e Pn | Z | 18:54:39.2 | 7.2 | 175.3 |
| | e Sn | E | 18:55:53.2 | | |
| BFO | e Sn | E | 18:55:58.0 | 7.4 | 147.3 |

| | | | | | | | | |
|------------|-------------|---------|--------|-------|----|-----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2009/06/16 | 20:05:57.1 | 54.400S | 5.800E | 10.0G | | 6.1 | | NEIC |

Bouvet Island region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|-------|------|-------|----|-----|----|
| GRA1 | e Pdiff | Z | 20:20:01.0 | 104.2 | 183.3 | | | | | |
| | e PP | Z | 20:24:16.4 | | | | | | | |
| | e Sdiff | T | 20:31:58.7 | | | | | | | |
| | e SP | Z | 20:33:25.2 | | | | | | | |
| | e SS | T | 20:39:01.7 | | | | | | | |
| | e L | Z | 21:06:54.7 | | | 20.6 | 4508 | | 6.0 | |
| MOX | e Pdiff | Z | 20:20:05.3 | 105.2 | 183.5 | | | | | |
| | e PP | Z | 20:24:23.6 | | | | | | | |
| | e Sdiff | T | 20:32:10.9 | | | | | | | |
| | e SP | Z | 20:33:35.4 | | | | | | | |
| | e SS | T | 20:39:14.3 | | | | | | | |
| | e L | Z | 21:07:42.8 | | | 19.1 | 5557 | | 6.1 | |

| | | | | | | | | |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2009/06/17 | 04:12:52.3 | 21.800N | 61.900E | 10.0G | 4.9 | | | NEIC |

Owen Fracture Zone region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| GEC2 | e P | Z | 04:21:20.4 | 46.6 | 107.8 | 1.6 | 12 | 4.8 | | |
| RJOB | e P | Z | 04:21:23.2 | 46.9 | 105.9 | 1.5 | 22 | 5.1 | | |
| BRG | e P | Z | 04:21:24.4 | 47.1 | 109.8 | 1.3 | 6 | 4.6 | | |
| WET | e P | Z | 04:21:24.4 | 47.2 | 107.2 | 2.0 | 13 | 4.7 | | |
| ROTZ | e P | Z | 04:21:30.7 | 47.8 | 107.2 | 1.0 | 6 | 4.7 | | |
| CLL | e P | Z | 04:21:31.0 | 47.8 | 109.2 | 1.2 | 18 | 5.1 | | |
| GRA1 | e P | Z | 04:21:33.9 | 48.4 | 106.2 | 1.5 | 30 | 5.2 | | |
| | e S | T | 04:28:39.5 | | | | | | | |
| MOX | e P | Z | 04:21:35.9 | 48.4 | 107.4 | 1.2 | 6 | 4.6 | | |
| | e S | T | 04:28:43.1 | | | | | | | |
| CLZ | e P | Z | 04:21:45.1 | 49.5 | 107.2 | 1.7 | 28 | 4.9 | | |
| NRDL | e P | Z | 04:21:46.9 | 49.9 | 107.5 | 1.9 | 34 | 4.9 | | |
| BSEG | e P | Z | 04:21:52.8 | 50.2 | 108.8 | 1.4 | 33 | 5.1 | | |
| TNS | e P | Z | 04:21:47.3 | 50.3 | 104.1 | 2.0 | 31 | 4.9 | | |
| IBBN | e P | Z | 04:21:58.9 | 51.2 | 105.1 | 1.8 | 44 | 5.1 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/17 | 04:29:1.8 | 34.952N | 36.212E | 33.0G | 4.7 | | | SZGRF |
| Jordan - Syria region | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| RJOB | e P | Z | 04:33:53.7 | 21.6 | 117.7 | 0.9 | 27 | 4.7 | | |
| GEC2 | e P | Z | 04:33:54.1 | 21.6 | 121.6 | 1.3 | 44 | 4.7 | | |
| WET | e P | Z | 04:34:00.2 | 22.2 | 120.9 | 1.2 | 62 | 4.9 | | |
| BRG | e P | Z | 04:34:03.9 | 22.6 | 126.1 | 0.9 | 13 | 4.5 | | |
| ROTZ | e P | Z | 04:34:07.4 | 22.9 | 121.2 | 1.0 | 29 | 4.8 | | |
| MANZ | e P | Z | 04:34:09.1 | 23.1 | 121.4 | 1.0 | 17 | 4.5 | | |
| WERN | e P | Z | 04:34:09.2 | 23.1 | 122.5 | 1.3 | 26 | 4.6 | | |
| TANN | e P | Z | 04:34:09.6 | 23.1 | 122.8 | 1.0 | 24 | 4.7 | | |
| GUNZ | e P | Z | 04:34:10.0 | 23.2 | 122.5 | 0.9 | 30 | 4.8 | | |
| WERD | e P | Z | 04:34:10.4 | 23.2 | 122.7 | 2.7 | 72 | 4.7 | | |
| PLN | e P | Z | 04:34:11.6 | 23.3 | 122.5 | 0.9 | 116 | 5.4 | | |
| CLL | e P | Z | 04:34:12.1 | 23.4 | 125.4 | 1.0 | 14 | 4.4 | | |
| GRA1 | e P | Z | 04:34:13.1 | 23.4 | 119.5 | 1.2 | 23 | 4.6 | | |
| MOX | e P | Z | 04:34:15.9 | 23.7 | 122.0 | 0.9 | 20 | 4.6 | | |
| STU | e P | Z | 04:34:21.2 | 24.2 | 114.7 | 1.1 | 26 | 4.7 | | |
| BFO | e P | Z | 04:34:24.6 | 24.5 | 112.7 | 1.0 | 20 | 4.8 | | |
| UBBA | e P | Z | 04:34:25.2 | 24.7 | 119.9 | 1.4 | 17 | 4.6 | | |
| CLZ | e P | Z | 04:34:28.1 | 25.0 | 122.3 | 1.5 | 35 | 4.9 | | |
| TNS | e P | Z | 04:34:30.8 | 25.3 | 116.6 | 1.1 | 11 | 4.5 | | |
| NRDL | e P | Z | 04:34:32.6 | 25.5 | 123.1 | 1.2 | 16 | 4.5 | | |
| BSEG | e P | Z | 04:34:38.9 | 26.2 | 125.9 | 1.0 | 28 | 4.8 | | |
| WLF | e P | Z | 04:34:41.0 | 26.4 | 112.5 | 1.0 | 20 | 4.7 | | |
| IBBN | e P | Z | 04:34:43.8 | 26.6 | 119.4 | 0.8 | 45 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|--|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/17 | 07:08:19.6 | 51.706N | 176.696W | 33.0G | 5.2 | | | SZGRF |
| Andreanof Islands, Aleutian Islands, United States | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-----|------|-------|-----|----|----|
| GRA1 | e P | Z | 07:20:17.3 | 78.4 | 5.0 | 1.4 | 34 | 5.2 | | |
| | e SS | R | 07:35:30.9 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-------------------------------|-------------|---------|----------|-------|----|-----|----|--------|
| 2009/06/17 | 11:45:40.6 | 29.400S | 177.200W | 35.0G | | 4.4 | | NEIC |
| Kermadec Islands, New Zealand | | | | | | | | |

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

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

47

| | | | | | | | | | | |
|------|---|-------|---|------------|-------|------|------|----|-----|--|
| BSEG | e | PKPab | Z | 12:05:52.7 | 154.9 | 15.6 | | | | |
| NRDL | e | PKPab | Z | 12:05:58.2 | 156.3 | 16.0 | | | | |
| CLL | e | PKPab | Z | 12:06:00.4 | 156.8 | 23.1 | | | | |
| CLZ | e | PKPab | Z | 12:06:00.7 | 156.9 | 17.0 | | | | |
| BRG | e | PKPab | Z | 12:06:01.5 | 157.0 | 25.5 | | | | |
| FBE | e | PKPab | Z | 12:06:02.3 | 157.1 | 24.2 | | | | |
| MOX | e | PKPab | Z | 12:06:04.7 | 157.7 | 20.6 | | | | |
| | e | L | Z | 13:17:42.8 | | | 21.4 | 70 | 4.5 | |
| TANN | e | PKPab | Z | 12:06:05.1 | 157.8 | 22.7 | | | | |
| WERD | e | PKPab | Z | 12:06:05.1 | 157.8 | 22.4 | | | | |
| PLN | e | PKPab | Z | 12:06:05.1 | 157.8 | 22.0 | | | | |
| GUNZ | e | PKPab | Z | 12:06:05.6 | 157.8 | 22.5 | | | | |
| WERN | e | PKPab | Z | 12:06:05.8 | 157.9 | 22.7 | | | | |
| MANZ | e | PKPab | Z | 12:06:06.9 | 158.2 | 22.3 | | | | |
| ROTZ | e | PKPab | Z | 12:06:07.8 | 158.4 | 22.8 | | | | |
| GRA1 | e | PKPab | Z | 12:06:10.2 | 158.7 | 20.6 | | | | |
| | e | L | Z | 13:21:17.3 | | | 20.6 | 63 | 4.4 | |
| TNS | e | PKPab | Z | 12:06:08.7 | 158.7 | 13.7 | | | | |
| WET | e | PKPab | Z | 12:06:09.9 | 158.8 | 25.0 | | | | |
| GEC2 | e | PKPab | Z | 12:06:09.9 | 158.8 | 27.2 | | | | |
| RJOB | e | PKPab | Z | 12:06:15.9 | 160.1 | 26.4 | | | | |
| BFO | e | PKPab | Z | 12:06:17.5 | 160.6 | 14.6 | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/17 23:11:11.0 46.217N 148.465E 33.0N 5.0
 Northwest of Kuril Islands, Russia SZGRF

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| CLL | e P | Z 23:22:50.0 | 75.2 | 30.1 | 0.9 | 19 | 5.2 | | |
| BRG | e P | Z 23:22:50.9 | 75.3 | 30.7 | 1.0 | 6 | 4.7 | | |
| FBE | e P | Z 23:22:51.7 | 75.4 | 30.3 | 1.1 | 12 | 4.9 | | |
| NEUB | e P | Z 23:22:53.5 | 75.7 | 29.3 | 0.9 | 14 | 5.1 | | |
| TANN | e P | Z 23:22:55.6 | 76.2 | 29.7 | 1.5 | 9 | 4.7 | | |
| PLN | e P | Z 23:22:55.9 | 76.2 | 29.5 | 1.5 | 74 | 5.6 | | |
| MOX | e P | Z 23:22:56.0 | 76.2 | 29.2 | 1.2 | 12 | 4.9 | | |
| GUNZ | e P | Z 23:22:56.2 | 76.2 | 29.6 | 1.3 | 12 | 4.9 | | |
| WERN | e P | Z 23:22:56.7 | 76.3 | 29.6 | 1.2 | 10 | 4.8 | | |
| BUG | e P | Z 23:22:59.1 | 76.8 | 26.4 | 1.1 | 11 | 4.9 | | |
| ROTZ | e P | Z 23:22:59.7 | 76.8 | 29.4 | 1.0 | 10 | 4.9 | | |
| GEC2 | e P | Z 23:23:01.2 | 77.1 | 30.3 | 0.8 | 5 | 4.7 | | |
| WET | e P | Z 23:23:01.7 | 77.1 | 29.8 | 1.2 | 18 | 5.1 | | |
| GRA1 | e P | Z 23:23:01.9 | 77.2 | 28.8 | 0.9 | 21 | 5.3 | | |
| TNS | e P | Z 23:23:03.4 | 77.5 | 27.1 | 0.9 | 10 | 4.9 | | |
| FUR | e P | Z 23:23:09.3 | 78.5 | 28.7 | 1.0 | 24 | 5.2 | | |
| WLF | e P | Z 23:23:10.3 | 78.7 | 25.6 | 1.0 | 10 | 4.8 | | |
| BFO | e P | Z 23:23:12.8 | 79.3 | 26.8 | 1.1 | 10 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|-----|------|-------|----|----|----|--------|
| 2009/06/18 | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|------|-----|------|-------|----|----|----|
| BFO | e PKPbc | Z 01:39:15.2 | | | | | | | |
| BRG | e PKP | Z 01:39:05.6 | | | | | | | |
| CLL | e PKP | Z 01:39:04.8 | | | | | | | |
| CLZ | e PKP | Z 01:39:04.7 | | | | | | | |
| FBE | e PKP | Z 01:39:06.0 | | | | | | | |
| FLT1 | e PKP | Z 01:39:02.4 | | | | | | | |
| FUR | e PKPbc | Z 01:39:14.1 | | | | | | | |
| | e PKPab | Z 01:39:17.4 | | | | | | | |
| GEC2 | e PKPbc | Z 01:39:11.1 | | | | | | | |
| GUNZ | e PKP | Z 01:39:07.9 | | | | | | | |
| IBBN | e PKP | Z 01:39:04.6 | | | | | | | |
| MANZ | e PKP | Z 01:39:09.2 | | | | | | | |
| NEUB | e PKP | Z 01:39:06.0 | | | | | | | |
| NRDL | e PKP | Z 01:39:02.7 | | | | | | | |
| PLN | e PKP | Z 01:39:07.8 | | | | | | | |
| RJOB | e PKPbc | Z 01:39:14.2 | | | | | | | |
| | e PKPab | Z 01:39:18.1 | | | | | | | |
| ROTZ | e PKPbc | Z 01:39:09.8 | | | | | | | |
| RUE | e PKP | Z 01:39:00.8 | | | | | | | |
| STU | e PKPab | Z 01:39:16.4 | | | | | | | |
| TANN | e PKP | Z 01:39:07.8 | | | | | | | |
| TNS | e PKPbc | Z 01:39:10.4 | | | | | | | |
| WERD | e PKP | Z 01:39:07.8 | | | | | | | |
| WERN | e PKP | Z 01:39:08.6 | | | | | | | |
| WLF | e PKPbc | Z 01:39:13.3 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|----|--------|
| 2009/06/18 | 04:26:16.0 | 36.407N | 29.417E | 10.0G | | | | SZGRF |
| Turkey | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| RJOB | e Pn | Z 04:30:09.2 | 16.7 | 126.7 | | | | | |
| GEC2 | e Pn | Z 04:30:13.8 | 16.9 | 131.5 | | | | | |
| WET | e Pn | Z 04:30:20.9 | 17.5 | 130.4 | | | | | |
| FUR | e Pn | Z 04:30:22.3 | 17.8 | 124.8 | | | | | |
| BRG | e Pn | Z 04:30:29.9 | 18.2 | 136.6 | | | | | |
| ROTZ | e Pn | Z 04:30:29.9 | 18.3 | 130.5 | | | | | |
| MANZ | e Pn | Z 04:30:31.8 | 18.4 | 130.8 | | | | | |
| FBE | e Pn | Z 04:30:33.0 | 18.5 | 135.5 | | | | | |
| WERN | e Pn | Z 04:30:32.4 | 18.5 | 132.0 | | | | | |
| TANN | e Pn | Z 04:30:32.5 | 18.6 | 132.5 | | | | | |

| | | | | | |
|------|------|---|------------|------|-------|
| GUNZ | e Pn | Z | 04:30:33.0 | 18.6 | 132.1 |
| WERD | e Pn | Z | 04:30:33.7 | 18.7 | 132.3 |
| GRA1 | e Pn | Z | 04:30:34.9 | 18.7 | 128.4 |
| PLN | e Pn | Z | 04:30:34.8 | 18.8 | 132.0 |
| CLL | e Pn | Z | 04:30:37.8 | 18.9 | 135.5 |
| MOX | e Pn | Z | 04:30:40.4 | 19.1 | 131.3 |
| NEUB | e Pn | Z | 04:30:44.4 | 19.4 | 132.8 |
| RUE | e Pn | Z | 04:30:43.7 | 19.5 | 139.4 |
| BFO | e Pn | Z | 04:30:42.3 | 19.5 | 119.9 |
| UBBA | e Pn | Z | 04:30:49.7 | 20.0 | 128.6 |
| TNS | e Pn | Z | 04:30:54.4 | 20.5 | 124.5 |
| CLZ | e Pn | Z | 04:30:55.5 | 20.5 | 131.4 |
| NRDL | e Pn | Z | 04:31:01.3 | 21.0 | 132.2 |
| BUG | e Pn | Z | 04:31:07.5 | 21.8 | 125.1 |
| BSEG | e Pn | Z | 04:31:10.0 | 22.0 | 135.2 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|----------------|-------------|---------|---------|-------|----|----|-----|--------|
| 2009/06/18 | 11:55:16.2 | 44.503N | 10.427E | 10.0G | | | 4.0 | SZGRF |
| Northern Italy | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|-----|
| RJOB | e Pn | Z 11:56:12.5 | 3.6 | 207.8 | | | | | 4.0 |
| | e Pg | Z 11:56:24.2 | | | | | | | |
| | e Sn | Z 11:56:54.4 | | | | | | | |
| | e Sg | Z 11:57:11.0 | | | | | | | |
| FUR | e Pn | Z 11:56:12.2 | 3.7 | 189.4 | | | | | 4.2 |
| BFO | e Pn | Z 11:56:18.1 | 4.1 | 158.5 | | | | | 3.8 |
| | e Pg | Z 11:56:33.4 | | | | | | | |
| | e Sn | Z 11:57:02.4 | | | | | | | |
| STU | e Pn | Z 11:56:20.9 | 4.4 | 168.3 | | | | | 4.1 |
| | e Pg | Z 11:56:38.4 | | | | | | | |
| GEC2 | e Pn | Z 11:56:27.9 | 4.9 | 208.6 | | | | | 3.8 |
| | e Pg | Z 11:56:47.6 | | | | | | | |
| | e Sn | Z 11:57:21.2 | | | | | | | |
| WET | e Pn | Z 11:56:28.6 | 4.9 | 200.8 | | | | | |
| GRA1 | e Pg | Z 11:56:53.7 | 5.2 | 186.2 | | | | | |
| ROTZ | e Pn | Z 11:56:34.3 | 5.4 | 193.6 | | | | | |
| | e Pg | Z 11:56:55.2 | | | | | | | |
| | e Sn | Z 11:57:33.3 | | | | | | | |
| | e Sg | Z 11:58:05.4 | | | | | | | |
| MANZ | e Pn | Z 11:56:37.1 | 5.6 | 192.4 | | | | | |
| | e Pg | Z 11:57:01.9 | | | | | | | |
| | e Sn | Z 11:57:36.6 | | | | | | | |
| TNS | e Pn | Z 11:56:42.7 | 5.9 | 166.1 | | | | | |
| | e Pg | Z 11:57:06.0 | | | | | | | |
| WERN | e Pg | Z 11:57:08.1 | 5.9 | 193.6 | | | | | |
| GUNZ | e Pg | Z 11:57:07.6 | 6.0 | 193.1 | | | | | |

| | | | | | | | | |
|------|------|---|------------|-----|-------|--|--|--|
| | e Sg | Z | 11:58:28.9 | | | | | |
| TANN | e Pg | Z | 11:57:08.9 | 6.1 | 193.9 | | | |
| WERD | e Pg | Z | 11:57:09.8 | 6.1 | 192.8 | | | |
| PLN | e Pg | Z | 11:57:11.6 | 6.1 | 191.7 | | | |
| MOX | e Pg | Z | 11:57:12.8 | 6.2 | 187.9 | | | |
| UBBA | e Pn | Z | 11:56:47.9 | 6.3 | 177.2 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/18 | 14:03:35.7 | 35.531N | 27.362E | 10.0G | 4.2 | | | SZGRF |

Dodecanese Islands, Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| GEC2 | e Pn | Z 14:07:28.9 | 16.7 | 137.9 | 1.0 | 16 | 4.1 | | |
| WET | e Pn | Z 14:07:35.6 | 17.3 | 136.7 | 2.1 | 77 | 4.0 | | |
| ROTZ | e Pn | Z 14:07:45.0 | 18.0 | 136.5 | | | | | |
| BRG | e Pn | Z 14:07:45.4 | 18.1 | 142.6 | | | | | |
| MANZ | e Pn | Z 14:07:48.6 | 18.2 | 136.8 | 1.0 | 19 | 4.2 | | |
| WERN | e Pn | Z 14:07:48.7 | 18.3 | 138.0 | | | | | |
| TANN | e Pn | Z 14:07:48.3 | 18.4 | 138.4 | | | | | |
| GUNZ | e Pn | Z 14:07:48.0 | 18.4 | 138.0 | | | | | |
| GRA1 | e Pn | Z 14:07:49.2 | 18.4 | 134.2 | | | | | |
| WERD | e Pn | Z 14:07:48.4 | 18.5 | 138.1 | | | | | |
| PLN | e Pn | Z 14:07:50.0 | 18.6 | 137.9 | | | | | |
| CLL | e Pn | Z 14:07:52.5 | 18.8 | 141.3 | | | | | |
| MOX | e Pn | Z 14:07:55.6 | 18.9 | 137.0 | | | | | |
| BFO | e Pn | Z 14:07:58.6 | 19.0 | 125.4 | | | | | |
| UBBA | e Pn | Z 14:08:04.3 | 19.7 | 134.1 | | | | | |
| TNS | e Pn | Z 14:08:08.5 | 20.1 | 129.8 | | | | | |
| CLZ | e Pn | Z 14:08:16.6 | 20.3 | 136.8 | 1.8 | 26 | 4.2 | | |
| NRDL | e Pn | Z 14:08:24.1 | 20.9 | 137.4 | 1.2 | 17 | 4.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/19 | 09:06:16.7 | 58.370N | 157.460E | 33.0N | 5.1 | | | SZGRF |

Kamchatka Peninsula, Russia

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z 09:16:53.5 | 64.6 | 18.4 | 1.1 | 28 | 5.4 | | |
| NRDL | e P | Z 09:17:02.4 | 66.0 | 18.0 | | | | | |
| CLL | e P | Z 09:17:05.8 | 66.6 | 19.4 | 1.3 | 25 | 5.3 | | |
| CLZ | e P | Z 09:17:06.3 | 66.6 | 18.1 | 1.2 | 18 | 5.2 | | |
| BRG | e P | Z 09:17:07.3 | 66.8 | 19.8 | 1.1 | 14 | 5.1 | | |
| MOX | e P | Z 09:17:11.6 | 67.5 | 18.6 | 1.1 | 11 | 5.0 | | |
| TANN | e P | Z 09:17:12.2 | 67.5 | 19.0 | 1.2 | 10 | 4.9 | | |
| WERD | e P | Z 09:17:12.1 | 67.5 | 18.9 | 1.1 | 18 | 5.2 | | |
| GUNZ | e P | Z 09:17:12.7 | 67.6 | 18.9 | 1.3 | 17 | 5.1 | | |

| | | | | | | | | |
|------|-----|---|------------|------|------|-----|----|-----|
| WERN | e P | Z | 09:17:13.1 | 67.7 | 18.9 | 1.0 | 13 | 5.1 |
| MANZ | e P | Z | 09:17:14.9 | 68.0 | 18.8 | 1.3 | 13 | 5.0 |
| ROTZ | e P | Z | 09:17:16.5 | 68.2 | 18.8 | 1.3 | 17 | 5.1 |
| GRA1 | e P | Z | 09:17:18.0 | 68.5 | 18.3 | 1.3 | 22 | 5.2 |
| WET | e P | Z | 09:17:19.3 | 68.6 | 19.0 | 1.2 | 18 | 5.2 |
| GEC2 | e P | Z | 09:17:19.7 | 68.7 | 19.4 | 1.0 | 9 | 4.9 |
| RJOB | e P | Z | 09:17:27.2 | 70.0 | 18.8 | 0.9 | 12 | 5.0 |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/19 14:04:54.0 35.660N 28.680E 33.0G 5.4 5.3
 Eastern Mediterranean Sea SZGRF

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| RJOB | e P | Z | 14:08:55.5 | 16.9 | 130.0 | 0.9 | 112 | 5.0 | | |
| GEC2 | e P | Z | 14:09:00.5 | 17.2 | 134.6 | 1.4 | 405 | 5.4 | | |
| WET | e P | Z | 14:09:07.2 | 17.8 | 133.5 | 1.4 | 285 | 5.2 | | |
| FUR | e P | Z | 14:09:08.2 | 17.9 | 127.8 | 1.0 | 477 | 5.6 | | |
| ROTZ | e P | Z | 14:09:16.0 | 18.5 | 133.5 | 1.3 | 276 | 5.3 | | |
| BRG | e P | Z | 14:09:15.7 | 18.5 | 139.5 | 1.6 | 416 | 5.4 | | |
| MANZ | e P | Z | 14:09:16.7 | 18.7 | 133.7 | 1.5 | 262 | 5.2 | | |
| WERN | e P | Z | 14:09:18.1 | 18.8 | 134.9 | 0.9 | 103 | 5.1 | | |
| FBE | e P | Z | 14:09:18.8 | 18.8 | 138.3 | 0.9 | 274 | 5.5 | | |
| TANN | e P | Z | 14:09:18.6 | 18.8 | 135.4 | 1.1 | 140 | 5.1 | | |
| GUNZ | e P | Z | 14:09:19.0 | 18.9 | 135.0 | 0.7 | 137 | 5.3 | | |
| GRA1 | e P | Z | 14:09:19.8 | 18.9 | 131.3 | 1.1 | 323 | 5.5 | | |
| | e L | Z | 14:17:29.9 | | | 21.7 | 15192 | | 5.3 | |
| WERD | e P | Z | 14:09:19.7 | 18.9 | 135.1 | 1.2 | 196 | 5.2 | | |
| PLN | e P | Z | 14:09:20.7 | 19.0 | 134.9 | 1.3 | 1647 | 6.1 | | |
| CLL | e P | Z | 14:09:23.1 | 19.3 | 138.3 | 0.9 | 143 | 5.2 | | |
| MOX | e P | Z | 14:09:24.8 | 19.4 | 134.1 | 1.0 | 209 | 5.3 | | |
| STU | e P | Z | 14:09:24.5 | 19.4 | 125.3 | 0.8 | 167 | 5.3 | | |
| BFO | e P | Z | 14:09:27.9 | 19.6 | 122.7 | 1.1 | 212 | 5.3 | | |
| NEUB | e P | Z | 14:09:28.8 | 19.7 | 135.5 | 1.0 | 224 | 5.4 | | |
| RUE | e P | Z | 14:09:29.9 | 19.8 | 142.0 | 1.8 | 1235 | 5.8 | | |
| TNS | e P | Z | 14:09:38.0 | 20.6 | 127.2 | 1.1 | 316 | 5.6 | | |
| CLZ | e P | Z | 14:09:38.5 | 20.8 | 134.0 | 1.2 | 96 | 5.0 | | |
| NRDL | e P | Z | 14:09:47.8 | 21.3 | 134.7 | 1.1 | 172 | 5.3 | | |
| WLF | e P | Z | 14:09:48.8 | 21.5 | 122.0 | 0.9 | 121 | 5.3 | | |
| RGN | e P | Z | 14:09:47.9 | 21.7 | 144.4 | 0.7 | 386 | 5.9 | | |
| BUG | e P | Z | 14:09:53.5 | 22.0 | 127.6 | 1.4 | 340 | 5.6 | | |
| BSEG | e P | Z | 14:09:55.8 | 22.3 | 137.6 | 1.3 | 365 | 5.6 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/19 14:33:43.2 35.747N 27.933E 10.0G 4.3
 Dodecanese Islands, Greece SZGRF

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| GEC2 | e P | Z | 14:37:37.0 | 16.7 | 136.2 | 1.9 | 77 | 4.5 | | |
| WET | e P | Z | 14:37:43.7 | 17.3 | 135.0 | 1.8 | 68 | 4.5 | | |
| ROTZ | e P | Z | 14:37:52.7 | 18.1 | 134.9 | 1.3 | 20 | 4.1 | | |
| BRG | e P | Z | 14:37:53.9 | 18.2 | 141.0 | 2.1 | 75 | 4.4 | | |
| MANZ | e P | Z | 14:37:56.1 | 18.3 | 135.1 | 1.3 | 16 | 4.0 | | |
| FBE | e P | Z | 14:37:57.1 | 18.4 | 139.8 | 1.0 | 21 | 4.2 | | |
| GUNZ | e P | Z | 14:37:56.0 | 18.5 | 136.4 | 1.5 | 16 | 3.9 | | |
| GRA1 | e P | Z | 14:37:57.6 | 18.5 | 132.6 | 1.4 | 43 | 4.5 | | |
| PLN | e P | Z | 14:37:59.5 | 18.6 | 136.3 | 2.0 | 329 | 5.2 | | |
| CLL | e P | Z | 14:38:00.5 | 18.9 | 139.7 | 1.3 | 24 | 4.3 | | |
| MOX | e P | Z | 14:38:03.8 | 19.0 | 135.5 | 1.7 | 49 | 4.5 | | |
| BFO | e P | Z | 14:38:05.3 | 19.1 | 123.9 | 1.2 | 13 | 4.0 | | |
| NEUB | e P | Z | 14:38:08.5 | 19.3 | 136.9 | 2.1 | 72 | 4.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/19 | 18:13:20.7 | 64.000N | 22.000W | 2.0G | 4.3 | | | EMSC |

Iceland region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| TNS | e P | Z | 18:18:10.8 | 21.2 | 322.0 | 1.4 | 28 | 4.4 | | |
| NEUB | e P | Z | 18:18:15.7 | 21.7 | 318.9 | 1.2 | 22 | 4.5 | | |
| PLN | e P | Z | 18:18:21.3 | 22.5 | 319.9 | 1.3 | 48 | 4.9 | | |
| GUNZ | e P | Z | 18:18:23.0 | 22.6 | 320.0 | 0.8 | 4 | 4.0 | | |
| TANN | e P | Z | 18:18:24.9 | 22.6 | 319.9 | 1.2 | 12 | 4.3 | | |
| BFO | e P | Z | 18:18:24.2 | 22.6 | 324.9 | 1.1 | 10 | 4.3 | | |
| GRA1 | e P | Z | 18:18:26.4 | 22.7 | 321.5 | 0.9 | 11 | 4.4 | | |
| WERN | e P | Z | 18:18:27.1 | 22.7 | 320.1 | 1.4 | 9 | 4.1 | | |
| BRG | e P | Z | 18:18:27.5 | 22.9 | 318.6 | 1.1 | 6 | 4.1 | | |
| ROTZ | e P | Z | 18:18:30.5 | 23.0 | 320.9 | 1.6 | 18 | 4.3 | | |
| WET | e P | Z | 18:18:35.6 | 23.8 | 321.6 | 0.9 | 3 | 3.9 | | |
| RJOB | e P | Z | 18:18:46.0 | 24.9 | 323.5 | 0.9 | 8 | 4.5 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/19 | 23:52:12.6 | 40.037N | 143.947E | 33.0G | 4.8 | 4.3 | | SZGRF |

Off east coast of Honshu, Japan

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z | 00:04:07.8 | 77.9 | 34.5 | 1.2 | 30 | 5.3 | | |
| BRG | e P | Z | 00:04:13.8 | 79.1 | 36.7 | 1.0 | 8 | 4.7 | | |
| CLL | e P | Z | 00:04:13.6 | 79.1 | 36.1 | 0.9 | 12 | 4.9 | | |
| NRDL | e P | Z | 00:04:14.3 | 79.2 | 34.2 | 1.1 | 6 | 4.4 | | |
| FBE | e P | Z | 00:04:15.1 | 79.3 | 36.3 | 1.3 | 18 | 4.9 | | |
| CLZ | e P | Z | 00:04:17.1 | 79.6 | 34.3 | 1.0 | 8 | 4.6 | | |

| | | | | | | | | | |
|------|-----|---|------------|------|------|------|-----|-----|-----|
| NEUB | e P | Z | 00:04:16.7 | 79.7 | 35.2 | 1.0 | 15 | 4.9 | |
| WERD | e P | Z | 00:04:19.0 | 80.1 | 35.5 | 1.5 | 11 | 4.6 | |
| PLN | e P | Z | 00:04:19.2 | 80.1 | 35.4 | 1.5 | 49 | 5.2 | |
| IBBN | e P | Z | 00:04:19.5 | 80.1 | 32.5 | 0.9 | 11 | 4.8 | |
| GUNZ | e P | Z | 00:04:19.5 | 80.2 | 35.5 | 0.9 | 5 | 4.4 | |
| MOX | e P | Z | 00:04:19.6 | 80.2 | 35.1 | 1.1 | 6 | 4.5 | |
| WERN | e P | Z | 00:04:19.9 | 80.2 | 35.5 | 1.1 | 10 | 4.8 | |
| MANZ | e P | Z | 00:04:21.5 | 80.5 | 35.3 | 1.0 | 7 | 4.6 | |
| ROTZ | e P | Z | 00:04:22.7 | 80.7 | 35.4 | 1.3 | 10 | 4.7 | |
| GEC2 | e P | Z | 00:04:23.1 | 80.9 | 36.3 | 6.1 | 289 | 5.5 | |
| WET | e P | Z | 00:04:23.8 | 80.9 | 35.8 | 1.3 | 10 | 4.7 | |
| GRA1 | e P | Z | 00:04:25.0 | 81.1 | 34.7 | 1.1 | 20 | 5.1 | |
| | e L | Z | 00:45:53.4 | | | 19.1 | 118 | | 4.3 |
| RJOB | e P | Z | 00:04:30.0 | 82.1 | 35.6 | 1.2 | 10 | 4.9 | |
| STU | e P | Z | 00:04:32.5 | 82.6 | 33.2 | 0.9 | 9 | 5.0 | |
| BFO | e P | Z | 00:04:35.7 | 83.3 | 32.6 | 1.5 | 24 | 5.2 | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/20 02:52:57.7 39.822N 144.393E 33.1 5.3 5.3
 Off east coast of Honshu, Japan SZGRF

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| RUE | e P | Z | 03:04:59.2 | 78.3 | 36.5 | 1.2 | 65 | 5.5 | | |
| BSEG | e P | Z | 03:04:59.4 | 78.3 | 34.3 | 1.0 | 66 | 5.6 | | |
| CLL | e P | Z | 03:05:05.3 | 79.5 | 35.9 | 0.9 | 46 | 5.4 | | |
| | e pP | Z | 03:05:14.7 | | | | | | | |
| BRG | e P | Z | 03:05:05.5 | 79.5 | 36.5 | 1.0 | 28 | 5.1 | | |
| NRDL | e P | Z | 03:05:05.9 | 79.5 | 34.0 | 1.0 | 15 | 4.9 | | |
| FBE | e P | Z | 03:05:06.7 | 79.7 | 36.1 | 1.1 | 44 | 5.3 | | |
| | e pP | Z | 03:05:16.2 | | | | | | | |
| CLZ | e P | Z | 03:05:08.7 | 80.0 | 34.1 | 1.1 | 44 | 5.3 | | |
| | e pP | Z | 03:05:18.1 | | | | | | | |
| NEUB | e P | Z | 03:05:08.3 | 80.0 | 35.0 | 1.0 | 49 | 5.4 | | |
| | e pP | Z | 03:05:17.8 | | | | | | | |
| TANN | e P | Z | 03:05:10.6 | 80.4 | 35.4 | 1.0 | 11 | 4.8 | | |
| WERD | e P | Z | 03:05:10.7 | 80.4 | 35.3 | 1.1 | 20 | 5.1 | | |
| PLN | e P | Z | 03:05:10.9 | 80.5 | 35.2 | 1.5 | 129 | 5.7 | | |
| IBBN | e P | Z | 03:05:11.1 | 80.5 | 32.3 | 1.0 | 43 | 5.4 | | |
| GUNZ | e P | Z | 03:05:11.2 | 80.5 | 35.3 | 1.1 | 28 | 5.2 | | |
| | e pP | Z | 03:05:20.6 | | | | | | | |
| MOX | e P | Z | 03:05:11.1 | 80.5 | 34.9 | 1.1 | 26 | 5.2 | | |
| WERN | e P | Z | 03:05:11.5 | 80.6 | 35.3 | 0.9 | 29 | 5.3 | | |
| | e pP | Z | 03:05:21.6 | | | | | | | |
| MANZ | e P | Z | 03:05:13.1 | 80.9 | 35.1 | 1.0 | 23 | 5.2 | | |
| ROTZ | e P | Z | 03:05:14.3 | 81.0 | 35.2 | 1.3 | 37 | 5.3 | | |
| GEC2 | e P | Z | 03:05:14.5 | 81.2 | 36.1 | 1.2 | 15 | 5.0 | | |
| WET | e P | Z | 03:05:15.4 | 81.3 | 35.6 | 1.2 | 27 | 5.3 | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

54

| | | | | | | | | | | |
|------|------|---|------------|------|------|------|------|-----|-----|--|
| BUG | e P | Z | 03:05:15.6 | 81.4 | 31.9 | 1.1 | 25 | 5.3 | | |
| GRA1 | e P | Z | 03:05:16.6 | 81.5 | 34.5 | 1.0 | 67 | 5.7 | | |
| | e L | Z | 03:46:45.7 | | | 18.6 | 1118 | | 5.3 | |
| TNS | e P | Z | 03:05:19.1 | 82.0 | 32.6 | 1.1 | 21 | 5.2 | | |
| RJOB | e P | Z | 03:05:21.8 | 82.5 | 35.4 | 1.0 | 40 | 5.6 | | |
| FUR | e P | Z | 03:05:22.9 | 82.7 | 34.4 | 1.2 | 56 | 5.6 | | |
| STU | e P | Z | 03:05:23.9 | 83.0 | 33.0 | 0.9 | 36 | 5.6 | | |
| | e pP | Z | 03:05:33.6 | | | | | | | |
| WLF | e P | Z | 03:05:25.2 | 83.3 | 31.0 | 1.9 | 61 | 5.5 | | |
| BFO | e P | Z | 03:05:27.4 | 83.6 | 32.4 | 1.6 | 71 | 5.6 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/20 | 08:28:18.5 | 37.630N | 27.510E | 10.0G | 4.4 | | | SZGRF |

Turkey

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| GEC2 | e P | Z | 08:31:57.1 | 15.0 | 133.2 | 1.1 | 16 | | | |
| WET | e P | Z | 08:32:03.1 | 15.6 | 132.0 | 1.4 | 33 | | | |
| ROTZ | e P | Z | 08:32:10.3 | 16.4 | 132.1 | 1.2 | 17 | | | |
| BRG | e P | Z | 08:32:11.9 | 16.4 | 138.8 | 2.0 | 110 | 4.6 | | |
| WERN | e P | Z | 08:32:14.5 | 16.6 | 133.8 | 1.0 | 16 | | | |
| FBE | e P | Z | 08:32:15.3 | 16.7 | 137.5 | 1.2 | 54 | 4.6 | | |
| TANN | e P | Z | 08:32:15.2 | 16.7 | 134.3 | 1.2 | 22 | | | |
| GUNZ | e P | Z | 08:32:15.6 | 16.7 | 133.8 | 1.5 | 35 | | | |
| GRA1 | e P | Z | 08:32:16.0 | 16.8 | 129.7 | 1.3 | 22 | | | |
| PLN | e P | Z | 08:32:17.5 | 16.9 | 133.7 | 1.2 | 150 | | | |
| CLL | e P | Z | 08:32:19.9 | 17.1 | 137.5 | 1.2 | 22 | 4.2 | | |
| NEUB | e P | Z | 08:32:25.6 | 17.5 | 134.6 | 1.4 | 59 | | | |
| BFO | e P | Z | 08:32:25.4 | 17.6 | 120.4 | 1.1 | 23 | 4.2 | | |
| TNS | e P | Z | 08:32:34.8 | 18.5 | 125.5 | 1.4 | 39 | | | |
| CLZ | e P | Z | 08:32:36.1 | 18.6 | 133.0 | 1.4 | 39 | 4.4 | | |
| NRDL | e P | Z | 08:32:42.7 | 19.2 | 133.9 | 1.2 | 25 | | | |
| WLF | e P | Z | 08:32:46.7 | 19.5 | 120.1 | 1.5 | 45 | | | |
| IBBN | e P | Z | 08:32:55.4 | 20.1 | 129.0 | 1.1 | 39 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|----------|-------|-----|----|----|--------|
| 2009/06/20 | 09:21:26.7 | 4.780S | 103.130E | 58.9 | 5.6 | | | NEIC |

Southern Sumatera, Indonesia

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 09:34:34.3 | 93.2 | 93.6 | 0.8 | 36 | 5.9 | | |
| | e pP | Z | 09:34:51.2 | | | | | | | |
| | e PP | Z | 09:38:18.0 | | | | | | | |
| GEC2 | e P | Z | 09:34:34.5 | 93.2 | 93.6 | 0.9 | 29 | 5.7 | | |
| | e pP | Z | 09:34:51.4 | | | | | | | |

| | | | | | | | | | | |
|------|------|---|------------|------|------|-----|----|-----|--|--|
| | e PP | Z | 09:38:19.5 | | | | | | | |
| RUE | e P | Z | 09:34:35.3 | 93.4 | 93.4 | 1.1 | 51 | 5.9 | | |
| FBE | e P | Z | 09:34:36.3 | 93.6 | 93.2 | 0.9 | 32 | 5.7 | | |
| | e pP | Z | 09:34:53.0 | | | | | | | |
| RJOB | e P | Z | 09:34:36.2 | 93.8 | 93.0 | 1.0 | 14 | 5.2 | | |
| WET | e P | Z | 09:34:37.1 | 93.8 | 92.9 | 0.9 | 32 | 5.6 | | |
| | e pP | Z | 09:34:53.4 | | | | | | | |
| CLL | e P | Z | 09:34:36.6 | 93.8 | 92.9 | 1.1 | 25 | 5.4 | | |
| | e pP | Z | 09:34:53.3 | | | | | | | |
| TANN | e P | Z | 09:34:38.4 | 94.1 | 92.5 | 0.9 | 13 | 5.3 | | |
| WERN | e P | Z | 09:34:38.8 | 94.2 | 92.5 | 0.9 | 15 | 5.3 | | |
| GUNZ | e P | Z | 09:34:39.0 | 94.2 | 92.4 | 0.9 | 23 | 5.5 | | |
| | e PP | Z | 09:38:26.1 | | | | | | | |
| WERD | e P | Z | 09:34:38.9 | 94.2 | 92.4 | 0.9 | 21 | 5.5 | | |
| | e pP | Z | 09:34:55.8 | | | | | | | |
| | e PP | Z | 09:38:26.0 | | | | | | | |
| ROTZ | e P | Z | 09:34:39.6 | 94.2 | 92.4 | 0.9 | 23 | 5.5 | | |
| | e pP | Z | 09:34:56.2 | | | | | | | |
| | e PP | Z | 09:38:25.8 | | | | | | | |
| PLN | e P | Z | 09:34:39.4 | 94.3 | 92.3 | 0.9 | 96 | 6.1 | | |
| | e PP | Z | 09:38:27.3 | | | | | | | |
| MANZ | e P | Z | 09:34:39.8 | 94.3 | 92.3 | 1.0 | 34 | 5.6 | | |
| | e pP | Z | 09:34:56.7 | | | | | | | |
| | e PP | Z | 09:38:26.8 | | | | | | | |
| NEUB | e P | Z | 09:34:40.4 | 94.6 | 91.9 | 1.0 | 49 | 5.9 | | |
| MOX | e P | Z | 09:34:40.9 | 94.7 | 91.9 | 0.9 | 17 | 5.4 | | |
| | e pP | Z | 09:34:57.7 | | | | | | | |
| | e PP | Z | 09:38:29.0 | | | | | | | |
| GRA1 | e P | Z | 09:34:42.3 | 94.9 | 91.6 | 0.9 | 29 | 5.7 | | |
| CLZ | e P | Z | 09:34:44.5 | 95.5 | 90.8 | 1.0 | 17 | 5.4 | | |
| BSEG | e P | Z | 09:34:44.7 | 95.5 | 90.5 | 1.2 | 34 | 5.7 | | |
| NRDL | e P | Z | 09:34:45.4 | 95.6 | 90.5 | 1.1 | 22 | 5.6 | | |
| UBBA | e P | Z | 09:34:45.3 | 95.7 | 90.6 | 1.5 | 22 | 5.5 | | |
| TNS | e P | Z | 09:34:50.2 | 96.7 | 89.5 | 0.9 | 25 | 5.8 | | |
| BFO | e P | Z | 09:34:50.0 | 96.8 | 89.6 | 1.0 | 10 | 5.4 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/20 | 22:42:51.2 | 17.250S | 173.840W | 86.9 | | | | SZGRF |
| Tonga Islands | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|--------------|-------|------|------|-------|----|----|----|
| IBBN | e PKPbc | Z 23:02:16.8 | 144.9 | 2.7 | | | | | |
| CLZ | e PKPbc | Z 23:02:17.9 | 145.2 | 7.1 | | | | | |
| CLL | e PKPbc | Z 23:02:18.6 | 145.5 | 11.6 | | | | | |
| NEUB | e PKPbc | Z 23:02:19.1 | 145.7 | 9.6 | | | | | |
| BUG | e PKPbc | Z 23:02:19.1 | 145.8 | 1.9 | | | | | |
| BRG | e PKPbc | Z 23:02:19.3 | 145.8 | 13.3 | | | | | |

| | | | | | | |
|------|---|--------|---|------------|-------|-------|
| FBE | e | PKPbc | Z | 23:02:19.8 | 145.8 | 12.3 |
| UBBA | e | PKPbc | Z | 23:02:20.8 | 146.3 | 6.6 |
| MOX | e | PKPbc | Z | 23:02:21.1 | 146.3 | 9.4 |
| PLN | e | PKPbc | Z | 23:02:21.4 | 146.4 | 10.4 |
| | e | sPKPbc | Z | 23:02:54.7 | | |
| WERD | e | PKPbc | Z | 23:02:21.6 | 146.4 | 10.7 |
| | e | sPKPbc | Z | 23:02:54.7 | | |
| TANN | e | PKPbc | Z | 23:02:21.7 | 146.5 | 10.9 |
| GUNZ | e | PKPbc | Z | 23:02:22.0 | 146.5 | 10.7 |
| | e | sPKPbc | Z | 23:02:55.5 | | |
| WERN | e | PKPbc | Z | 23:02:22.3 | 146.6 | 10.8 |
| | e | sPKPbc | Z | 23:02:55.9 | | |
| MANZ | e | PKPbc | Z | 23:02:23.2 | 146.9 | 10.4 |
| TNS | e | PKPbc | Z | 23:02:23.3 | 147.0 | 4.0 |
| ROTZ | e | PKPbc | Z | 23:02:23.9 | 147.1 | 10.7 |
| WLF | e | PKPbc | Z | 23:02:25.5 | 147.6 | 360.0 |
| GEC2 | e | PKPbc | Z | 23:02:25.7 | 147.8 | 13.6 |
| STU | e | PKPbc | Z | 23:02:27.2 | 148.4 | 5.5 |
| FUR | e | PKPbc | Z | 23:02:28.5 | 148.8 | 9.5 |
| BFO | e | PKPbc | Z | 23:02:28.5 | 148.9 | 4.0 |
| RJOB | e | PKPbc | Z | 23:02:28.9 | 149.0 | 12.4 |

Date 2009/06/21 Origin Time 02:37:25.1 Lat 52.300N Long 168.700W Depth 39.0 mb 4.7 Ms ML Source NEIC
 Fox Islands, Aleutian Islands, United States

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| CLZ | e P | Z 02:49:10.5 | 75.9 | 359.4 | 1.1 | 9 | 4.8 | | |
| CLL | e P | Z 02:49:12.8 | 76.4 | 1.1 | 1.1 | 4 | 4.5 | | |
| MOX | e P | Z 02:49:17.0 | 77.1 | 0.2 | 1.1 | 6 | 4.7 | | |
| GRA1 | e P | Z 02:49:23.0 | 78.0 | 360.0 | 1.1 | 10 | 4.9 | | |
| GEC2 | e P | Z 02:49:27.1 | 78.8 | 1.5 | 1.2 | 5 | 4.4 | | |
| RJOB | e P | Z 02:49:33.2 | 80.0 | 0.9 | 1.3 | 11 | 4.6 | | |
| WTTA | e P | Z 02:49:36.2 | 80.4 | 0.2 | 1.0 | 7 | 4.6 | | |
| KBA | e P | Z 02:49:37.6 | 80.6 | 1.3 | 1.1 | 19 | 5.0 | | |

Date 2009/06/21 Origin Time 10:54:38.3 Lat 44.087N Long 15.308E Depth 10.0G mb Ms ML Source SZGRF
 Northwestern Balkan Peninsula

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|-----|
| OBKA | e Pn | Z 10:55:17.6 | 2.5 | 167.3 | | | | | 4.1 |
| ARSA | e Pn | Z 10:55:26.1 | 3.2 | 182.8 | | | | | 3.8 |
| | e Sn | N 10:56:00.3 | | | | | | | |
| KBA | e Pn | Z 10:55:28.9 | 3.3 | 154.6 | | | | | 3.8 |

| | | | | | | |
|------|------|---|------------|-----|-------|-----|
| MOA | e Pn | Z | 10:55:35.8 | 3.8 | 168.7 | 4.1 |
| RJOB | e Pn | Z | 10:55:39.7 | 4.0 | 153.5 | 3.9 |
| WTTA | e Pn | Z | 10:55:40.6 | 4.1 | 139.7 | 4.2 |
| GEC2 | e Pn | Z | 10:55:49.8 | 4.9 | 166.3 | 3.9 |
| | e Sn | N | 10:56:43.2 | | | |
| FUR | e Pn | Z | 10:55:51.2 | 4.9 | 144.1 | |
| | e Pg | Z | 10:56:08.3 | | | |
| | e Sg | N | 10:57:15.3 | | | |
| DAVA | e Pn | Z | 10:55:53.3 | 5.0 | 128.2 | |
| WET | e Pn | Z | 10:55:55.7 | 5.3 | 160.8 | |
| ROTZ | e Pn | Z | 10:56:05.3 | 6.1 | 158.4 | |
| GRA1 | e Pn | Z | 10:56:09.5 | 6.3 | 152.0 | |
| MANZ | e Pn | Z | 10:56:08.4 | 6.3 | 158.5 | |
| | e Sn | N | 10:57:16.2 | | | |
| BFO | e Pn | Z | 10:56:11.4 | 6.4 | 128.7 | |
| | e Pg | Z | 10:56:36.4 | | | |
| WERN | e Pn | Z | 10:56:11.6 | 6.5 | 161.1 | |
| GUNZ | e Pn | Z | 10:56:12.6 | 6.6 | 161.0 | |
| TANN | e Pn | Z | 10:56:13.8 | 6.6 | 162.0 | |
| WERD | e Pn | Z | 10:56:14.2 | 6.7 | 161.1 | |
| PLN | e Pn | Z | 10:56:15.1 | 6.7 | 160.4 | |
| BRG | e Sn | N | 10:57:28.4 | 6.8 | 171.7 | |
| MOX | e Pn | Z | 10:56:18.1 | 7.0 | 157.7 | |
| | e Sn | N | 10:57:33.5 | | | |
| CLL | e Pn | Z | 10:56:24.7 | 7.4 | 167.0 | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-------------------------------|-------------|---------|---------|-------|----|----|-----|--------|
| 2009/06/21 | 11:20: 1.5 | 43.229N | 17.744E | 10.0G | | | 5.2 | SZGRF |
| Northwestern Balkan Peninsula | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|-----|
| OBKA | e Pn | Z | 11:21:01.3 | 4.0 | 144.2 | | | | | 5.5 |
| ARSA | e Pn | Z | 11:21:05.8 | 4.3 | 158.0 | | | | | 4.9 |
| | e Sn | E | 11:21:51.9 | | | | | | | |
| KBA | e Pn | Z | 11:21:15.2 | 4.9 | 139.6 | | | | | 5.1 |
| | e Sn | E | 11:22:09.0 | | | | | | | |
| MOA | e Pn | Z | 11:21:19.0 | 5.2 | 150.9 | | | | | 5.3 |
| | e Sn | E | 11:22:15.3 | | | | | | | |
| RJOB | e Pn | Z | 11:21:25.9 | 5.7 | 140.6 | | | | | 5.1 |
| | e Sn | N | 11:22:28.4 | | | | | | | |
| WTTA | e Pn | Z | 11:21:27.9 | 5.9 | 131.0 | | | | | |
| GEC2 | e Pn | Z | 11:21:32.9 | 6.3 | 152.0 | | | | | |
| | e Sn | E | 11:22:39.6 | | | | | | | |
| FUR | e Pn | Z | 11:21:38.5 | 6.7 | 135.2 | | | | | |
| WET | e Pn | Z | 11:21:40.4 | 6.8 | 148.6 | | | | | |
| DAVA | e Pn | Z | 11:21:41.2 | 6.9 | 123.4 | | | | | |
| ROTZ | e Pn | Z | 11:21:50.2 | 7.6 | 147.7 | | | | | |

| | | | | | |
|------|------|---|------------|------|-------|
| | e Sn | N | 11:23:09.3 | | |
| MANZ | e Pn | Z | 11:21:52.9 | 7.8 | 148.1 |
| GRA1 | e Pn | Z | 11:21:54.2 | 7.9 | 142.8 |
| WERN | e Pn | Z | 11:21:56.0 | 8.0 | 150.5 |
| GUNZ | e Pn | Z | 11:21:57.0 | 8.0 | 150.5 |
| TANN | e Pn | Z | 11:21:57.2 | 8.0 | 151.3 |
| BRG | e Pn | Z | 11:21:58.5 | 8.1 | 159.9 |
| STU | e Pn | Z | 11:21:57.1 | 8.1 | 129.9 |
| | e Sn | E | 11:23:23.1 | | |
| WERD | e Pn | Z | 11:21:58.2 | 8.1 | 150.7 |
| PLN | e Pn | Z | 11:21:59.4 | 8.2 | 150.2 |
| FBE | e Pn | Z | 11:22:00.2 | 8.2 | 157.1 |
| BFO | e Pn | Z | 11:21:59.1 | 8.3 | 124.4 |
| MOX | e Pn | Z | 11:22:03.7 | 8.5 | 148.3 |
| CLL | e Pn | Z | 11:22:05.9 | 8.7 | 156.5 |
| TNS | e Pn | Z | 11:22:16.0 | 9.4 | 134.2 |
| CLZ | e Pn | Z | 11:22:25.1 | 9.9 | 147.2 |
| WLF | e Pn | Z | 11:22:28.8 | 10.2 | 124.5 |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/21 12:27: 6.8 76.400N 7.100E 10.0 5.3 4.4
 Svalbard, Norway, region NEIC

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|-----|----|
| BSEG | e P | Z 12:32:05.6 | 22.5 | 358.0 | 0.9 | 362 | 5.9 | | |
| NRDL | e P | Z 12:32:19.5 | 23.9 | 358.3 | 1.0 | 118 | 5.4 | | |
| RUE | e P | Z 12:32:19.8 | 24.1 | 356.2 | 1.1 | 70 | 5.1 | | |
| CLZ | e P | Z 12:32:25.9 | 24.6 | 358.2 | 1.0 | 70 | 5.4 | | |
| BUG | e P | Z 12:32:28.1 | 25.0 | 359.9 | 1.0 | 90 | 5.5 | | |
| CLL | e P | Z 12:32:29.8 | 25.2 | 356.7 | 1.1 | 32 | 5.0 | | |
| NEUB | e P | Z 12:32:30.8 | 25.3 | 357.4 | 1.0 | 237 | 5.9 | | |
| FBE | e P | Z 12:32:33.8 | 25.6 | 356.6 | 0.9 | 178 | 5.7 | | |
| BRG | e P | Z 12:32:34.3 | 25.7 | 356.3 | 1.0 | 58 | 5.2 | | |
| MOX | e P | Z 12:32:36.1 | 25.8 | 357.6 | 0.9 | 117 | 5.5 | | |
| PLN | e P | Z 12:32:37.9 | 26.0 | 357.3 | 1.0 | 366 | 6.0 | | |
| WERD | e P | Z 12:32:38.1 | 26.0 | 357.2 | 1.0 | 63 | 5.2 | | |
| TANN | e P | Z 12:32:38.7 | 26.1 | 357.1 | 1.0 | 62 | 5.2 | | |
| GUNZ | e P | Z 12:32:39.1 | 26.1 | 357.2 | 1.0 | 61 | 5.2 | | |
| TNS | e P | Z 12:32:40.5 | 26.2 | 359.3 | 0.9 | 48 | 5.1 | | |
| WERN | e P | Z 12:32:39.9 | 26.2 | 357.2 | 1.0 | 139 | 5.5 | | |
| MANZ | e P | Z 12:32:44.3 | 26.5 | 357.4 | 1.0 | 30 | 5.0 | | |
| ROTZ | e P | Z 12:32:44.7 | 26.7 | 357.3 | 1.0 | 48 | 5.2 | | |
| GRA1 | e P | Z 12:32:44.9 | 26.8 | 357.8 | 1.0 | 79 | 5.4 | | |
| | e L | Z 12:43:23.1 | | | 19.3 | 980 | | 4.4 | |
| WET | e P | Z 12:32:50.7 | 27.4 | 357.0 | 1.0 | 36 | 5.1 | | |
| STU | e P | Z 12:32:52.7 | 27.6 | 358.9 | 1.0 | 36 | 5.1 | | |
| GEC2 | e P | Z 12:32:53.7 | 27.7 | 356.7 | 1.1 | 54 | 5.3 | | |

| | | | | | | | | | | |
|------|-----|---|------------|------|-------|-----|----|-----|--|--|
| RJOB | e P | Z | 12:33:03.0 | 28.8 | 357.2 | 0.9 | 33 | 5.1 | | |
|------|-----|---|------------|------|-------|-----|----|-----|--|--|

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/21 | 13:46:3.5 | 36.426N | 70.886E | 189.0 | 4.7 | | | NEIC |

Hindu Kush, Afghanistan, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| GRA1 | e P | Z | 13:53:55.9 | 44.3 | 83.9 | 1.7 | 25 | 4.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/21 | 14:01:55.0 | 19.946S | 178.783W | 33.0N | | | | SZGRF |

Fiji Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 14:21:29.7 | 145.3 | 15.1 | | | | | |
| CLL | e PKPbc | Z | 14:21:35.1 | 147.3 | 20.8 | | | | | |
| BRG | e PKPbc | Z | 14:21:35.7 | 147.5 | 22.7 | | | | | |
| TANN | e PKPbc | Z | 14:21:37.7 | 148.3 | 20.4 | | | | | |
| PLN | e PKPbc | Z | 14:21:37.6 | 148.3 | 19.8 | | | | | |
| WERD | e PKPbc | Z | 14:21:37.7 | 148.3 | 20.1 | | | | | |
| GUNZ | e PKPbc | Z | 14:21:38.0 | 148.3 | 20.2 | | | | | |
| MANZ | e PKPbc | Z | 14:21:38.9 | 148.7 | 20.0 | | | | | |
| GEC2 | e PKPbc | Z | 14:21:40.2 | 149.4 | 23.5 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/22 | 23:10:3.2 | 11.320N | 94.570E | 29.5 | 4.9 | 4.5 | | SZGRF |

Andaman Islands, India, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 23:21:45.1 | 75.3 | 90.0 | 0.8 | 8 | 4.8 | | |
| RUE | e P | Z | 23:21:45.5 | 75.4 | 90.3 | 0.7 | 29 | 5.5 | | |
| GEC2 | e P | Z | 23:21:46.2 | 75.5 | 89.3 | 0.8 | 9 | 5.0 | | |
| FBE | e P | Z | 23:21:47.5 | 75.7 | 89.6 | 0.9 | 18 | 5.2 | | |
| | e pP | Z | 23:21:56.4 | | | | | | | |
| WET | e P | Z | 23:21:49.2 | 76.0 | 88.7 | 1.0 | 7 | 4.7 | | |
| RJOB | e P | Z | 23:21:49.2 | 76.1 | 88.3 | 1.3 | 8 | 4.7 | | |
| TANN | e P | Z | 23:21:50.3 | 76.3 | 88.7 | 1.5 | 13 | 4.8 | | |
| WERN | e P | Z | 23:21:50.8 | 76.3 | 88.6 | 1.2 | 6 | 4.6 | | |
| GUNZ | e P | Z | 23:21:51.0 | 76.4 | 88.6 | 1.4 | 9 | 4.7 | | |
| | e pP | Z | 23:21:59.0 | | | | | | | |
| WERD | e P | Z | 23:21:50.9 | 76.4 | 88.6 | 0.9 | 6 | 4.7 | | |
| ROTZ | e P | Z | 23:21:52.0 | 76.5 | 88.4 | 1.6 | 19 | 5.0 | | |
| MANZ | e P | Z | 23:21:52.2 | 76.5 | 88.4 | 1.0 | 7 | 4.8 | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

60

| | | | | | | | | | |
|------|------|---|------------|------|------|------|-----|-----|-----|
| NEUB | e P | Z | 23:21:52.6 | 76.7 | 88.4 | 1.3 | 19 | 5.1 | |
| | e pP | Z | 23:22:01.6 | | | | | | |
| MOX | e P | Z | 23:21:53.4 | 76.8 | 88.1 | 0.8 | 6 | 4.7 | |
| | e pP | Z | 23:22:02.3 | | | | | | |
| GRA1 | e P | Z | 23:21:55.5 | 77.1 | 87.6 | 0.8 | 8 | 4.9 | |
| BSEG | e P | Z | 23:21:57.3 | 77.5 | 87.9 | 1.0 | 31 | 5.4 | |
| | e pP | Z | 23:22:05.3 | | | | | | |
| CLZ | e P | Z | 23:21:57.6 | 77.5 | 87.5 | 0.8 | 13 | 5.1 | |
| | e pP | Z | 23:22:05.4 | | | | | | |
| NRDL | e P | Z | 23:21:58.5 | 77.7 | 87.4 | 1.8 | 56 | 5.4 | |
| TNS | e P | Z | 23:22:04.9 | 78.9 | 85.6 | 0.8 | 4 | 4.5 | |
| BFO | e P | Z | 23:22:05.7 | 79.1 | 85.2 | 1.4 | 6 | 4.4 | |
| | e pP | Z | 23:22:14.6 | | | | | | |
| IBBN | e P | Z | 23:22:06.4 | 79.1 | 85.5 | 1.0 | 21 | 5.1 | |
| BUG | e P | Z | 23:22:08.4 | 79.5 | 85.0 | 0.9 | 14 | 4.9 | |
| | e pP | Z | 23:22:17.3 | | | | | | |
| WLF | e P | Z | 23:22:13.3 | 80.4 | 83.8 | 2.0 | 49 | 5.1 | |
| GRA1 | e L | Z | 00:00:02.6 | 77.1 | 87.6 | 21.6 | 236 | | 4.5 |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/22 15:24:44.7 76.400N 6.900E 10.0 4.8 NEIC

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| BSEG | e P | Z 15:29:45.2 | 22.5 | 357.9 | | | | | |
| NRDL | e P | Z 15:29:58.5 | 23.9 | 358.1 | 1.3 | 63 | 5.0 | | |
| CLZ | e P | Z 15:30:04.9 | 24.6 | 358.0 | 1.2 | 24 | 4.8 | | |
| BUG | e P | Z 15:30:08.5 | 25.0 | 359.8 | 1.1 | 31 | 5.0 | | |
| CLL | e P | Z 15:30:09.2 | 25.2 | 356.6 | 1.1 | 8 | 4.3 | | |
| NEUB | e P | Z 15:30:11.3 | 25.3 | 357.3 | 1.1 | 57 | 5.2 | | |
| FBE | e P | Z 15:30:13.2 | 25.6 | 356.5 | 1.0 | 38 | 5.0 | | |
| UBBA | e P | Z 15:30:13.6 | 25.6 | 358.3 | 1.7 | 42 | 4.8 | | |
| BRG | e P | Z 15:30:13.7 | 25.7 | 356.2 | 1.2 | 21 | 4.6 | | |
| MOX | e P | Z 15:30:15.5 | 25.8 | 357.5 | 1.1 | 32 | 4.9 | | |
| PLN | e P | Z 15:30:17.1 | 26.0 | 357.2 | 1.4 | 213 | 5.6 | | |
| WERD | e P | Z 15:30:17.4 | 26.0 | 357.1 | 1.6 | 37 | 4.8 | | |
| TANN | e P | Z 15:30:18.0 | 26.1 | 357.0 | 1.7 | 47 | 4.8 | | |
| GUNZ | e P | Z 15:30:18.4 | 26.1 | 357.1 | 1.4 | 37 | 4.8 | | |
| WERN | e P | Z 15:30:19.2 | 26.2 | 357.1 | 1.2 | 43 | 5.0 | | |
| ROTZ | e P | Z 15:30:24.0 | 26.7 | 357.2 | 1.3 | 18 | 4.6 | | |
| WET | e P | Z 15:30:30.3 | 27.4 | 356.9 | 1.7 | 23 | 4.6 | | |
| GEC2 | e P | Z 15:30:33.0 | 27.7 | 356.6 | 1.4 | 23 | 4.8 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/22 16:58:37.2 21.600S 177.830W 33.0G SZGRF

Fiji Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 17:18:16.5 | 147.1 | 14.0 | | | | | |
| RUE | e PKPbc | Z | 17:18:18.5 | 147.9 | 20.6 | | | | | |
| NRDL | e PKPbc | Z | 17:18:20.3 | 148.5 | 14.2 | | | | | |
| CLZ | e PKPbc | Z | 17:18:22.3 | 149.1 | 15.0 | | | | | |
| | e PKPab | Z | 17:18:26.1 | | | | | | | |
| CLL | e PKPbc | Z | 17:18:22.0 | 149.1 | 19.9 | | | | | |
| | e PKPab | Z | 17:18:26.1 | | | | | | | |
| BRG | e PKPbc | Z | 17:18:22.6 | 149.3 | 21.8 | | | | | |
| | e PKPab | Z | 17:18:27.2 | | | | | | | |
| FBE | e PKPbc | Z | 17:18:23.1 | 149.4 | 20.8 | | | | | |
| | e PKPab | Z | 17:18:27.8 | | | | | | | |
| NEUB | e PKPbc | Z | 17:18:23.0 | 149.5 | 17.8 | | | | | |
| | e PKPab | Z | 17:18:27.8 | | | | | | | |
| MOX | e PKPbc | Z | 17:18:24.3 | 150.0 | 17.8 | | | | | |
| | e PKPab | Z | 17:18:29.9 | | | | | | | |
| PLN | e PKPbc | Z | 17:18:24.5 | 150.1 | 18.9 | | | | | |
| | e PKPab | Z | 17:18:30.3 | | | | | | | |
| TANN | e PKPbc | Z | 17:18:24.6 | 150.1 | 19.4 | | | | | |
| | e PKPab | Z | 17:18:30.4 | | | | | | | |
| WERD | e PKPbc | Z | 17:18:24.6 | 150.1 | 19.1 | | | | | |
| | e PKPab | Z | 17:18:30.4 | | | | | | | |
| UBBA | e PKPbc | Z | 17:18:24.5 | 150.1 | 14.7 | | | | | |
| GUNZ | e PKPbc | Z | 17:18:24.9 | 150.1 | 19.2 | | | | | |
| | e PKPab | Z | 17:18:30.8 | | | | | | | |
| WERN | e PKPbc | Z | 17:18:25.0 | 150.2 | 19.4 | | | | | |
| | e PKPab | Z | 17:18:31.3 | | | | | | | |
| MANZ | e PKPbc | Z | 17:18:25.9 | 150.6 | 19.0 | | | | | |
| ROTZ | e PKPbc | Z | 17:18:26.3 | 150.7 | 19.4 | | | | | |
| | e PKPab | Z | 17:18:33.5 | | | | | | | |
| TNS | e PKPbc | Z | 17:18:26.8 | 151.0 | 12.1 | | | | | |
| | e PKPab | Z | 17:18:34.1 | | | | | | | |
| GRA1 | e PKPab | Z | 17:18:34.8 | 151.0 | 17.6 | | | | | |
| WET | e PKPbc | Z | 17:18:27.1 | 151.2 | 21.0 | | | | | |
| | e PKPab | Z | 17:18:35.2 | | | | | | | |
| GEC2 | e PKPbc | Z | 17:18:27.2 | 151.2 | 22.7 | | | | | |
| WLF | e PKPbc | Z | 17:18:29.3 | 151.8 | 7.8 | | | | | |
| STU | e PKPbc | Z | 17:18:29.8 | 152.3 | 14.1 | | | | | |
| | e PKPab | Z | 17:18:39.4 | | | | | | | |
| FUR | e PKPbc | Z | 17:18:30.0 | 152.5 | 18.6 | | | | | |
| | e PKPab | Z | 17:18:40.7 | | | | | | | |
| RJOB | e PKPbc | Z | 17:18:29.7 | 152.5 | 21.8 | | | | | |
| | e PKPab | Z | 17:18:41.2 | | | | | | | |
| BFO | e PKPbc | Z | 17:18:30.9 | 152.8 | 12.6 | | | | | |
| | e PKPab | Z | 17:18:41.8 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------|-------------|---------|--------|-------|-----|-----|----|--------|
| 2009/06/22 | 18:15:47.4 | 75.720N | 7.440E | 27.7 | 5.4 | 4.4 | | NEIC |
| Greenland Sea | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| RGN | e P | Z | 18:20:33.5 | 21.3 | 356.0 | 1.3 | 333 | 5.5 | | |
| HLG | e P | Z | 18:20:36.0 | 21.5 | 359.7 | 1.5 | 595 | 5.8 | | |
| BSEG | e P | Z | 18:20:39.1 | 21.8 | 358.1 | | | | | |
| NRDL | e P | Z | 18:20:54.0 | 23.2 | 358.3 | 1.7 | 340 | 5.6 | | |
| | e pP | Z | 18:21:00.8 | | | | | | | |
| RUE | e P | Z | 18:20:54.9 | 23.4 | 356.1 | 1.6 | 197 | 5.4 | | |
| IBBN | e P | Z | 18:20:55.4 | 23.4 | 359.8 | 1.3 | 94 | 5.2 | | |
| | e pP | Z | 18:21:02.0 | | | | | | | |
| CLZ | e P | Z | 18:21:00.4 | 23.9 | 358.2 | 1.2 | 55 | 5.0 | | |
| | e pP | Z | 18:21:07.3 | | | | | | | |
| BUG | e P | Z | 18:21:03.3 | 24.3 | 0.1 | 1.5 | 258 | 5.5 | | |
| | e pP | Z | 18:21:10.4 | | | | | | | |
| CLL | e P | Z | 18:21:05.0 | 24.5 | 356.7 | 1.2 | 61 | 5.2 | | |
| NEUB | e P | Z | 18:21:06.0 | 24.6 | 357.4 | 1.1 | 204 | 5.8 | | |
| | e pP | Z | 18:21:13.0 | | | | | | | |
| FBE | e P | Z | 18:21:09.1 | 24.9 | 356.5 | 1.3 | 195 | 5.7 | | |
| | e pP | Z | 18:21:16.0 | | | | | | | |
| UBBA | e P | Z | 18:21:09.1 | 24.9 | 358.5 | 1.5 | 156 | 5.5 | | |
| BRG | e P | Z | 18:21:09.5 | 25.0 | 356.2 | 1.5 | 116 | 5.4 | | |
| | e pP | Z | 18:21:16.6 | | | | | | | |
| MOX | e P | Z | 18:21:11.3 | 25.1 | 357.6 | 1.2 | 181 | 5.7 | | |
| | e pP | Z | 18:21:18.3 | | | | | | | |
| PLN | e P | Z | 18:21:12.9 | 25.3 | 357.3 | 1.5 | 891 | 6.3 | | |
| | e pP | Z | 18:21:19.9 | | | | | | | |
| WERD | e P | Z | 18:21:13.2 | 25.3 | 357.2 | 1.4 | 141 | 5.5 | | |
| | e pP | Z | 18:21:20.4 | | | | | | | |
| TANN | e P | Z | 18:21:13.5 | 25.4 | 357.1 | 1.5 | 169 | 5.5 | | |
| | e pP | Z | 18:21:20.9 | | | | | | | |
| GUNZ | e P | Z | 18:21:14.2 | 25.4 | 357.2 | 1.5 | 201 | 5.5 | | |
| | e pP | Z | 18:21:20.3 | | | | | | | |
| TNS | e P | Z | 18:21:14.6 | 25.5 | 359.4 | 1.2 | 51 | 5.0 | | |
| WERN | e P | Z | 18:21:15.1 | 25.5 | 357.2 | 1.4 | 262 | 5.7 | | |
| | e pP | Z | 18:21:21.3 | | | | | | | |
| MANZ | e P | Z | 18:21:17.2 | 25.8 | 357.4 | 1.5 | 72 | 5.1 | | |
| ROTZ | e P | Z | 18:21:19.7 | 26.0 | 357.3 | 1.4 | 69 | 5.1 | | |
| WLF | e P | Z | 18:21:19.9 | 26.1 | 0.7 | 1.6 | 55 | 4.9 | | |
| GRA1 | e P | Z | 18:21:20.1 | 26.1 | 357.9 | 1.4 | 74 | 5.1 | | |
| | e L | Z | 18:31:56.7 | | | 18.6 | 1016 | | 4.4 | |
| WET | e P | Z | 18:21:25.8 | 26.7 | 357.0 | 1.6 | 124 | 5.4 | | |
| | e pP | Z | 18:21:32.6 | | | | | | | |
| STU | e P | Z | 18:21:27.9 | 27.0 | 359.0 | 1.6 | 113 | 5.4 | | |
| | e pP | Z | 18:21:34.8 | | | | | | | |
| GEC2 | e P | Z | 18:21:28.9 | 27.0 | 356.6 | 1.6 | 101 | 5.3 | | |

| | | | | | | | | | |
|------|------|---|------------|------|-------|-----|----|-----|--|
| | e pP | Z | 18:21:35.4 | | | | | | |
| BFO | e P | Z | 18:21:31.8 | 27.4 | 359.5 | 1.5 | 35 | 4.9 | |
| RJOB | e P | Z | 18:21:38.2 | 28.1 | 357.2 | 1.0 | 18 | 4.9 | |

| | | | | | | | | |
|---------------|-------------|---------|--------|-------|-----|-----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2009/06/22 | 19:05:24.8 | 75.590N | 7.960E | 26.2 | 5.4 | 4.1 | | SZGRF |
| Greenland Sea | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| BSEG | e P | Z | 19:10:15.6 | 21.7 | 358.4 | 1.5 | 389 | 5.6 | | |
| | e pP | Z | 19:10:23.7 | | | | | | | |
| NRDL | e P | Z | 19:10:30.6 | 23.1 | 358.6 | 2.1 | 736 | 5.9 | | |
| RUE | e P | Z | 19:10:31.4 | 23.2 | 356.3 | 1.7 | 244 | 5.5 | | |
| | e pP | Z | 19:10:38.0 | | | | | | | |
| IBBN | e P | Z | 19:10:32.4 | 23.3 | 0.1 | 1.8 | 223 | 5.4 | | |
| CLZ | e P | Z | 19:10:36.8 | 23.8 | 358.5 | 2.4 | 353 | 5.5 | | |
| BUG | e P | Z | 19:10:40.0 | 24.2 | 0.4 | 1.5 | 208 | 5.4 | | |
| | e pP | Z | 19:10:47.4 | | | | | | | |
| CLL | e P | Z | 19:10:41.6 | 24.4 | 357.0 | 1.7 | 86 | 5.0 | | |
| | e pP | Z | 19:10:48.4 | | | | | | | |
| NEUB | e P | Z | 19:10:42.6 | 24.4 | 357.7 | 1.2 | 107 | 5.4 | | |
| | e pP | Z | 19:10:49.4 | | | | | | | |
| FBE | e P | Z | 19:10:45.7 | 24.8 | 356.8 | 1.1 | 104 | 5.5 | | |
| | e pP | Z | 19:10:52.2 | | | | | | | |
| UBBA | e P | Z | 19:10:46.0 | 24.8 | 358.8 | 1.6 | 102 | 5.3 | | |
| BRG | e P | Z | 19:10:46.1 | 24.8 | 356.5 | 1.5 | 86 | 5.3 | | |
| | e pP | Z | 19:10:52.5 | | | | | | | |
| MOX | e P | Z | 19:10:47.9 | 25.0 | 357.8 | 1.3 | 139 | 5.5 | | |
| | e pP | Z | 19:10:54.4 | | | | | | | |
| PLN | e P | Z | 19:10:49.6 | 25.2 | 357.5 | 1.6 | 789 | 6.2 | | |
| | e pP | Z | 19:10:56.2 | | | | | | | |
| WERD | e P | Z | 19:10:50.0 | 25.2 | 357.5 | 1.4 | 118 | 5.4 | | |
| | e pP | Z | 19:10:56.4 | | | | | | | |
| TANN | e P | Z | 19:10:50.3 | 25.2 | 357.4 | 1.6 | 157 | 5.5 | | |
| | e pP | Z | 19:10:57.0 | | | | | | | |
| GUNZ | e P | Z | 19:10:50.8 | 25.3 | 357.5 | 1.6 | 196 | 5.6 | | |
| | e pP | Z | 19:10:57.5 | | | | | | | |
| WERN | e P | Z | 19:10:51.8 | 25.4 | 357.4 | 1.7 | 315 | 5.8 | | |
| | e pP | Z | 19:10:58.2 | | | | | | | |
| TNS | e P | Z | 19:10:51.4 | 25.4 | 359.7 | 1.7 | 74 | 5.1 | | |
| MANZ | e P | Z | 19:10:53.8 | 25.7 | 357.6 | 2.2 | 190 | 5.3 | | |
| ROTZ | e P | Z | 19:10:56.4 | 25.9 | 357.6 | 1.6 | 76 | 5.1 | | |
| | e pP | Z | 19:11:02.8 | | | | | | | |
| GRA1 | e P | Z | 19:10:56.8 | 25.9 | 358.1 | 1.4 | 63 | 5.1 | | |
| | e pP | Z | 19:11:03.3 | | | | | | | |
| | e L | Z | 19:21:42.2 | | | 18.2 | 562 | | 4.1 | |
| WLF | e P | Z | 19:10:56.5 | 25.9 | 1.0 | 2.1 | 126 | 5.2 | | |

| | | | | | | | | |
|------|-----|---|------------|------|-------|-----|-----|-----|
| WET | e P | Z | 19:11:02.2 | 26.5 | 357.3 | 1.8 | 104 | 5.3 |
| STU | e P | Z | 19:11:04.6 | 26.8 | 359.3 | 1.8 | 130 | 5.4 |
| GEC2 | e P | Z | 19:11:05.5 | 26.8 | 356.8 | 1.7 | 112 | 5.3 |
| BFO | e P | Z | 19:11:08.3 | 27.3 | 359.8 | 1.7 | 52 | 5.0 |
| FUR | e P | Z | 19:11:10.5 | 27.5 | 358.2 | 2.0 | 121 | 5.4 |
| RJOB | e P | Z | 19:11:14.9 | 27.9 | 357.4 | 1.1 | 14 | 4.7 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|--------------------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/22 | 19:17:48.6 | 75.440N | 14.280E | 27.2 | 4.6 | | | SZGRF |
| Svalbard, Norway, region | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|-----|----|----|
| BSEG | e P | Z 19:22:39.0 | 21.6 | 2.7 | 1.0 | 74 | 5.1 | | |
| | e pP | Z 19:22:45.5 | | | | | | | |
| NRDL | e P | Z 19:22:52.1 | 23.0 | 2.7 | 1.0 | 25 | 4.7 | | |
| | e pP | Z 19:22:58.7 | | | | | | | |
| CLZ | e P | Z 19:22:58.5 | 23.6 | 2.4 | 1.1 | 11 | 4.3 | | |
| CLL | e P | Z 19:23:03.3 | 24.1 | 0.8 | 1.0 | 6 | 4.0 | | |
| | e pP | Z 19:23:09.9 | | | | | | | |
| BUG | e P | Z 19:23:02.5 | 24.2 | 4.3 | 1.0 | 23 | 4.7 | | |
| | e pP | Z 19:23:09.3 | | | | | | | |
| NEUB | e P | Z 19:23:05.2 | 24.3 | 1.5 | 0.9 | 37 | 4.9 | | |
| | e pP | Z 19:23:11.8 | | | | | | | |
| FBE | e P | Z 19:23:07.4 | 24.5 | 0.6 | 0.9 | 27 | 5.0 | | |
| | e pP | Z 19:23:13.8 | | | | | | | |
| BRG | e P | Z 19:23:07.7 | 24.6 | 0.2 | 1.2 | 13 | 4.5 | | |
| | e pP | Z 19:23:14.4 | | | | | | | |
| UBBA | e P | Z 19:23:09.3 | 24.7 | 2.6 | 1.6 | 12 | 4.4 | | |
| MOX | e P | Z 19:23:09.6 | 24.8 | 1.6 | 1.0 | 20 | 4.8 | | |
| | e pP | Z 19:23:16.1 | | | | | | | |
| PLN | e P | Z 19:23:10.9 | 25.0 | 1.3 | 1.3 | 86 | 5.3 | | |
| | e pP | Z 19:23:17.8 | | | | | | | |
| WERD | e P | Z 19:23:11.5 | 25.0 | 1.2 | 1.4 | 21 | 4.7 | | |
| TANN | e P | Z 19:23:11.8 | 25.0 | 1.1 | 1.3 | 13 | 4.5 | | |
| | e pP | Z 19:23:18.6 | | | | | | | |
| GUNZ | e P | Z 19:23:12.4 | 25.1 | 1.2 | 1.2 | 20 | 4.7 | | |
| WERN | e P | Z 19:23:13.1 | 25.2 | 1.1 | 1.1 | 26 | 4.9 | | |
| | e pP | Z 19:23:19.8 | | | | | | | |
| TNS | e P | Z 19:23:15.0 | 25.3 | 3.4 | 1.0 | 10 | 4.5 | | |
| | e pP | Z 19:23:21.6 | | | | | | | |
| ROTZ | e P | Z 19:23:17.9 | 25.7 | 1.2 | 1.2 | 10 | 4.3 | | |
| WET | e P | Z 19:23:24.0 | 26.3 | 0.8 | 1.3 | 7 | 4.1 | | |
| GEC2 | e P | Z 19:23:26.6 | 26.6 | 0.3 | 1.2 | 9 | 4.4 | | |
| BFO | e P | Z 19:23:34.3 | 27.2 | 3.3 | 1.2 | 11 | 4.5 | | |
| | e pP | Z 19:23:40.5 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|--------|-------|-----|----|----|--------|
| 2009/06/22 | 19:28:10.8 | 76.360N | 5.610E | 25.1 | 4.7 | | | SZGRF |

Svalbard, Norway, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| BSEG | e P | Z | 19:33:09.8 | 22.5 | 357.1 | 1.0 | 76 | 5.2 | | |
| | e pP | Z | 19:33:16.8 | | | | | | | |
| NRDL | e P | Z | 19:33:23.8 | 23.9 | 357.4 | 1.2 | 34 | 4.7 | | |
| | e pP | Z | 19:33:30.7 | | | | | | | |
| CLZ | e P | Z | 19:33:30.1 | 24.6 | 357.3 | 1.2 | 17 | 4.6 | | |
| BUG | e P | Z | 19:33:32.5 | 24.9 | 359.1 | 1.5 | 42 | 5.0 | | |
| CLL | e P | Z | 19:33:35.3 | 25.2 | 355.9 | 1.1 | 9 | 4.4 | | |
| | e pP | Z | 19:33:41.6 | | | | | | | |
| NEUB | e P | Z | 19:33:36.4 | 25.3 | 356.6 | 1.0 | 34 | 5.0 | | |
| | e pP | Z | 19:33:42.7 | | | | | | | |
| UBBA | e P | Z | 19:33:39.7 | 25.6 | 357.6 | 1.5 | 16 | 4.4 | | |
| FBE | e P | Z | 19:33:39.4 | 25.6 | 355.8 | 1.0 | 30 | 4.9 | | |
| | e pP | Z | 19:33:45.6 | | | | | | | |
| BRG | e P | Z | 19:33:39.8 | 25.7 | 355.5 | 1.3 | 14 | 4.4 | | |
| | e pP | Z | 19:33:45.9 | | | | | | | |
| MOX | e P | Z | 19:33:41.7 | 25.8 | 356.8 | 1.1 | 24 | 4.7 | | |
| | e pP | Z | 19:33:47.8 | | | | | | | |
| PLN | e P | Z | 19:33:43.2 | 26.0 | 356.5 | 1.2 | 88 | 5.3 | | |
| | e pP | Z | 19:33:49.3 | | | | | | | |
| WERD | e P | Z | 19:33:43.6 | 26.0 | 356.4 | 1.5 | 22 | 4.5 | | |
| | e pP | Z | 19:33:49.9 | | | | | | | |
| TANN | e P | Z | 19:33:44.1 | 26.1 | 356.3 | 1.4 | 18 | 4.5 | | |
| | e pP | Z | 19:33:50.3 | | | | | | | |
| GUNZ | e P | Z | 19:33:44.5 | 26.1 | 356.4 | 1.4 | 26 | 4.7 | | |
| | e pP | Z | 19:33:50.6 | | | | | | | |
| WERN | e P | Z | 19:33:45.4 | 26.2 | 356.4 | 1.2 | 31 | 4.8 | | |
| | e pP | Z | 19:33:51.6 | | | | | | | |
| MANZ | e P | Z | 19:33:47.7 | 26.5 | 356.6 | 1.9 | 23 | 4.6 | | |
| ROTZ | e P | Z | 19:33:50.0 | 26.7 | 356.5 | 1.2 | 10 | 4.4 | | |
| | e pP | Z | 19:33:56.1 | | | | | | | |
| GRA1 | e P | Z | 19:33:50.4 | 26.8 | 357.1 | 0.9 | 8 | 4.5 | | |
| | e pP | Z | 19:33:56.5 | | | | | | | |
| WET | e P | Z | 19:33:55.0 | 27.4 | 356.3 | 1.3 | 7 | 4.2 | | |
| GEC2 | e P | Z | 19:33:59.1 | 27.7 | 355.9 | 1.3 | 13 | 4.6 | | |
| | e pP | Z | 19:34:05.4 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/22 | 19:28:10.8 | 62.682N | 150.739W | 69.6 | 6.1 | | | SZGRF |

Central Alaska, United States

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

| | | | | | | | | |
|------|------|---|------------|------|-------|-----|-----|-----|
| RGN | e P | Z | 19:38:25.1 | 62.1 | 351.8 | 1.3 | 229 | 6.2 |
| BSEG | e P | Z | 19:38:26.9 | 62.4 | 350.3 | 1.3 | 232 | 6.2 |
| IBBN | e P | Z | 19:38:35.6 | 63.8 | 349.2 | 1.3 | 178 | 6.1 |
| NRDL | e P | Z | 19:38:35.8 | 63.8 | 350.3 | 1.4 | 180 | 6.1 |
| RUE | e P | Z | 19:38:38.5 | 64.2 | 352.2 | 1.1 | 236 | 6.3 |
| CLZ | e P | Z | 19:38:40.7 | 64.5 | 350.5 | 1.0 | 168 | 6.2 |
| | e sP | Z | 19:39:06.7 | | | | | |
| BUG | e P | Z | 19:38:40.4 | 64.6 | 349.0 | 1.3 | 187 | 6.1 |
| NEUB | e P | Z | 19:38:45.3 | 65.3 | 351.3 | 1.0 | 152 | 6.2 |
| | e sP | Z | 19:39:11.1 | | | | | |
| CLL | e P | Z | 19:38:45.0 | 65.3 | 351.9 | 1.1 | 105 | 6.0 |
| UBBA | e P | Z | 19:38:46.5 | 65.5 | 350.4 | 1.6 | 184 | 6.1 |
| FBE | e P | Z | 19:38:48.0 | 65.7 | 352.1 | 1.1 | 141 | 6.1 |
| | e sP | Z | 19:39:14.8 | | | | | |
| BRG | e P | Z | 19:38:48.6 | 65.8 | 352.4 | 1.0 | 113 | 6.1 |
| | e sP | Z | 19:39:15.3 | | | | | |
| MOX | e P | Z | 19:38:48.7 | 65.8 | 351.2 | 1.0 | 142 | 6.1 |
| TNS | e P | Z | 19:38:49.2 | 65.9 | 349.7 | 1.1 | 117 | 6.0 |
| PLN | e P | Z | 19:38:50.1 | 66.0 | 351.5 | 1.0 | 515 | 6.7 |
| | e sP | Z | 19:39:16.1 | | | | | |
| WERD | e P | Z | 19:38:50.4 | 66.1 | 351.6 | 1.3 | 119 | 6.0 |
| | e sP | Z | 19:39:16.3 | | | | | |
| TANN | e P | Z | 19:38:50.8 | 66.1 | 351.7 | 1.5 | 210 | 6.1 |
| | e sP | Z | 19:39:17.7 | | | | | |
| GUNZ | e P | Z | 19:38:51.1 | 66.2 | 351.6 | 1.4 | 167 | 6.1 |
| | e sP | Z | 19:39:16.9 | | | | | |
| WLF | e P | Z | 19:38:51.3 | 66.2 | 348.6 | 1.1 | 150 | 6.1 |
| | e sP | Z | 19:39:17.3 | | | | | |
| WERN | e P | Z | 19:38:51.7 | 66.2 | 351.6 | 1.5 | 242 | 6.2 |
| MANZ | e P | Z | 19:38:53.0 | 66.5 | 351.5 | 1.4 | 141 | 6.0 |
| GRA1 | e P | Z | 19:38:54.7 | 66.7 | 351.1 | 1.0 | 126 | 6.1 |
| ROTZ | e P | Z | 19:38:54.9 | 66.7 | 351.6 | 1.3 | 139 | 6.0 |
| | e sP | Z | 19:39:21.6 | | | | | |
| STU | e P | Z | 19:38:58.8 | 67.4 | 350.2 | 1.3 | 123 | 6.0 |
| WET | e P | Z | 19:38:59.3 | 67.4 | 351.9 | 1.5 | 272 | 6.2 |
| | e sP | Z | 19:39:26.1 | | | | | |
| BFO | e P | Z | 19:39:00.7 | 67.7 | 349.8 | 1.5 | 157 | 6.0 |
| GEC2 | e P | Z | 19:39:01.4 | 67.8 | 352.4 | 1.1 | 105 | 6.0 |
| FUR | e P | Z | 19:39:04.1 | 68.2 | 351.2 | 0.8 | 178 | 6.3 |
| | e sP | Z | 19:39:30.9 | | | | | |
| RJOB | e P | Z | 19:39:07.7 | 68.8 | 352.0 | 0.7 | 95 | 6.1 |

Date 2009/06/22 Origin Time 19:55:23.5 Lat 51.290N Long 179.540W Depth 33.0G mb 5.7 Ms ML Source SZGRF
 Andeanof Islands, Aleutian Islands, United States

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

| | | | | | | | | |
|------|-----|---|------------|------|-----|-----|-----|-----|
| BSEG | e P | Z | 20:07:01.3 | 74.5 | 6.4 | 1.9 | 325 | 6.0 |
| RUE | e P | Z | 20:07:07.8 | 75.6 | 8.6 | 1.1 | 71 | 5.7 |
| NRDL | e P | Z | 20:07:09.1 | 75.9 | 6.2 | 1.9 | 128 | 5.7 |
| IBBN | e P | Z | 20:07:11.4 | 76.2 | 4.7 | 1.3 | 188 | 6.0 |
| CLZ | e P | Z | 20:07:13.2 | 76.5 | 6.4 | 1.8 | 229 | 6.0 |
| CLL | e P | Z | 20:07:14.2 | 76.9 | 8.0 | 1.7 | 85 | 5.6 |
| NEUB | e P | Z | 20:07:15.7 | 77.1 | 7.2 | 1.7 | 213 | 6.0 |
| BUG | e P | Z | 20:07:15.8 | 77.1 | 4.4 | 1.7 | 144 | 5.8 |
| BRG | e P | Z | 20:07:16.3 | 77.2 | 8.6 | 1.4 | 55 | 5.5 |
| FBE | e P | Z | 20:07:16.8 | 77.2 | 8.2 | 1.6 | 140 | 5.8 |
| UBBA | e P | Z | 20:07:18.6 | 77.6 | 6.1 | 1.7 | 90 | 5.6 |
| MOX | e P | Z | 20:07:19.1 | 77.6 | 7.1 | 1.7 | 100 | 5.7 |
| PLN | e P | Z | 20:07:19.6 | 77.7 | 7.5 | 1.7 | 331 | 6.2 |
| WERD | e P | Z | 20:07:19.5 | 77.8 | 7.5 | 1.6 | 81 | 5.6 |
| TANN | e P | Z | 20:07:20.1 | 77.8 | 7.6 | 1.7 | 92 | 5.6 |
| GUNZ | e P | Z | 20:07:20.3 | 77.8 | 7.6 | 1.6 | 110 | 5.7 |
| WERN | e P | Z | 20:07:20.7 | 77.9 | 7.6 | 1.5 | 88 | 5.7 |
| MANZ | e P | Z | 20:07:22.3 | 78.2 | 7.4 | 1.7 | 63 | 5.4 |
| TNS | e P | Z | 20:07:22.6 | 78.3 | 5.1 | 1.8 | 136 | 5.7 |
| ROTZ | e P | Z | 20:07:23.5 | 78.4 | 7.5 | 1.5 | 69 | 5.5 |
| GRA1 | e P | Z | 20:07:24.8 | 78.6 | 6.8 | 1.6 | 191 | 5.9 |
| WLF | e P | Z | 20:07:26.2 | 78.9 | 3.6 | 2.0 | 207 | 5.8 |
| WET | e P | Z | 20:07:26.7 | 79.0 | 7.9 | 1.9 | 103 | 5.5 |
| GEC2 | e P | Z | 20:07:27.7 | 79.2 | 8.4 | 1.9 | 115 | 5.5 |
| STU | e P | Z | 20:07:30.0 | 79.7 | 5.5 | 1.8 | 116 | 5.5 |
| FUR | e P | Z | 20:07:32.8 | 80.1 | 6.8 | 2.0 | 230 | 5.8 |
| BFO | e P | Z | 20:07:32.4 | 80.2 | 5.0 | 1.5 | 70 | 5.5 |
| RJOB | e P | Z | 20:07:34.4 | 80.4 | 7.8 | 1.2 | 24 | 5.1 |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/22 20:58:40.0 42.303N 13.531E 10.0G 4.8 SZGRF
 Central Italy

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|-----|
| OBKA | e Pn | Z | 20:59:44.2 | 4.3 | 190.2 | | | | | 4.9 |
| KBA | e Pn | Z | 20:59:51.2 | 4.8 | 178.3 | | | | | 4.7 |
| | e Sn | N | 21:00:43.9 | | | | | | | |
| WTTA | e Pn | N | 20:59:56.1 | 5.1 | 164.2 | | | | | |
| ARSA | e Pn | N | 20:59:56.0 | 5.1 | 196.7 | | | | | |
| RJOB | e Pn | Z | 21:00:00.7 | 5.5 | 174.3 | | | | | |
| MOA | e Pn | Z | 21:00:02.4 | 5.6 | 185.6 | | | | | |
| | e Sn | E | 21:01:04.5 | | | | | | | |
| DAVA | e Pn | Z | 21:00:03.6 | 5.6 | 151.2 | | | | | |
| FUR | e Pn | Z | 21:00:09.0 | 6.1 | 164.0 | | | | | |
| GEC2 | e Pn | Z | 21:00:14.3 | 6.5 | 181.1 | | | | | |
| | e Sn | N | 21:01:26.5 | | | | | | | |
| WET | e Pn | Z | 21:00:18.0 | 6.9 | 176.0 | | | | | |

| | | | | | |
|------|------|---|------------|-----|-------|
| | e Sn | N | 21:01:32.4 | | |
| BFO | e Pn | Z | 21:00:20.9 | 7.0 | 146.9 |
| ROTZ | e Pn | Z | 21:00:27.5 | 7.5 | 172.5 |
| | e Sn | N | 21:01:46.8 | | |
| MANZ | e Pn | Z | 21:00:31.2 | 7.7 | 172.2 |
| | e Sn | E | 21:01:52.5 | | |
| WERN | e Pn | Z | 21:00:35.1 | 8.0 | 173.9 |
| GUNZ | e Pn | Z | 21:00:37.1 | 8.1 | 173.7 |
| TANN | e Pn | Z | 21:00:37.0 | 8.1 | 174.4 |
| WERD | e Pn | Z | 21:00:37.6 | 8.2 | 173.6 |
| PLN | e Pn | Z | 21:00:38.4 | 8.2 | 172.9 |
| MOX | e Pn | Z | 21:00:39.8 | 8.4 | 170.3 |
| FBE | e Pn | Z | 21:00:42.7 | 8.6 | 179.1 |
| | e Sn | N | 21:02:10.3 | | |
| TNS | e Pn | Z | 21:00:45.0 | 8.7 | 154.2 |
| UBBA | e Pn | Z | 21:00:46.1 | 8.9 | 162.8 |
| WLF | e Pn | Z | 21:00:49.4 | 9.0 | 142.4 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|--|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/22 | 21:05:44.2 | 52.695N | 179.923W | 33.0G | 5.6 | | | SZGRF |
| Andreanof Islands, Aleutian Islands, United States | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-----|------|-------|-----|----|----|
| BSEG | e P | Z 21:17:11.2 | 73.0 | 6.5 | 1.5 | 178 | 6.0 | | |
| RUE | e P | Z 21:17:18.0 | 74.2 | 8.6 | 1.2 | 83 | 5.6 | | |
| NRDL | e P | Z 21:17:19.3 | 74.5 | 6.3 | 1.3 | 49 | 5.4 | | |
| IBBN | e P | Z 21:17:21.2 | 74.8 | 4.8 | 1.5 | 196 | 5.9 | | |
| CLZ | e P | Z 21:17:23.3 | 75.1 | 6.4 | 1.3 | 105 | 5.7 | | |
| CLL | e P | Z 21:17:24.1 | 75.4 | 8.1 | 1.2 | 48 | 5.5 | | |
| NEUB | e P | Z 21:17:25.9 | 75.6 | 7.3 | 1.3 | 118 | 5.9 | | |
| BUG | e P | Z 21:17:26.1 | 75.7 | 4.5 | 1.3 | 77 | 5.7 | | |
| BRG | e P | Z 21:17:26.4 | 75.8 | 8.6 | 1.1 | 44 | 5.5 | | |
| FBE | e P | Z 21:17:27.0 | 75.8 | 8.3 | 1.4 | 108 | 5.8 | | |
| UBBA | e P | Z 21:17:28.7 | 76.1 | 6.2 | 1.7 | 75 | 5.6 | | |
| MOX | e P | Z 21:17:29.2 | 76.2 | 7.2 | 1.3 | 60 | 5.6 | | |
| PLN | e P | Z 21:17:29.8 | 76.3 | 7.5 | 1.0 | 88 | 5.8 | | |
| WERD | e P | Z 21:17:30.1 | 76.3 | 7.6 | 1.3 | 47 | 5.4 | | |
| TANN | e P | Z 21:17:30.2 | 76.4 | 7.7 | 1.4 | 47 | 5.4 | | |
| GUNZ | e P | Z 21:17:30.4 | 76.4 | 7.6 | 1.4 | 63 | 5.6 | | |
| WERN | e P | Z 21:17:31.1 | 76.5 | 7.6 | 1.2 | 73 | 5.7 | | |
| MANZ | e P | Z 21:17:32.5 | 76.8 | 7.5 | 1.2 | 37 | 5.4 | | |
| TNS | e P | Z 21:17:32.8 | 76.8 | 5.2 | 1.2 | 59 | 5.6 | | |
| ROTZ | e P | Z 21:17:34.1 | 77.0 | 7.5 | 1.2 | 47 | 5.5 | | |
| GRA1 | e P | Z 21:17:35.1 | 77.2 | 6.9 | 1.3 | 133 | 5.9 | | |
| WLF | e P | Z 21:17:36.6 | 77.5 | 3.8 | 1.2 | 59 | 5.6 | | |
| WET | e P | Z 21:17:37.2 | 77.6 | 7.9 | 1.2 | 35 | 5.4 | | |
| GEC2 | e P | Z 21:17:38.1 | 77.8 | 8.4 | 1.1 | 34 | 5.4 | | |

| | | | | | | | | |
|------|-----|---|------------|------|-----|-----|----|-----|
| STU | e P | Z | 21:17:40.3 | 78.2 | 5.6 | 1.2 | 60 | 5.5 |
| FUR | e P | Z | 21:17:43.0 | 78.7 | 6.9 | 1.2 | 70 | 5.6 |
| BFO | e P | Z | 21:17:42.7 | 78.7 | 5.1 | 1.3 | 53 | 5.4 |
| RJOB | e P | Z | 21:17:44.6 | 79.0 | 7.8 | 1.0 | 22 | 5.1 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/22 | 22:24:13.6 | 23.870S | 179.120W | 561.4 | | | | SZGRF |
| South of Fiji Islands | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 22:42:59.0 | 149.1 | 17.0 | | | | | |
| | e PKPab | Z | 22:43:05.4 | | | | | | | |
| RUE | e PKPbc | Z | 22:43:00.5 | 149.8 | 23.9 | | | | | |
| NRDL | e PKPbc | Z | 22:43:01.9 | 150.5 | 17.3 | | | | | |
| CLL | e PKPbc | Z | 22:43:03.0 | 151.0 | 23.3 | | | | | |
| | e pPKPbc | Z | 22:45:12.8 | | | | | | | |
| CLZ | e PKPbc | Z | 22:43:03.8 | 151.1 | 18.2 | | | | | |
| | e PKPab | Z | 22:43:13.7 | | | | | | | |
| BRG | e PKPbc | Z | 22:43:03.7 | 151.2 | 25.4 | | | | | |
| | e PKPab | Z | 22:43:13.8 | | | | | | | |
| FBE | e PKPbc | Z | 22:43:04.3 | 151.3 | 24.3 | | | | | |
| | e PKPab | Z | 22:43:14.6 | | | | | | | |
| | e pPKPbc | Z | 22:45:13.8 | | | | | | | |
| NEUB | e PKPab | Z | 22:43:14.8 | 151.4 | 21.2 | | | | | |
| MOX | e PKPab | Z | 22:43:17.1 | 152.0 | 21.2 | | | | | |
| TANN | e PKPbc | Z | 22:43:05.4 | 152.0 | 23.0 | | | | | |
| | e PKPab | Z | 22:43:17.4 | | | | | | | |
| | e pPKPbc | Z | 22:45:15.0 | | | | | | | |
| WERD | e PKPab | Z | 22:43:17.5 | 152.0 | 22.7 | | | | | |
| PLN | e PKPbc | Z | 22:43:05.5 | 152.0 | 22.4 | | | | | |
| | e PKPab | Z | 22:43:17.4 | | | | | | | |
| | e pPKPbc | Z | 22:45:15.1 | | | | | | | |
| GUNZ | e PKPbc | Z | 22:43:05.6 | 152.1 | 22.8 | | | | | |
| | e PKPab | Z | 22:43:17.8 | | | | | | | |
| WERN | e PKPab | Z | 22:43:18.1 | 152.1 | 22.9 | | | | | |
| MANZ | e PKPbc | Z | 22:43:06.7 | 152.5 | 22.6 | | | | | |
| | e PKPab | Z | 22:43:19.2 | | | | | | | |
| ROTZ | e PKPbc | Z | 22:43:06.8 | 152.6 | 23.0 | | | | | |
| | e PKPab | Z | 22:43:20.4 | | | | | | | |
| | e pPKPbc | Z | 22:45:18.4 | | | | | | | |
| GRA1 | e PKPab | Z | 22:43:21.8 | 152.9 | 21.2 | | | | | |
| TNS | e PKPab | Z | 22:43:21.5 | 153.0 | 15.4 | | | | | |
| WET | e PKPab | Z | 22:43:22.1 | 153.0 | 24.8 | | | | | |
| GEC2 | e PKPbc | Z | 22:43:07.6 | 153.1 | 26.6 | | | | | |
| | e PKPab | Z | 22:43:21.9 | | | | | | | |
| RJOB | e PKPab | Z | 22:43:27.9 | 154.3 | 25.8 | | | | | |
| FUR | e PKPab | Z | 22:43:27.5 | 154.3 | 22.4 | | | | | |

BFO e PKPab Z 22:43:29.4 154.8 16.2

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/22 23:16:29.6 11.659N 94.698E 26.0 4.8
 Andaman Islands, India, region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 23:28:10.2 | 75.2 | 89.7 | 1.2 | 11 | 4.8 | | |
| | e pP | Z | 23:28:17.7 | | | | | | | |
| GEC2 | e P | Z | 23:28:11.3 | 75.3 | 89.0 | 0.9 | 7 | 4.7 | | |
| | e pP | Z | 23:28:18.8 | | | | | | | |
| FBE | e P | Z | 23:28:12.6 | 75.5 | 89.2 | 1.0 | 13 | 5.0 | | |
| | e pP | Z | 23:28:20.1 | | | | | | | |
| CLL | e P | Z | 23:28:13.2 | 75.7 | 89.1 | 1.5 | 10 | 4.7 | | |
| | e pP | Z | 23:28:20.6 | | | | | | | |
| WET | e P | Z | 23:28:14.3 | 75.9 | 88.4 | 1.2 | 7 | 4.7 | | |
| | e pP | Z | 23:28:21.9 | | | | | | | |
| TANN | e P | Z | 23:28:15.6 | 76.1 | 88.4 | 1.3 | 6 | 4.6 | | |
| | e pP | Z | 23:28:23.1 | | | | | | | |
| WERN | e P | Z | 23:28:16.2 | 76.2 | 88.3 | | | | | |
| | e pP | Z | 23:28:23.5 | | | | | | | |
| GUNZ | e P | Z | 23:28:16.2 | 76.2 | 88.3 | 1.1 | 7 | 4.7 | | |
| | e pP | Z | 23:28:23.6 | | | | | | | |
| WERD | e P | Z | 23:28:16.1 | 76.2 | 88.3 | 1.0 | 4 | 4.5 | | |
| | e pP | Z | 23:28:23.5 | | | | | | | |
| ROTZ | e P | Z | 23:28:17.2 | 76.3 | 88.1 | 1.3 | 9 | 4.7 | | |
| | e pP | Z | 23:28:24.7 | | | | | | | |
| PLN | e P | Z | 23:28:16.7 | 76.3 | 88.2 | 1.0 | 24 | 5.3 | | |
| | e pP | Z | 23:28:24.1 | | | | | | | |
| MANZ | e P | Z | 23:28:17.4 | 76.4 | 88.0 | 1.5 | 14 | 4.9 | | |
| | e pP | Z | 23:28:24.9 | | | | | | | |
| NEUB | e P | Z | 23:28:17.7 | 76.5 | 88.1 | 0.9 | 8 | 4.8 | | |
| | e pP | Z | 23:28:25.1 | | | | | | | |
| MOX | e P | Z | 23:28:18.5 | 76.6 | 87.8 | | | | | |
| | e pP | Z | 23:28:26.1 | | | | | | | |
| BSEG | e P | Z | 23:28:22.5 | 77.3 | 87.6 | 1.1 | 27 | 5.3 | | |
| | e pP | Z | 23:28:30.1 | | | | | | | |
| CLZ | e P | Z | 23:28:22.8 | 77.4 | 87.1 | 1.0 | 10 | 4.9 | | |
| | e pP | Z | 23:28:30.3 | | | | | | | |
| NRDL | e P | Z | 23:28:23.6 | 77.5 | 87.1 | 1.4 | 21 | 5.1 | | |
| | e pP | Z | 23:28:31.2 | | | | | | | |
| IBBN | e P | Z | 23:28:31.7 | 78.9 | 85.2 | 1.1 | 16 | 5.0 | | |
| | e pP | Z | 23:28:39.1 | | | | | | | |
| BUG | e P | Z | 23:28:33.6 | 79.3 | 84.7 | 1.3 | 20 | 5.0 | | |
| | e pP | Z | 23:28:40.9 | | | | | | | |
| WLF | e P | Z | 23:28:38.8 | 80.2 | 83.5 | 1.3 | 12 | 4.7 | | |
| | e pP | Z | 23:28:46.2 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------|-------------|---------|---------|-------|----|----|----|--------|
| 2009/06/23 | 00:41:55.4 | 42.280N | 13.726E | 10.0G | | | | SZGRF |
| Central Italy | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|----|
| RJOB | e Pn | Z | 00:43:17.1 | 5.5 | 172.8 | | | | | |
| | e Sn | N | 00:44:17.7 | | | | | | | |
| FUR | e Pn | Z | 00:43:25.7 | 6.1 | 162.8 | | | | | |
| | e Sn | N | 00:44:32.2 | | | | | | | |
| GEC2 | e Pn | Z | 00:43:30.8 | 6.6 | 179.8 | | | | | |
| | e Sn | N | 00:44:41.3 | | | | | | | |
| WET | e Pn | Z | 00:43:35.1 | 6.9 | 174.8 | | | | | |
| | e Sn | N | 00:44:47.7 | | | | | | | |
| BFO | e Pn | Z | 00:43:37.8 | 7.1 | 145.9 | | | | | |
| | e Sn | E | 00:44:54.3 | | | | | | | |
| ROTZ | e Sn | Z | 00:45:02.5 | 7.6 | 171.4 | | | | | |
| MANZ | e Sn | N | 00:45:07.3 | 7.8 | 171.1 | | | | | |
| GUNZ | e Pn | Z | 00:43:52.7 | 8.1 | 172.7 | | | | | |
| TANN | e Pn | Z | 00:43:52.2 | 8.2 | 173.4 | | | | | |
| MOX | e Pn | Z | 00:43:57.3 | 8.5 | 169.4 | | | | | |
| FBE | e Sn | N | 00:45:30.0 | 8.6 | 178.2 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/23 | 05:03:11.4 | 30.930N | 53.280E | 9.1 | 4.4 | | | SZGRF |
| Northern and central Iran | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| GEC2 | e P | Z | 05:10:02.9 | 34.7 | 106.3 | | | | | |
| | e pP | Z | 05:10:05.3 | | | | | | | |
| BRG | e P | Z | 05:10:06.8 | 35.2 | 109.3 | 1.4 | 8 | 4.5 | | |
| | e pP | Z | 05:10:09.2 | | | | | | | |
| WET | e P | Z | 05:10:07.5 | 35.3 | 105.8 | 1.0 | 5 | 4.4 | | |
| | e pP | Z | 05:10:10.0 | | | | | | | |
| CLL | e P | Z | 05:10:13.0 | 35.9 | 108.9 | 0.9 | 4 | 4.3 | | |
| | e pP | Z | 05:10:15.4 | | | | | | | |
| ROTZ | e P | Z | 05:10:13.2 | 35.9 | 106.0 | 0.9 | 5 | 4.3 | | |
| | e pP | Z | 05:10:15.7 | | | | | | | |
| WERN | e P | Z | 05:10:13.8 | 35.9 | 106.9 | 0.8 | 3 | 4.2 | | |
| | e pP | Z | 05:10:15.8 | | | | | | | |
| MANZ | e P | Z | 05:10:14.3 | 36.0 | 106.2 | 0.9 | 2 | 4.0 | | |
| | e pP | Z | 05:10:16.5 | | | | | | | |
| GRA1 | e P | Z | 05:10:18.2 | 36.5 | 104.9 | 0.9 | 17 | 4.8 | | |
| | e pP | Z | 05:10:20.6 | | | | | | | |
| MOX | e P | Z | 05:10:18.5 | 36.5 | 106.6 | 0.9 | 3 | 4.0 | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

72

| | | | | | | | | | | |
|------|------|---|------------|------|-------|-----|----|-----|--|--|
| | e pP | Z | 05:10:20.6 | | | | | | | |
| CLZ | e P | Z | 05:10:27.9 | 37.6 | 106.8 | 1.3 | 11 | 4.5 | | |
| | e pP | Z | 05:10:30.4 | | | | | | | |
| NRDL | e P | Z | 05:10:30.8 | 37.9 | 107.3 | 1.2 | 10 | 4.4 | | |
| | e pP | Z | 05:10:33.3 | | | | | | | |
| BSEG | e P | Z | 05:10:33.1 | 38.3 | 109.3 | 1.1 | 13 | 4.6 | | |
| | e pP | Z | 05:10:35.4 | | | | | | | |
| TNS | e P | Z | 05:10:33.8 | 38.4 | 102.9 | 1.2 | 10 | 4.4 | | |
| | e pP | Z | 05:10:36.3 | | | | | | | |
| IBBN | e P | Z | 05:10:41.7 | 39.3 | 104.8 | 0.6 | 8 | 4.5 | | |
| | e pP | Z | 05:10:44.1 | | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/23 | 06:30:13.8 | 16.000S | 174.200W | 114.0 | | | | NEIC |
| Tonga Islands | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| MOX | e PKPbc | Z | 06:49:38.1 | 145.0 | 9.8 | | | | | |
| TANN | e PKPbc | Z | 06:49:38.7 | 145.2 | 11.3 | | | | | |
| GUNZ | e PKPbc | Z | 06:49:39.1 | 145.2 | 11.1 | | | | | |
| WERN | e PKPbc | Z | 06:49:39.4 | 145.3 | 11.2 | | | | | |
| MANZ | e PKPbc | Z | 06:49:40.3 | 145.6 | 10.8 | | | | | |
| TNS | e PKPbc | Z | 06:49:40.6 | 145.7 | 4.5 | | | | | |
| ROTZ | e PKPbc | Z | 06:49:41.3 | 145.8 | 11.0 | | | | | |
| GRA1 | e PKPbc | Z | 06:49:41.9 | 146.0 | 9.4 | | | | | |
| WLF | e PKPbc | Z | 06:49:42.8 | 146.3 | 0.6 | | | | | |
| GEC2 | e PKPbc | Z | 06:49:42.9 | 146.5 | 13.9 | | | | | |
| BFO | e PKPbc | Z | 06:49:45.9 | 147.6 | 4.5 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/23 | 07:24:21.0 | 40.522N | 144.041E | 32.3 | 5.1 | | | SZGRF |
| Off east coast of Honshu, Japan | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z | 07:36:14.2 | 77.5 | 34.2 | 1.1 | 50 | 5.5 | | |
| | e pP | Z | 07:36:23.5 | | | | | | | |
| CLL | e P | Z | 07:36:20.1 | 78.7 | 35.8 | 0.9 | 26 | 5.3 | | |
| | e pP | Z | 07:36:29.5 | | | | | | | |
| BRG | e P | Z | 07:36:20.3 | 78.8 | 36.4 | 1.2 | 18 | 5.0 | | |
| | e pP | Z | 07:36:29.5 | | | | | | | |
| NRDL | e P | Z | 07:36:20.5 | 78.8 | 33.9 | 1.3 | 14 | 4.8 | | |
| | e pP | Z | 07:36:29.8 | | | | | | | |
| FBE | e P | Z | 07:36:21.6 | 78.9 | 36.0 | 1.1 | 36 | 5.3 | | |
| | e pP | Z | 07:36:30.9 | | | | | | | |
| CLZ | e P | Z | 07:36:23.5 | 79.2 | 34.0 | 1.1 | 32 | 5.2 | | |

| | | | | | | | | |
|------|------|---|------------|------|------|-----|----|-----|
| NEUB | e P | Z | 07:36:23.2 | 79.3 | 34.9 | 0.9 | 32 | 5.2 |
| | e pP | Z | 07:36:32.3 | | | | | |
| TANN | e P | Z | 07:36:25.3 | 79.7 | 35.3 | 1.0 | 6 | 4.4 |
| | e pP | Z | 07:36:34.6 | | | | | |
| WERD | e P | Z | 07:36:25.6 | 79.7 | 35.2 | 1.1 | 13 | 4.8 |
| | e pP | Z | 07:36:34.7 | | | | | |
| PLN | e P | Z | 07:36:25.6 | 79.7 | 35.1 | 1.1 | 66 | 5.5 |
| | e pP | Z | 07:36:35.1 | | | | | |
| IBBN | e P | Z | 07:36:25.8 | 79.7 | 32.3 | 1.1 | 30 | 5.1 |
| | e pP | Z | 07:36:35.2 | | | | | |
| GUNZ | e P | Z | 07:36:26.0 | 79.8 | 35.2 | 1.0 | 14 | 4.9 |
| | e pP | Z | 07:36:35.4 | | | | | |
| MOX | e P | Z | 07:36:26.0 | 79.8 | 34.8 | 1.1 | 18 | 4.9 |
| | e pP | Z | 07:36:35.5 | | | | | |
| WERN | e P | Z | 07:36:26.2 | 79.8 | 35.2 | 1.1 | 20 | 5.0 |
| | e pP | Z | 07:36:35.7 | | | | | |
| MANZ | e P | Z | 07:36:28.0 | 80.2 | 35.0 | 1.0 | 14 | 4.9 |
| | e pP | Z | 07:36:37.5 | | | | | |
| UBBA | e P | Z | 07:36:28.1 | 80.2 | 33.7 | 1.2 | 6 | 4.5 |
| | e pP | Z | 07:36:37.5 | | | | | |
| ROTZ | e P | Z | 07:36:29.1 | 80.3 | 35.1 | 1.1 | 20 | 5.1 |
| | e pP | Z | 07:36:38.5 | | | | | |
| GEC2 | e P | Z | 07:36:29.4 | 80.5 | 36.0 | 1.0 | 9 | 4.7 |
| | e pP | Z | 07:36:38.7 | | | | | |
| WET | e P | Z | 07:36:30.3 | 80.6 | 35.5 | 1.1 | 18 | 5.0 |
| | e pP | Z | 07:36:39.6 | | | | | |
| BUG | e P | Z | 07:36:30.5 | 80.6 | 31.8 | 0.8 | 15 | 5.1 |
| GRA1 | e P | Z | 07:36:31.4 | 80.7 | 34.4 | 1.2 | 47 | 5.4 |
| TNS | e P | Z | 07:36:34.0 | 81.3 | 32.6 | 0.9 | 8 | 4.9 |
| | e pP | Z | 07:36:43.2 | | | | | |
| RJOB | e P | Z | 07:36:36.6 | 81.7 | 35.3 | 1.0 | 26 | 5.3 |
| | e pP | Z | 07:36:46.0 | | | | | |
| FUR | e P | Z | 07:36:37.6 | 82.0 | 34.3 | 0.8 | 31 | 5.5 |
| STU | e pP | Z | 07:36:48.2 | 82.2 | 33.0 | | | |
| WLF | e P | Z | 07:36:40.5 | 82.5 | 30.9 | | | |
| BFO | e P | Z | 07:36:42.4 | 82.9 | 32.3 | 1.4 | 36 | 5.4 |
| | e pP | Z | 07:36:51.6 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/23 | 07:37:24.4 | 39.953N | 143.271E | 49.7 | 5.6 | | | SZGRF |
| Off east coast of Honshu, Japan | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| RUE | e P | Z | 07:49:15.9 | 77.7 | 37.3 | 1.2 | 105 | 5.8 | | |
| BSEG | e P | Z | 07:49:16.5 | 77.8 | 35.0 | 1.2 | 161 | 6.0 | | |
| BRG | e P | Z | 07:49:22.2 | 79.0 | 37.2 | 1.2 | 57 | 5.5 | | |
| | e pP | Z | 07:49:36.5 | | | | | | | |

| | | | | | | | | |
|------|------|---|------------|------|------|-----|-----|-----|
| CLL | e P | Z | 07:49:22.1 | 79.0 | 36.6 | 1.2 | 94 | 5.7 |
| | e pP | Z | 07:49:36.4 | | | | | |
| NRDL | e P | Z | 07:49:22.8 | 79.0 | 34.7 | 1.3 | 48 | 5.4 |
| | e pP | Z | 07:49:37.2 | | | | | |
| FBE | e P | Z | 07:49:23.5 | 79.1 | 36.8 | 1.3 | 120 | 5.8 |
| | e pP | Z | 07:49:37.7 | | | | | |
| CLZ | e P | Z | 07:49:25.7 | 79.5 | 34.8 | 1.2 | 111 | 5.7 |
| | e pP | Z | 07:49:40.1 | | | | | |
| NEUB | e P | Z | 07:49:25.3 | 79.5 | 35.7 | 1.2 | 125 | 5.7 |
| | e pP | Z | 07:49:39.5 | | | | | |
| TANN | e P | Z | 07:49:27.3 | 79.9 | 36.1 | 1.4 | 40 | 5.1 |
| | e pP | Z | 07:49:41.7 | | | | | |
| WERD | e P | Z | 07:49:27.6 | 79.9 | 36.0 | 1.3 | 48 | 5.3 |
| | e pP | Z | 07:49:41.9 | | | | | |
| PLN | e P | Z | 07:49:27.8 | 79.9 | 35.9 | 1.3 | 203 | 5.9 |
| | e pP | Z | 07:49:42.3 | | | | | |
| GUNZ | e P | Z | 07:49:28.1 | 80.0 | 36.0 | 1.2 | 63 | 5.4 |
| | e pP | Z | 07:49:42.1 | | | | | |
| IBBN | e P | Z | 07:49:28.3 | 80.0 | 33.1 | 1.2 | 116 | 5.7 |
| | e pP | Z | 07:49:42.4 | | | | | |
| MOX | e P | Z | 07:49:28.0 | 80.0 | 35.6 | 1.3 | 65 | 5.4 |
| | e pP | Z | 07:49:42.5 | | | | | |
| WERN | e P | Z | 07:49:28.4 | 80.0 | 36.0 | 1.2 | 64 | 5.4 |
| | e pP | Z | 07:49:42.6 | | | | | |
| MANZ | e P | Z | 07:49:30.0 | 80.4 | 35.8 | 1.2 | 50 | 5.4 |
| | e pP | Z | 07:49:44.2 | | | | | |
| UBBA | e P | Z | 07:49:30.4 | 80.5 | 34.5 | 1.7 | 59 | 5.3 |
| | e pP | Z | 07:49:44.7 | | | | | |
| ROTZ | e P | Z | 07:49:31.1 | 80.5 | 35.9 | 1.4 | 96 | 5.6 |
| | e pP | Z | 07:49:45.5 | | | | | |
| GEC2 | e P | Z | 07:49:31.3 | 80.7 | 36.8 | 1.4 | 47 | 5.3 |
| | e pP | Z | 07:49:45.6 | | | | | |
| WET | e P | Z | 07:49:32.1 | 80.8 | 36.3 | 1.3 | 72 | 5.5 |
| | e pP | Z | 07:49:46.5 | | | | | |
| BUG | e P | Z | 07:49:32.5 | 80.9 | 32.6 | 1.2 | 66 | 5.5 |
| | e pP | Z | 07:49:46.7 | | | | | |
| GRA1 | e P | Z | 07:49:33.5 | 80.9 | 35.2 | 1.2 | 156 | 5.9 |
| | e pP | Z | 07:49:47.9 | | | | | |
| TNS | e P | Z | 07:49:36.0 | 81.5 | 33.3 | 1.3 | 54 | 5.5 |
| | e pP | Z | 07:49:50.6 | | | | | |
| RJOB | e P | Z | 07:49:38.4 | 81.9 | 36.1 | 1.1 | 93 | 5.8 |
| | e pP | Z | 07:49:52.8 | | | | | |
| FUR | e P | Z | 07:49:39.6 | 82.2 | 35.1 | 1.5 | 157 | 5.9 |
| | e pP | Z | 07:49:54.1 | | | | | |
| STU | e P | Z | 07:49:40.9 | 82.4 | 33.7 | 1.3 | 102 | 5.9 |
| WLF | e P | Z | 07:49:42.8 | 82.8 | 31.7 | 2.0 | 162 | 5.9 |
| BFO | e P | Z | 07:49:44.4 | 83.1 | 33.1 | 1.2 | 118 | 6.0 |
| | e pP | Z | 07:49:58.9 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/23 | 12:06:24.9 | 15.100S | 173.700W | 35.0G | | | | NEIC |
| Tonga Islands | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|-------|------|-------|----|----|----|
| MOX | e PKPbc | Z | 12:25:56.8 | 144.2 | 8.8 | | | | | |
| WERD | e PKPbc | Z | 12:25:56.8 | 144.3 | 10.0 | | | | | |
| GUNZ | e PKPbc | Z | 12:25:57.8 | 144.4 | 10.0 | | | | | |
| WERN | e PKPbc | Z | 12:25:58.1 | 144.5 | 10.1 | | | | | |
| TNS | e PKPbc | Z | 12:25:57.8 | 144.8 | 3.6 | | | | | |
| ROTZ | e PKPbc | Z | 12:25:58.7 | 145.0 | 10.0 | | | | | |
| GRA1 | e PKPbc | Z | 12:25:59.4 | 145.2 | 8.3 | | | | | |
| WLF | e PKPbc | Z | 12:26:00.0 | 145.4 | 359.7 | | | | | |
| WET | e PKPbc | Z | 12:26:00.4 | 145.5 | 11.3 | | | | | |
| GEC2 | e PKPbc | Z | 12:26:00.9 | 145.7 | 12.8 | | | | | |
| BFO | e PKPbc | Z | 12:26:03.6 | 146.7 | 3.6 | | | | | |
| RJOB | e PKPbc | Z | 12:26:04.4 | 146.9 | 11.5 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------------------------------|-------------|--------|----------|-------|----|----|----|--------|
| 2009/06/23 | 14:19:22.3 | 5.200S | 153.800E | 64.0G | | | | NEIC |
| New Ireland, Papua New Guinea, region | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| RGN | e Pdiff | Z | 14:34:35.1 | 121.3 | 47.9 | | | | | |
| | e PP | Z | 14:39:41.6 | | | | | | | |
| RUE | e Pdiff | Z | 14:34:39.5 | 122.5 | 49.3 | | | | | |
| | e PP | Z | 14:39:49.8 | | | | | | | |
| BSEG | e Pdiff | Z | 14:34:42.1 | 123.0 | 45.0 | | | | | |
| | e PKPdf | Z | 14:38:11.7 | | | | | | | |
| | e PP | Z | 14:39:52.9 | | | | | | | |
| BRG | e Pdiff | Z | 14:34:44.5 | 123.4 | 50.3 | | | | | |
| | e PKPdf | Z | 14:38:12.4 | | | | | | | |
| | e PP | Z | 14:39:57.6 | | | | | | | |
| CLL | e Pdiff | Z | 14:34:44.6 | 123.6 | 49.1 | | | | | |
| | e PKPdf | Z | 14:38:12.6 | | | | | | | |
| | e PP | Z | 14:39:58.0 | | | | | | | |
| FBE | e PKPdf | Z | 14:38:13.2 | 123.7 | 49.6 | | | | | |
| HLG | e Pdiff | Z | 14:34:45.6 | 123.8 | 42.2 | | | | | |
| | e PP | Z | 14:39:59.2 | | | | | | | |
| NRDL | e Pdiff | Z | 14:34:47.6 | 124.1 | 45.4 | | | | | |
| | e PKPdf | Z | 14:38:13.8 | | | | | | | |
| | e PP | Z | 14:40:01.3 | | | | | | | |
| NEUB | e Pdiff | Z | 14:34:47.9 | 124.2 | 47.8 | | | | | |
| | e PKPdf | Z | 14:38:14.0 | | | | | | | |
| | e PP | Z | 14:40:03.6 | | | | | | | |

| | | | | |
|------|---------|--------------|-------|------|
| TANN | e Pdiff | Z 14:34:49.2 | 124.4 | 49.0 |
| | e PKPdf | Z 14:38:14.3 | | |
| | e PP | Z 14:40:05.6 | | |
| CLZ | e Pdiff | Z 14:34:49.5 | 124.4 | 46.0 |
| | e PKPdf | Z 14:38:14.8 | | |
| | e PP | Z 14:40:05.4 | | |
| WERD | e PKPdf | Z 14:38:14.5 | 124.5 | 48.8 |
| GUNZ | e PKPdf | Z 14:38:14.7 | 124.5 | 48.9 |
| PLN | e PKPdf | Z 14:38:14.6 | 124.5 | 48.6 |
| WERN | e PKPdf | Z 14:38:14.9 | 124.6 | 48.9 |
| MOX | e Pdiff | Z 14:34:50.0 | 124.7 | 47.9 |
| | e PKPdf | Z 14:38:14.7 | | |
| | e PP | Z 14:40:06.6 | | |
| GEC2 | e Pdiff | Z 14:34:50.7 | 124.8 | 51.1 |
| | e PKPdf | Z 14:38:15.2 | | |
| | e PP | Z 14:40:08.0 | | |
| MANZ | e Pdiff | Z 14:34:51.0 | 124.9 | 48.8 |
| | e PKPdf | Z 14:38:15.4 | | |
| | e PP | Z 14:40:08.0 | | |
| ROTZ | e Pdiff | Z 14:34:51.9 | 125.0 | 49.0 |
| | e PKPdf | Z 14:38:15.5 | | |
| | e PP | Z 14:40:09.0 | | |
| WET | e Pdiff | Z 14:34:52.1 | 125.0 | 50.1 |
| | e PKPdf | Z 14:38:15.7 | | |
| | e PP | Z 14:40:09.7 | | |
| IBBN | e Pdiff | Z 14:34:52.8 | 125.2 | 42.9 |
| | e PKPdf | Z 14:38:16.0 | | |
| | e PP | Z 14:40:09.9 | | |
| UBBA | e Pdiff | Z 14:34:52.9 | 125.3 | 46.1 |
| | e PKPdf | Z 14:38:16.0 | | |
| | e PP | Z 14:40:10.8 | | |
| GRA1 | e Pdiff | Z 14:34:54.1 | 125.5 | 48.0 |
| | e PP | Z 14:40:12.3 | | |
| RJOB | e Pdiff | Z 14:34:55.8 | 126.0 | 50.8 |
| | e PKPdf | Z 14:38:17.1 | | |
| | e PP | Z 14:40:15.5 | | |
| BUG | e Pdiff | Z 14:34:56.3 | 126.1 | 42.8 |
| | e PKPdf | Z 14:38:17.5 | | |
| | e PP | Z 14:40:15.5 | | |
| TNS | e Pdiff | Z 14:34:58.3 | 126.4 | 44.7 |
| | e PKPdf | Z 14:38:18.4 | | |
| | e PP | Z 14:40:17.7 | | |
| FUR | e Pdiff | Z 14:34:58.1 | 126.5 | 48.9 |
| | e PKPdf | Z 14:38:18.4 | | |
| | e PP | Z 14:40:18.4 | | |
| STU | e Pdiff | Z 14:35:01.0 | 127.1 | 46.3 |
| | e PKPdf | Z 14:38:19.6 | | |
| | e PP | Z 14:40:23.0 | | |
| BFO | e Pdiff | Z 14:35:04.6 | 127.8 | 45.6 |

| | | | | | | | | |
|-----|---------|---|------------|-------|------|--|--|--|
| | e PP | Z | 14:40:27.4 | | | | | |
| WLF | e Pdiff | Z | 14:35:05.2 | 127.9 | 42.4 | | | |
| | e PKPdf | Z | 14:38:21.6 | | | | | |
| | e PP | Z | 14:40:27.7 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|----|----|--------|
| 2009/06/24 | 01:32: 8.3 | 28.370N | 129.490E | 33.0N | 5.2 | | | SZGRF |

Ryukyu Islands, Japan

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|----|----|
| BSEG | e P | Z 01:44:29.1 | 82.4 | 50.8 | 0.9 | 24 | 5.4 | | |
| CLL | e P | Z 01:44:30.4 | 82.8 | 52.5 | 0.6 | 12 | 5.3 | | |
| FBE | e P | Z 01:44:31.1 | 82.8 | 52.8 | 0.8 | 10 | 5.1 | | |
| NRDL | e P | Z 01:44:34.2 | 83.4 | 50.5 | 1.0 | 10 | 5.0 | | |
| NEUB | e P | Z 01:44:34.1 | 83.5 | 51.6 | 0.9 | 36 | 5.6 | | |
| TANN | e P | Z 01:44:34.7 | 83.6 | 52.1 | 1.0 | 7 | 4.9 | | |
| WERD | e P | Z 01:44:35.0 | 83.7 | 52.0 | 1.0 | 10 | 5.0 | | |
| GUNZ | e P | Z 01:44:35.4 | 83.7 | 52.0 | 0.9 | 17 | 5.3 | | |
| WERN | e P | Z 01:44:35.5 | 83.7 | 52.0 | 1.0 | 19 | 5.3 | | |
| CLZ | e P | Z 01:44:36.1 | 83.7 | 50.7 | 0.9 | 38 | 5.6 | | |
| MOX | e P | Z 01:44:36.1 | 83.9 | 51.5 | 0.8 | 7 | 5.0 | | |
| GEC2 | e P | Z 01:44:36.2 | 83.9 | 52.8 | 1.2 | 10 | 4.9 | | |
| MANZ | e P | Z 01:44:37.1 | 84.0 | 51.8 | 1.0 | 13 | 5.1 | | |
| ROTZ | e P | Z 01:44:37.9 | 84.1 | 51.8 | 0.9 | 20 | 5.3 | | |
| WET | e P | Z 01:44:37.7 | 84.2 | 52.3 | 1.1 | 7 | 4.8 | | |
| UBBA | e P | Z 01:44:39.7 | 84.6 | 50.3 | 0.8 | 5 | 4.8 | | |
| IBBN | e P | Z 01:44:40.2 | 84.7 | 48.7 | 0.8 | 25 | 5.5 | | |
| GRA1 | e P | Z 01:44:40.7 | 84.7 | 51.1 | 1.3 | 25 | 5.3 | | |
| RJOB | e P | Z 01:44:42.4 | 85.1 | 52.1 | 0.9 | 13 | 5.2 | | |
| BUG | e P | Z 01:44:44.1 | 85.5 | 48.3 | 0.8 | 11 | 5.1 | | |
| FUR | e P | Z 01:44:45.4 | 85.6 | 51.0 | 0.9 | 23 | 5.3 | | |
| BFO | e P | Z 01:44:51.7 | 87.0 | 48.9 | 1.1 | 6 | 4.7 | | |
| WLF | e P | Z 01:44:52.5 | 87.2 | 47.4 | 0.8 | 7 | 4.8 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|--------|---------|-------|-----|-----|----|--------|
| 2009/06/24 | 11:12:20.1 | 1.040S | 16.150W | 37.1 | 5.1 | 4.6 | | SZGRF |

North of Ascension Island

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|-----|----|----|
| BFO | e P | Z 11:21:37.2 | 53.7 | 210.9 | 1.6 | 49 | 5.3 | | |
| | e pP | Z 11:21:47.4 | | | | | | | |
| | e sP | Z 11:21:52.3 | | | | | | | |
| FUR | e P | Z 11:21:44.4 | 54.7 | 214.4 | 0.9 | 36 | 5.4 | | |
| | e pP | Z 11:21:54.3 | | | | | | | |
| RJOB | e P | Z 11:21:45.8 | 54.9 | 216.3 | 1.1 | 15 | 4.9 | | |

| | | | | | | | | | |
|------|------|---|------------|------|-------|------|-----|-----|-----|
| | e pP | Z | 11:21:56.0 | | | | | | |
| TNS | e P | Z | 11:21:49.6 | 55.4 | 210.4 | 1.2 | 28 | 5.2 | |
| | e sP | Z | 11:22:04.2 | | | | | | |
| GRA1 | e P | Z | 11:21:53.1 | 55.9 | 213.7 | 1.4 | 23 | 5.0 | |
| | e L | Z | 11:46:03.9 | | | 19.5 | 520 | | 4.6 |
| WET | e P | Z | 11:21:54.5 | 56.1 | 215.8 | 1.3 | 39 | 5.3 | |
| | e sP | Z | 11:22:09.7 | | | | | | |
| BUG | e P | Z | 11:21:54.6 | 56.1 | 208.6 | 0.9 | 12 | 4.9 | |
| | e pP | Z | 11:22:04.5 | | | | | | |
| | e sP | Z | 11:22:09.2 | | | | | | |
| GEC2 | e P | Z | 11:21:55.3 | 56.2 | 216.8 | 1.7 | 54 | 5.3 | |
| ROTZ | e P | Z | 11:21:56.2 | 56.3 | 214.8 | 1.9 | 44 | 5.2 | |
| | e pP | Z | 11:22:06.5 | | | | | | |
| | e sP | Z | 11:22:11.1 | | | | | | |
| UBBA | e P | Z | 11:21:57.0 | 56.4 | 211.9 | 1.9 | 55 | 5.3 | |
| | e sP | Z | 11:22:12.0 | | | | | | |
| MANZ | e P | Z | 11:21:57.2 | 56.5 | 214.6 | 1.5 | 32 | 5.1 | |
| | e pP | Z | 11:22:07.3 | | | | | | |
| | e sP | Z | 11:22:12.0 | | | | | | |
| WERN | e P | Z | 11:21:59.6 | 56.8 | 214.8 | 1.8 | 39 | 5.1 | |
| | e pP | Z | 11:22:09.7 | | | | | | |
| | e sP | Z | 11:22:14.5 | | | | | | |
| MOX | e P | Z | 11:22:00.0 | 56.8 | 213.8 | 2.2 | 81 | 5.4 | |
| | e pP | Z | 11:22:09.9 | | | | | | |
| | e sP | Z | 11:22:14.8 | | | | | | |
| GUNZ | e P | Z | 11:21:59.9 | 56.9 | 214.7 | 1.2 | 15 | 4.9 | |
| | e pP | Z | 11:22:09.8 | | | | | | |
| | e sP | Z | 11:22:15.0 | | | | | | |
| PLN | e P | Z | 11:22:00.3 | 56.9 | 214.5 | 1.2 | 56 | 5.5 | |
| | e pP | Z | 11:22:10.1 | | | | | | |
| | e sP | Z | 11:22:15.0 | | | | | | |
| WERD | e P | Z | 11:22:00.4 | 56.9 | 214.6 | 1.7 | 33 | 5.1 | |
| | e pP | Z | 11:22:10.5 | | | | | | |
| TANN | e P | Z | 11:22:00.7 | 57.0 | 214.8 | 1.4 | 25 | 5.1 | |
| | e pP | Z | 11:22:10.8 | | | | | | |
| | e sP | Z | 11:22:15.6 | | | | | | |
| NEUB | e P | Z | 11:22:03.6 | 57.4 | 213.8 | 1.4 | 44 | 5.3 | |
| CLZ | e P | Z | 11:22:04.0 | 57.4 | 212.0 | 1.1 | 8 | 4.7 | |
| | e sP | Z | 11:22:18.7 | | | | | | |
| FBE | e P | Z | 11:22:06.1 | 57.7 | 215.6 | 1.7 | 40 | 5.2 | |
| | e pP | Z | 11:22:16.3 | | | | | | |
| | e sP | Z | 11:22:21.0 | | | | | | |
| BRG | e P | Z | 11:22:07.2 | 57.9 | 216.3 | 1.4 | 17 | 4.9 | |
| | e pP | Z | 11:22:17.3 | | | | | | |
| | e sP | Z | 11:22:21.9 | | | | | | |
| CLL | e P | Z | 11:22:07.2 | 57.9 | 215.1 | 1.4 | 23 | 5.0 | |
| | e pP | Z | 11:22:17.5 | | | | | | |
| | e sP | Z | 11:22:22.0 | | | | | | |
| NRDL | e P | Z | 11:22:07.7 | 57.9 | 211.5 | 1.0 | 9 | 4.8 | |

| | | | | | | | | | |
|------|------|---|------------|------|-------|-----|----|-----|--|
| | e pP | Z | 11:22:17.6 | | | | | | |
| BSEG | e P | Z | 11:22:16.1 | 59.2 | 211.3 | 0.8 | 25 | 5.3 | |
| | e sP | Z | 11:22:30.8 | | | | | | |

| | | | | | | | | |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2009/06/24 | 13:36:20.5 | 16.270S | 178.401E | 19.4 | | | | SZGRF |

Fiji Islands

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|----------|---|------------|-------|------|------|-------|----|----|----|
| MOX | e PKPbc | Z | 13:55:51.7 | 144.0 | 21.9 | | | | | |
| WERD | e PKPbc | Z | 13:55:52.1 | 144.0 | 23.1 | | | | | |
| | e pPKPbc | Z | 13:55:57.9 | | | | | | | |
| PLN | e PKPbc | Z | 13:55:52.1 | 144.0 | 22.9 | | | | | |
| GUNZ | e PKPbc | Z | 13:55:52.4 | 144.1 | 23.2 | | | | | |
| | e pPKPbc | Z | 13:55:58.1 | | | | | | | |
| WERN | e PKPbc | Z | 13:55:52.6 | 144.2 | 23.3 | | | | | |
| MANZ | e PKPbc | Z | 13:55:53.6 | 144.5 | 23.1 | | | | | |
| | e pPKPbc | Z | 13:55:59.4 | | | | | | | |
| ROTZ | e PKPbc | Z | 13:55:54.5 | 144.7 | 23.3 | | | | | |
| | e pPKPbc | Z | 13:56:00.3 | | | | | | | |
| GRA1 | e PKPbc | Z | 13:55:55.6 | 145.0 | 21.8 | | | | | |
| WET | e PKPbc | Z | 13:55:55.7 | 145.1 | 24.8 | | | | | |
| | e pPKPbc | Z | 13:56:01.5 | | | | | | | |
| TNS | e PKPbc | Z | 13:55:55.6 | 145.1 | 17.0 | | | | | |
| | e pPKPbc | Z | 13:56:01.4 | | | | | | | |
| GEC2 | e PKPbc | Z | 13:55:55.7 | 145.1 | 26.3 | | | | | |
| | e pPKPbc | Z | 13:56:01.4 | | | | | | | |
| WLF | e PKPbc | Z | 13:55:59.1 | 146.0 | 13.4 | | | | | |
| | e pPKPbc | Z | 13:56:04.9 | | | | | | | |
| STU | e PKPbc | Z | 13:55:59.6 | 146.3 | 18.9 | | | | | |
| RJOB | e PKPbc | Z | 13:55:59.5 | 146.4 | 25.5 | | | | | |
| FUR | e PKPbc | Z | 13:55:59.8 | 146.4 | 22.7 | | | | | |
| BFO | e PKPbc | Z | 13:56:01.2 | 146.9 | 17.7 | | | | | |
| | e pPKPbc | Z | 13:56:07.0 | | | | | | | |

| | | | | | | | | |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
| 2009/06/24 | 16:48:42.5 | 21.430S | 172.400W | 33.0G | | | | SZGRF |

Tonga Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| NRDL | e PKPbc | Z | 17:08:26.5 | 148.9 | 4.5 | | | | | |
| CLZ | e PKPbc | Z | 17:08:28.6 | 149.5 | 5.1 | | | | | |
| CLL | e PKPbc | Z | 17:08:28.9 | 149.8 | 10.0 | | | | | |
| NEUB | e PKPbc | Z | 17:08:29.6 | 150.0 | 7.8 | | | | | |
| BRG | e PKPbc | Z | 17:08:29.8 | 150.1 | 11.9 | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

80

| | | | | | | |
|------|---|-------|---|------------|-------|-------|
| FBE | e | PKPbc | Z | 17:08:30.2 | 150.2 | 10.8 |
| UBBA | e | PKPbc | Z | 17:08:30.5 | 150.6 | 4.5 |
| MOX | e | PKPbc | Z | 17:08:31.0 | 150.6 | 7.6 |
| PLN | e | PKPbc | Z | 17:08:31.4 | 150.7 | 8.7 |
| WERD | e | PKPbc | Z | 17:08:31.4 | 150.7 | 9.0 |
| TANN | e | PKPbc | Z | 17:08:31.4 | 150.8 | 9.3 |
| GUNZ | e | PKPbc | Z | 17:08:31.8 | 150.8 | 9.1 |
| WERN | e | PKPbc | Z | 17:08:32.0 | 150.9 | 9.2 |
| TNS | e | PKPbc | Z | 17:08:32.6 | 151.2 | 1.6 |
| MANZ | e | PKPbc | Z | 17:08:32.6 | 151.2 | 8.7 |
| ROTZ | e | PKPbc | Z | 17:08:33.2 | 151.4 | 9.0 |
| GRA1 | e | PKPbc | Z | 17:08:33.5 | 151.6 | 7.1 |
| WLF | e | PKPbc | Z | 17:08:34.3 | 151.7 | 357.2 |
| WET | e | PKPbc | Z | 17:08:34.1 | 152.0 | 10.5 |
| GEC2 | e | PKPbc | Z | 17:08:34.5 | 152.2 | 12.2 |
| BFO | e | PKPbc | Z | 17:08:36.8 | 153.1 | 1.5 |
| FUR | e | PKPbc | Z | 17:08:36.7 | 153.1 | 7.6 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/24 | 21:10: 2.8 | 25.439N | 121.951E | 33.0N | 5.0 | 4.7 | | SZGRF |
| Taiwan | | | | | | | | |

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| BRG | e P | Z 21:22:14.3 | 81.0 | 60.4 | 1.2 | 6 | 4.5 | | |
| CLL | e P | Z 21:22:15.6 | 81.3 | 59.8 | 1.4 | 10 | 4.7 | | |
| FBE | e P | Z 21:22:16.2 | 81.3 | 60.0 | 1.4 | 18 | 4.9 | | |
| NEUB | e P | Z 21:22:19.7 | 82.0 | 58.9 | 0.9 | 15 | 5.1 | | |
| TANN | e P | Z 21:22:19.6 | 82.0 | 59.3 | 1.4 | 9 | 4.7 | | |
| WERD | e P | Z 21:22:19.9 | 82.1 | 59.2 | 1.2 | 7 | 4.7 | | |
| GUNZ | e P | Z 21:22:20.3 | 82.1 | 59.2 | 1.3 | 15 | 5.0 | | |
| GEC2 | e P | Z 21:22:20.1 | 82.1 | 60.0 | 1.0 | 12 | 5.0 | | |
| WERN | e P | Z 21:22:20.5 | 82.1 | 59.2 | 1.4 | 10 | 4.8 | | |
| PLN | e P | Z 21:22:20.4 | 82.1 | 59.1 | 1.0 | 27 | 5.3 | | |
| MOX | e P | Z 21:22:21.5 | 82.3 | 58.7 | 1.4 | 8 | 4.8 | | |
| CLZ | e P | Z 21:22:22.1 | 82.4 | 57.9 | 1.4 | 17 | 5.1 | | |
| MANZ | e P | Z 21:22:22.0 | 82.4 | 59.0 | 1.1 | 7 | 4.8 | | |
| WET | e P | Z 21:22:22.0 | 82.4 | 59.4 | 1.3 | 9 | 4.8 | | |
| ROTZ | e P | Z 21:22:22.5 | 82.5 | 59.0 | | | | | |
| GRA1 | e P | Z 21:22:25.4 | 83.1 | 58.3 | 1.4 | 25 | 5.3 | | |
| | e L | Z 22:04:28.8 | | | 19.4 | 283 | | 4.7 | |
| UBBA | e P | Z 21:22:25.5 | 83.1 | 57.5 | 2.0 | 23 | 5.1 | | |
| RJOB | e P | Z 21:22:25.8 | 83.2 | 59.2 | 0.9 | 9 | 5.0 | | |
| FUR | e P | Z 21:22:29.3 | 83.8 | 58.2 | 1.1 | 29 | 5.4 | | |
| BUG | e P | Z 21:22:31.1 | 84.2 | 55.6 | 1.1 | 13 | 5.1 | | |
| WLF | e P | Z 21:22:39.2 | 85.8 | 54.6 | 1.0 | 19 | 5.2 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/24 | 22:36:13.7 | 17.126N | 93.339W | 33.0G | 5.2 | | | SZGRF |

Chiapas, Mexico

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|----|----|
| WLF | e P | Z | 22:48:35.6 | 83.0 | 288.2 | 0.8 | 18 | 5.3 | | |
| BUG | e P | Z | 22:48:35.7 | 83.1 | 288.9 | 1.7 | 29 | 5.2 | | |
| IBBN | e P | Z | 22:48:36.0 | 83.1 | 289.1 | 1.4 | 29 | 5.3 | | |
| BSEG | e P | Z | 22:48:40.5 | 84.0 | 291.0 | 1.1 | 62 | 5.7 | | |
| TNS | e P | Z | 22:48:41.8 | 84.2 | 289.9 | 0.9 | 43 | 5.7 | | |
| NRDL | e P | Z | 22:48:42.5 | 84.4 | 290.9 | 1.1 | 30 | 5.4 | | |
| CLZ | e P | Z | 22:48:44.8 | 84.7 | 291.2 | 0.9 | 21 | 5.4 | | |
| BFO | e P | Z | 22:48:44.1 | 84.8 | 290.0 | 1.1 | 13 | 5.1 | | |
| UBBA | e P | Z | 22:48:45.3 | 84.9 | 291.0 | 1.1 | 8 | 4.8 | | |
| STU | e P | Z | 22:48:46.3 | 85.1 | 290.6 | 1.0 | 37 | 5.6 | | |
| NEUB | e P | Z | 22:48:49.7 | 85.8 | 292.3 | 1.1 | 26 | 5.3 | | |
| MOX | e P | Z | 22:48:50.1 | 85.9 | 292.2 | 1.1 | 16 | 5.1 | | |
| GRA1 | e P | Z | 22:48:51.3 | 86.0 | 292.0 | 1.0 | 21 | 5.2 | | |
| PLN | e P | Z | 22:48:52.0 | 86.3 | 292.7 | 1.1 | 73 | 5.7 | | |
| WERD | e P | Z | 22:48:52.5 | 86.4 | 292.8 | 1.3 | 14 | 5.0 | | |
| GUNZ | e P | Z | 22:48:53.0 | 86.4 | 292.8 | 1.0 | 14 | 5.0 | | |
| MANZ | e P | Z | 22:48:52.9 | 86.5 | 292.6 | 1.0 | 7 | 4.7 | | |
| CLL | e P | Z | 22:48:52.8 | 86.5 | 293.2 | 0.8 | 8 | 4.9 | | |
| WERN | e P | Z | 22:48:53.2 | 86.5 | 292.8 | 1.1 | 20 | 5.2 | | |
| TANN | e P | Z | 22:48:53.1 | 86.5 | 292.9 | 1.1 | 14 | 5.0 | | |
| ROTZ | e P | Z | 22:48:53.7 | 86.6 | 292.7 | 1.1 | 7 | 4.7 | | |
| FUR | e P | Z | 22:48:53.9 | 86.6 | 292.1 | 1.0 | 16 | 5.1 | | |
| BRG | e P | Z | 22:48:56.0 | 87.2 | 294.0 | 0.8 | 5 | 4.7 | | |
| WET | e P | Z | 22:48:56.8 | 87.2 | 293.3 | 0.9 | 7 | 4.8 | | |
| GEC2 | e P | Z | 22:48:59.4 | 87.9 | 293.9 | 1.0 | 8 | 5.0 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/25 | 06:43:44.6 | 19.720S | 171.140E | 33.0G | | | | SZGRF |

Vanuatu Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| TANN | e PKPbc | Z | 07:03:17.2 | 145.0 | 36.6 | | | | | |
| WERD | e PKPbc | Z | 07:03:17.3 | 145.0 | 36.3 | | | | | |
| PLN | e PKPbc | Z | 07:03:17.4 | 145.0 | 36.1 | | | | | |
| GUNZ | e PKPbc | Z | 07:03:17.5 | 145.1 | 36.5 | | | | | |
| MOX | e PKPbc | Z | 07:03:17.5 | 145.1 | 35.1 | | | | | |
| WERN | e PKPbc | Z | 07:03:17.8 | 145.1 | 36.6 | | | | | |
| MANZ | e PKPbc | Z | 07:03:18.9 | 145.4 | 36.4 | | | | | |
| UBBA | e PKPbc | Z | 07:03:19.1 | 145.5 | 32.5 | | | | | |
| ROTZ | e PKPbc | Z | 07:03:19.5 | 145.6 | 36.8 | | | | | |
| GEC2 | e PKPbc | Z | 07:03:19.2 | 145.7 | 39.9 | | | | | |

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| WET | e | PKPbc | Z | 07:03:19.9 | 145.8 | 38.4 |
| GRA1 | e | PKPbc | Z | 07:03:21.1 | 146.0 | 35.3 |
| TNS | e | PKPbc | Z | 07:03:21.8 | 146.5 | 30.5 |
| RJOB | e | PKPbc | Z | 07:03:23.5 | 146.9 | 39.6 |
| BFO | e | PKPbc | Z | 07:03:27.2 | 148.2 | 31.9 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/25 | 12:34:24.4 | 22.960S | 11.759W | 23.9 | 5.2 | 4.7 | | SZGRF |

Southern Mid-Atlantic Ridge

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| BFO | e P | Z | 12:45:55.4 | 73.5 | 199.3 | 1.3 | 25 | 5.2 | | |
| | e pP | Z | 12:46:02.2 | | | | | | | |
| RJOB | e P | Z | 12:45:58.5 | 74.1 | 203.4 | 1.2 | 10 | 4.7 | | |
| | e pP | Z | 12:46:05.2 | | | | | | | |
| STU | e P | Z | 12:45:58.9 | 74.1 | 200.0 | 1.3 | 33 | 5.2 | | |
| GEC2 | e P | Z | 12:46:06.1 | 75.3 | 204.2 | 1.7 | 19 | 4.9 | | |
| | e pP | Z | 12:46:12.9 | | | | | | | |
| TNS | e P | Z | 12:46:05.8 | 75.3 | 199.2 | 1.8 | 42 | 5.2 | | |
| | e pP | Z | 12:46:12.9 | | | | | | | |
| WET | e P | Z | 12:46:06.4 | 75.4 | 203.4 | 2.1 | 63 | 5.3 | | |
| | e pP | Z | 12:46:13.2 | | | | | | | |
| GRA1 | e P | Z | 12:46:07.0 | 75.5 | 201.8 | 0.8 | 22 | 5.2 | | |
| | e pP | Z | 12:46:13.7 | | | | | | | |
| | e L | Z | 13:17:44.8 | | | 21.1 | 440 | | 4.7 | |
| ROTZ | e P | Z | 12:46:08.6 | 75.8 | 202.7 | 2.0 | 60 | 5.3 | | |
| | e pP | Z | 12:46:15.6 | | | | | | | |
| MANZ | e P | Z | 12:46:09.7 | 76.0 | 202.6 | 2.2 | 58 | 5.3 | | |
| | e pP | Z | 12:46:16.6 | | | | | | | |
| UBBA | e P | Z | 12:46:11.5 | 76.2 | 200.6 | 1.7 | 36 | 5.2 | | |
| | e pP | Z | 12:46:18.2 | | | | | | | |
| BUG | e P | Z | 12:46:11.2 | 76.3 | 198.0 | 1.3 | 24 | 5.2 | | |
| WERN | e P | Z | 12:46:11.6 | 76.3 | 202.8 | 1.7 | 19 | 4.9 | | |
| | e pP | Z | 12:46:18.3 | | | | | | | |
| GUNZ | e P | Z | 12:46:11.7 | 76.4 | 202.8 | 1.7 | 26 | 5.1 | | |
| | e pP | Z | 12:46:18.6 | | | | | | | |
| WERD | e P | Z | 12:46:12.3 | 76.4 | 202.7 | 1.6 | 21 | 5.0 | | |
| | e pP | Z | 12:46:19.0 | | | | | | | |
| TANN | e P | Z | 12:46:12.5 | 76.4 | 202.9 | 2.2 | 46 | 5.2 | | |
| | e pP | Z | 12:46:19.1 | | | | | | | |
| MOX | e P | Z | 12:46:12.2 | 76.4 | 202.1 | 1.6 | 21 | 5.0 | | |
| | e pP | Z | 12:46:19.4 | | | | | | | |
| NEUB | e P | Z | 12:46:15.5 | 77.0 | 202.2 | 1.2 | 20 | 5.1 | | |
| | e pP | Z | 12:46:22.4 | | | | | | | |
| FBE | e P | Z | 12:46:16.4 | 77.1 | 203.6 | 1.4 | 24 | 5.1 | | |
| | e pP | Z | 12:46:23.3 | | | | | | | |
| IBBN | e P | Z | 12:46:16.7 | 77.2 | 198.4 | 1.1 | 31 | 5.3 | | |

| | | | | | | | | | |
|------|------|---|------------|------|-------|-----|----|-----|--|
| | e pP | Z | 12:46:23.6 | | | | | | |
| BRG | e P | Z | 12:46:17.0 | 77.2 | 204.2 | 1.4 | 10 | 4.8 | |
| | e pP | Z | 12:46:24.0 | | | | | | |
| CLZ | e P | Z | 12:46:17.2 | 77.3 | 200.8 | 2.4 | 65 | 5.3 | |
| | e pP | Z | 12:46:24.1 | | | | | | |
| CLL | e P | Z | 12:46:17.7 | 77.4 | 203.3 | 1.7 | 28 | 5.1 | |
| | e pP | Z | 12:46:24.5 | | | | | | |
| NRDL | e P | Z | 12:46:20.8 | 77.8 | 200.5 | 1.7 | 66 | 5.5 | |
| | e pP | Z | 12:46:27.8 | | | | | | |
| BSEG | e P | Z | 12:46:27.7 | 79.2 | 200.6 | 1.5 | 60 | 5.4 | |
| | e pP | Z | 12:46:34.7 | | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|---------------|-------------|---------|---------|-------|----|----|-----|--------|
| 2009/06/25 | 21:00: 7.7 | 42.245N | 13.688E | 10.0G | | | 4.0 | SZGRF |
| Central Italy | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|-----|
| OBKA | e Pn | Z | 21:01:11.9 | 4.3 | 188.5 | | | | | 4.0 |
| KBA | e Pn | Z | 21:01:18.7 | 4.8 | 177.0 | | | | | 3.9 |
| | e Sn | N | 21:02:10.0 | | | | | | | |
| ARSA | e Pn | Z | 21:01:23.7 | 5.2 | 195.2 | | | | | |
| | e Sn | E | 21:02:19.0 | | | | | | | |
| WTTA | e Pn | Z | 21:01:24.6 | 5.2 | 163.1 | | | | | |
| RJOB | e Pn | Z | 21:01:28.3 | 5.5 | 173.1 | | | | | |
| | e Sn | N | 21:02:27.3 | | | | | | | |
| MOA | e Pn | Z | 21:01:29.9 | 5.6 | 184.4 | | | | | |
| | e Sn | N | 21:02:30.6 | | | | | | | |
| DAVA | e Pn | Z | 21:01:30.7 | 5.7 | 150.4 | | | | | |
| | e Sn | N | 21:02:32.8 | | | | | | | |
| GEC2 | e Pn | Z | 21:01:42.1 | 6.6 | 180.1 | | | | | |
| | e Sn | N | 21:02:50.6 | | | | | | | |
| WET | e Pn | Z | 21:01:45.9 | 6.9 | 175.0 | | | | | |
| ROTZ | e Pn | Z | 21:01:56.0 | 7.6 | 171.7 | | | | | |
| | e Sn | N | 21:03:13.4 | | | | | | | |
| MOX | e Sn | N | 21:03:35.0 | 8.5 | 169.6 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|----------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/26 | 15:30:15.7 | 15.787S | 171.913W | 33.0N | | | | SZGRF |
| Samoa Islands region | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|-----|------|-------|----|----|----|
| CLL | e PKPbc | Z | 15:49:44.8 | 144.3 | 8.1 | | | | | |
| NEUB | e PKPbc | Z | 15:49:45.8 | 144.5 | 6.1 | | | | | |
| BRG | e PKPbc | Z | 15:49:46.0 | 144.6 | 9.8 | | | | | |
| UBBA | e PKPbc | Z | 15:49:47.1 | 144.9 | 3.2 | | | | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

84

| | | | | | | |
|------|---|-------|---|------------|-------|-------|
| MOX | e | PKPbc | Z | 15:49:47.8 | 145.0 | 5.9 |
| PLN | e | PKPbc | Z | 15:49:48.2 | 145.1 | 6.9 |
| WERD | e | PKPbc | Z | 15:49:48.4 | 145.2 | 7.1 |
| TANN | e | PKPbc | Z | 15:49:48.5 | 145.2 | 7.4 |
| GUNZ | e | PKPbc | Z | 15:49:48.9 | 145.3 | 7.2 |
| WERN | e | PKPbc | Z | 15:49:49.2 | 145.3 | 7.3 |
| TNS | e | PKPbc | Z | 15:49:49.8 | 145.6 | 0.6 |
| MANZ | e | PKPbc | Z | 15:49:50.1 | 145.6 | 6.9 |
| ROTZ | e | PKPbc | Z | 15:49:51.1 | 145.9 | 7.1 |
| GRA1 | e | PKPbc | Z | 15:49:51.5 | 146.0 | 5.4 |
| WLF | e | PKPbc | Z | 15:49:52.2 | 146.1 | 356.7 |
| WET | e | PKPbc | Z | 15:49:52.6 | 146.4 | 8.4 |
| GEC2 | e | PKPbc | Z | 15:49:53.0 | 146.6 | 9.9 |
| STU | e | PKPbc | Z | 15:49:54.3 | 147.0 | 2.0 |
| BFO | e | PKPbc | Z | 15:49:55.7 | 147.5 | 0.4 |
| FUR | e | PKPbc | Z | 15:49:55.9 | 147.5 | 5.7 |
| RJOB | e | PKPbc | Z | 15:49:56.5 | 147.8 | 8.5 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|----|--------|
| 2009/06/26 | 19:04:44.1 | 37.362N | 23.099E | 33.0G | | | | SZGRF |

Southern Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| MOA | e P | Z 19:07:52.1 | 12.3 | 145.1 | 1.0 | 5 | | | |
| GEC2 | e P | Z 19:08:03.4 | 13.4 | 145.8 | 0.7 | 8 | | | |
| WET | e P | Z 19:08:09.1 | 13.9 | 144.1 | 1.1 | 6 | | | |
| ROTZ | e P | Z 19:08:17.5 | 14.7 | 143.6 | 1.1 | 4 | | | |
| MANZ | e P | Z 19:08:18.4 | 14.9 | 143.8 | 0.8 | 5 | | | |
| BRG | e P | Z 19:08:20.4 | 15.0 | 150.7 | 1.0 | 6 | | | |
| GRA1 | e P | Z 19:08:23.0 | 15.0 | 140.8 | 1.1 | 20 | | | |
| TANN | e P | Z 19:08:22.6 | 15.1 | 145.7 | 1.4 | 12 | | | |
| GUNZ | e P | Z 19:08:22.7 | 15.1 | 145.3 | 1.0 | | | | |
| WERD | e P | Z 19:08:23.4 | 15.2 | 145.4 | 0.7 | | | | |
| FBE | e P | Z 19:08:23.4 | 15.2 | 149.2 | 0.8 | | | | |
| PLN | e P | Z 19:08:24.1 | 15.3 | 145.1 | 1.0 | | | | |
| MOX | e P | Z 19:08:28.7 | 15.6 | 144.0 | 1.4 | 8 | | | |
| NRDL | e P | Z 19:08:51.9 | 17.6 | 143.9 | 1.3 | 8 | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|----|--------|
| 2009/06/26 | 20:37:58.0 | 37.676N | 23.736E | 33.0G | | | | SZGRF |

Southern Greece

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|-------|------|-------|----|----|----|
| GEC2 | e P | Z 20:41:14.5 | 13.3 | 143.2 | | | | | |
| FUR | e P | Z 20:41:19.4 | 13.9 | 134.6 | | | | | |

| | | | | | |
|------|-----|---|------------|------|-------|
| WET | e P | Z | 20:41:20.8 | 13.9 | 141.6 |
| ROTZ | e P | Z | 20:41:28.9 | 14.6 | 141.3 |
| MANZ | e P | Z | 20:41:31.6 | 14.9 | 141.5 |
| BRG | e P | Z | 20:41:29.8 | 14.9 | 148.5 |
| WERN | e P | Z | 20:41:31.4 | 15.0 | 142.9 |
| GRA1 | e P | Z | 20:41:33.1 | 15.0 | 138.5 |
| TANN | e P | Z | 20:41:32.8 | 15.1 | 143.4 |
| GUNZ | e P | Z | 20:41:33.0 | 15.1 | 143.0 |
| WERD | e P | Z | 20:41:34.0 | 15.1 | 143.1 |
| FBE | e P | Z | 20:41:35.7 | 15.2 | 146.9 |
| PLN | e P | Z | 20:41:35.7 | 15.2 | 142.8 |
| STU | e P | Z | 20:41:36.1 | 15.3 | 131.1 |
| BFO | e P | Z | 20:41:36.6 | 15.5 | 127.9 |
| MOX | e P | Z | 20:41:41.0 | 15.6 | 141.7 |
| CLL | e P | Z | 20:41:39.5 | 15.6 | 146.8 |
| NEUB | e P | Z | 20:41:45.3 | 16.0 | 143.4 |
| RUE | e P | Z | 20:41:48.4 | 16.3 | 150.9 |
| UBBA | e P | Z | 20:41:49.7 | 16.4 | 138.2 |
| TNS | e P | Z | 20:41:53.6 | 16.6 | 133.2 |
| CLZ | e P | Z | 20:41:56.9 | 17.0 | 141.2 |
| WLF | e P | Z | 20:42:01.3 | 17.4 | 126.9 |
| NRDL | e P | Z | 20:42:03.3 | 17.6 | 141.9 |
| BUG | e P | Z | 20:42:08.4 | 18.0 | 133.5 |
| IBBN | e P | Z | 20:42:12.5 | 18.4 | 136.4 |
| BSEG | e P | Z | 20:42:13.3 | 18.7 | 145.0 |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/26 22:15:10.1 37.676N 23.736E 33.0G
 Southern Greece SZGRF

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|----|----|----|
| RJOB | e P | Z | 22:18:19.3 | 12.9 | 137.5 | | | | | |
| GEC2 | e P | Z | 22:18:32.2 | 13.3 | 143.2 | | | | | |
| WET | e P | Z | 22:18:34.1 | 13.9 | 141.6 | | | | | |
| ROTZ | e P | Z | 22:18:44.7 | 14.6 | 141.3 | | | | | |
| MANZ | e P | Z | 22:18:46.9 | 14.9 | 141.5 | | | | | |
| BRG | e P | Z | 22:18:49.0 | 14.9 | 148.5 | | | | | |
| WERN | e P | Z | 22:18:47.1 | 15.0 | 142.9 | | | | | |
| GRA1 | e P | Z | 22:18:49.0 | 15.0 | 138.5 | | | | | |
| TANN | e P | Z | 22:18:48.5 | 15.1 | 143.4 | | | | | |
| GUNZ | e P | Z | 22:18:48.5 | 15.1 | 143.0 | | | | | |
| WERD | e P | Z | 22:18:49.5 | 15.1 | 143.1 | | | | | |
| FBE | e P | Z | 22:18:52.1 | 15.2 | 146.9 | | | | | |
| PLN | e P | Z | 22:18:51.4 | 15.2 | 142.8 | | | | | |
| MOX | e P | Z | 22:18:56.3 | 15.6 | 141.7 | | | | | |
| CLL | e P | Z | 22:18:56.1 | 15.6 | 146.8 | | | | | |
| UBBA | e P | Z | 22:19:05.3 | 16.4 | 138.2 | | | | | |

| | | | | | |
|------|-----|---|------------|------|-------|
| TNS | e P | Z | 22:19:08.5 | 16.6 | 133.2 |
| CLZ | e P | Z | 22:19:12.2 | 17.0 | 141.2 |
| WLF | e P | Z | 22:19:18.4 | 17.4 | 126.9 |
| NRDL | e P | Z | 22:19:18.9 | 17.6 | 141.9 |
| BUG | e P | Z | 22:19:24.0 | 18.0 | 133.5 |
| IBBN | e P | Z | 22:19:27.4 | 18.4 | 136.4 |
| BSEG | e P | Z | 22:19:29.0 | 18.7 | 145.0 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|-----------------------------|-------------|---------|---------|-------|-----|-----|----|--------|
| 2009/06/27 | 15:45:57.3 | 32.500S | 14.240W | 33.0G | 5.5 | 5.1 | | SZGRF |
| Southern Mid-Atlantic Ridge | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| BFO | e P | Z | 15:58:19.0 | 83.3 | 199.0 | 1.0 | 48 | 5.6 | | |
| | e SS | R | 16:14:00.4 | | | | | | | |
| RJOB | e P | Z | 15:58:21.5 | 83.8 | 202.7 | 0.9 | 42 | 5.6 | | |
| | e PP | Z | 16:01:35.9 | | | | | | | |
| | e SS | R | 16:14:07.8 | | | | | | | |
| FUR | e P | Z | 15:58:22.1 | 83.8 | 201.4 | 1.2 | 105 | 5.8 | | |
| | e SS | R | 16:14:06.9 | | | | | | | |
| STU | e P | Z | 15:58:22.3 | 83.9 | 199.7 | 0.9 | 52 | 5.6 | | |
| | e SS | R | 16:14:09.6 | | | | | | | |
| WLF | e P | Z | 15:58:23.6 | 84.1 | 197.2 | 1.2 | 58 | 5.6 | | |
| | e SS | R | 16:14:12.8 | | | | | | | |
| GEC2 | e P | Z | 15:58:28.4 | 85.1 | 203.4 | 1.1 | 26 | 5.4 | | |
| | e PP | Z | 16:01:46.9 | | | | | | | |
| | e SS | R | 16:14:27.2 | | | | | | | |
| TNS | e P | Z | 15:58:28.8 | 85.1 | 199.1 | 1.1 | 26 | 5.4 | | |
| | e PP | Z | 16:01:46.4 | | | | | | | |
| | e SS | R | 16:14:27.8 | | | | | | | |
| WET | e P | Z | 15:58:28.6 | 85.1 | 202.7 | 1.2 | 65 | 5.7 | | |
| | e SS | R | 16:14:28.0 | | | | | | | |
| GRA1 | e P | Z | 15:58:29.4 | 85.2 | 201.3 | 1.0 | 76 | 5.9 | | |
| | e SS | R | 16:14:29.3 | | | | | | | |
| | e L | Z | 16:34:47.6 | | | 19.0 | 886 | | 5.2 | |
| ROTZ | e P | Z | 15:58:30.9 | 85.6 | 202.1 | 1.2 | 52 | 5.6 | | |
| | e PP | Z | 16:01:50.1 | | | | | | | |
| | e SS | R | 16:14:34.2 | | | | | | | |
| MANZ | e P | Z | 15:58:31.6 | 85.7 | 202.0 | 1.1 | 24 | 5.3 | | |
| UBBA | e P | Z | 15:58:33.2 | 86.0 | 200.3 | 1.5 | 22 | 5.2 | | |
| | e SS | R | 16:14:41.8 | | | | | | | |
| BUG | e P | Z | 15:58:33.7 | 86.0 | 198.1 | 1.2 | 44 | 5.6 | | |
| | e SS | R | 16:14:43.3 | | | | | | | |
| WERN | e P | Z | 15:58:33.5 | 86.1 | 202.3 | 1.0 | 23 | 5.4 | | |
| GUNZ | e P | Z | 15:58:33.9 | 86.1 | 202.2 | 1.0 | 33 | 5.5 | | |
| | e PP | Z | 16:01:52.9 | | | | | | | |
| PLN | e P | Z | 15:58:33.8 | 86.2 | 202.1 | 1.4 | 124 | 6.0 | | |

./2009/bul0906.txt

Thu Apr 23 08:38:25 2020

87

| | | | | | | | | | | |
|------|------|---|------------|------|-------|------|-----|-----|-----|--|
| WERD | e P | Z | 15:58:34.0 | 86.2 | 202.2 | 1.0 | 28 | 5.4 | | |
| TANN | e P | Z | 15:58:34.0 | 86.2 | 202.3 | 1.1 | 33 | 5.5 | | |
| | e PP | Z | 16:01:53.3 | | | | | | | |
| | e SS | R | 16:14:45.0 | | | | | | | |
| MOX | e P | Z | 15:58:34.0 | 86.2 | 201.6 | 1.3 | 16 | 5.1 | | |
| | e PP | Z | 16:01:54.7 | | | | | | | |
| | e SS | R | 16:14:45.0 | | | | | | | |
| | e L | Z | 16:35:15.0 | | | 19.5 | 707 | | 5.1 | |
| NEUB | e P | Z | 15:58:37.1 | 86.8 | 201.7 | 1.2 | 58 | 5.7 | | |
| | e PP | Z | 16:01:59.2 | | | | | | | |
| FBE | e P | Z | 15:58:37.9 | 86.9 | 203.0 | 1.3 | 40 | 5.5 | | |
| IBBN | e P | Z | 15:58:38.4 | 87.0 | 198.4 | 1.3 | 49 | 5.6 | | |
| BRG | e P | Z | 15:58:38.1 | 87.0 | 203.5 | 1.2 | 24 | 5.3 | | |
| | e PP | Z | 16:02:02.1 | | | | | | | |
| | e SS | R | 16:14:56.5 | | | | | | | |
| CLZ | e P | Z | 15:58:38.5 | 87.1 | 200.6 | 1.5 | 25 | 5.2 | | |
| | e SS | R | 16:14:57.8 | | | | | | | |
| CLL | e P | Z | 15:58:39.0 | 87.2 | 202.7 | 1.1 | 30 | 5.4 | | |
| | e PP | Z | 16:02:01.5 | | | | | | | |
| | e SS | R | 16:14:59.7 | | | | | | | |
| RUE | e P | Z | 15:58:45.1 | 88.4 | 203.4 | 1.3 | 57 | 5.5 | | |
| | e PP | Z | 16:02:12.6 | | | | | | | |
| BSEG | e P | Z | 15:58:48.3 | 89.0 | 200.5 | 1.2 | 83 | 5.7 | | |
| | e SS | R | 16:15:25.1 | | | | | | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/27 16:38:42.3 21.937S 178.140W 600.0G SZGRF
 Fiji Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 16:57:19.4 | 147.4 | 14.7 | | | | | |
| RUE | e PKPbc | Z | 16:57:21.3 | 148.1 | 21.3 | | | | | |
| IBBN | e PKPbc | Z | 16:57:24.4 | 149.3 | 10.8 | | | | | |
| CLL | e PKPbc | Z | 16:57:24.3 | 149.4 | 20.6 | | | | | |
| CLZ | e PKPbc | Z | 16:57:24.8 | 149.4 | 15.6 | | | | | |
| BRG | e PKPbc | Z | 16:57:25.0 | 149.6 | 22.5 | | | | | |
| FBE | e PKPbc | Z | 16:57:25.5 | 149.7 | 21.5 | | | | | |
| NEUB | e PKPbc | Z | 16:57:25.4 | 149.7 | 18.5 | | | | | |
| MOX | e PKPbc | Z | 16:57:26.7 | 150.3 | 18.5 | | | | | |
| PLN | e PKPbc | Z | 16:57:26.8 | 150.3 | 19.6 | | | | | |
| TANN | e PKPbc | Z | 16:57:26.9 | 150.3 | 20.2 | | | | | |
| WERD | e PKPbc | Z | 16:57:26.9 | 150.3 | 19.9 | | | | | |
| GUNZ | e PKPbc | Z | 16:57:27.2 | 150.4 | 20.0 | | | | | |
| UBBA | e PKPbc | Z | 16:57:26.8 | 150.4 | 15.4 | | | | | |
| WERN | e PKPbc | Z | 16:57:27.4 | 150.5 | 20.1 | | | | | |
| MANZ | e PKPbc | Z | 16:57:28.1 | 150.8 | 19.8 | | | | | |
| ROTZ | e PKPbc | Z | 16:57:28.5 | 151.0 | 20.1 | | | | | |

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| TNS | e | PKPbc | Z | 16:57:29.1 | 151.2 | 12.8 |
| WET | e | PKPbc | Z | 16:57:29.3 | 151.4 | 21.8 |
| | e | PKPab | Z | 16:57:39.3 | | |
| GEC2 | e | PKPbc | Z | 16:57:29.3 | 151.5 | 23.5 |
| WLF | e | PKPbc | Z | 16:57:31.5 | 152.1 | 8.5 |
| STU | e | PKPbc | Z | 16:57:31.9 | 152.5 | 14.9 |
| FUR | e | PKPbc | Z | 16:57:32.1 | 152.7 | 19.3 |
| | e | PKPab | Z | 16:57:44.6 | | |
| RJOB | e | PKPbc | Z | 16:57:31.8 | 152.7 | 22.6 |
| | e | PKPab | Z | 16:57:45.2 | | |
| BFO | e | PKPbc | Z | 16:57:32.9 | 153.1 | 13.4 |
| | e | PKPab | Z | 16:57:46.1 | | |

Date Origin Time Lat Long Depth mb Ms ML Source
 2009/06/28 00:04:33.9 29.100S 59.480E 29.1 5.1 4.1 SZGRF
 Southwest Indian Ridge

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|-------|------|-------|-----|-----|----|
| RJOB | e P | Z | 00:17:17.6 | 87.5 | 140.5 | 1.3 | 12 | 4.9 | | |
| | e PP | Z | 00:20:42.0 | | | | | | | |
| GEC2 | e P | Z | 00:17:19.9 | 88.0 | 141.2 | 1.9 | 25 | 5.2 | | |
| | e pP | Z | 00:17:27.6 | | | | | | | |
| FUR | e P | Z | 00:17:23.2 | 88.5 | 139.3 | 0.9 | 41 | 5.8 | | |
| | e pP | Z | 00:17:31.9 | | | | | | | |
| | e PP | Z | 00:20:50.1 | | | | | | | |
| WET | e P | Z | 00:17:22.5 | 88.6 | 140.6 | 1.7 | 20 | 5.2 | | |
| | e pP | Z | 00:17:31.1 | | | | | | | |
| ROTZ | e P | Z | 00:17:26.3 | 89.3 | 140.1 | 1.8 | 16 | 4.9 | | |
| | e pP | Z | 00:17:35.2 | | | | | | | |
| BRG | e P | Z | 00:17:27.8 | 89.5 | 141.4 | 1.1 | 8 | 4.9 | | |
| MANZ | e pP | Z | 00:17:36.9 | 89.5 | 140.0 | | | | | |
| GRA1 | e P | Z | 00:17:28.3 | 89.7 | 139.3 | 1.5 | 23 | 5.2 | | |
| | e pP | Z | 00:17:37.4 | | | | | | | |
| | e L | Z | 00:55:50.5 | | | 20.2 | 92 | | 4.2 | |
| TANN | e P | Z | 00:17:29.0 | 89.7 | 140.3 | 1.9 | 22 | 5.1 | | |
| GUNZ | e P | Z | 00:17:28.6 | 89.7 | 140.2 | 1.9 | 26 | 5.2 | | |
| | e pP | Z | 00:17:36.9 | | | | | | | |
| FBE | e pP | Z | 00:17:37.9 | 89.8 | 141.0 | | | | | |
| WERD | e P | Z | 00:17:29.1 | 89.8 | 140.1 | 1.7 | 16 | 5.0 | | |
| | e pP | Z | 00:17:37.3 | | | | | | | |
| STU | e P | Z | 00:17:28.9 | 89.9 | 137.8 | | | | | |
| PLN | e P | Z | 00:17:29.6 | 89.9 | 140.0 | 1.8 | 96 | 5.7 | | |
| BFO | e P | Z | 00:17:28.7 | 89.9 | 137.1 | | | | | |
| CLL | e pP | Z | 00:17:39.9 | 90.2 | 140.7 | | | | | |
| MOX | e L | Z | 00:54:33.5 | 90.2 | 139.6 | 22.0 | 47 | | 3.9 | |
| CLZ | e P | Z | 00:17:36.9 | 91.7 | 138.6 | 0.9 | 4 | 4.7 | | |
| WLF | e pP | Z | 00:17:47.1 | 91.9 | 135.5 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/29 | 11:56:31.0 | 22.140S | 170.900E | 163.2 | | | | SZGRF |
| Southeast of Loyalty Islands | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-----------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 12:15:47.3 | 145.0 | 32.4 | | | | | |
| BRG | e PKPbc | Z | 12:15:51.2 | 146.1 | 40.6 | | | | | |
| | e pPKPbc | Z | 12:16:33.5 | | | | | | | |
| CLL | e PKPbc | Z | 12:15:51.1 | 146.2 | 38.8 | | | | | |
| | e pPKPbc | Z | 12:16:33.5 | | | | | | | |
| CLZ | e PKPbc | Z | 12:15:53.1 | 146.7 | 34.2 | | | | | |
| NEUB | e PKPbc | Z | 12:15:52.9 | 146.7 | 37.0 | | | | | |
| | e pPKPbc | Z | 12:16:35.5 | | | | | | | |
| TANN | e PKPbc | Z | 12:15:54.0 | 147.1 | 38.8 | | | | | |
| | e pPKPbc | Z | 12:16:35.8 | | | | | | | |
| PLN | e PKPbc | Z | 12:15:54.1 | 147.1 | 38.2 | | | | | |
| IBBN | e PKPbc | Z | 12:15:54.1 | 147.2 | 29.7 | | | | | |
| GUNZ | e PKPbc | Z | 12:15:54.4 | 147.2 | 38.6 | | | | | |
| | e pPKPbc | Z | 12:16:36.9 | | | | | | | |
| WERN | e PKPbc | Z | 12:15:54.6 | 147.2 | 38.8 | | | | | |
| | e pPKPpdf | Z | 12:16:37.1 | | | | | | | |
| MOX | e PKPbc | Z | 12:15:54.4 | 147.2 | 37.2 | | | | | |
| MANZ | e PKPbc | Z | 12:15:55.4 | 147.6 | 38.6 | | | | | |
| ROTZ | e PKPbc | Z | 12:15:55.9 | 147.7 | 39.0 | | | | | |
| | e pPKPpdf | Z | 12:16:37.1 | | | | | | | |
| UBBA | e PKPbc | Z | 12:15:55.4 | 147.7 | 34.5 | | | | | |
| GEC2 | e PKPbc | Z | 12:15:55.8 | 147.7 | 42.3 | | | | | |
| | e pPKPbc | Z | 12:16:38.3 | | | | | | | |
| WET | e PKPbc | Z | 12:15:56.2 | 147.9 | 40.7 | | | | | |
| TNS | e PKPbc | Z | 12:15:58.5 | 148.7 | 32.5 | | | | | |
| RJOB | e PKPbc | Z | 12:15:58.7 | 149.0 | 42.1 | | | | | |
| STU | e PKPbc | Z | 12:16:00.8 | 149.7 | 35.1 | | | | | |
| WLF | e PKPbc | Z | 12:16:02.0 | 150.0 | 29.1 | | | | | |
| BFO | e PKPbc | Z | 12:16:02.2 | 150.3 | 34.1 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------------------|-------------|---------|----------|-------|----|----|----|--------|
| 2009/06/29 | 17:21:25.1 | 25.530S | 175.140W | 33.0N | | | | SZGRF |
| South of Tonga Islands | | | | | | | | |

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| BSEG | e PKPbc | Z | 17:41:25.4 | 151.3 | 10.3 | | | | | |
| CLZ | e PKPbc | Z | 17:41:30.5 | 153.4 | 11.1 | | | | | |
| CLL | e PKPbc | Z | 17:41:30.3 | 153.5 | 16.6 | | | | | |
| BRG | e PKPbc | Z | 17:41:31.0 | 153.7 | 18.8 | | | | | |

| | | | | | | |
|------|---|-------|---|------------|-------|------|
| FBE | e | PKPbc | Z | 17:41:31.4 | 153.8 | 17.6 |
| MOX | e | PKPbc | Z | 17:41:32.3 | 154.4 | 14.2 |
| PLN | e | PKPbc | Z | 17:41:32.4 | 154.4 | 15.4 |
| MANZ | e | PKPbc | Z | 17:41:33.6 | 154.9 | 15.6 |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|-------|-----|-----|----|--------|
| 2009/06/29 | 18:03:56.7 | 31.920N | 103.820E | 27.7 | 5.4 | 4.9 | | SZGRF |

Sichuan, China

| Sta | Phase | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|--------------|------|------|------|-------|-----|-----|----|
| BRG | e P | Z 18:14:40.1 | 65.7 | 68.6 | 0.9 | 22 | 5.4 | | |
| FBE | e P | Z 18:14:42.5 | 66.0 | 68.2 | 1.0 | 23 | 5.4 | | |
| | e pP | Z 18:14:50.3 | | | | | | | |
| CLL | e P | Z 18:14:42.2 | 66.1 | 68.2 | 0.9 | 15 | 5.2 | | |
| GEC2 | e P | Z 18:14:46.0 | 66.6 | 67.6 | 1.0 | 16 | 5.2 | | |
| BSEG | e P | Z 18:14:46.6 | 66.6 | 67.4 | 0.9 | 90 | 6.0 | | |
| | e pP | Z 18:14:54.3 | | | | | | | |
| TANN | e P | Z 18:14:46.8 | 66.8 | 67.4 | 0.9 | 15 | 5.2 | | |
| WERD | e P | Z 18:14:47.2 | 66.8 | 67.4 | 0.9 | 15 | 5.2 | | |
| | e pP | Z 18:14:54.9 | | | | | | | |
| NEUB | e P | Z 18:14:47.3 | 66.9 | 67.3 | 1.0 | 29 | 5.5 | | |
| GUNZ | e P | Z 18:14:47.6 | 66.9 | 67.3 | 0.9 | 24 | 5.4 | | |
| | e pP | Z 18:14:55.4 | | | | | | | |
| WERN | e P | Z 18:14:47.5 | 66.9 | 67.3 | 1.1 | 22 | 5.3 | | |
| PLN | e P | Z 18:14:47.6 | 66.9 | 67.3 | 0.9 | 53 | 5.8 | | |
| | e pP | Z 18:14:55.6 | | | | | | | |
| WET | e P | Z 18:14:48.5 | 67.0 | 67.2 | 1.0 | 11 | 5.0 | | |
| MANZ | e P | Z 18:14:49.2 | 67.1 | 67.0 | 1.2 | 22 | 5.2 | | |
| ROTZ | e P | Z 18:14:49.9 | 67.2 | 67.0 | 0.9 | 27 | 5.5 | | |
| MOX | e P | Z 18:14:49.2 | 67.2 | 67.0 | 1.3 | 17 | 5.1 | | |
| | e L | Z 18:45:49.9 | | | 20.5 | 600 | | 4.8 | |
| CLZ | e P | Z 18:14:51.5 | 67.4 | 66.6 | 0.9 | 38 | 5.6 | | |
| RJOB | e P | Z 18:14:52.2 | 67.6 | 66.6 | 1.4 | 20 | 5.1 | | |
| GRA1 | e P | Z 18:14:53.7 | 67.8 | 66.3 | 0.9 | 44 | 5.7 | | |
| | e L | Z 18:45:59.1 | | | 21.1 | 1176 | | 5.1 | |
| UBBA | e P | Z 18:14:54.5 | 68.0 | 66.0 | 1.8 | 26 | 5.2 | | |
| FUR | e P | Z 18:14:57.5 | 68.4 | 65.8 | 0.8 | 61 | 5.9 | | |
| TNS | e P | Z 18:15:01.8 | 69.2 | 64.7 | 0.8 | 13 | 5.2 | | |
| BUG | e P | Z 18:15:02.8 | 69.3 | 64.3 | 1.3 | 26 | 5.2 | | |
| BFO | e P | Z 18:15:07.1 | 70.1 | 64.0 | | | | | |
| | e pP | Z 18:15:15.0 | | | | | | | |
| WLF | e P | Z 18:15:12.2 | 70.7 | 63.0 | 1.0 | 65 | 5.7 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|----------|--------|----|----|----|--------|
| 2009/06/29 | 20:13:23.0 | 15.940S | 177.340W | 300.0G | | | | SZGRF |

Fiji Islands region

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|---------|---|------------|-------|------|------|-------|----|----|----|
| ROTZ | e PKPbc | Z | 20:32:24.8 | 145.3 | 16.3 | | | | | |
| TNS | e PKPbc | Z | 20:32:25.0 | 145.4 | 9.8 | | | | | |
| GRA1 | e PKPbc | Z | 20:32:25.5 | 145.5 | 14.7 | | | | | |
| WET | e PKPbc | Z | 20:32:26.4 | 145.8 | 17.7 | | | | | |
| GEC2 | e PKPbc | Z | 20:32:26.5 | 145.9 | 19.2 | | | | | |
| WLF | e PKPbc | Z | 20:32:28.0 | 146.2 | 6.0 | | | | | |
| FUR | e PKPbc | Z | 20:32:30.3 | 147.0 | 15.3 | | | | | |
| RJOB | e PKPbc | Z | 20:32:30.3 | 147.1 | 18.2 | | | | | |
| BFO | e PKPbc | Z | 20:32:30.5 | 147.3 | 10.1 | | | | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|-----|----|----|--------|
| 2009/06/29 | 21:22:19.6 | 43.222N | 63.775E | 20.0G | 4.7 | | | SZGRF |

Western Kazakhstan

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|------|-------|---|------------|------|------|------|-------|-----|----|----|
| BRG | e P | Z | 21:29:02.4 | 34.1 | 83.1 | 0.7 | 10 | 4.9 | | |
| | e pP | Z | 21:29:07.7 | | | | | | | |
| RGN | e pP | Z | 21:29:07.6 | 34.2 | 88.0 | | | | | |
| FBE | e P | Z | 21:29:05.8 | 34.5 | 82.8 | 1.2 | 21 | 5.0 | | |
| | e pP | Z | 21:29:11.1 | | | | | | | |
| GEC2 | e P | Z | 21:29:07.0 | 34.6 | 80.0 | 1.0 | 16 | 4.9 | | |
| CLL | e P | Z | 21:29:06.5 | 34.7 | 83.1 | 1.1 | 11 | 4.7 | | |
| | e pP | Z | 21:29:11.6 | | | | | | | |
| | e PP | Z | 21:30:16.2 | | | | | | | |
| WET | e P | Z | 21:29:10.7 | 35.1 | 79.9 | 1.1 | 12 | 4.7 | | |
| | e pP | Z | 21:29:16.5 | | | | | | | |
| TANN | e P | Z | 21:29:11.1 | 35.1 | 81.5 | 1.2 | 12 | 4.7 | | |
| | e pP | Z | 21:29:16.6 | | | | | | | |
| GUNZ | e P | Z | 21:29:11.9 | 35.2 | 81.3 | 1.0 | 9 | 4.7 | | |
| WERD | e P | Z | 21:29:11.8 | 35.2 | 81.4 | 1.1 | 8 | 4.5 | | |
| | e pP | Z | 21:29:17.0 | | | | | | | |
| PLN | e P | Z | 21:29:12.3 | 35.3 | 81.4 | 0.9 | 21 | 5.1 | | |
| NEUB | e P | Z | 21:29:13.4 | 35.4 | 82.1 | 0.8 | 10 | 4.7 | | |
| | e pP | Z | 21:29:18.7 | | | | | | | |
| MOX | e P | Z | 21:29:15.0 | 35.6 | 81.2 | 1.1 | 8 | 4.4 | | |
| | e pP | Z | 21:29:20.7 | | | | | | | |
| BSEG | e P | Z | 21:29:17.9 | 36.0 | 84.9 | 1.3 | 28 | 4.9 | | |
| | e pP | Z | 21:29:23.5 | | | | | | | |
| GRA1 | e P | Z | 21:29:19.7 | 36.0 | 79.7 | 1.1 | 19 | 4.8 | | |
| | e pP | Z | 21:29:24.9 | | | | | | | |
| BFO | e P | Z | 21:29:37.0 | 38.2 | 76.3 | 1.0 | 7 | 4.3 | | |

| Date | Origin Time | Lat | Long | Depth | mb | Ms | ML | Source |
|------------|-------------|---------|---------|-------|----|----|-----|--------|
| 2009/06/30 | 00:38: 8.6 | 42.113N | 13.440E | 10.0G | | | 3.7 | SZGRF |

Central Italy

| Sta | Phase | | Time | Dist | BAz | T[s] | A[nm] | mb | MS | ML |
|-------|-------|---|------------|------|-------|------|-------|----|----|-----|
| OBKA | e Pn | Z | 00:39:14.9 | 4.5 | 190.6 | | | | | 3.9 |
| KBA | e Pn | Z | 00:39:21.6 | 5.0 | 179.2 | | | | | 3.7 |
| | e Sn | E | 00:40:12.5 | | | | | | | |
| WTTA | e Pn | Z | 00:39:26.9 | 5.3 | 165.4 | | | | | 3.9 |
| | e Sn | E | 00:40:23.6 | | | | | | | |
| ARSA | e Pn | Z | 00:39:26.8 | 5.3 | 196.8 | | | | | 3.3 |
| | e Sn | N | 00:40:24.7 | | | | | | | |
| RJOB | e Pn | Z | 00:39:31.1 | 5.6 | 175.1 | | | | | 3.7 |
| | e Sn | N | 00:40:31.0 | | | | | | | |
| PLONS | e Pn | Z | 00:39:32.2 | 5.7 | 148.2 | | | | | 3.5 |
| | e Sn | N | 00:40:32.4 | | | | | | | |
| OBER | e Sn | N | 00:40:33.7 | 5.7 | 156.0 | | | | | 3.8 |
| DAVA | e Pn | Z | 00:39:32.6 | 5.8 | 152.7 | | | | | 4.0 |
| | e Sn | E | 00:40:35.4 | | | | | | | |
| MOA | e Sn | N | 00:40:33.9 | 5.8 | 186.1 | | | | | 3.8 |
| WILA | e Pn | Z | 00:39:37.3 | 6.2 | 147.1 | | | | | 3.8 |
| | e Sn | N | 00:40:43.4 | | | | | | | |
| BALST | e Pn | Z | 00:39:42.4 | 6.6 | 139.9 | | | | | 3.8 |
| | e Sn | E | 00:40:53.2 | | | | | | | |
| GEC2 | e Pn | Z | 00:39:44.7 | 6.7 | 181.7 | | | | | 3.7 |
| | e Sn | N | 00:40:55.7 | | | | | | | |
| WET | e Pn | Z | 00:39:49.3 | 7.0 | 176.6 | | | | | 3.6 |
| | e Sn | Z | 00:41:01.5 | | | | | | | |
| BFO | e Pn | Z | 00:39:51.5 | 7.2 | 148.1 | | | | | 3.7 |
| | e Sn | N | 00:41:04.8 | | | | | | | |
| ROTZ | e Sn | E | 00:41:14.7 | 7.7 | 173.2 | | | | | 3.5 |

Format description

=====

(T. Plenefisch, Email: plene@szgrf.bgr.de)

In general all regional and teleseismic events clearly recorded with stations of the Gräfenberg-Array (GRF) and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Each event is reported by an EPICENTER LINE, a REGION LINE and a block of PHASE LINES.

EPICENTER LINE:

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, SED, MAD)

REGION LINE:

The region name of the epicenter location.

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
 Component where the phase was picked

Time Arrival time of the reported phase
Dist Distance from the epicenter location to the station in degree
BAz Backazimuth from the epicenter location 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