

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

(produced by the Federal Seismological Survey/BGR - HANNOVER)

August 2021      UPDATED 9.November 2022

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

Event 10801001 Iceland region

| Date            | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|---------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/01      | 00:55:31.12 |     | 62.8300 | -25.3800 |           |      |      |    | 10.0  |     |      | 20   |     | 20.38 | 25.50 | m i ke | BGR    |
| OrigID 10801007 |             |     |         |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.6 |      | BGR    | 10801007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow  | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|-------|------|-----|-----|------|------|--------|-----------|
| ASSE | 21.80 |      | P     | 01:00:23.204 |      | 317.0 |       | 10.09 |      | TAS |     | 24.1 | 0.94 | m_e mb | 4.6       |
| BFO  | 23.55 |      | P     | 01:00:41.853 | -0.9 | 317.0 |       | 10.09 |      | TAS |     | 12.1 | 0.89 | m_e mb | 4.4       |
| BRG  | 24.14 |      | P     | 01:00:46.591 |      | 317.0 |       | 10.09 |      | TAS |     | 9.6  | 0.93 | m_e mb | 4.3       |
| BSEG | 20.43 |      | P     | 01:00:09.305 | -1.3 | 317.0 |       | 10.09 |      | TAS |     | 21.8 | 0.88 | m_e mb | 4.4       |
| CLL  | 23.41 |      | P     | 01:00:39.551 | -0.6 | 317.0 |       | 10.09 |      | TAS |     | 9.2  | 0.83 | m_e mb | 4.3       |
| CLZ  | 21.86 |      | P     | 01:00:24.802 | 3.2  | 317.0 |       | 10.09 |      | TAS |     | 44.4 | 0.95 | m_e mb | 4.9       |
| FLT1 | 21.91 |      | P     | 01:00:24.127 | -0.3 | 317.0 |       | 10.09 |      | TAS |     | 21.4 | 0.92 | m_e mb | 4.6       |
| GEC2 | 25.50 |      | P     | 01:00:59.987 |      | 317.0 |       | 10.09 |      | TAS |     | 7.9  | 1.06 | m_e mb | 4.3       |
| GRA1 | 23.78 |      | P     | 01:00:45.676 |      | 317.0 |       | 10.09 |      | TAS |     | 16.3 | 1.03 | m_e mb | 4.5       |
| GTTG | 21.89 |      | P     | 01:00:24.454 | -1.1 | 317.0 |       | 10.09 |      | TAS |     | 50.6 | 0.92 | m_e mb | 4.9       |
| IBBN | 20.38 |      | P     | 01:00:09.870 | 0.1  | 317.0 |       | 10.09 |      | TAS |     |      |      | m_e    |           |
| KAST | 21.45 |      | P     | 01:00:19.381 | 0.1  | 317.0 |       | 10.09 |      | TAS |     | 17.2 | 0.99 | m_e mb | 4.3       |
| MOX  | 23.26 |      | P     | 01:00:37.836 | 0.2  | 317.0 |       | 10.09 |      | TAS |     | 11.0 | 0.89 | m_e mb | 4.4       |
| NEUB | 22.94 |      | P     | 01:00:35.194 | 2.4  | 317.0 |       | 10.09 |      | TAS |     | 27.8 | 0.90 | m_e mb | 4.8       |
| RUE  | 22.96 |      | P     | 01:00:37.482 | 1.4  | 317.0 |       | 10.09 |      | TAS |     | 42.3 | 0.89 | m_e mb | 5.0       |
| STU  | 23.59 |      | P     | 01:00:44.013 | -1.6 | 317.0 |       | 10.09 |      | TAS |     | 43.2 | 0.93 | m_e mb | 5.0       |
| TANN | 23.80 |      | P     | 01:00:44.477 |      | 317.0 |       | 10.09 |      | TAS |     | 9.8  | 0.93 | m_e mb | 4.3       |
| TNS  | 22.18 |      | P     | 01:00:26.990 | 1.1  | 317.0 |       | 10.09 |      | TAS |     | 16.6 | 0.85 | m_e mb | 4.5       |
| WET  | 24.91 |      | P     | 01:00:54.810 |      | 317.0 |       | 10.09 |      | TAS |     | 20.5 | 1.00 | m_e mb | 4.8       |
| WLF  | 21.61 |      | P     | 01:00:20.557 | -0.8 | 317.0 |       | 10.09 |      | TAS |     | 18.8 | 0.84 | m_e mb | 4.5       |

Event 10801002 Iceland region

| Date       | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|---------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/01 | 01:25:56.98 |     | 62.5020 | -25.0780 |           |      |      |    | 10.0  |     |      | 9    |     | 20.25 | 25.28 | m i ke | BGR    |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.3 |      | BGR    | 10801008 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|--------|-----------|
| BRG  | 23.94 |      | P     | 01:31:07.386 |      | 316.7 |       | 9.76 |      | TAS |     | 4.7  | 0.92 | m_e mb | 4.0       |
| BSEG | 20.25 |      | P     | 01:30:30.505 | 2.3  | 316.7 |       | 9.76 |      | TAS |     | 8.9  | 0.78 | m_e mb | 4.1       |
| CLL  | 23.21 |      | P     | 01:31:02.867 |      | 316.7 |       | 9.76 |      | TAS |     | 11.5 | 1.12 | m_e mb | 4.3       |
| CLZ  | 21.65 |      | P     | 01:30:45.627 |      | 316.7 |       | 9.76 |      | TAS |     | 16.9 | 0.92 | m_e mb | 4.5       |
| GEC2 | 25.28 |      | P     | 01:31:22.125 |      | 316.7 |       | 9.76 |      | TAS |     | 20.8 | 1.45 | m_e mb | 4.7       |
| GTTG | 21.67 |      | P     | 01:30:45.861 |      | 316.7 |       | 9.76 |      | TAS |     | 15.6 | 0.77 | m_e mb | 4.5       |
| KAST | 21.22 |      | P     | 01:30:40.745 |      | 316.7 |       | 9.76 |      | TAS |     | 18.4 | 1.16 | m_e mb | 4.3       |
| MOX  | 23.05 |      | P     | 01:30:59.398 |      | 316.7 |       | 9.76 |      | TAS |     |      |      | m_e    |           |
| TANN | 23.59 |      | P     | 01:31:02.667 |      | 316.7 |       | 9.76 |      | TAS |     | 4.3  | 0.72 | m_e mb | 4.1       |
| TNS  | 21.94 |      | P     | 01:30:48.730 |      | 316.7 |       | 9.76 |      | TAS |     | 9.7  | 0.90 | m_e mb | 4.2       |
| WET  | 24.69 |      | P     | 01:31:15.985 |      | 316.7 |       | 9.76 |      | TAS |     | 17.7 | 1.31 | m_e mb | 4.6       |
| WLF  | 21.36 |      | P     | 01:30:42.349 |      | 316.7 |       | 9.76 |      | TAS |     | 5.3  | 0.75 | m_e mb | 4.0       |

Event 10801003 Dodecanese Islands, Greece

| Date       | Time        | Err  | RMS  | Latitude | Longitude | Smaj | Smin | Az  | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|------|------|----------|-----------|------|------|-----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/01 | 04:31:36.60 | 2.75 | 0.66 | 37.0700  | 26.5400   | 50.0 | 46.7 | 159 | 10.0  |     |      | 21   | 344 | 15.03 | 20.25 | m i ke | BGR    |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.7 |      | BGR    | 10801009 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow  | SRes | Def | SNR | Amp   | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|-------|------|-----|-----|-------|------|--------|-----------|
| ASSE | 18.75 |      | P     | 04:35:55.515 | -1.1 | 133.7 |       | 11.21 |      | TAS |     | 121.2 | 1.36 | m_e mb | 5.0       |
| BFO  | 17.43 |      | P     | 04:35:41.471 | 0.2  | 133.7 |       | 11.21 |      | TAS |     | 52.7  | 0.87 | m_e mb | 4.7       |
| BRG  | 16.47 |      | P     | 04:35:31.084 | 1.0  | 133.7 |       | 11.21 |      | TAS |     | 41.8  | 1.06 | m_e mb | 4.5       |
| BSEG | 20.25 |      | P     | 04:36:11.999 |      | 133.7 |       | 11.21 |      | TAS |     | 33.4  | 0.78 | m_e mb | 4.6       |
| CLL  | 17.18 |      | P     | 04:35:40.010 | 0.7  | 133.7 |       | 11.21 |      | TAS |     | 43.9  | 0.98 | m_e mb | 4.5       |
| CLZ  | 18.67 |      | P     | 04:35:55.253 | -0.6 | 133.7 |       | 11.21 |      | TAS |     | 26.9  | 0.85 | m_e mb | 4.5       |
| FLT1 | 18.67 |      | P     | 04:35:54.447 | -0.8 | 133.7 |       | 11.21 |      | TAS |     | 40.1  | 0.92 | m_e mb | 4.6       |
| FUR  | 15.75 |      | P     | 04:35:23.118 | 0.6  | 133.7 |       | 11.21 |      | TAS |     | 217.2 | 1.08 | m_e mb | 5.2       |
| GEC2 | 15.03 |      | P     | 04:35:13.233 | -1.8 | 133.7 |       | 11.21 |      | TAS |     | 47.8  | 0.88 | m_e    |           |
| GRA1 | 16.78 |      | P     | 04:35:33.255 | -1.4 | 133.7 |       | 11.21 |      | TAS |     | 53.6  | 0.85 | m_e    |           |

|      |       |   |              |      |       |       |     |       |      |     |
|------|-------|---|--------------|------|-------|-------|-----|-------|------|-----|
| GTTG | 18.64 | P | 04:35:54.974 | -0.3 | 133.7 | 11.21 | TAS | 90.7  | 0.97 | m_e |
| IBBN | 20.15 | P | 04:36:11.564 |      | 133.7 | 11.21 | TAS | 237.1 | 1.45 | m_e |
| KAST | 19.12 | P | 04:35:59.767 | 0.6  | 133.7 | 11.21 | TAS | 26.0  | 0.87 | m_e |
| MOX  | 17.27 | P | 04:35:40.677 | 1.5  | 133.7 | 11.21 | TAS | 37.5  | 0.84 | m_e |
| NEUB | 17.60 | P | 04:35:43.719 | 2.3  | 133.7 | 11.21 | TAS | 36.2  | 0.89 | m_e |
| RUE  | 17.82 | P | 04:35:46.086 | -0.0 | 133.7 | 11.21 | TAS | 50.6  | 0.94 | m_e |
| STU  | 17.21 | P | 04:35:39.922 | 1.8  | 133.7 | 11.21 | TAS | 274.3 | 0.77 | m_e |
| TANN | 16.73 | P | 04:35:32.568 | -1.3 | 133.7 | 11.21 | TAS | 32.8  | 0.95 | m_e |
| TNS  | 18.48 | P | 04:35:53.409 | -0.5 | 133.7 | 11.21 | TAS | 62.5  | 0.76 | m_e |
| WET  | 15.62 | P | 04:35:20.037 | -1.6 | 133.7 | 11.21 | TAS | 77.7  | 0.86 | m_e |
| WLF  | 19.36 | P | 04:36:02.550 | 0.1  | 133.7 | 11.21 | TAS | 102.9 | 0.98 | m_e |

Event 10801005 Iceland region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/01         | 10:40:28.95 |     |     | 62.9420  | -24.9410  |      |      |    | 10.0  |     |      | 19   |     | 20.26 | 25.34 | m i ke | BGR    |
| OrigID<br>10801011 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.7 |      | BGR    | 10801011 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|------|--------|-----------|
| ASSE | 21.63 | P    |       | 10:45:19.112 | -0.1 | 317.8 |       | 9.83 |      | TAS |     | 98.3  | 1.26 | m_e mb | 5.1       |
| BFO  | 23.41 | P    |       | 10:45:36.921 | -0.9 | 317.8 |       | 9.83 |      | TAS |     | 20.3  | 1.11 | m_e mb | 4.6       |
| BRG  | 23.97 | P    |       | 10:45:42.224 |      | 317.8 |       | 9.83 |      | TAS |     | 8.8   | 0.92 | m_e mb | 4.3       |
| BSEG | 20.26 | P    |       | 10:45:04.852 | 2.0  | 317.8 |       | 9.83 |      | TAS |     | 41.5  | 1.12 | m_e mb | 4.6       |
| CLL  | 23.24 | P    |       | 10:45:36.989 | 0.2  | 317.8 |       | 9.83 |      | TAS |     | 30.6  | 1.15 | m_e mb | 4.7       |
| CLZ  | 21.70 | P    |       | 10:45:19.853 | 2.5  | 317.8 |       | 9.83 |      | TAS |     | 48.1  | 0.97 | m_e mb | 4.9       |
| FLT1 | 21.74 | P    |       | 10:45:19.127 | 2.0  | 317.8 |       | 9.83 |      | TAS |     | 38.7  | 1.04 | m_e mb | 4.8       |
| GEC2 | 25.34 | P    |       | 10:45:55.104 |      | 317.8 |       | 9.83 |      | TAS |     | 13.3  | 1.15 | m_e mb | 4.6       |
| GRA1 | 23.62 | P    |       | 10:45:39.631 |      | 317.8 |       | 9.83 |      | TAS |     | 20.2  | 1.02 | m_e mb | 4.6       |
| GTTG | 21.72 | P    |       | 10:45:20.113 | -0.5 | 317.8 |       | 9.83 |      | TAS |     | 121.2 | 1.13 | m_e mb | 5.2       |
| KAST | 21.29 | P    |       | 10:45:14.793 | -0.6 | 317.8 |       | 9.83 |      | TAS |     | 28.6  | 1.04 | m_e mb | 4.5       |
| MOX  | 23.10 | P    |       | 10:45:33.686 | -0.3 | 317.8 |       | 9.83 |      | TAS |     | 17.2  | 0.97 | m_e mb | 4.5       |
| NEUB | 22.77 | P    |       | 10:45:30.654 | 0.9  | 317.8 |       | 9.83 |      | TAS |     | 68.1  | 1.03 | m_e mb | 5.1       |
| RUE  | 22.78 | P    |       | 10:45:31.823 | 0.2  | 317.8 |       | 9.83 |      | TAS |     | 101.4 | 1.05 | m_e mb | 5.3       |
| STU  | 23.44 | P    |       | 10:45:38.082 | -1.2 | 317.8 |       | 9.83 |      | TAS |     | 67.0  | 1.14 | m_e mb | 5.1       |
| TANN | 23.64 | P    |       | 10:45:39.035 |      | 317.8 |       | 9.83 |      | TAS |     | 13.5  | 0.94 | m_e mb | 4.5       |
| TNS  | 22.02 | P    |       | 10:45:22.624 | 0.6  | 317.8 |       | 9.83 |      | TAS |     | 32.5  | 1.16 | m_e mb | 4.7       |
| WET  | 24.75 | P    |       | 10:45:49.683 |      | 317.8 |       | 9.83 |      | TAS |     | 27.1  | 1.06 | m_e mb | 4.9       |
| WLF  | 21.47 | P    |       | 10:45:19.099 | -0.9 | 317.8 |       | 9.83 |      | TAS |     | 12.8  | 0.90 | m_e mb | 4.2       |

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual    | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|---------|--------|
| 2021/08/02         | 22:49:03.37 |     |     | -1.6400  | 98.3400   |      |      |    | 33.0  |     |      | 22   |     | 87.71 | 92.68 | m i k e | BGR    |
| OrigID<br>10802011 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |         |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.8 |      | BGR    | 10802011 |
| Ms        | 5.9 |      | BGR    | 10802011 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|--------|-------|------|-----------|
| ASSE | 89.86 |      | P     | 23:01:59.438 | -0.2 | 93.3 |       | 4.70 |      | TAS |     | 42.4   | 1.26  | m_e  | mb 5.5    |
| BFO  | 91.24 |      | P     | 23:02:06.587 |      | 93.3 |       | 4.70 |      | TAS |     | 51.5   | 1.79  | m_e  | mb 5.6    |
| BRG  | 87.74 |      | P     | 23:01:50.492 | -0.0 | 93.3 |       | 4.70 |      | TAS |     | 289.3  | 2.13  | m_e  | mb 6.2    |
| BSEG | 90.16 |      | P     | 23:02:01.746 | -0.1 | 93.3 |       | 4.70 |      | TAS |     | 42.4   | 1.41  | m_e  | mb 5.5    |
| CLL  | 88.36 |      | P     | 23:01:53.308 | -0.2 | 93.3 |       | 4.70 |      | TAS |     | 201.8  | 2.29  | m_e  | mb 6.0    |
| CLZ  | 90.03 |      | P     | 23:02:01.993 | 0.3  | 93.3 |       | 4.70 |      | TAS |     | 32.9   | 1.19  | m_e  | mb 5.4    |
| FLT1 | 89.52 |      | P     | 23:01:57.369 | 0.6  | 93.3 |       | 4.70 |      | TAS |     | 25.8   | 1.30  | m_e  | mb 5.3    |
| FUR  | 89.27 |      | P     | 23:01:57.176 | 0.6  | 93.3 |       | 4.70 |      | TAS |     | 95.0   | 1.73  | m_e  | mb 5.7    |
| GEC2 | 87.71 |      | P     | 23:01:50.666 | 0.3  | 93.3 |       | 4.70 |      | TAS |     | 223.4  | 1.83  | m_e  | mb 6.2    |
| GOR1 | 89.52 |      | P     | 23:01:59.531 | -1.1 | 93.3 |       | 4.70 |      | TAS |     | 113.4  | 1.74  | m_e  | mb 5.8    |
| GRA1 | 89.39 |      | P     | 23:01:59.451 | -1.6 | 93.3 |       | 4.70 |      | TAS |     | 404.3  | 2.51  | m_e  | mb 6.2    |
| GRA1 | 89.39 |      | L     | 23:51:44.977 |      |      |       |      |      | T__ |     | 4355.3 | 19.90 | a_e  | Ms 5.9    |
| GTTG | 90.28 |      | P     | 23:02:02.837 | -0.1 | 93.3 |       | 4.70 |      | TAS |     | 27.7   | 1.01  | m_e  | mb 5.4    |
| IBBN | 91.66 |      | P     | 23:02:09.796 |      | 93.3 |       | 4.70 |      | TAS |     | 32.7   | 1.20  | m_e  | mb 5.5    |
| KAST | 91.23 |      | P     | 23:02:06.427 | 0.5  | 93.3 |       | 4.70 |      | TAS |     | 175.3  | 2.64  | m_e  | mb 5.9    |
| MOX  | 89.19 |      | P     | 23:01:57.148 | 1.1  | 93.3 |       | 4.70 |      | TAS |     | 156.4  | 2.23  | m_e  | mb 5.8    |
| MOX  | 89.19 |      | L     | 23:49:45.748 |      |      |       |      |      | T__ |     | 4505.4 | 21.90 | a_e  | Ms 5.8    |
| PLN  | 88.84 |      | P     | 23:01:55.671 | -0.2 | 93.3 |       | 4.70 |      | TAS |     | 64.5   | 2.21  | m_e  | mb 5.5    |
| RUE  | 87.98 |      | P     | 23:01:52.550 | 0.8  | 93.3 |       | 4.70 |      | TAS |     | 187.4  | 1.30  | m_e  | mb 6.3    |
| STU  | 90.68 |      | P     | 23:02:04.288 | -0.4 | 93.3 |       | 4.70 |      | TAS |     | 276.3  | 2.03  | m_e  | mb 6.2    |
| TANN | 88.64 |      | P     | 23:01:54.702 | -0.0 | 93.3 |       | 4.70 |      | TAS |     | 109.2  | 2.04  | m_e  | mb 5.7    |
| TNS  | 91.20 |      | P     | 23:02:06.722 | 0.8  | 93.3 |       | 4.70 |      | TAS |     | 29.0   | 1.04  | m_e  | mb 5.5    |
| WET  | 88.27 |      | P     | 23:01:53.142 | 0.1  | 93.3 |       | 4.70 |      | TAS |     | 94.2   | 1.55  | m_e  | mb 5.9    |
| WLF  | 92.68 |      | P     | 23:02:14.311 |      | 93.3 |       | 4.70 |      | TAS |     | 31.0   | 1.57  | m_e  | mb 5.5    |

Event 10803001 Nicobar Islands, India, region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual    | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|---------|--------|
| 2021/08/03         | 01:51:13.20 |     |     | 8.0000   | 93.7200   |      |      |    | 27.9  | 1.5 |      | 20   |     | 77.39 | 81.26 | m i k e | BGR    |
| OrigID<br>10803007 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |         |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.8 |      | BGR    | 10803007 |
| Ms        | 4.5 |      | BGR    | 10803007 |

| Sta | Dist | EvAz | Phase | Time | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|-----|------|------|-------|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
|-----|------|------|-------|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|

|      |       |    |              |      |      |      |     |       |       |     |    |     |
|------|-------|----|--------------|------|------|------|-----|-------|-------|-----|----|-----|
| ASSE | 79.47 | P  | 02:03:17.276 | 0.2  | 90.8 | 5.45 | TAS | 4.7   | 0.93  | m_e | mb | 4.5 |
| BFO  | 81.03 | pP | 02:03:35.131 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| BRG  | 77.39 | P  | 02:03:06.241 | 0.1  | 90.8 | 5.45 | TAS | 4.3   | 0.79  | m_e | mb | 4.6 |
| BRG  | 77.39 | pP | 02:03:14.205 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| BSEG | 79.70 | P  | 02:03:19.072 | 0.2  | 90.8 | 5.45 | TAS | 15.8  | 0.92  | m_e | mb | 4.9 |
| CLZ  | 79.65 | P  | 02:03:18.774 | -1.1 | 90.8 | 5.45 | TAS | 8.4   | 0.98  | m_e | mb | 4.6 |
| CLZ  | 79.65 | pP | 02:03:26.774 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| FLT1 | 79.12 | P  | 02:03:14.911 | -0.2 | 90.8 | 5.45 | TAS | 4.0   | 0.66  | m_e | mb | 4.6 |
| FLT1 | 79.12 | pP | 02:03:22.917 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| FUR  | 79.06 | P  | 02:03:14.938 | 0.3  | 90.8 | 5.45 | TAS | 8.1   | 0.71  | m_e | mb | 4.9 |
| GEC2 | 77.46 | P  | 02:03:06.865 | 0.4  | 90.8 | 5.45 | TAS | 6.7   | 0.82  | m_e | mb | 4.8 |
| GEC2 | 77.46 | pP | 02:03:14.813 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| GRA1 | 79.11 | P  | 02:03:16.251 | 0.4  | 90.8 | 5.45 | TAS | 7.7   | 0.80  | m_e | mb | 4.8 |
| GRA1 | 79.11 | L  | 02:46:11.521 |      | 88.4 | 5.62 | TAS | 199.4 | 19.80 | a_e | Ms | 4.5 |
| GTTG | 79.91 | P  | 02:03:20.053 | 0.4  | 90.8 | 5.45 | TAS | 5.1   | 0.73  | m_e | mb | 4.5 |
| IBBN | 81.26 | P  | 02:03:27.509 |      | 90.8 | 5.45 | TAS | 11.9  | 0.84  | m_e | mb | 5.0 |
| IBBN | 81.26 | pP | 02:03:35.509 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| KAST | 80.88 | P  | 02:03:25.377 |      | 90.8 | 5.45 | TAS | 11.5  | 1.22  | m_e | mb | 4.8 |
| MOX  | 78.86 | P  | 02:03:14.322 | -0.2 | 90.8 | 5.45 | TAS | 3.2   | 0.76  | m_e | mb | 4.4 |
| MOX  | 78.86 | pP | 02:03:22.311 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| MOX  | 78.86 | L  | 02:42:44.860 |      |      |      | T__ | 231.3 | 20.30 | a_e | Ms | 4.5 |
| NEUB | 78.77 | P  | 02:03:13.197 | -0.7 | 90.8 | 5.45 | TAS | 9.6   | 1.02  | m_e | mb | 4.8 |
| RGN  | 77.95 | P  | 02:03:08.975 | -0.2 | 90.8 | 5.45 | TAS | 56.3  | 0.91  | m_e | mb | 5.7 |
| RUE  | 77.57 | P  | 02:03:07.092 | -0.1 | 90.8 | 5.45 | TAS | 18.5  | 0.70  | m_e | mb | 5.3 |
| RUE  | 77.57 | pP | 02:03:15.065 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| STU  | 80.44 | P  | 02:03:21.610 |      | 90.8 | 5.45 | TAS | 13.2  | 0.72  | m_e | mb | 5.0 |
| TANN | 78.32 | P  | 02:03:10.845 | -0.5 | 90.8 | 5.45 | TAS | 6.8   | 1.24  | m_e | mb | 4.6 |
| TANN | 78.32 | pP | 02:03:19.304 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |
| TNS  | 80.89 | P  | 02:03:25.658 |      | 90.8 | 5.45 | TAS | 4.8   | 0.83  | m_e | mb | 4.6 |
| WET  | 78.01 | P  | 02:03:09.871 | -0.4 | 90.8 | 5.45 | TAS | 4.7   | 0.92  | m_e | mb | 4.6 |
| WET  | 78.01 | pP | 02:03:17.834 |      | 88.4 | 5.62 | TAS |       |       | m_e |    |     |

Event 10803003 South of Fiji Islands

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err  | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|------|------|------|-----|--------|--------|--------|--------|
| 2021/08/03 | 07:16:31.30 |     |     | -22.1210 | -178.8920 |      |      |    | 592.3 | 22.6 |      | 20   |     | 147.39 | 153.13 | m i ke | BGR    |
|            | 10803009    |     |     |          |           |      |      |    |       |      |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase  | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|--------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 149.07 |      | PKPbc  | 07:35:13.562 | 0.3  | 19.8 |       | 2.34 |      | TAS |     |     |     | m_e  |           |
| BFO  | 153.13 |      | PKPbc  | 07:35:22.818 |      | 19.8 |       | 2.34 |      | TAS |     |     |     | m_e  |           |
| BFO  | 153.13 |      | PKPab  | 07:35:37.164 |      | 17.2 |       | 4.37 |      | TAS |     |     |     | m_e  |           |
| BFO  | 153.13 |      | pPKPbc | 07:37:36.966 |      | 20.4 |       | 2.47 |      | TAS |     |     |     | m_e  |           |
| BRG  | 149.53 |      | PKPbc  | 07:35:14.692 | 0.1  | 19.8 |       | 2.34 |      | TAS |     |     |     | m_e  |           |

|      |        |        |              |      |      |      |     |     |
|------|--------|--------|--------------|------|------|------|-----|-----|
| BSEG | 147.39 | PKPbc  | 07:35:09.622 | -0.0 | 19.8 | 2.34 | TAS | m_e |
| CLL  | 149.35 | PKPbc  | 07:35:14.234 | 0.1  | 19.8 | 2.34 | TAS | m_e |
| CLL  | 149.35 | PKPab  | 07:35:20.681 |      | 17.2 | 4.37 | TAS | m_e |
| CLL  | 149.35 | pPKPbc | 07:37:31.226 |      | 20.4 | 2.47 | TAS | m_e |
| CLZ  | 149.39 | PKPbc  | 07:35:14.689 | 0.2  | 19.8 | 2.34 | TAS | m_e |
| FLT1 | 148.77 | PKPbc  | 07:35:12.580 | 0.0  | 19.8 | 2.34 | TAS | m_e |
| FLT1 | 148.77 | PKPab  | 07:35:18.339 |      | 19.8 | 2.34 | TAS | m_e |
| FUR  | 152.69 | PKPab  | 07:35:35.735 |      | 17.2 | 4.37 | TAS | m_e |
| GEC2 | 151.44 | PKPbc  | 07:35:18.816 |      | 19.8 | 2.34 | TAS | m_e |
| GEC2 | 151.44 | pPKPbc | 07:37:36.104 |      | 20.4 | 2.47 | TAS | m_e |
| GOR1 | 148.13 | PKPbc  | 07:35:11.326 | -0.0 | 19.8 | 2.34 | TAS | m_e |
| GOR1 | 148.13 | PKPab  | 07:35:15.618 |      | 17.2 | 4.37 | TAS | m_e |
| GTTG | 149.75 | PKPbc  | 07:35:15.359 | 0.1  | 19.8 | 2.34 | TAS | m_e |
| IBBN | 149.35 | PKPbc  | 07:35:14.499 | 0.1  | 19.8 | 2.34 | TAS | m_e |
| KAST | 150.33 | PKPbc  | 07:35:16.638 | -0.4 | 19.8 | 2.34 | TAS | m_e |
| KAST | 150.33 | PKPab  | 07:35:25.146 |      | 17.2 | 4.37 | TAS | m_e |
| MOX  | 150.28 | PKPbc  | 07:35:16.456 | -0.0 | 19.8 | 2.34 | TAS | m_e |
| MOX  | 150.28 | PKPab  | 07:35:24.763 |      | 17.2 | 4.37 | TAS | m_e |
| MOX  | 150.28 | pPKPbc | 07:37:27.829 |      | 20.4 | 2.47 | TAS | m_e |
| NEUB | 149.74 | PKPbc  | 07:35:15.162 | 0.1  | 19.8 | 2.34 | TAS | m_e |
| NEUB | 149.74 | PKPab  | 07:35:22.239 |      | 17.2 | 4.37 | TAS | m_e |
| PLN  | 150.32 | PKPbc  | 07:35:16.514 | 0.2  | 19.8 | 2.34 | TAS | m_e |
| RETH | 148.70 | PKPbc  | 07:35:12.606 | 0.0  | 19.8 | 2.34 | TAS | m_e |
| RETH | 148.70 | PKPab  | 07:35:17.896 |      | 17.2 | 4.37 | TAS | m_e |
| TANN | 150.31 | PKPbc  | 07:35:16.552 | 0.0  | 19.8 | 2.34 | TAS | m_e |
| TNS  | 151.28 | PKPbc  | 07:35:18.865 | -0.3 | 19.8 | 2.34 | TAS | m_e |
| TNS  | 151.28 | PKPab  | 07:35:29.499 |      | 17.2 | 4.37 | TAS | m_e |
| WET  | 151.38 | PKPbc  | 07:35:19.252 |      | 19.8 | 2.34 | TAS | m_e |
| WET  | 151.38 | PKPab  | 07:35:30.314 |      | 17.2 | 4.37 | TAS | m_e |
| WET  | 151.38 | pPKPbc | 07:37:35.943 |      | 20.4 | 2.47 | TAS | m_e |
| WLF  | 152.14 | PKPbc  | 07:35:21.299 |      | 19.8 | 2.34 | TAS | m_e |
| WLF  | 152.14 | PKPab  | 07:35:32.950 |      | 17.2 | 4.37 | TAS | m_e |
| WLF  | 152.14 | pPKPbc | 07:37:39.551 |      | 20.4 | 2.47 | TAS | m_e |

Event 10803007 Off east coast of Honshu, Japan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/03 | 10:29:18.49 |     |     | 35.5520  | 142.0780  |      |      |    | 33.0  |     |      | 17   |     | 81.52 | 86.76 | m i ke | BGR    |
|            | 10803013    |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10803013 |

| Sta | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|-----|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|--------|-----------|
| BFO | 86.76 |      | P     | 10:41:57.053 |      | 38.2 |       | 5.06 |      | TAS |     | 12.6 | 0.83 | m_e mb | 5.1       |
| BRG | 82.50 |      | P     | 10:41:36.590 | 0.2  | 38.2 |       | 5.06 |      | TAS |     | 7.7  | 0.88 | m_e mb | 4.9       |

|      |       |   |              |      |      |      |     |      |      |     |    |     |
|------|-------|---|--------------|------|------|------|-----|------|------|-----|----|-----|
| BSEG | 81.52 | P | 10:41:31.453 | -0.6 | 38.2 | 5.06 | TAS | 13.5 | 0.95 | m_e | mb | 5.0 |
| CLL  | 82.55 | P | 10:41:36.527 | 0.2  | 38.2 | 5.06 | TAS | 13.1 | 0.79 | m_e | mb | 5.2 |
| CLZ  | 83.16 | P | 10:41:40.096 | -0.0 | 38.2 | 5.06 | TAS | 10.5 | 0.95 | m_e | mb | 5.0 |
| FLT1 | 82.44 | P | 10:41:35.715 | -0.3 | 38.2 | 5.06 | TAS | 14.3 | 0.71 | m_e | mb | 5.3 |
| GEC2 | 84.16 | P | 10:41:44.783 |      | 38.2 | 5.06 | TAS | 6.8  | 0.98 | m_e | mb | 4.8 |
| GOR1 | 81.90 | P | 10:41:33.911 | 0.0  | 38.2 | 5.06 | TAS | 35.0 | 1.42 | m_e | mb | 5.3 |
| GRA1 | 84.52 | P | 10:41:47.503 |      | 38.2 | 5.06 | TAS | 23.1 | 1.04 | m_e | mb | 5.3 |
| MOX  | 83.62 | P | 10:41:42.206 | -1.1 | 38.2 | 5.06 | TAS | 4.2  | 0.85 | m_e | mb | 4.7 |
| NEUB | 83.13 | P | 10:41:39.974 | -0.2 | 38.2 | 5.06 | TAS | 16.3 | 0.86 | m_e | mb | 5.3 |
| PLN  | 83.53 | P | 10:41:41.813 | 0.1  | 38.2 | 5.06 | TAS | 1.2  | 0.79 | m_e | mb | 4.2 |
| RETH | 82.82 | P | 10:41:37.824 | -0.1 | 38.2 | 5.06 | TAS | 12.8 | 1.16 | m_e | mb | 5.0 |
| TANN | 83.46 | P | 10:41:41.283 | 0.7  | 38.2 | 5.06 | TAS | 3.8  | 0.87 | m_e | mb | 4.6 |
| TNS  | 85.18 | P | 10:41:50.193 |      | 38.2 | 5.06 | TAS | 9.7  | 1.15 | m_e | mb | 4.9 |
| WET  | 84.27 | P | 10:41:45.927 |      | 38.2 | 5.06 | TAS | 6.4  | 0.96 | m_e | mb | 4.8 |
| WLF  | 86.49 | P | 10:41:57.376 |      | 38.2 | 5.06 | TAS | 10.9 | 1.04 | m_e | mb | 4.9 |

Event 10803010 Off east coast of Honshu, Japan

| Date            | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az   | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|---------|----------|-----------|------|------|------|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/03      | 20:33:37.32 |     | 36.9100 | 142.1300 |           |      |      | 10.0 |       |     |      | 25   |     | 78.75 | 85.59 | m i ke | BGR    |
| OrigID 10803016 |             |     |         |          |           |      |      |      |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.8 |      | BGR    | 10803016 |
| Ms        | 6.0 |      | BGR    | 10803016 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|--------|-------|------|-----------|-----|
| ASSE | 81.64 |      | P     | 20:45:56.210 | -0.0 | 37.4 |       | 5.20 |      | TAS |     | 59.3   | 1.40  | m_e  | mb        | 5.5 |
| BFO  | 85.59 |      | P     | 20:46:16.389 |      | 37.4 |       | 5.20 |      | TAS |     | 78.3   | 1.31  | m_e  | mb        | 5.7 |
| BRG  | 81.35 |      | P     | 20:45:54.855 | -0.2 | 37.4 |       | 5.20 |      | TAS |     | 77.6   | 1.45  | m_e  | mb        | 5.5 |
| BSEG | 80.33 |      | P     | 20:45:49.205 | -0.2 | 37.4 |       | 5.20 |      | TAS |     | 92.1   | 1.34  | m_e  | mb        | 5.5 |
| CLL  | 81.39 |      | P     | 20:45:54.814 | 0.1  | 37.4 |       | 5.20 |      | TAS |     | 95.2   | 1.38  | m_e  | mb        | 5.6 |
| CLZ  | 81.98 |      | P     | 20:45:58.469 | 0.0  | 37.4 |       | 5.20 |      | TAS |     | 95.1   | 1.40  | m_e  | mb        | 5.7 |
| FLT1 | 81.26 |      | P     | 20:45:54.069 | 0.0  | 37.4 |       | 5.20 |      | TAS |     | 119.8  | 1.50  | m_e  | mb        | 5.7 |
| FUR  | 84.56 |      | P     | 20:46:11.507 | -0.2 | 37.4 |       | 5.20 |      | TAS |     | 133.0  | 1.48  | m_e  | mb        | 6.0 |
| GEC2 | 83.02 |      | P     | 20:46:03.365 | 0.2  | 37.4 |       | 5.20 |      | TAS |     | 62.6   | 1.50  | m_e  | mb        | 5.6 |
| GOR1 | 80.72 |      | P     | 20:45:51.638 | 0.1  | 37.4 |       | 5.20 |      | TAS |     | 237.9  | 1.73  | m_e  | mb        | 5.9 |
| GRA1 | 83.36 |      | P     | 20:46:05.608 | 0.1  | 37.4 |       | 5.20 |      | TAS |     | 351.2  | 1.81  | m_e  | mb        | 6.3 |
| GRA1 | 83.36 |      | L     | 21:28:43.215 |      |      |       |      |      | T__ |     | 7551.9 | 18.60 | a_e  | Ms        | 6.1 |
| GTTG | 82.37 |      | P     | 20:46:00.343 | 0.1  | 37.4 |       | 5.20 |      | TAS |     | 55.1   | 1.28  | m_e  | mb        | 5.5 |
| IBBN | 82.55 |      | P     | 20:46:01.155 | -0.1 | 37.4 |       | 5.20 |      | TAS |     | 141.0  | 1.48  | m_e  | mb        | 6.0 |
| KAST | 83.22 |      | P     | 20:46:04.568 | 0.3  | 37.4 |       | 5.20 |      | TAS |     | 84.1   | 1.72  | m_e  | mb        | 5.7 |
| MOX  | 82.45 |      | P     | 20:46:00.577 | 0.1  | 37.4 |       | 5.20 |      | TAS |     | 86.2   | 1.59  | m_e  | mb        | 5.7 |
| MOX  | 82.45 |      | L     | 21:30:18.863 |      |      |       |      |      | T__ |     | 4893.2 | 18.50 | a_e  | Ms        | 5.9 |
| NEUB | 81.96 |      | P     | 20:45:57.977 | 0.4  | 37.4 |       | 5.20 |      | TAS |     | 365.2  | 2.18  | m_e  | mb        | 6.1 |
| PLN  | 82.37 |      | P     | 20:46:00.199 | 0.0  | 37.4 |       | 5.20 |      | TAS |     | 33.7   | 1.68  | m_e  | mb        | 5.2 |

|      |       |   |              |      |      |      |     |       |      |     |    |     |
|------|-------|---|--------------|------|------|------|-----|-------|------|-----|----|-----|
| RETH | 81.63 | P | 20:45:56.361 | -0.1 | 37.4 | 5.20 | TAS | 100.0 | 1.48 | m_e | mb | 5.7 |
| RGN  | 78.75 | P | 20:45:41.002 | -0.3 | 37.4 | 5.20 | TAS | 244.1 | 1.64 | m_e | mb | 6.0 |
| RUE  | 80.18 | P | 20:45:48.719 | -0.0 | 37.4 | 5.20 | TAS | 124.2 | 1.39 | m_e | mb | 5.7 |
| STU  | 84.89 | P | 20:46:13.067 | -0.1 | 37.4 | 5.20 | TAS | 148.1 | 1.09 | m_e | mb | 6.1 |
| TANN | 82.30 | P | 20:45:59.798 | 0.3  | 37.4 | 5.20 | TAS | 89.0  | 1.81 | m_e | mb | 5.6 |
| TNS  | 84.00 | P | 20:46:08.679 | 0.0  | 37.4 | 5.20 | TAS | 174.2 | 2.06 | m_e | mb | 5.9 |
| WET  | 83.13 | P | 20:46:04.323 | 0.1  | 37.4 | 5.20 | TAS | 78.1  | 1.52 | m_e | mb | 5.7 |
| WLF  | 85.30 | P | 20:46:15.243 | -0.5 | 37.4 | 5.20 | TAS | 171.5 | 1.65 | m_e | mb | 6.0 |

Event 10803011 Off east coast of Honshu, Japan

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/03      | 20:43:17.01 |     |     | 36.7600  | 142.5070  |      |      |    | 33.0  |     |      | 13   |     | 80.46 | 85.86 | m i ke | BGR    |
| OrigID 10803017 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.3 |      | BGR    | 10803017 |
| Ms        | 6.0 |      | BGR    | 10803017 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|--------|-------|------|-----------|-----|
| BFO  | 85.86 |      | P     | 20:55:52.875 |      | 37.3 |       | 5.13 |      | TAS |     | 26.8   | 1.01  | m_e  | mb        | 5.3 |
| BRG  | 81.63 |      | P     | 20:55:31.467 |      | 37.3 |       | 5.13 |      | TAS |     | 13.5   | 0.94  | m_e  | mb        | 5.1 |
| BSEG | 80.59 |      | P     | 20:55:26.507 |      | 37.3 |       | 5.13 |      | TAS |     | 34.4   | 1.15  | m_e  | mb        | 5.3 |
| CLL  | 81.67 |      | P     | 20:55:31.328 | 0.1  | 37.3 |       | 5.13 |      | TAS |     | 28.7   | 0.97  | m_e  | mb        | 5.4 |
| CLZ  | 82.25 |      | P     | 20:55:34.074 | 0.5  | 37.3 |       | 5.13 |      | TAS |     | 30.9   | 1.14  | m_e  | mb        | 5.3 |
| FLT1 | 81.54 |      | P     | 20:55:29.982 | 0.1  | 37.3 |       | 5.13 |      | TAS |     |        |       | m_e  |           |     |
| GEC2 | 83.31 |      | P     | 20:55:39.895 |      | 37.3 |       | 5.13 |      | TAS |     | 11.1   | 0.94  | m_e  | mb        | 5.1 |
| GOR1 | 80.99 |      | P     | 20:55:28.499 | -0.9 | 37.3 |       | 5.13 |      | TAS |     | 40.9   | 1.21  | m_e  | mb        | 5.3 |
| GRA1 | 83.64 |      | P     | 20:55:41.531 |      | 37.3 |       | 5.13 |      | TAS |     | 52.4   | 1.14  | m_e  | mb        | 5.7 |
| GRA1 | 83.64 |      | L     | 21:28:43.187 |      |      |       |      |      | T__ |     | 7551.9 | 18.60 | a_e  | Ms        | 6.1 |
| GTTG | 82.64 |      | P     | 20:55:36.999 |      | 37.3 |       | 5.13 |      | TAS |     | 20.0   | 1.08  | m_e  | mb        | 5.3 |
| IBBN | 82.82 |      | P     | 20:55:37.716 | 0.2  | 37.3 |       | 5.13 |      | TAS |     | 24.6   | 0.85  | m_e  | mb        | 5.5 |
| MOX  | 82.73 |      | P     | 20:55:37.154 |      | 37.3 |       | 5.13 |      | TAS |     | 23.7   | 1.39  | m_e  | mb        | 5.2 |
| MOX  | 82.73 |      | L     | 21:30:37.720 |      |      |       |      |      | T__ |     | 4330.4 | 19.20 | a_e  | Ms        | 5.8 |
| NEUB | 82.24 |      | P     | 20:55:34.718 |      | 37.3 |       | 5.13 |      | TAS |     | 30.2   | 0.99  | m_e  | mb        | 5.4 |
| PLN  | 82.65 |      | P     | 20:55:36.813 |      | 37.3 |       | 5.13 |      | TAS |     | 4.4    | 1.22  | m_e  | mb        | 4.6 |
| RETH | 81.90 |      | P     | 20:55:32.995 | -0.5 | 37.3 |       | 5.13 |      | TAS |     | 29.4   | 1.18  | m_e  | mb        | 5.3 |
| RUE  | 80.46 |      | P     | 20:55:25.587 |      | 37.3 |       | 5.13 |      | TAS |     | 32.7   | 1.00  | m_e  | mb        | 5.3 |
| STU  | 85.17 |      | P     | 20:55:49.632 |      | 37.3 |       | 5.13 |      | TAS |     | 70.3   | 0.82  | m_e  | mb        | 5.9 |
| TANN | 82.58 |      | P     | 20:55:36.438 |      | 37.3 |       | 5.13 |      | TAS |     | 11.9   | 1.29  | m_e  | mb        | 5.0 |
| TNS  | 84.27 |      | P     | 20:55:45.292 |      | 37.3 |       | 5.13 |      | TAS |     | 12.1   | 0.96  | m_e  | mb        | 5.1 |
| WET  | 83.41 |      | P     | 20:55:40.983 |      | 37.3 |       | 5.13 |      | TAS |     | 14.2   | 1.06  | m_e  | mb        | 5.1 |
| WLF  | 85.57 |      | P     | 20:55:52.195 |      | 37.3 |       | 5.13 |      | TAS |     | 46.0   | 1.37  | m_e  | mb        | 5.4 |



Event 10803012 Near east coast of eastern Honshu, Japan

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/03         | 22:11:01.48 |     |     | 36.8830  | 141.4220  |      |      |    | 10.0  |     |      | 21   |     | 80.10 | 85.34 | m i ke | BGR    |
| OrigID<br>10803018 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.9 |      | BGR    | 10803018 |
| Ms        | 4.6 |      | BGR    | 10803018 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|-----|
| ASSE | 81.39 |      | P     | 22:23:17.030 | 0.0  | 38.0 |       | 5.18 |      | TAS |     | 8.4   | 1.15  | a_e  | mb        | 4.7 |
| BFO  | 85.34 |      | P     | 22:23:37.030 |      | 38.0 |       | 5.18 |      | TAS |     | 13.1  | 0.93  | a_e  | mb        | 5.2 |
| BRG  | 81.09 |      | P     | 22:23:15.364 | -0.1 | 38.0 |       | 5.18 |      | TAS |     | 7.0   | 0.91  | m_e  | mb        | 4.7 |
| BSEG | 80.10 |      | P     | 22:23:10.480 | 0.1  | 38.0 |       | 5.18 |      | TAS |     | 16.4  | 1.08  | a_e  | mb        | 4.9 |
| CLL  | 81.13 |      | P     | 22:23:15.430 | 0.1  | 38.0 |       | 5.18 |      | TAS |     | 13.3  | 0.86  | a_e  | mb        | 5.0 |
| CLZ  | 81.73 |      | P     | 22:23:18.940 | -0.1 | 38.0 |       | 5.18 |      | TAS |     | 15.3  | 1.07  | m_e  | mb        | 5.0 |
| FLT1 | 81.02 |      | P     | 22:23:14.630 | -0.1 | 38.0 |       | 5.18 |      | TAS |     | 11.0  | 0.78  | a_e  | mb        | 5.0 |
| GEC2 | 82.75 |      | P     | 22:23:23.980 | -0.1 | 38.0 |       | 5.18 |      | TAS |     | 5.1   | 0.82  | a_e  | mb        | 4.8 |
| GRA1 | 83.11 |      | P     | 22:23:26.580 | -0.5 | 38.0 |       | 5.18 |      | TAS |     | 22.5  | 0.98  | a_e  | mb        | 5.4 |
| GRA1 | 83.11 |      | L     | 22:58:27.426 |      |      |       |      |      | T__ |     | 296.5 | 21.70 | a_e  | Ms        | 4.6 |
| GTTG | 82.12 |      | P     | 22:23:20.980 | 0.2  | 38.0 |       | 5.18 |      | TAS |     | 11.3  | 0.95  | a_e  | mb        | 5.0 |
| IBBN | 82.32 |      | P     | 22:23:21.780 | 0.7  | 38.0 |       | 5.18 |      | TAS |     | 12.6  | 0.78  | a_e  | mb        | 5.1 |
| KAST | 82.98 |      | P     | 22:23:25.201 | 0.3  | 38.0 |       | 5.18 |      | TAS |     | 3.3   | 0.81  | m_e  | mb        | 4.6 |
| MOX  | 82.20 |      | P     | 22:23:21.119 | -0.0 | 38.0 |       | 5.18 |      | TAS |     | 6.4   | 1.10  | m_e  | mb        | 4.7 |
| MOX  | 82.20 |      | L     | 23:00:39.892 |      |      |       |      |      | T__ |     | 293.3 | 20.90 | a_e  | Ms        | 4.6 |
| NEUB | 81.71 |      | P     | 22:23:18.580 | 0.2  | 38.0 |       | 5.18 |      | TAS |     | 16.4  | 0.88  | a_e  | mb        | 5.2 |
| PLN  | 82.11 |      | P     | 22:23:20.880 | -0.1 | 38.0 |       | 5.18 |      | TAS |     | 1.3   | 0.84  | a_e  | mb        | 4.1 |
| RETH | 81.40 |      | P     | 22:23:16.946 | 0.1  | 38.0 |       | 5.18 |      | TAS |     | 11.2  | 1.07  | m_e  | mb        | 4.8 |
| STU  | 84.64 |      | P     | 22:23:33.699 |      | 38.0 |       | 5.18 |      | TAS |     | 47.7  | 0.88  | m_e  | mb        | 5.7 |
| TANN | 82.04 |      | P     | 22:23:20.441 | -0.0 | 38.0 |       | 5.18 |      | TAS |     | 2.9   | 0.91  | m_e  | mb        | 4.4 |
| TNS  | 83.76 |      | P     | 22:23:29.235 |      | 38.0 |       | 5.18 |      | TAS |     | 9.1   | 1.13  | m_e  | mb        | 4.9 |
| WET  | 82.86 |      | P     | 22:23:24.866 | -0.2 | 38.0 |       | 5.18 |      | TAS |     | 5.3   | 1.02  | m_e  | mb        | 4.7 |
| WLF  | 85.07 |      | P     | 22:23:36.377 |      | 38.0 |       | 5.18 |      | TAS |     | 29.1  | 1.59  | m_e  | mb        | 5.3 |

Event 10804001 Near east coast of eastern Honshu, Japan

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/04         | 02:56:32.76 |     |     | 36.7860  | 141.6340  |      |      |    | 33.0  |     |      | 21   |     | 80.09 | 85.50 | m i ke | BGR    |
| OrigID<br>10804007 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10804007 |
| Ms        | 4.5 |      | BGR    | 10804007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|-----|
| ASSE | 81.56 |      | P     | 03:08:45.767 | -0.0 | 37.9 |       | 5.16 |      | TAS |     | 5.4   | 0.96  | m_e  | mb        | 4.7 |
| BFO  | 85.50 |      | P     | 03:09:06.131 |      | 37.9 |       | 5.16 |      | TAS |     | 12.7  | 0.78  | a_e  | mb        | 5.1 |
| BRG  | 81.26 |      | P     | 03:08:44.681 | -0.4 | 37.9 |       | 5.16 |      | TAS |     | 6.5   | 0.81  | a_e  | mb        | 4.7 |
| BSEG | 80.26 |      | P     | 03:08:39.479 | -0.5 | 37.9 |       | 5.16 |      | TAS |     | 13.8  | 1.00  | m_e  | mb        | 4.8 |
| CLL  | 81.30 |      | P     | 03:08:44.581 | 0.5  | 37.9 |       | 5.16 |      | TAS |     | 15.6  | 0.82  | m_e  | mb        | 5.1 |
| CLZ  | 81.90 |      | P     | 03:08:48.381 | 0.1  | 37.9 |       | 5.16 |      | TAS |     | 13.8  | 1.08  | a_e  | mb        | 5.0 |
| FLT1 | 81.19 |      | P     | 03:08:43.731 | 0.2  | 37.9 |       | 5.16 |      | TAS |     | 15.6  | 0.72  | a_e  | mb        | 5.1 |
| FUR  | 84.46 |      | P     | 03:09:01.281 |      | 37.9 |       | 5.16 |      | TAS |     | 15.8  | 0.71  | a_e  | mb        | 5.3 |
| GEC2 | 82.92 |      | P     | 03:08:53.131 | 0.2  | 37.9 |       | 5.16 |      | TAS |     | 5.7   | 0.81  | a_e  | mb        | 4.8 |
| GRA1 | 83.28 |      | P     | 03:08:55.397 | -0.4 | 37.9 |       | 5.16 |      | TAS |     | 18.1  | 0.94  | m_e  | mb        | 5.3 |
| GRA1 | 83.28 |      | L     | 03:51:40.236 |      |      |       |      |      | T__ |     | 265.1 | 18.80 | a_e  | Ms        | 4.6 |
| IBBN | 82.49 |      | P     | 03:08:50.881 | -0.1 | 37.9 |       | 5.16 |      | TAS |     | 20.7  | 0.74  | a_e  | mb        | 5.5 |
| KAST | 83.14 |      | P     | 03:08:54.195 | -0.1 | 37.9 |       | 5.16 |      | TAS |     | 3.6   | 0.84  | m_e  | mb        | 4.6 |
| MOX  | 82.37 |      | P     | 03:08:50.323 | 0.4  | 37.9 |       | 5.16 |      | TAS |     | 5.4   | 0.85  | m_e  | mb        | 4.7 |
| MOX  | 82.37 |      | L     | 03:49:14.658 |      |      |       |      |      | T__ |     | 152.8 | 18.00 | a_e  | Ms        | 4.4 |
| NEUB | 81.87 |      | P     | 03:08:47.731 | -0.0 | 37.9 |       | 5.16 |      | TAS |     | 15.8  | 0.79  | a_e  | mb        | 5.2 |
| PLN  | 82.28 |      | P     | 03:08:49.904 | -0.1 | 37.9 |       | 5.16 |      | TAS |     | 1.0   | 0.64  | m_e  | mb        | 4.1 |
| RETH | 81.56 |      | P     | 03:08:46.281 | -0.0 | 37.9 |       | 5.16 |      | TAS |     | 12.1  | 1.12  | a_e  | mb        | 4.9 |
| RUE  | 80.09 |      | P     | 03:08:38.681 | 0.1  | 37.9 |       | 5.16 |      | TAS |     |       |       | a_e  |           |     |
| STU  | 84.81 |      | P     | 03:09:02.881 |      | 37.9 |       | 5.16 |      | TAS |     | 41.0  | 0.86  | a_e  | mb        | 5.7 |
| TANN | 82.21 |      | P     | 03:08:49.502 | -0.0 | 37.9 |       | 5.16 |      | TAS |     | 3.7   | 0.97  | m_e  | mb        | 4.5 |
| WET  | 83.03 |      | P     | 03:08:53.688 | 0.2  | 37.9 |       | 5.16 |      | TAS |     | 9.8   | 1.21  | m_e  | mb        | 4.9 |
| WLF  | 85.23 |      | P     | 03:09:05.331 |      | 37.9 |       | 5.16 |      | TAS |     | 14.5  | 1.23  | a_e  | mb        | 5.1 |

Event 10804002 Near east coast of eastern Honshu, Japan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/04 | 04:40:33.20 |     |     | 36.8950  | 141.5560  |      |      |    | 33.0  |     |      | 25   |     | 78.55 | 85.38 | m i ke | BGR    |
| 10804008   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.5 |      | BGR    | 10804008 |
| Ms        | 5.3 |      | BGR    | 10804008 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|------|------|-----------|-----|
| ASSE | 81.43 |      | P     | 04:52:45.804 | 0.3  | 37.9 |       | 5.17 |      | TAS |     | 44.3  | 1.38 | a_e  | mb        | 5.4 |
| BFO  | 85.38 |      | P     | 04:53:05.754 | 0.0  | 37.9 |       | 5.17 |      | TAS |     | 52.6  | 1.10 | a_e  | mb        | 5.7 |
| BRG  | 81.13 |      | P     | 04:52:44.254 | 0.0  | 37.9 |       | 5.17 |      | TAS |     | 33.7  | 1.13 | m_e  | mb        | 5.3 |
| BSEG | 80.13 |      | P     | 04:52:39.154 | 0.2  | 37.9 |       | 5.17 |      | TAS |     | 73.0  | 1.18 | a_e  | mb        | 5.5 |
| CLL  | 81.18 |      | P     | 04:52:44.154 | 0.1  | 37.9 |       | 5.17 |      | TAS |     | 52.6  | 1.11 | a_e  | mb        | 5.5 |
| CLZ  | 81.77 |      | P     | 04:52:47.904 | 0.2  | 37.9 |       | 5.17 |      | TAS |     | 57.2  | 1.17 | a_e  | mb        | 5.6 |
| FLT1 | 81.06 |      | P     | 04:52:43.304 | -0.0 | 37.9 |       | 5.17 |      | TAS |     | 53.9  | 1.20 | a_e  | mb        | 5.5 |
| FUR  | 84.33 |      | P     | 04:53:00.854 |      | 37.9 |       | 5.17 |      | TAS |     | 53.6  | 1.13 | a_e  | mb        | 5.7 |
| GEC2 | 82.80 |      | P     | 04:52:52.704 | -0.1 | 37.9 |       | 5.17 |      | TAS |     | 27.0  | 1.18 | a_e  | mb        | 5.4 |
| GOR1 | 80.52 |      | P     | 04:52:41.304 | 0.1  | 37.9 |       | 5.17 |      | TAS |     | 122.1 | 1.47 | a_e  | mb        | 5.7 |

|      |       |   |              |      |      |      |     |        |       |     |    |     |
|------|-------|---|--------------|------|------|------|-----|--------|-------|-----|----|-----|
| GRA1 | 83.15 | P | 04:52:55.204 | 0.3  | 37.9 | 5.17 | TAS | 125.5  | 1.27  | m_e | mb | 6.0 |
| GRA1 | 83.15 | L | 05:35:32.563 |      |      |      | T__ | 1827.6 | 18.30 | a_e | Ms | 5.5 |
| GTTG | 82.16 | P | 04:52:49.754 | -0.3 | 37.9 | 5.17 | TAS | 30.2   | 1.03  | a_e | mb | 5.4 |
| IBBN | 82.36 | P | 04:52:50.504 | -0.6 | 37.9 | 5.17 | TAS | 36.4   | 0.93  | a_e | mb | 5.5 |
| KAST | 83.02 | P | 04:52:54.054 | -0.1 | 37.9 | 5.17 | TAS | 27.0   | 1.22  | a_e | mb | 5.3 |
| MOX  | 82.24 | P | 04:52:50.054 | 0.1  | 37.9 | 5.17 | TAS | 40.6   | 1.37  | a_e | mb | 5.4 |
| MOX  | 82.24 | L | 05:35:13.041 |      |      |      | T__ | 1047.2 | 21.30 | a_e | Ms | 5.2 |
| NEUB | 81.75 | P | 04:52:47.354 | -0.0 | 37.9 | 5.17 | TAS | 59.2   | 1.14  | a_e | mb | 5.6 |
| PLN  | 82.15 | P | 04:52:49.654 | 0.1  | 37.9 | 5.17 | TAS | 11.5   | 1.28  | a_e | mb | 4.9 |
| RETH | 81.43 | P | 04:52:45.904 | -0.1 | 37.9 | 5.17 | TAS | 60.6   | 1.28  | a_e | mb | 5.6 |
| RGN  | 78.55 | P | 04:52:30.754 | -0.1 | 37.9 | 5.17 | TAS | 117.5  | 1.13  | a_e | mb | 5.8 |
| RUE  | 79.97 | P | 04:52:38.204 | -0.1 | 37.9 | 5.17 | TAS | 109.4  | 1.41  | a_e | mb | 5.6 |
| STU  | 84.68 | P | 04:53:02.504 | -0.5 | 37.9 | 5.17 | TAS | 268.6  | 1.36  | a_e | mb | 6.3 |
| TANN | 82.09 | P | 04:52:49.304 | -0.0 | 37.9 | 5.17 | TAS | 27.5   | 1.33  | a_e | mb | 5.2 |
| TNS  | 83.80 | P | 04:52:58.054 | 0.1  | 37.9 | 5.17 | TAS | 96.3   | 1.84  | a_e | mb | 5.7 |
| WET  | 82.91 | P | 04:52:53.754 | -0.1 | 37.9 | 5.17 | TAS | 34.2   | 1.27  | a_e | mb | 5.4 |
| WLF  | 85.11 | P | 04:53:04.904 | 0.5  | 37.9 | 5.17 | TAS | 112.6  | 1.49  | a_e | mb | 5.9 |

Event 10804003 Vanuatu Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/04 | 05:55:14.48 |     |     | -19.6070 | 173.6490  |      |      |    | 33.0  |     |      | 23   |     | 143.35 | 148.91 | m i ke | BGR    |
| 10804009   |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| Ms        | 5.2 |      | BGR    | 10804009 |

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR   | Amp   | Per | Qual | Magnitude |     |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-------|-------|-----|------|-----------|-----|
| ASSE | 144.85 |      | PKPbc | 06:14:47.143 | 0.3  | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |
| BFO  | 148.91 |      | PKPbc | 06:14:58.088 |      | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| BRG  | 144.86 |      | PKPbc | 06:14:46.793 | 0.5  | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| BSEG | 143.35 |      | PKPbc | 06:14:42.133 | -0.6 | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| CLL  | 144.82 |      | PKPbc | 06:14:46.493 | 0.2  | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |
| CLZ  | 145.19 |      | PKPbc | 06:14:48.443 | 0.1  | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| FLT1 | 144.51 |      | PKPbc | 06:14:45.493 | -0.2 | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |
| FUR  | 148.08 |      | PKPbc | 06:14:56.019 | -0.7 | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| GEC2 | 146.61 |      | PKPbc | 06:14:52.000 | 0.2  | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| GOR1 | 143.91 |      | PKPbc | 06:14:44.156 | 0.1  | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| GRA1 | 146.80 |      | PKPbc | 06:14:52.743 | -0.3 | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |
| GRA1 | 146.80 |      | L     | 07:20:54.306 |      |      |       |      |      | T__ | 436.0 | 21.90 |     | a_e  | Ms        | 5.2 |
| GTTG | 145.57 |      | PKPbc | 06:14:49.443 | 0.3  | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |
| IBBN | 145.48 |      | PKPbc | 06:14:49.143 | 0.4  | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |
| KAST | 146.31 |      | PKPbc | 06:14:50.890 | 0.1  | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| MOX  | 145.85 |      | PKPbc | 06:14:49.791 | -0.1 | 31.3 |       | 2.94 |      | TAS |       |       |     | m_e  |           |     |
| MOX  | 145.85 |      | L     | 07:16:51.085 |      |      |       |      |      | T__ | 516.1 | 21.80 |     | a_e  | Ms        | 5.3 |
| NEUB | 145.33 |      | PKPbc | 06:14:48.493 | 0.4  | 31.3 |       | 2.94 |      | TAS |       |       |     | a_e  |           |     |

./bul2108.txt

Wed Jan 11 09:16:11 2023

12

|      |        |       |              |      |      |      |     |     |
|------|--------|-------|--------------|------|------|------|-----|-----|
| PLN  | 145.81 | PKPbc | 06:14:49.916 | -0.4 | 31.3 | 2.94 | TAS | m_e |
| RETH | 144.68 | PKPbc | 06:14:46.643 | -0.0 | 31.3 | 2.94 | TAS | a_e |
| RUE  | 143.58 | PKPbc | 06:14:42.493 | 0.0  | 31.3 | 2.94 | TAS | a_e |
| TANN | 145.76 | PKPbc | 06:14:49.843 | 0.1  | 31.3 | 2.94 | TAS | a_e |
| TNS  | 147.19 | PKPbc | 06:14:54.043 | 0.2  | 31.3 | 2.94 | TAS | a_e |
| WET  | 146.68 | PKPbc | 06:14:52.293 | 0.2  | 31.3 | 2.94 | TAS | a_e |
| WLF  | 148.31 | PKPbc | 06:14:57.503 |      | 31.3 | 2.94 | TAS | m_e |

Event 10804004 Fiji Islands region

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/04      | 06:02:00.45 |     |     | -20.4310 | -177.6240 |      |      |    | 567.9 | 7.9 |      | 19   |     | 145.92 | 151.67 | m i ke | BGR    |
| OrigID 10804010 |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase  | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|--------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 147.62 |      | PKPbc  | 06:20:41.679 | 0.1  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| BFO  | 151.67 |      | PKPbc  | 06:20:51.129 |      | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| BFO  | 151.67 |      | pPKPbc | 06:23:00.579 |      |      |       |      |      | T__ |     |     |     |      | m_e       |
| BRG  | 148.20 |      | PKPbc  | 06:20:43.160 | 0.1  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| BSEG | 145.92 |      | PKPbc  | 06:20:37.068 | -0.2 | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| CLL  | 148.00 |      | PKPbc  | 06:20:42.658 | 0.1  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| CLZ  | 147.95 |      | PKPbc  | 06:20:42.847 | 0.2  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| FLT1 | 147.34 |      | PKPbc  | 06:20:40.714 | 0.1  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| GEC2 | 150.15 |      | PKPbc  | 06:20:47.770 |      | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| GOR1 | 146.69 |      | PKPbc  | 06:20:39.123 | -0.2 | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| GTTG | 148.30 |      | PKPbc  | 06:20:43.574 | 0.2  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| KAST | 148.84 |      | PKPbc  | 06:20:44.929 | 0.1  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| MOX  | 148.89 |      | PKPbc  | 06:20:44.848 | -0.1 | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| NEUB | 148.34 |      | PKPbc  | 06:20:43.561 | 0.1  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| PLN  | 148.94 |      | PKPbc  | 06:20:45.088 | -0.2 | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| RETH | 147.22 |      | PKPbc  | 06:20:40.695 | 0.4  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| TANN | 148.95 |      | PKPbc  | 06:20:45.053 | 0.2  | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| TNS  | 149.79 |      | PKPbc  | 06:20:47.267 | -0.6 | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| TNS  | 149.79 |      | pPKPbc | 06:22:59.544 |      |      |       |      |      | T__ |     |     |     |      | m_e       |
| WET  | 150.06 |      | PKPbc  | 06:20:47.611 |      | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| WLF  | 150.58 |      | PKPbc  | 06:20:49.537 |      | 16.7 |       | 2.47 |      | TAS |     |     |     |      | m_e       |
| WLF  | 150.58 |      | pPKPbc | 06:23:00.005 |      |      |       |      |      | T__ |     |     |     |      | m_e       |

Event 10804008 Hindu Kush, Afghanistan, region

| Date   | Time | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual | Author |
|--------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|
| OrigID |      |     |     |          |           |      |      |    |       |     |      |      |     |       |       |      |        |

2021/08/04 10:32:31.30  
10804014

35.9460 69.2500

151.2 2.7

18

41.77 46.91 m i ke BGR

Magnitude Err Nsta Author OrigID  
mb 4.6 BGR 10804014

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|--------|-----------|
| BFO  | 45.67 |      | PcP   | 10:42:08.831 |      |      |       |      |      | T__ |     |      |      | m_e    |           |
| BIOA | 42.21 |      | P     | 10:40:07.922 | 0.1  | 85.6 |       | 8.00 |      | TAS |     | 4.6  | 0.85 | m_e mb | 4.2       |
| BRG  | 41.84 |      | P     | 10:40:04.949 | 0.2  | 85.6 |       | 8.00 |      | TAS |     | 11.5 | 0.77 | m_e mb | 4.7       |
| BRG  | 41.84 |      | pP    | 10:40:38.469 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| BSEG | 44.01 |      | pP    | 10:40:55.056 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| CLL  | 42.42 |      | P     | 10:40:09.052 | -0.4 | 85.6 |       | 8.00 |      | TAS |     | 6.7  | 0.76 | m_e mb | 4.5       |
| CLL  | 42.42 |      | pP    | 10:40:42.184 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| CLZ  | 44.04 |      | P     | 10:40:22.605 |      | 85.6 |       | 8.00 |      | TAS |     | 6.3  | 0.70 | m_e mb | 4.5       |
| CLZ  | 44.04 |      | pP    | 10:40:56.063 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| DAVA | 44.78 |      | P     | 10:40:28.291 |      | 85.6 |       | 8.00 |      | TAS |     | 22.7 | 0.80 | m_e mb | 5.2       |
| FETA | 44.24 |      | P     | 10:40:23.697 |      | 85.6 |       | 8.00 |      | TAS |     | 4.5  | 0.82 | m_e mb | 4.2       |
| FETA | 44.24 |      | PcP   | 10:42:04.606 |      |      |       |      |      | T__ |     |      |      | m_e    |           |
| FLT1 | 43.49 |      | P     | 10:40:17.353 | 0.2  | 85.6 |       | 8.00 |      | TAS |     | 23.9 | 0.78 | m_e mb | 5.0       |
| FLT1 | 43.49 |      | pP    | 10:40:50.956 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| GEC2 | 42.08 |      | P     | 10:40:07.188 | 0.4  | 85.6 |       | 8.00 |      | TAS |     | 4.2  | 0.91 | m_e mb | 4.2       |
| GOR1 | 43.43 |      | pP    | 10:40:51.057 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| GTTG | 44.31 |      | P     | 10:40:24.877 |      | 85.6 |       | 8.00 |      | TAS |     | 18.0 | 0.96 | m_e mb | 4.8       |
| IBBN | 45.62 |      | P     | 10:40:35.015 |      | 85.6 |       | 8.00 |      | TAS |     | 20.9 | 0.87 | m_e mb | 5.2       |
| KBA  | 42.46 |      | PcP   | 10:42:00.416 |      |      |       |      |      | T__ |     |      |      | m_e    |           |
| LESA | 42.88 |      | P     | 10:40:13.398 | 0.2  | 85.6 |       | 8.00 |      | TAS |     | 6.5  | 0.74 | m_e mb | 4.4       |
| MOA  | 41.77 |      | P     | 10:40:04.560 | 0.2  | 85.6 |       | 8.00 |      | TAS |     | 10.8 | 0.86 | m_e mb | 4.6       |
| MOTA | 43.95 |      | P     | 10:40:21.153 |      | 85.6 |       | 8.00 |      | TAS |     | 7.8  | 0.77 | m_e mb | 4.5       |
| MOTA | 43.95 |      | pP    | 10:40:55.200 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| MOTA | 43.95 |      | PcP   | 10:42:02.729 |      |      |       |      |      | T__ |     |      |      | m_e    |           |
| MOX  | 43.32 |      | pP    | 10:40:50.544 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| NEUB | 43.20 |      | P     | 10:40:15.781 | 0.3  | 85.6 |       | 8.00 |      | TAS |     | 13.4 | 0.74 | m_e mb | 4.8       |
| NEUB | 43.20 |      | pP    | 10:40:49.262 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| PLN  | 42.98 |      | P     | 10:40:14.343 | -0.2 | 85.6 |       | 8.00 |      | TAS |     | 2.5  | 1.03 | m_e mb | 3.9       |
| PLN  | 42.98 |      | pP    | 10:40:47.826 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| RETH | 44.61 |      | pP    | 10:41:00.648 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| RGN  | 42.25 |      | pP    | 10:40:41.281 |      | 87.3 |       | 8.02 |      | TAS |     |      |      | m_e    |           |
| SQTA | 43.89 |      | P     | 10:40:20.422 |      | 85.6 |       | 8.00 |      | TAS |     |      |      | m_e    |           |
| SQTA | 43.89 |      | PcP   | 10:42:03.043 |      |      |       |      |      | T__ |     |      |      | m_e    |           |
| TNS  | 45.37 |      | PcP   | 10:42:08.440 |      |      |       |      |      | T__ |     |      |      | m_e    |           |
| WLF  | 46.91 |      | P     | 10:40:45.874 |      | 85.6 |       | 8.00 |      | TAS |     | 16.8 | 0.89 | m_e mb | 5.2       |
| WTTA | 43.60 |      | P     | 10:40:19.037 |      | 85.6 |       | 8.00 |      | TAS |     | 10.2 | 1.04 | m_e mb | 4.5       |
| WTTA | 43.60 |      | PcP   | 10:42:02.040 |      |      |       |      |      | T__ |     |      |      | m_e    |           |

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual    | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|---------|--------|
| 2021/08/04 | 17:57:46.89 |     |     | 8.7180   | 93.0920   |      |      |    | 33.0  |     |      | 30   |     | 75.23 | 80.31 | m i k e | BGR    |
| 10804015   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |         |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.2 |      | BGR    | 10804015 |
| Ms        | 5.0 |      | BGR    | 10804015 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|
| ARSA | 75.23 |      | P     | 18:09:26.458 | 0.3  | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| ASSE | 78.52 |      | P     | 18:09:44.556 | -0.3 | 90.5 |       | 5.54 |      | TAS |     | 14.8  | 1.05  | m_e  | mb 5.0    |
| BFO  | 80.08 |      | P     | 18:09:52.872 |      | 90.5 |       | 5.54 |      | TAS |     | 20.9  | 1.05  | m_e  | mb 5.0    |
| BIOA | 76.52 |      | P     | 18:09:33.226 | -0.2 | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| BRG  | 76.45 |      | P     | 18:09:33.170 | 0.1  | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| BSEG | 78.75 |      | P     | 18:09:45.762 | 0.0  | 90.5 |       | 5.54 |      | TAS |     | 42.2  | 0.89  | m_e  | mb 5.5    |
| CLL  | 77.06 |      | P     | 18:09:37.075 | 0.3  | 90.5 |       | 5.54 |      | TAS |     | 15.3  | 1.01  | m_e  | mb 5.1    |
| CLZ  | 78.71 |      | P     | 18:09:45.759 | 0.6  | 90.5 |       | 5.54 |      | TAS |     | 17.2  | 0.66  | m_e  | mb 5.2    |
| DAVA | 79.07 |      | P     | 18:09:47.713 | 0.0  | 90.5 |       | 5.54 |      | TAS |     | 59.7  | 1.30  | m_e  | mb 5.5    |
| GEC2 | 76.52 |      | P     | 18:09:33.395 | -0.0 | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| GRA1 | 78.16 |      | P     | 18:09:43.036 | -0.3 | 90.5 |       | 5.54 |      | TAS |     | 16.1  | 0.80  | m_e  | mb 5.2    |
| GRA1 | 78.16 |      | L     | 18:52:39.683 |      |      |       |      |      | T__ |     | 716.6 | 18.70 | a_e  | Ms 5.0    |
| GTTG | 78.96 |      | P     | 18:09:46.807 | -0.3 | 90.5 |       | 5.54 |      | TAS |     | 16.7  | 0.93  | m_e  | mb 5.1    |
| IBBN | 80.31 |      | P     | 18:09:54.482 |      | 90.5 |       | 5.54 |      | TAS |     | 41.8  | 0.83  | m_e  | mb 5.4    |
| KAST | 79.94 |      | P     | 18:09:52.978 |      | 90.5 |       | 5.54 |      | TAS |     | 11.7  | 1.00  | m_e  | mb 4.8    |
| KBA  | 76.70 |      | P     | 18:09:33.980 | -0.4 | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| LESA | 77.17 |      | P     | 18:09:36.624 | -0.1 | 90.5 |       | 5.54 |      | TAS |     | 31.2  | 1.16  | m_e  | mb 5.3    |
| MOA  | 76.10 |      | P     | 18:09:30.835 | -0.2 | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| MOTA | 78.23 |      | P     | 18:09:42.518 | 0.1  | 90.5 |       | 5.54 |      | TAS |     | 27.8  | 0.94  | m_e  | mb 5.4    |
| MOX  | 77.91 |      | P     | 18:09:41.007 | 0.5  | 90.5 |       | 5.54 |      | TAS |     | 30.5  | 1.65  | m_e  | mb 5.2    |
| MOX  | 77.91 |      | L     | 18:49:01.438 |      |      |       |      |      | T__ |     | 946.9 | 22.00 | a_e  | Ms 5.1    |
| NEUB | 77.83 |      | P     | 18:09:41.495 | -0.5 | 90.5 |       | 5.54 |      | TAS |     | 28.3  | 1.27  | m_e  | mb 5.2    |
| OBKA | 75.86 |      | P     | 18:09:30.566 | 0.9  | 90.5 |       | 5.54 |      | TAS |     |       |       | m_e  |           |
| PLN  | 77.57 |      | P     | 18:09:39.535 | 0.8  | 90.5 |       | 5.54 |      | TAS |     | 2.6   | 0.73  | m_e  | mb 4.5    |
| RETA | 78.46 |      | P     | 18:09:43.884 | -0.2 | 90.5 |       | 5.54 |      | TAS |     | 35.6  | 0.80  | m_e  | mb 5.5    |
| RETH | 79.32 |      | P     | 18:09:48.601 |      | 90.5 |       | 5.54 |      | TAS |     | 35.0  | 1.35  | m_e  | mb 5.2    |
| RUE  | 76.63 |      | P     | 18:09:32.360 | -1.6 | 90.5 |       | 5.54 |      | TAS |     | 48.3  | 0.68  | m_e  | mb 5.8    |
| SQTA | 78.16 |      | P     | 18:09:42.248 | 0.0  | 90.5 |       | 5.54 |      | TAS |     | 22.4  | 0.70  | m_e  | mb 5.4    |
| TANN | 77.37 |      | P     | 18:09:38.050 | 0.3  | 90.5 |       | 5.54 |      | TAS |     | 12.7  | 1.34  | m_e  | mb 4.9    |
| TNS  | 79.94 |      | P     | 18:09:52.428 |      | 90.5 |       | 5.54 |      | TAS |     | 35.0  | 1.57  | m_e  | mb 5.0    |
| WET  | 77.07 |      | P     | 18:09:36.806 | -0.3 | 90.5 |       | 5.54 |      | TAS |     | 10.4  | 0.83  | m_e  | mb 5.0    |
| WTTA | 77.87 |      | P     | 18:09:40.348 | -0.2 | 90.5 |       | 5.54 |      | TAS |     | 21.1  | 0.82  | m_e  | mb 5.3    |

Event 10804010 Taiwan region

| Date   | Time | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual | Author |
|--------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|
| OrigID |      |     |     |          |           |      |      |    |       |     |      |      |     |       |       |      |        |

2021/08/04 21:50:52.73 25.1840 122.0290 33.0 25 79.88 86.23 m i ke BGR 10804016

Magnitude Err Nsta Author OrigID
mb 5.7 BGR 10804016
Ms 5.9 BGR 10804016

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Lists various station data points.

Event 10805010 South of Fiji Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2021/08/05 11:20:18.90 -23.2310 -178.7020 567.5 7.4 19 148.51 154.25 m i ke BGR
10805016

Magnitude Err Nsta Author OrigID

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Lists station data for event 10805010.





Magnitude Err Nsta Author OrigID  
 mb 4.9 BGR 10805017

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|--------|-----------|
| BFO  | 80.36 |      | P     | 12:58:11.496 |      | 90.1 |       | 5.49 |      | TAS |     | 9.0  | 0.95 | m_e mb | 4.7       |
| BRG  | 76.69 |      | P     | 12:57:51.921 | 0.0  | 90.1 |       | 5.49 |      | TAS |     | 7.2  | 0.88 | m_e mb | 4.8       |
| BSEG | 78.95 |      | P     | 12:58:04.704 |      | 90.1 |       | 5.49 |      | TAS |     | 27.7 | 0.90 | m_e mb | 5.3       |
| CLL  | 77.29 |      | P     | 12:57:54.746 | -0.0 | 90.1 |       | 5.49 |      | TAS |     | 8.9  | 0.97 | m_e mb | 4.9       |
| CLZ  | 78.93 |      | P     | 12:58:04.484 |      | 90.1 |       | 5.49 |      | TAS |     | 13.1 | 0.87 | m_e mb | 5.0       |
| FLT1 | 78.40 |      | P     | 12:58:00.622 | 0.1  | 90.1 |       | 5.49 |      | TAS |     | 5.1  | 0.82 | m_e mb | 4.7       |
| GEC2 | 76.79 |      | P     | 12:57:52.538 | 0.2  | 90.1 |       | 5.49 |      | TAS |     | 13.8 | 0.88 | m_e mb | 5.1       |
| GRA1 | 78.42 |      | P     | 12:58:01.885 | 0.1  | 90.1 |       | 5.49 |      | TAS |     | 11.4 | 0.74 | m_e mb | 5.1       |
| GTTG | 79.19 |      | P     | 12:58:05.566 |      | 90.1 |       | 5.49 |      | TAS |     | 19.2 | 1.04 | m_e mb | 5.1       |
| IBBN | 80.53 |      | P     | 12:58:13.232 |      | 90.1 |       | 5.49 |      | TAS |     | 26.6 | 0.86 | m_e mb | 5.3       |
| KAST | 80.17 |      | P     | 12:58:11.074 |      | 90.1 |       | 5.49 |      | TAS |     | 10.7 | 1.04 | m_e mb | 4.7       |
| MOX  | 78.16 |      | P     | 12:57:59.986 | 0.3  | 90.1 |       | 5.49 |      | TAS |     | 4.2  | 0.82 | m_e mb | 4.6       |
| TANN | 77.62 |      | P     | 12:57:57.004 | -0.7 | 90.1 |       | 5.49 |      | TAS |     | 4.1  | 0.97 | m_e mb | 4.5       |
| TNS  | 80.19 |      | P     | 12:58:11.304 |      | 90.1 |       | 5.49 |      | TAS |     | 9.6  | 1.00 | m_e mb | 4.7       |
| WET  | 77.33 |      | P     | 12:57:55.581 | -0.0 | 90.1 |       | 5.49 |      | TAS |     | 9.4  | 0.89 | m_e mb | 4.9       |

Event 10806003 Nicobar Islands, India, region

| Date            | Time        | Err | RMS    | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|--------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/06      | 08:19:13.14 |     | 9.5040 | 93.1130  |           |      |      |    | 33.0  |     |      |      |     | 77.33 | 77.58 | m i ke | BGR    |
| OrigID 10806009 |             |     |        |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID  
 mb 4.9 BGR 10806009  
 Ms 5.0 BGR 10806009

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| GRA1 | 77.58 |      | P     | 08:31:06.044 |      | 102.3 |       | 4.88 |      | TAS |     | 8.7   | 0.92  | m_e mb | 4.9       |
| GRA1 | 77.58 |      | L     | 08:59:07.267 |      |       |       |      |      | T__ |     | 694.0 | 22.00 | a_e Ms | 4.9       |
| MOX  | 77.33 |      | L     | 09:03:45.577 |      |       |       |      |      | T__ |     | 880.7 | 19.90 | a_e Ms | 5.1       |

Event 10806004 Taiwan

| Date            | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|---------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/06      | 11:12:36.88 |     | 23.5240 | 121.2290 |           |      |      |    | 33.0  |     |      |      |     | 83.64 | 84.34 | m i ke | BGR    |
| OrigID 10806010 |             |     |         |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID  
 mb 5.1 BGR 10806010

Ms 5.2 BGR 10806010

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|--------|-------|------|-----------|
| GRA1 | 84.34 |      | P     | 11:25:05.223 |      | 64.5 |       | 4.56 |      | TAS |     | 13.3   | 1.03  | m_e  | mb 5.1    |
| GRA1 | 84.34 |      | L     | 12:06:51.988 |      |      |       |      |      | T__ |     | 815.7  | 18.70 | a_e  | Ms 5.1    |
| MOX  | 83.64 |      | L     | 12:07:02.414 |      |      |       |      |      | T__ |     | 1130.8 | 18.10 | a_e  | Ms 5.3    |

Event 10807002 Eastern Mediterranean Sea

| Date       | Time        | Err  | RMS  | Latitude | Longitude | Smaj | Smin | Az  | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|------|------|----------|-----------|------|------|-----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/07 | 01:39:21.97 | 3.41 | 0.86 | 34.4800  | 28.3540   | 81.2 | 70.0 | 178 | 10.0  |     |      | 21   | 344 | 18.00 | 22.72 | m i ke | BGR    |

Magnitude 4.8 Err Nsta Author BGR 10807008

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow  | SRes | Def | SNR | Amp   | Per  | Qual | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|-------|------|-----|-----|-------|------|------|-----------|
| ASSE | 21.72 |      | P     | 01:44:13.405 | -0.9 | 134.0 |       | 10.91 |      | TAS |     | 31.9  | 1.23 | m_e  | mb 4.6    |
| BFO  | 20.33 |      | P     | 01:44:00.777 | 2.1  | 134.0 |       | 10.91 |      | TAS |     | 118.3 | 2.15 | m_e  | mb 4.7    |
| BRG  | 19.44 |      | P     | 01:43:50.643 | 1.3  | 134.0 |       | 10.91 |      | TAS |     | 72.4  | 1.83 | m_e  | mb 4.6    |
| CLL  | 20.15 |      | P     | 01:43:57.223 | 0.0  | 134.0 |       | 10.91 |      | TAS |     | 89.0  | 1.77 | m_e  | mb 4.7    |
| CLZ  | 21.64 |      | P     | 01:44:12.527 | -1.4 | 134.0 |       | 10.91 |      | TAS |     | 60.5  | 1.74 | m_e  | mb 4.7    |
| FLT1 | 21.64 |      | P     | 01:44:12.922 | -1.6 | 134.0 |       | 10.91 |      | TAS |     | 157.8 | 1.88 | m_e  | mb 5.1    |
| FUR  | 18.68 |      | P     | 01:43:41.733 | 0.0  | 134.0 |       | 10.91 |      | TAS |     | 362.9 | 1.97 | m_e  | mb 5.3    |
| GEC2 | 18.00 |      | P     | 01:43:32.716 | -1.8 | 134.0 |       | 10.91 |      | TAS |     | 73.1  | 1.47 | m_e  | mb 4.6    |
| GOR1 | 22.12 |      | P     | 01:44:19.829 | 1.0  | 134.0 |       | 10.91 |      | TAS |     | 176.2 | 1.66 | m_e  | mb 5.2    |
| GRA1 | 19.74 |      | P     | 01:43:51.957 | -1.6 | 134.0 |       | 10.91 |      | TAS |     |       |      | m_e  |           |
| GTTG | 21.61 |      | P     | 01:44:12.695 | -0.7 | 134.0 |       | 10.91 |      | TAS |     | 36.2  | 0.97 | m_e  | mb 4.8    |
| KAST | 22.08 |      | P     | 01:44:18.248 | 1.6  | 134.0 |       | 10.91 |      | TAS |     | 32.9  | 1.19 | m_e  | mb 4.6    |
| MOX  | 20.24 |      | P     | 01:44:00.336 | 1.4  | 134.0 |       | 10.91 |      | TAS |     | 31.9  | 1.26 | m_e  | mb 4.4    |
| PLN  | 19.88 |      | P     | 01:43:55.689 | 0.7  | 134.0 |       | 10.91 |      | TAS |     | 24.2  | 1.45 | m_e  | mb 4.2    |
| RETH | 22.72 |      | P     | 01:44:24.210 |      | 134.0 |       | 10.91 |      | TAS |     | 105.6 | 1.52 | m_e  | mb 5.1    |
| RUE  | 20.79 |      | P     | 01:44:06.166 | -0.1 | 134.0 |       | 10.91 |      | TAS |     | 208.5 | 1.90 | m_e  | mb 5.1    |
| STU  | 20.14 |      | P     | 01:43:58.591 | 1.3  | 134.0 |       | 10.91 |      | TAS |     | 20.4  | 0.73 | m_e  | mb 4.5    |
| TANN | 19.70 |      | P     | 01:43:52.531 | -0.4 | 134.0 |       | 10.91 |      | TAS |     | 76.0  | 1.79 | m_e  | mb 4.6    |
| TNS  | 21.43 |      | P     | 01:44:11.783 | -1.2 | 134.0 |       | 10.91 |      | TAS |     | 134.8 | 1.64 | m_e  | mb 5.0    |
| WET  | 18.59 |      | P     | 01:43:39.213 | -1.8 | 134.0 |       | 10.91 |      | TAS |     | 49.6  | 1.26 | m_e  | mb 4.6    |
| WLF  | 22.27 |      | P     | 01:44:21.064 | -1.5 | 134.0 |       | 10.91 |      | TAS |     | 55.0  | 1.10 | m_e  | mb 4.9    |

Event 10807003 Hindu Kush, Afghanistan, region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/07 | 09:34:34.31 |     |     | 36.3760  | 70.8310   |      |      |    | 33.0  |     |      |      |     | 44.40 | 44.40 | m i ke | BGR    |

10807009

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.5 |      | BGR    | 10807009 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|------|-----------|-----|
| GRA1 | 44.40 |      | P     | 09:42:41.239 |      | 92.9 |       | 7.12 |      | TAS |     | 11.2 | 1.12 | m_e  | mb        | 4.5 |

Event 10807004 Tonga Islands

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/07 | 23:16:17.00 |     |     | -16.8400 | -173.3600 |      |      |    | 10.0  |     |      |      |     | 146.93 | 146.93 | m i ke | EMSC   |

OrigID  
10807036

| Magnitude | Err | Nsta | Author | OrigID |
|-----------|-----|------|--------|--------|
|-----------|-----|------|--------|--------|

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| GRA1 | 146.93 |      | PKPab | 23:36:02.392 |      | 8.1  |       | 3.40 |      | TAS |     |     |     | m_e  |           |

Event 10808001 Vanuatu Islands

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/08 | 14:37:22.30 |     |     | -19.1300 | 168.6600  |      |      |    | 40.0  |     |      |      |     | 144.52 | 144.52 | m i ke | EMSC   |

OrigID  
10808033

| Magnitude | Err | Nsta | Author | OrigID |
|-----------|-----|------|--------|--------|
|-----------|-----|------|--------|--------|

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| GRA1 | 144.52 |      | PKPbc | 14:56:52.741 |      | 38.7 |       | 3.24 |      | TAS |     |     |     | m_e  |           |

Event 10808002 Rat Islands, Aleutian Islands, United States

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/08 | 14:50:25.58 |     |     | 50.8390  | 175.9030  |      |      |    | 33.0  |     |      |      |     | 77.88 | 78.86 | m i ke | BGR    |

OrigID  
10808008

| Magnitude | Err | Nsta | Author | OrigID |
|-----------|-----|------|--------|--------|
|-----------|-----|------|--------|--------|

|    |     |  |     |          |
|----|-----|--|-----|----------|
| mb | 5.0 |  | BGR | 10808008 |
| Ms | 4.3 |  | BGR | 10808008 |

./bul2108.txt

Wed Jan 11 09:16:11 2023

20

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| GRA1 | 78.86 |      | P     | 15:02:24.537 |      | 14.2 |       | 4.39 |      | TAS |     | 13.4  | 0.86  | m_e mb | 5.0       |
| GRA1 | 78.86 |      | L     | 15:35:06.296 |      |      |       |      |      | T__ |     | 175.9 | 21.80 | a_e Ms | 4.4       |
| MOX  | 77.88 |      | L     | 15:38:50.594 |      |      |       |      |      | T__ |     | 152.7 | 19.70 | a_e Ms | 4.3       |

Event 10809001 Near Islands, Aleutian Islands, United States

| Date       | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|---------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/09 | 09:42:02.05 |     | 53.1130 | 170.7190 |           |      |      |    | 33.0  |     |      |      |     | 75.98 | 75.98 | m i ke | BGR    |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.9 |      | BGR    | 10809007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|------|--------|-----------|
| GRA1 | 75.98 |      | P     | 09:53:44.882 |      | 13.0 |       | 4.93 |      | TAS |     | 9.4 | 0.93 | m_e mb | 4.9       |

Event 10809007 Peru-Brazil border region

| Date       | Time        | Err | RMS      | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|----------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/09 | 21:03:24.60 |     | -14.7200 | -76.1000 |           |      |      |    | 19.0  |     |      |      |     | 99.40 | 99.84 | m i ke | NEIC   |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.2 |      | BGR    | 10809013 |
| Ms        | 4.5 |      | BGR    | 10809013 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| GRA1 | 99.40 |      | P     | 21:17:06.518 |      | 251.3 |       | 5.21 |      | TAS |     | 5.1   | 1.04  | m_e mb | 5.2       |
| GRA1 | 99.40 |      | L     | 21:58:57.155 |      |       |       |      |      | T__ |     | 94.3  | 20.60 | a_e Ms | 4.3       |
| MOX  | 99.84 |      | L     | 22:03:46.421 |      |       |       |      |      | T__ |     | 181.2 | 18.00 | a_e Ms | 4.6       |

Event 10810006 Kuril Islands, Russia

| Date       | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|---------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/10 | 12:08:57.01 |     | 45.6650 | 146.5080 |           |      |      |    | 33.0  |     |      |      | 23  | 73.88 | 79.39 | m i ke | BGR    |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.3 |      | BGR    | 10810012 |

Ms 4.6 BGR 10810012

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|
| ASSE | 75.34 |      | P     | 12:20:35.402 | 0.2  | 30.3 |       | 5.62 |      | TAS |     | 20.8  | 1.01  | m_e  | mb 5.1    |
| BFO  | 79.39 |      | P     | 12:20:57.806 |      | 30.3 |       | 5.62 |      | TAS |     | 17.1  | 1.17  | m_e  | mb 4.9    |
| BRG  | 75.36 |      | P     | 12:20:35.740 | -0.1 | 30.3 |       | 5.62 |      | TAS |     | 13.2  | 0.89  | m_e  | mb 5.0    |
| BSEG | 73.88 |      | P     | 12:20:27.758 | -0.7 | 30.3 |       | 5.62 |      | TAS |     | 27.1  | 0.84  | m_e  | mb 5.3    |
| CLL  | 75.30 |      | P     | 12:20:35.362 | -0.5 | 30.3 |       | 5.62 |      | TAS |     | 48.8  | 0.84  | m_e  | mb 5.6    |
| CLZ  | 75.68 |      | P     | 12:20:37.964 | -0.2 | 30.3 |       | 5.62 |      | TAS |     | 36.0  | 0.82  | m_e  | mb 5.5    |
| FLT1 | 74.99 |      | P     | 12:20:33.434 | 0.3  | 30.3 |       | 5.62 |      | TAS |     | 36.7  | 0.82  | m_e  | mb 5.5    |
| GEC2 | 77.16 |      | P     | 12:20:46.310 | -0.8 | 30.3 |       | 5.62 |      | TAS |     | 11.8  | 1.01  | m_e  | mb 5.0    |
| GOR1 | 74.40 |      | P     | 12:20:30.617 | 0.5  | 30.3 |       | 5.62 |      | TAS |     | 43.5  | 1.29  | m_e  | mb 5.3    |
| GRA1 | 77.27 |      | P     | 12:20:47.203 | 0.3  | 30.3 |       | 5.62 |      | TAS |     | 49.9  | 0.96  | m_e  | mb 5.6    |
| GRA1 | 77.27 |      | L     | 13:00:21.885 |      |      |       |      |      | T__ |     | 278.2 | 19.40 | a_e  | Ms 4.6    |
| GTTG | 76.06 |      | P     | 12:20:40.088 | 0.3  | 30.3 |       | 5.62 |      | TAS |     | 30.1  | 0.83  | m_e  | mb 5.5    |
| IBBN | 76.06 |      | P     | 12:20:39.830 | -0.4 | 30.3 |       | 5.62 |      | TAS |     | 28.4  | 0.88  | m_e  | mb 5.4    |
| KAST | 76.84 |      | P     | 12:20:44.450 | -0.1 | 30.3 |       | 5.62 |      | TAS |     | 16.8  | 0.91  | m_e  | mb 5.2    |
| MOX  | 76.32 |      | P     | 12:20:41.385 | -0.1 | 30.3 |       | 5.62 |      | TAS |     | 19.6  | 0.96  | m_e  | mb 5.2    |
| MOX  | 76.32 |      | L     | 12:59:41.311 |      |      |       |      |      | T__ |     | 315.4 | 19.00 | a_e  | Ms 4.7    |
| NEUB | 75.80 |      | P     | 12:20:37.904 | 0.1  | 30.3 |       | 5.62 |      | TAS |     | 44.6  | 0.93  | m_e  | mb 5.6    |
| PLN  | 76.28 |      | P     | 12:20:40.949 | -0.3 | 30.3 |       | 5.62 |      | TAS |     | 5.2   | 0.91  | m_e  | mb 4.7    |
| RETH | 75.21 |      | P     | 12:20:34.342 | 0.1  | 30.3 |       | 5.62 |      | TAS |     | 30.6  | 1.03  | m_e  | mb 5.3    |
| RUE  | 74.05 |      | P     | 12:20:29.035 | -0.4 | 30.3 |       | 5.62 |      | TAS |     | 74.8  | 1.27  | m_e  | mb 5.6    |
| STU  | 78.73 |      | P     | 12:20:54.331 |      | 30.3 |       | 5.62 |      | TAS |     | 70.2  | 1.07  | m_e  | mb 5.6    |
| TANN | 76.24 |      | P     | 12:20:40.710 | 1.0  | 30.3 |       | 5.62 |      | TAS |     | 7.8   | 0.94  | m_e  | mb 4.8    |
| TNS  | 77.69 |      | P     | 12:20:48.704 | 0.6  | 30.3 |       | 5.62 |      | TAS |     | 16.3  | 0.89  | m_e  | mb 5.2    |
| WET  | 77.19 |      | P     | 12:20:46.588 | -0.5 | 30.3 |       | 5.62 |      | TAS |     | 28.8  | 0.97  | m_e  | mb 5.4    |
| WLF  | 78.87 |      | P     | 12:20:56.535 | 0.4  | 30.3 |       | 5.62 |      | TAS |     | 20.1  | 1.20  | m_e  | mb 5.0    |

Event 10810008 Eastern Gulf of Aden

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/10 | 15:25:12.09 |     |     | 13.1080  | 49.8040   |      |      |    | 33.0  |     |      |      |     | 48.25 | 48.25 | m i ke | BGR    |
| 10810014   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID  
mb 4.9 BGR 10810014

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|------|-----------|
| GRA1 | 48.25 |      | P     | 15:33:50.354 |      | 120.1 |       | 8.55 |      | TAS |     | 13.1 | 1.35 | m_e  | mb 4.9    |

Event 10810007 Eastern Gulf of Aden

| Date | Time | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual | Author |
|------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|
|------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|

OrigID  
 2021/08/10 15:25:14.29 13.3410 49.5760 33.0 47.94 48.29 m i ke BGR  
 10810013

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.9 |      | BGR    | 10810013 |
| Ms        | 4.2 |      | BGR    | 10810013 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|------|-----------|
| GRA1 | 47.94 |      | P     | 15:33:50.133 |      | 120.3 |       | 8.68 |      | TAS |     | 12.0  | 1.31  | m_e  | mb 4.9    |
| GRA1 | 47.94 |      | L     | 15:58:38.409 |      |       |       |      |      | T__ |     | 204.8 | 20.60 | a_e  | Ms 4.1    |
| MOX  | 48.29 |      | L     | 15:57:33.310 |      |       |       |      |      | T__ |     | 302.8 | 19.20 | a_e  | Ms 4.3    |

Event 10810009 Kuril Islands, Russia

| Date       | Time        | Err | RMS     | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|---------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/10 | 16:27:56.63 |     | 47.8770 | 154.5990 |           |      |      |    | 33.0  |     |      | 16   |     | 75.27 | 79.68 | m i ke | BGR    |

OrigID  
10810015

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10810015 |
| Ms        | 3.8 |      | BGR    | 10810015 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|-------|------|-----------|
| BFO  | 79.68 |      | P     | 16:39:59.518 |      | 24.2 |       | 5.59 |      | TAS |     | 11.2 | 0.87  | m_e  | mb 4.8    |
| BRG  | 75.87 |      | P     | 16:39:38.022 | 0.1  | 24.2 |       | 5.59 |      | TAS |     | 7.6  | 0.58  | m_e  | mb 5.0    |
| CLL  | 75.73 |      | P     | 16:39:37.303 | 0.5  | 24.2 |       | 5.59 |      | TAS |     | 20.6 | 0.62  | m_e  | mb 5.4    |
| CLZ  | 75.93 |      | P     | 16:39:39.256 | -0.0 | 24.2 |       | 5.59 |      | TAS |     | 11.3 | 0.84  | m_e  | mb 5.0    |
| FLT1 | 75.27 |      | P     | 16:39:34.651 | 0.1  | 24.2 |       | 5.59 |      | TAS |     | 10.5 | 0.80  | m_e  | mb 4.9    |
| GEC2 | 77.76 |      | P     | 16:39:49.090 |      | 24.2 |       | 5.59 |      | TAS |     | 8.0  | 0.60  | m_e  | mb 5.0    |
| GRA1 | 77.68 |      | P     | 16:39:49.065 |      | 24.2 |       | 5.59 |      | TAS |     | 22.2 | 0.88  | m_e  | mb 5.3    |
| GRA1 | 77.68 |      | L     | 17:17:08.554 |      |      |       |      |      | T__ |     | 52.4 | 20.10 | a_e  | Ms 3.9    |
| IBBN | 76.13 |      | P     | 16:39:40.047 | -0.4 | 24.2 |       | 5.59 |      | TAS |     | 10.8 | 0.68  | m_e  | mb 5.1    |
| KAST | 77.00 |      | P     | 16:39:45.119 | 0.5  | 24.2 |       | 5.59 |      | TAS |     | 10.0 | 0.72  | m_e  | mb 5.0    |
| MOX  | 76.70 |      | P     | 16:39:43.191 | -0.2 | 24.2 |       | 5.59 |      | TAS |     | 6.2  | 0.72  | m_e  | mb 4.8    |
| MOX  | 76.70 |      | L     | 17:16:50.710 |      |      |       |      |      | T__ |     | 44.2 | 21.00 | a_e  | Ms 3.8    |
| PLN  | 76.70 |      | P     | 16:39:43.153 |      | 24.2 |       | 5.59 |      | TAS |     | 3.0  | 1.07  | m_e  | mb 4.3    |
| RETH | 75.36 |      | P     | 16:39:35.740 | -0.4 | 24.2 |       | 5.59 |      | TAS |     | 20.7 | 1.34  | m_e  | mb 5.0    |
| STU  | 79.05 |      | P     | 16:39:56.347 |      | 24.2 |       | 5.59 |      | TAS |     | 17.1 | 0.71  | m_e  | mb 5.2    |
| TANN | 76.69 |      | P     | 16:39:42.987 |      | 24.2 |       | 5.59 |      | TAS |     | 4.5  | 0.76  | m_e  | mb 4.7    |
| TNS  | 77.90 |      | P     | 16:39:48.801 |      | 24.2 |       | 5.59 |      | TAS |     | 10.5 | 0.85  | m_e  | mb 5.0    |
| WET  | 77.72 |      | P     | 16:39:49.278 |      | 24.2 |       | 5.59 |      | TAS |     | 12.0 | 0.77  | m_e  | mb 5.1    |

Event 10810010 Northern Mid-Atlantic Ridge

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/10 | 18:58:18.90 |     |     | 26.7890  | -43.0700  |      |      |    | 10.0  |     |      | 16   |     | 43.93 | 49.05 | m i ke | BGR    |
| 10810016   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.1 |      | BGR    | 10810016 |
| Ms        | 4.1 |      | BGR    | 10810016 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| ASSE | 47.23 |      | P     | 19:06:51.443 | -0.0 | 261.7 |       | 7.81 |      | TAS |     | 16.5  | 1.08  | m_e mb | 5.1       |
| BFO  | 45.08 |      | P     | 19:06:34.548 |      | 261.7 |       | 7.81 |      | TAS |     | 38.4  | 1.55  | m_e mb | 5.1       |
| BRG  | 49.05 |      | P     | 19:07:05.069 | 0.1  | 261.7 |       | 7.81 |      | TAS |     | 16.7  | 1.52  | m_e mb | 4.8       |
| BSEG | 47.39 |      | P     | 19:06:51.651 | 0.5  | 261.7 |       | 7.81 |      | TAS |     | 158.1 | 2.05  | m_e mb | 5.8       |
| CLL  | 48.52 |      | P     | 19:07:00.767 | -0.6 | 261.7 |       | 7.81 |      | TAS |     | 16.7  | 1.53  | m_e mb | 4.9       |
| CLZ  | 46.99 |      | P     | 19:06:48.896 | -0.0 | 261.7 |       | 7.81 |      | TAS |     | 9.6   | 1.10  | m_e mb | 4.8       |
| GEC2 | 48.68 |      | P     | 19:07:02.618 |      | 261.7 |       | 7.81 |      | TAS |     | 45.6  | 1.75  | m_e mb | 5.2       |
| GRA1 | 47.17 |      | P     | 19:06:51.067 |      | 261.7 |       | 7.81 |      | TAS |     | 37.5  | 1.63  | m_e mb | 5.3       |
| GRA1 | 47.17 |      | L     | 19:23:03.911 |      |       |       |      |      | T__ |     | 176.1 | 19.70 | a_e Ms | 4.0       |
| KAST | 45.67 |      | P     | 19:06:38.756 | 0.3  | 261.7 |       | 7.81 |      | TAS |     | 21.6  | 1.79  | m_e mb | 4.9       |
| MOX  | 47.56 |      | P     | 19:06:53.827 | 0.2  | 261.7 |       | 7.81 |      | TAS |     | 19.5  | 1.61  | m_e mb | 5.0       |
| MOX  | 47.56 |      | L     | 19:23:18.475 |      |       |       |      |      | T__ |     | 251.3 | 19.60 | a_e Ms | 4.2       |
| PLN  | 47.88 |      | P     | 19:06:56.296 |      | 261.7 |       | 7.81 |      | TAS |     | 7.8   | 1.77  | m_e mb | 4.5       |
| RETH | 46.57 |      | P     | 19:06:45.483 | -0.5 | 261.7 |       | 7.81 |      | TAS |     | 42.2  | 1.67  | m_e mb | 5.2       |
| TANN | 48.06 |      | P     | 19:06:57.724 |      | 261.7 |       | 7.81 |      | TAS |     | 56.4  | 2.28  | m_e mb | 5.3       |
| TNS  | 45.49 |      | P     | 19:06:38.085 |      | 261.7 |       | 7.81 |      | TAS |     | 41.3  | 1.63  | m_e mb | 5.1       |
| WET  | 48.17 |      | P     | 19:06:58.678 |      | 261.7 |       | 7.81 |      | TAS |     | 35.5  | 1.77  | m_e mb | 5.2       |
| WLF  | 43.93 |      | P     | 19:06:24.776 |      | 261.7 |       | 7.81 |      | TAS |     | 28.3  | 1.39  | m_e mb | 4.8       |

Event 10810011 Qinghai, China

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/10 | 22:36:02.99 |     |     | 34.9290  | 98.6760   |      |      |    | 33.0  |     |      |      |     | 62.76 | 62.76 | m i ke | BGR    |
| 10810017   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.6 |      | BGR    | 10810017 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|------|--------|-----------|
| GRA1 | 62.76 |      | P     | 22:46:24.319 |      | 70.8 |       | 6.00 |      | TAS |     | 5.1 | 0.95 | m_e mb | 4.6       |

Event 10811001 Northwestern Uzbekistan

./bul2108.txt Wed Jan 11 09:16:11 2023 24

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/11         | 07:01:11.02 |     |     | 40.7150  | 63.5980   |      |      |    | 33.0  |     |      |      |     | 37.28 | 37.28 | m i ke | BGR    |
| OrigID<br>10811007 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.6 |      | BGR    | 10811007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|------|-----------|-----|
| GRA1 | 37.28 |      | P     | 07:08:19.298 |      | 91.9 |       | 7.81 |      | TAS |     | 12.5 | 1.01 | m_e  | mb        | 4.6 |

Event 10811005 Mariana Islands region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/11         | 15:02:51.60 |     |     | 15.9400  | 147.2200  |      |      |    | 10.0  |     |      |      |     | 103.05 | 103.92 | m i ke | EMSC   |
| OrigID<br>10811037 |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| Ms        | 5.5 |      | BGR    | 10811011 |

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |     |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|--------|-------|------|-----------|-----|
| GRA1 | 103.92 |      | PP    | 15:21:09.706 |      | 43.5 |       | 6.74 |      | TAS |     | 28.5   | 1.58  | m_e  |           |     |
| GRA1 | 103.92 |      | L     | 16:07:31.164 |      |      |       |      |      | T__ |     | 1263.5 | 20.30 | a_e  | Ms        | 5.4 |
| MOX  | 103.05 |      | L     | 16:07:14.508 |      |      |       |      |      | T__ |     | 1328.6 | 19.40 | a_e  | Ms        | 5.5 |

Event 10811006 Mindanao, Philippine Islands

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist  | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|--------|--------|--------|
| 2021/08/11         | 17:46:14.00 |     |     | 6.5800   | 126.7900  |      |      |    | 58.0  |     |      |      | 24  | 98.46 | 104.00 | m i ke | EMSC   |
| OrigID<br>10811038 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |        |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| Ms        | 6.9 |      | BGR    | 10811012 |

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual | Magnitude |  |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|------|------|-----------|--|
| ASSE | 100.34 |      | Pdiff | 17:59:53.836 | -0.2 | 65.9 |       | 4.57 |      | TAS |     | 872.5 | 2.11 | m_e  |           |  |
| BFO  | 103.34 |      | Pdiff | 18:00:06.755 |      | 65.9 |       | 4.57 |      | TAS |     | 176.5 | 1.73 | m_e  |           |  |
| BRG  | 98.97  |      | Pdiff | 17:59:48.397 | -0.3 | 65.9 |       | 4.57 |      | TAS |     | 625.7 | 1.31 | m_e  |           |  |
| BSEG | 99.76  |      | Pdiff | 17:59:51.170 | -0.1 | 65.9 |       | 4.57 |      | TAS |     | 171.3 | 1.06 | m_e  |           |  |
| BUG  | 102.54 |      | Pdiff | 18:00:03.831 | -0.5 | 65.9 |       | 4.57 |      | TAS |     | 81.5  | 1.21 | m_e  |           |  |
| CLL  | 99.35  |      | Pdiff | 17:59:49.149 | 0.2  | 65.9 |       | 4.57 |      | TAS |     | 361.9 | 1.25 | m_e  |           |  |
| CLZ  | 100.63 |      | Pdiff | 17:59:55.474 | -0.6 | 65.9 |       | 4.57 |      | TAS |     | 249.8 | 1.04 | m_e  |           |  |
| FLT1 | 99.94  |      | Pdiff | 17:59:51.879 | -0.1 | 65.9 |       | 4.57 |      | TAS |     | 191.7 | 1.22 | m_e  |           |  |



|      |        |       |              |      |      |      |     |         |       |        |  |  |  |  |  |     |  |
|------|--------|-------|--------------|------|------|------|-----|---------|-------|--------|--|--|--|--|--|-----|--|
| GEC2 | 99.88  | Pdiff | 17:59:51.852 | -0.2 | 65.9 | 4.57 | TAS | 287.4   | 1.22  | m_e    |  |  |  |  |  |     |  |
| GOR1 | 99.63  | Pdiff | 17:59:50.946 | -0.2 | 65.9 | 4.57 | TAS | 530.3   | 1.19  | m_e    |  |  |  |  |  |     |  |
| GRA1 | 101.04 | Pdiff | 17:59:56.996 | 2.2  | 65.9 | 4.57 | TAS | 269.2   | 1.28  | m_e    |  |  |  |  |  |     |  |
| GRA1 | 101.04 | L     | 18:50:02.453 |      |      |      | T__ | 53320.7 | 21.60 | a_e Ms |  |  |  |  |  | 7.0 |  |
| GTTG | 100.99 | Pdiff | 17:59:57.200 | -0.2 | 65.9 | 4.57 | TAS | 506.6   | 1.36  | m_e    |  |  |  |  |  |     |  |
| HLG  | 100.93 | Pdiff | 17:59:55.632 | 0.3  | 65.9 | 4.57 | TAS | 127.6   | 1.03  | m_e    |  |  |  |  |  |     |  |
| IBBN | 101.87 | Pdiff | 18:00:03.176 | 1.3  | 65.9 | 4.57 | TAS | 510.4   | 1.26  | m_e    |  |  |  |  |  |     |  |
| KAST | 102.01 | Pdiff | 18:00:01.668 | -0.2 | 65.9 | 4.57 | TAS | 244.7   | 1.37  | m_e    |  |  |  |  |  |     |  |
| MOX  | 100.42 | Pdiff | 17:59:54.102 | 0.2  | 65.9 | 4.57 | TAS | 260.5   | 1.18  | m_e    |  |  |  |  |  |     |  |
| MOX  | 100.42 | L     | 18:49:12.986 |      |      |      | T__ | 33832.7 | 21.10 | a_e Ms |  |  |  |  |  | 6.8 |  |
| NEUB | 100.11 | Pdiff | 17:59:52.718 | -0.0 | 65.9 | 4.57 | TAS | 561.9   | 1.32  | m_e    |  |  |  |  |  |     |  |
| PLN  | 100.17 | Pdiff | 17:59:53.127 | 0.1  | 65.9 | 4.57 | TAS | 132.1   | 1.32  | m_e    |  |  |  |  |  |     |  |
| RETH | 100.80 | Pdiff | 17:59:55.500 | -1.1 | 65.9 | 4.57 | TAS | 228.3   | 1.22  | m_e    |  |  |  |  |  |     |  |
| RUE  | 98.46  | Pdiff | 17:59:45.149 | 0.7  | 65.9 | 4.57 | TAS | 761.3   | 1.18  | m_e    |  |  |  |  |  |     |  |
| TANN | 100.02 | Pdiff | 17:59:52.404 | -0.2 | 65.9 | 4.57 | TAS | 334.4   | 1.32  | m_e    |  |  |  |  |  |     |  |
| TNS  | 102.43 | Pdiff | 18:00:04.805 | -1.0 | 65.9 | 4.57 | TAS | 249.5   | 1.23  | m_e    |  |  |  |  |  |     |  |
| WET  | 100.27 | Pdiff | 17:59:53.784 | -0.1 | 65.9 | 4.57 | TAS | 293.3   | 1.34  | m_e    |  |  |  |  |  |     |  |
| WLF  | 104.00 | Pdiff | 18:00:10.236 |      | 65.9 | 4.57 | TAS | 518.1   | 1.55  | m_e    |  |  |  |  |  |     |  |

Event 10811007 Iceland region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/11 | 20:08:13.53 |     |     | 64.4680  | -24.8830  |      |      |    | 10.0  |     |      |      |     | 24.09 | 24.09 | m i ke | BGR    |
|            | 10811013    |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.4 |      | BGR    | 10811013 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|--------|-----------|
| GRA1 | 24.09 |      | P     | 20:13:25.847 |      | 317.8 |       | 9.07 |      | TAS |     | 20.3 | 1.74 | m_e mb | 4.4       |

Event 10812002 Fiji Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/12 | 03:47:00.50 |     |     | -18.3700 | -177.8500 |      |      |    | 524.0 |     |      |      |     | 147.83 | 147.83 | m i ke | EMSC   |
|            | 10812034    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

| Magnitude | Err | Nsta | Author | OrigID |
|-----------|-----|------|--------|--------|
|           |     |      |        |        |

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| GRA1 | 147.83 |      | PKPdf | 04:05:42.557 |      | 16.4 |       | 1.16 |      | TAS |     |     |     | m_e  |           |
| GRA1 | 147.83 |      | PKP   | 04:05:46.817 |      |      |       |      |      | T__ |     |     |     | m_e  |           |

Event 10812001 South of Fiji Islands

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/12 | 04:11:11.50 |     |     | -24.2700 | -177.5000 |      |      |    | 200.0 |     |      |      |     | 153.65 | 153.65 | m i ke | EMSC   |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| GRA1 | 153.65 |      | PKPab | 04:31:00.819 |      | 18.2 |       | 3.99 |      | TAS |     |     |     | m_e  |           |

Event 10812007 Southern Iran

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/12 | 12:24:12.11 |     |     | 28.4170  | 57.0370   |      |      |    | 33.0  |     |      |      |     | 40.64 | 40.64 | m i ke | BGR    |

Magnitude Err Nsta Author OrigID

|    |     |  |     |          |
|----|-----|--|-----|----------|
| mb | 4.9 |  | BGR | 10812013 |
| Ms | 3.6 |  | BGR | 10812013 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| GRA1 | 40.64 |      | P     | 12:31:48.883 |      | 110.6 |       | 8.82 |      | TAS |     | 21.3  | 0.87  | m_e mb | 4.9       |
| GRA1 | 40.64 |      | L     | 12:52:35.309 |      |       |       |      |      | T__ |     | 103.9 | 21.00 | a_e Ms | 3.7       |
| MOX  | 40.64 |      | L     | 12:50:30.547 |      |       |       |      |      | T__ |     | 75.2  | 21.50 | a_e Ms | 3.5       |

Event 10812011 South Sandwich Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/12 | 18:32:54.50 |     |     | -57.6000 | -25.1900  |      |      |    | 63.0  |     |      |      | 26  | 109.19 | 114.90 | m i ke | NEIC   |

Magnitude Err Nsta Author OrigID

|    |     |  |     |          |
|----|-----|--|-----|----------|
| Ms | 7.7 |  | BGR | 10812017 |
|----|-----|--|-----|----------|

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 113.27 |      | Pdiff | 18:48:06.411 | 0.5  | 201.7 |       | 4.58 |      | TAS |     |     |     | m_e  |           |
| BFO  | 109.19 |      | Pdiff | 18:47:47.055 | -0.7 | 201.7 |       | 4.58 |      | TAS |     |     |     | m_e  |           |
| BRG  | 112.83 |      | Pdiff | 18:48:05.238 | -0.5 | 201.7 |       | 4.58 |      | TAS |     |     |     | m_e  |           |
| BSEG | 114.90 |      | Pdiff | 18:48:12.863 | -0.1 | 201.7 |       | 4.58 |      | TAS |     |     |     | m_e  |           |



./bul2108.txt

Wed Jan 11 09:16:11 2023

28

|      |       |   |              |      |      |      |     |      |      |     |    |     |
|------|-------|---|--------------|------|------|------|-----|------|------|-----|----|-----|
| NEUB | 43.14 | P | 20:50:03.105 | -0.4 | 54.6 | 8.01 | TAS | 20.6 | 1.26 | m_e | mb | 4.7 |
| PLN  | 43.33 | P | 20:50:04.905 |      | 54.6 | 8.01 | TAS | 5.5  | 1.39 | m_e | mb | 4.1 |
| RUE  | 41.39 | P | 20:49:48.600 | 0.6  | 54.6 | 8.01 | TAS | 67.8 | 1.55 | m_e | mb | 5.1 |
| STU  | 45.89 | P | 20:50:25.096 |      | 54.6 | 8.01 | TAS | 45.1 | 1.13 | m_e | mb | 5.4 |
| TANN | 43.21 | P | 20:50:03.767 |      | 54.6 | 8.01 | TAS | 37.7 | 2.05 | m_e | mb | 4.8 |
| WET  | 43.71 | P | 20:50:08.167 |      | 54.6 | 8.01 | TAS | 59.4 | 1.99 | m_e | mb | 5.0 |

Event 10812010 Strait of Gibraltar

| Date       | Time        | Err  | RMS  | Latitude | Longitude | Smaj  | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|------|------|----------|-----------|-------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/12 | 21:25:04.64 | 3.22 | 2.16 | 36.3570  | -4.3260   | 134.5 | 96.7 | 30 | 10.0  |     |      | 19   | 343 | 15.16 | 20.56 | m i ke | BGR    |
| 10812016   |             |      |      |          |           |       |      |    |       |     |      |      |     |       |       |        |        |

|           |     |      |        |          |
|-----------|-----|------|--------|----------|
| Magnitude | Err | Nsta | Author | OrigID   |
| mb        | 4.0 |      | BGR    | 10812016 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|------|-----------|-----|
| BFO  | 15.16 |      | P     | 21:28:40.376 | 3.4  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| BRG  | 19.55 |      | P     | 21:29:31.603 | 0.2  |      |       |      |      | T__ |     | 4.8  | 0.74 | m_e  | mb        | 3.8 |
| BSEG | 20.30 |      | P     | 21:29:39.660 | -0.3 |      |       |      |      | T__ |     | 23.5 | 0.92 | m_e  | mb        | 4.4 |
| BUG  | 17.20 |      | P     | 21:29:06.258 | 3.1  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| CLL  | 19.40 |      | P     | 21:29:30.341 | 0.6  |      |       |      |      | T__ |     | 8.8  | 1.06 | m_e  | mb        | 3.9 |
| CLZ  | 18.67 |      | P     | 21:29:19.767 | -1.4 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| FUR  | 16.47 |      | P     | 21:28:57.176 | 3.2  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| GEC2 | 18.15 |      | P     | 21:29:14.617 | -0.4 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| GOR1 | 19.92 |      | P     | 21:29:38.199 | 2.5  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| GRA1 | 17.46 |      | P     | 21:29:04.861 | -1.6 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| IBBN | 18.09 |      | P     | 21:29:14.605 | 0.4  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| MOX  | 18.31 |      | P     | 21:29:15.604 | -1.3 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| PLN  | 18.45 |      | P     | 21:29:17.022 | -1.5 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| RETH | 19.00 |      | P     | 21:29:26.399 | 1.4  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| RUE  | 20.56 |      | P     | 21:29:42.070 | -0.7 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| TANN | 18.54 |      | P     | 21:29:18.148 | -1.5 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| TNS  | 16.65 |      | P     | 21:28:57.436 | 1.2  |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| WET  | 17.91 |      | P     | 21:29:10.687 | -1.3 |      |       |      |      | T__ |     |      |      | m_e  |           |     |
| WLF  | 15.32 |      | P     | 21:28:33.295 | -5.8 |      |       |      |      | T__ |     |      |      | m_e  |           |     |

Event 10813001 Qinghai, China

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/13 | 04:21:40.70 |     |     | 33.7290  | 97.0850   |      |      |    | 33.0  |     |      | 19   |     | 60.58 | 65.67 | m i ke | BGR    |
| 10813007   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.8 |      | BGR    | 10813007 |
| Ms        | 5.5 |      | BGR    | 10813007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|--------|-------|------|-----------|-----|
| BFO  | 64.89 |      | P     | 04:32:15.377 |      | 69.3 |       | 6.69 |      | TAS |     | 5.5    | 0.90  | m_e  | mb        | 4.8 |
| BRG  | 60.58 |      | P     | 04:31:46.639 | -0.2 | 69.3 |       | 6.69 |      | TAS |     | 4.5    | 0.81  | m_e  | mb        | 4.3 |
| BSEG | 61.69 |      | P     | 04:31:54.523 | 0.7  | 69.3 |       | 6.69 |      | TAS |     | 9.7    | 0.84  | m_e  | mb        | 5.1 |
| BUG  | 64.31 |      | P     | 04:32:11.563 | -0.2 | 69.3 |       | 6.69 |      | TAS |     | 3.3    | 0.92  | m_e  | mb        | 4.5 |
| CLL  | 61.00 |      | P     | 04:31:49.182 | -0.2 | 69.3 |       | 6.69 |      | TAS |     | 5.8    | 0.88  | m_e  | mb        | 4.4 |
| CLZ  | 62.37 |      | P     | 04:31:59.016 | -0.1 | 69.3 |       | 6.69 |      | TAS |     | 7.6    | 0.91  | m_e  | mb        | 4.9 |
| FLT1 | 61.70 |      | P     | 04:31:53.506 | -0.2 | 69.3 |       | 6.69 |      | TAS |     | 8.4    | 1.25  | m_e  | mb        | 4.8 |
| GEC2 | 61.39 |      | P     | 04:31:52.573 |      | 69.3 |       | 6.69 |      | TAS |     | 3.7    | 0.91  | m_e  | mb        | 4.2 |
| GRA1 | 62.62 |      | P     | 04:32:01.135 | -0.4 | 69.3 |       | 6.69 |      | TAS |     | 8.9    | 0.93  | m_e  | mb        | 4.9 |
| GRA1 | 62.62 |      | L     | 04:59:53.525 |      |      |       |      |      | T__ |     | 3201.9 | 21.50 | a_e  | Ms        | 5.5 |
| GTTG | 62.71 |      | P     | 04:32:01.305 | -0.2 | 69.3 |       | 6.69 |      | TAS |     | 8.3    | 0.68  | m_e  | mb        | 5.0 |
| KAST | 63.74 |      | P     | 04:32:07.833 | 0.0  | 69.3 |       | 6.69 |      | TAS |     | 168.0  | 4.24  | m_e  | mb        | 5.6 |
| MOX  | 62.05 |      | P     | 04:31:56.558 | 0.3  | 69.3 |       | 6.69 |      | TAS |     | 4.4    | 0.95  | m_e  | mb        | 4.7 |
| MOX  | 62.05 |      | L     | 04:59:45.819 |      |      |       |      |      | T__ |     | 3820.2 | 20.40 | a_e  | Ms        | 5.5 |
| NEUB | 61.77 |      | P     | 04:31:54.608 | -0.0 | 69.3 |       | 6.69 |      | TAS |     | 6.1    | 0.56  | m_e  | mb        | 5.0 |
| PLN  | 61.78 |      | P     | 04:31:54.947 | 0.6  | 69.3 |       | 6.69 |      | TAS |     | 0.8    | 0.69  | m_e  | mb        | 4.0 |
| STU  | 64.19 |      | P     | 04:32:10.969 |      | 69.3 |       | 6.69 |      | TAS |     | 12.5   | 0.63  | m_e  | mb        | 5.3 |
| TANN | 61.62 |      | P     | 04:31:53.845 | 0.4  | 69.3 |       | 6.69 |      | TAS |     | 3.6    | 0.98  | m_e  | mb        | 4.6 |
| TNS  | 64.09 |      | P     | 04:32:10.200 | 0.3  | 69.3 |       | 6.69 |      | TAS |     | 3.9    | 0.72  | m_e  | mb        | 4.7 |
| WET  | 61.79 |      | P     | 04:31:55.371 |      | 69.3 |       | 6.69 |      | TAS |     | 2.3    | 0.74  | m_e  | mb        | 4.5 |
| WLF  | 65.67 |      | P     | 04:32:21.227 | -0.1 | 69.3 |       | 6.69 |      | TAS |     | 13.3   | 0.98  | m_e  | mb        | 5.1 |

Event 10813005 Southeastern Uzbekistan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/13 | 13:18:47.20 |     |     | 37.6200  | 71.9100   |      |      |    | 33.0  |     |      | 12   |     | 42.49 | 44.90 | m i ke | EMSC   |
|            |             |     |     | 10813041 |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.7 |      | BGR    | 10813011 |
| Ms        | 4.2 |      | BGR    | 10813011 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|-----|
| BRG  | 42.49 |      | P     | 13:26:31.675 |      | 83.2 |       | 8.24 |      | TAS |     | 18.1  | 0.84  | m_e  | mb        | 4.8 |
| BSEG | 44.44 |      | P     | 13:26:47.535 | -0.6 | 83.2 |       | 8.24 |      | TAS |     | 18.8  | 0.84  | m_e  | mb        | 4.8 |
| CLL  | 43.04 |      | P     | 13:26:35.658 |      | 83.2 |       | 8.24 |      | TAS |     | 12.8  | 0.88  | m_e  | mb        | 4.7 |
| CLZ  | 44.61 |      | P     | 13:26:48.645 | -0.1 | 83.2 |       | 8.24 |      | TAS |     | 8.2   | 0.84  | m_e  | mb        | 4.7 |
| FLT1 | 44.03 |      | P     | 13:26:43.428 | 0.2  | 83.2 |       | 8.24 |      | TAS |     | 28.0  | 0.81  | m_e  | mb        | 5.0 |
| GOR1 | 43.93 |      | P     | 13:26:43.317 | -0.3 | 83.2 |       | 8.24 |      | TAS |     | 25.4  | 1.17  | m_e  | mb        | 4.8 |
| GRA1 | 44.36 |      | P     | 13:26:47.424 |      | 83.2 |       | 8.24 |      | TAS |     | 14.8  | 0.83  | m_e  | mb        | 4.8 |
| GRA1 | 44.36 |      | L     | 14:14:42.090 |      |      |       |      |      | T__ |     | 250.3 | 19.90 | a_e  | Ms        | 4.1 |



2021/08/14 09:50:13.40 -22.4900 -174.5300 10.0 14 149.31 152.82 m i ke EMSC  
10814034

Magnitude Err Nsta Author OrigID  
Ms 5.5 BGR 10814008

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| ASSE | 150.05 |      | PKPbc | 10:10:04.975 | -0.1 | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| BRG  | 150.82 |      | PKPbc | 10:10:06.974 | -0.3 | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| BUG  | 150.98 |      | PKPbc | 10:10:06.974 | 0.1  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| CLL  | 150.56 |      | PKPbc | 10:10:06.105 | 0.0  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| CLZ  | 150.37 |      | PKPbc | 10:10:05.993 | 0.1  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| FLT1 | 149.79 |      | PKPbc | 10:10:04.106 | -0.3 | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| GEC2 | 152.82 |      | PKPbc | 10:10:11.232 |      | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| GRA1 | 152.39 |      | L     | 11:03:05.203 |      |      |       |      |      | T__ |     | 726.1 | 21.80 | a_e Ms | 5.5       |
| GTTG | 150.70 |      | PKPbc | 10:10:06.626 | 0.2  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| KAST | 151.16 |      | PKPbc | 10:10:07.669 | 0.2  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| MOX  | 151.40 |      | PKPbc | 10:10:08.104 |      | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| MOX  | 151.40 |      | L     | 11:06:14.416 |      |      |       |      |      | T__ |     | 893.2 | 19.20 | a_e Ms | 5.6       |
| NEUB | 150.84 |      | PKPbc | 10:10:06.974 | 0.2  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| PLN  | 151.49 |      | PKPbc | 10:10:08.538 |      | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| RUE  | 149.31 |      | PKPbc | 10:10:03.063 | 0.3  | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |
| TANN | 151.51 |      | PKPbc | 10:10:08.538 |      | 11.6 |       | 2.32 |      | TAS |     |       |       | m_e    |           |

Event 10814003 Alaska Peninsula, United States

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2021/08/14 11:57:50.83 55.8550 -157.9430 33.0 13 71.14 75.42 m i ke BGR  
10814009

Magnitude Err Nsta Author OrigID  
mb 6.0 BGR 10814009  
Ms 7.3 BGR 10814009

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp      | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|----------|-------|--------|-----------|
| BFO  | 75.42 |      | P     | 12:09:29.580 |      | 353.7 |       | 5.84 |      | TAS |     | 85.3     | 0.84  | m_e mb | 5.9       |
| BRG  | 73.30 |      | P     | 12:09:17.776 |      | 353.7 |       | 5.84 |      | TAS |     | 137.0    | 0.99  | m_e mb | 6.0       |
| BUG  | 72.24 |      | P     | 12:09:12.292 | 1.1  | 353.7 |       | 5.84 |      | TAS |     | 92.4     | 0.92  | m_e mb | 5.9       |
| CLL  | 72.81 |      | P     | 12:09:14.650 | -0.8 | 353.7 |       | 5.84 |      | TAS |     | 143.2    | 1.00  | m_e mb | 6.1       |
| CLZ  | 72.11 |      | P     | 12:09:11.219 | 0.1  | 353.7 |       | 5.84 |      | TAS |     | 190.4    | 1.02  | m_e mb | 6.2       |
| GRA1 | 74.31 |      | L     | 13:07:59.623 |      |       |       |      |      | T__ |     | 220033.0 | 21.20 | a_e Ms | 7.4       |
| KAST | 72.58 |      | P     | 12:09:13.617 |      | 353.7 |       | 5.84 |      | TAS |     | 138.7    | 1.05  | m_e mb | 6.0       |
| MOX  | 73.38 |      | P     | 12:09:18.222 |      | 353.7 |       | 5.84 |      | TAS |     | 360.9    | 1.20  | m_e mb | 6.3       |
| MOX  | 73.38 |      | L     | 13:08:05.217 |      |       |       |      |      | T__ |     | 151686.0 | 20.60 | a_e Ms | 7.3       |
| PLN  | 73.58 |      | P     | 12:09:19.677 |      | 353.7 |       | 5.84 |      | TAS |     |          | 0.98  | m_e    |           |
| RETH | 71.14 |      | P     | 12:09:05.451 | -0.2 | 353.7 |       | 5.84 |      | TAS |     |          | 1.14  | m_e    |           |

|      |       |   |              |       |      |     |       |      |        |     |
|------|-------|---|--------------|-------|------|-----|-------|------|--------|-----|
| TANN | 73.67 | P | 12:09:20.359 | 353.7 | 5.84 | TAS | 72.7  | 0.97 | m_e mb | 5.7 |
| TNS  | 73.56 | P | 12:09:19.596 | 353.7 | 5.84 | TAS | 155.4 | 0.99 | m_e mb | 6.0 |
| WET  | 74.96 | P | 12:09:28.891 | 353.7 | 5.84 | TAS | 216.3 | 1.32 | m_e mb | 6.0 |
| WLF  | 73.89 | P | 12:09:21.606 | 353.7 | 5.84 | TAS |       |      | m_e    |     |

Event 10814005 Haiti region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/14 | 12:29:19.19 |     |     | 18.7140  | -72.3960  |      |      |    | 33.0  |     |      | 25   |     | 68.60 | 73.60 | m i ke | BGR    |
|            | 10814011    |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 6.2 |      | BGR    | 10814011 |
| Ms        | 7.3 |      | BGR    | 10814011 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR      | Amp    | Per    | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|----------|--------|--------|--------|-----------|
| ASSE | 71.22 | P    |       | 12:40:34.859 | -0.2 | 277.7 |       | 6.01 |      | TAS |          | 584.7  | 1.61   | m_e mb | 6.5       |
| BFO  | 70.15 | P    |       | 12:40:27.821 | 0.3  | 277.7 |       | 6.01 |      | TAS |          | 105.2  | 1.39   | m_e mb | 5.8       |
| BRG  | 73.42 | P    |       | 12:40:47.701 |      | 277.7 |       | 6.01 |      | TAS |          | 116.9  | 1.20   | m_e mb | 5.9       |
| BSEG | 70.81 | P    |       | 12:40:32.100 | 0.3  | 277.7 |       | 6.01 |      | TAS |          | 498.5  | 1.93   | m_e mb | 6.3       |
| BUG  | 69.18 | P    |       | 12:40:22.219 | -0.2 | 277.7 |       | 6.01 |      | TAS |          | 161.2  | 1.75   | m_e mb | 6.0       |
| CLL  | 72.76 | P    |       | 12:40:43.779 | -0.0 | 277.7 |       | 6.01 |      | TAS |          | 148.1  | 1.39   | m_e mb | 5.9       |
| CLZ  | 71.07 | P    |       | 12:40:34.158 | 0.2  | 277.7 |       | 6.01 |      | TAS |          | 193.9  | 1.26   | m_e mb | 6.1       |
| FLT1 | 71.54 | P    |       | 12:40:36.211 | 0.1  | 277.7 |       | 6.01 |      | TAS |          | 392.2  | 1.64   | m_e mb | 6.3       |
| FUR  | 72.12 | P    |       | 12:40:40.329 | -0.1 | 277.7 |       | 6.01 |      | TAS |          | 553.5  | 1.80   | m_e mb | 6.4       |
| GEC2 | 73.60 | P    |       | 12:40:48.971 |      | 277.7 |       | 6.01 |      | TAS |          | 538.5  | 2.03   | m_e mb | 6.2       |
| GOR1 | 71.50 | P    |       | 12:40:36.095 | -0.3 | 277.7 |       | 6.01 |      | TAS |          | 380.6  | 1.67   | m_e mb | 6.3       |
| GRA1 | 71.87 | P    |       | 12:40:38.727 | -0.1 | 277.7 |       | 6.01 |      | TAS |          | 80.3   | 1.21   | m_e mb | 5.7       |
| GRA1 | 71.87 | L    |       | 13:07:59.644 |      |       |       |      |      | T__ | 220032.0 | 21.20  | a_e Ms | 7.4    |           |
| GTTG | 70.85 | P    |       | 12:40:32.717 | 0.4  | 277.7 |       | 6.01 |      | TAS |          | 268.0  | 1.52   | m_e mb | 6.2       |
| IBBN | 69.42 | P    |       | 12:40:23.749 | -0.4 | 277.7 |       | 6.01 |      | TAS |          | 572.5  | 1.65   | m_e mb | 6.5       |
| KAST | 69.92 | P    |       | 12:40:26.504 | 0.2  | 277.7 |       | 6.01 |      | TAS |          | 127.8  | 1.27   | m_e mb | 5.9       |
| MOX  | 71.99 | P    |       | 12:40:39.219 | 0.0  | 277.7 |       | 6.01 |      | TAS |          | 226.7  | 1.67   | m_e mb | 6.0       |
| MOX  | 71.99 | L    |       | 13:08:05.196 |      |       |       |      |      | T__ | 151686.0 | 20.60  | a_e Ms | 7.2    |           |
| NEUB | 72.01 | P    |       | 12:40:39.497 | 0.2  | 277.7 |       | 6.01 |      | TAS |          | 589.4  | 1.78   | m_e mb | 6.4       |
| PLN  | 72.36 | P    |       | 12:40:41.416 | 0.1  | 277.7 |       | 6.01 |      | TAS |          | 40.7   | 1.15   | m_e mb | 5.5       |
| RETH | 70.36 | P    |       | 12:40:29.742 | -0.1 | 277.7 |       | 6.01 |      | TAS |          | 353.8  | 1.63   | m_e mb | 6.2       |
| RUE  | 73.06 | P    |       | 12:40:45.654 | -0.1 | 277.7 |       | 6.01 |      | TAS |          | 1817.0 | 2.90   | m_e mb | 6.7       |
| STU  | 70.67 | P    |       | 12:40:31.266 | 0.1  | 277.7 |       | 6.01 |      | TAS |          | 1087.5 | 2.07   | m_e mb | 6.6       |
| TANN | 72.56 | P    |       | 12:40:42.889 | 0.3  | 277.7 |       | 6.01 |      | TAS |          | 120.9  | 1.15   | m_e mb | 5.9       |
| TNS  | 70.03 | P    |       | 12:40:27.803 | -0.4 | 277.7 |       | 6.01 |      | TAS |          | 228.3  | 1.34   | m_e mb | 6.1       |
| WET  | 73.02 | P    |       | 12:40:45.858 | -0.2 | 277.7 |       | 6.01 |      | TAS |          | 548.5  | 2.01   | m_e mb | 6.3       |
| WLF  | 68.60 | P    |       | 12:40:19.079 | 0.1  | 277.7 |       | 6.01 |      | TAS |          | 169.3  | 1.24   | m_e mb | 6.1       |



Event 10814006 Haiti region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/14         | 16:08:06.75 |     |     | 18.6280  | -73.8430  |      |      |    | 33.0  |     |      |      | 13  | 70.89 | 74.61 | m i ke | BGR    |
| OrigID<br>10814012 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10814012 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|--------|-----------|
| ASSE | 72.17 |      | P     | 16:19:28.646 | -0.1 | 278.7 |       | 5.94 |      | TAS |     | 34.0 | 1.20 | m_e mb | 5.3       |
| BRG  | 74.38 |      | P     | 16:19:41.467 |      | 278.7 |       | 5.94 |      | TAS |     | 11.1 | 0.97 | m_e mb | 4.9       |
| CLL  | 73.72 |      | P     | 16:19:37.368 | -0.0 | 278.7 |       | 5.94 |      | TAS |     | 20.2 | 1.34 | m_e mb | 5.0       |
| CLZ  | 72.02 |      | P     | 16:19:27.774 | -0.1 | 278.7 |       | 5.94 |      | TAS |     | 18.2 | 1.00 | m_e mb | 5.2       |
| FLT1 | 72.49 |      | P     | 16:19:29.867 | -0.2 | 278.7 |       | 5.94 |      | TAS |     | 19.3 | 1.01 | m_e mb | 5.2       |
| GEC2 | 74.61 |      | P     | 16:19:42.786 |      | 278.7 |       | 5.94 |      | TAS |     | 11.9 | 0.96 | m_e mb | 4.9       |
| KAST | 70.89 |      | P     | 16:19:20.448 |      | 278.7 |       | 5.94 |      | TAS |     | 13.9 | 1.00 | m_e mb | 5.0       |
| MOX  | 72.97 |      | P     | 16:19:32.920 |      | 278.7 |       | 5.94 |      | TAS |     | 11.8 | 1.20 | m_e mb | 4.9       |
| NEUB | 72.98 |      | P     | 16:19:33.269 |      | 278.7 |       | 5.94 |      | TAS |     | 18.5 | 0.85 | m_e mb | 5.2       |
| PLN  | 73.33 |      | P     | 16:19:35.187 |      | 278.7 |       | 5.94 |      | TAS |     | 6.0  | 0.98 | m_e mb | 4.7       |
| TANN | 73.53 |      | P     | 16:19:36.408 |      | 278.7 |       | 5.94 |      | TAS |     | 15.2 | 0.93 | m_e mb | 5.0       |
| TNS  | 71.02 |      | P     | 16:19:21.495 |      | 278.7 |       | 5.94 |      | TAS |     | 36.2 | 1.49 | m_e mb | 5.3       |
| WET  | 74.02 |      | P     | 16:19:39.548 |      | 278.7 |       | 5.94 |      | TAS |     | 19.1 | 1.29 | m_e mb | 5.0       |

Event 10814007 Haiti region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/14         | 17:05:19.69 |     |     | 17.9740  | -73.9260  |      |      |    | 33.0  |     |      |      | 8   | 72.57 | 75.13 | m i ke | BGR    |
| OrigID<br>10814013 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.8 |      | BGR    | 10814013 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|--------|-----------|
| BRG  | 74.93 |      | P     | 17:16:57.757 |      | 278.3 |       | 5.90 |      | TAS |     | 54.3 | 2.31 | m_e mb | 5.2       |
| CLZ  | 72.57 |      | P     | 17:16:43.930 |      | 278.3 |       | 5.90 |      | TAS |     | 7.5  | 0.86 | m_e mb | 4.8       |
| FLT1 | 73.04 |      | P     | 17:16:46.109 | 0.0  | 278.3 |       | 5.90 |      | TAS |     | 17.5 | 1.29 | m_e mb | 5.0       |
| GEC2 | 75.13 |      | P     | 17:16:58.870 |      | 278.3 |       | 5.90 |      | TAS |     | 32.8 | 1.88 | m_e mb | 5.0       |
| MOX  | 73.51 |      | P     | 17:16:49.174 |      | 278.3 |       | 5.90 |      | TAS |     | 9.1  | 1.34 | m_e mb | 4.6       |
| PLN  | 73.87 |      | P     | 17:16:51.512 |      | 278.3 |       | 5.90 |      | TAS |     | 3.5  | 1.18 | m_e mb | 4.3       |
| TANN | 74.07 |      | P     | 17:16:52.513 |      | 278.3 |       | 5.90 |      | TAS |     | 6.5  | 0.93 | m_e mb | 4.6       |
| WET  | 74.55 |      | P     | 17:16:55.304 |      | 278.3 |       | 5.90 |      | TAS |     | 9.9  | 1.23 | m_e mb | 4.7       |

Event 10814008 Haiti region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/14         | 18:11:14.62 |     |     | 18.0480  | -73.1740  |      |      |    | 33.0  |     |      | 14   |     | 70.17 | 74.59 | m i ke | BGR    |
| OrigID<br>10814014 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.2 |      | BGR    | 10814014 |
| Ms        | 5.0 |      | BGR    | 10814014 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|--------|-------|--------|-----------|
| ASSE | 72.20 |      | P     | 18:22:36.876 | 0.1  | 277.8 |       | 5.94 |      | TAS |     | 41.9   | 1.37  | m_e mb | 5.4       |
| BRG  | 74.40 |      | P     | 18:22:49.464 |      | 277.8 |       | 5.94 |      | TAS |     | 12.9   | 1.06  | m_e mb | 4.9       |
| BUG  | 70.17 |      | P     | 18:22:23.863 | 0.6  | 277.8 |       | 5.94 |      | TAS |     | 31.9   | 1.98  | m_e mb | 5.1       |
| CLL  | 73.75 |      | P     | 18:22:45.497 | -0.0 | 277.8 |       | 5.94 |      | TAS |     | 101.6  | 2.40  | m_e mb | 5.4       |
| CLZ  | 72.05 |      | P     | 18:22:35.754 | -0.0 | 277.8 |       | 5.94 |      | TAS |     | 24.6   | 1.22  | m_e mb | 5.2       |
| FLT1 | 72.52 |      | P     | 18:22:37.871 | 0.0  | 277.8 |       | 5.94 |      | TAS |     | 25.5   | 1.24  | m_e mb | 5.2       |
| GEC2 | 74.59 |      | P     | 18:22:50.307 |      | 277.8 |       | 5.94 |      | TAS |     | 162.8  | 2.53  | m_e mb | 5.6       |
| GRA1 | 72.86 |      | L     | 18:49:31.937 |      |       |       |      |      | T__ |     | 1054.8 | 21.50 | a_e Ms | 5.1       |
| IBBN | 70.40 |      | P     | 18:22:25.389 | -0.3 | 277.8 |       | 5.94 |      | TAS |     | 35.5   | 1.11  | m_e mb | 5.4       |
| KAST | 70.90 |      | P     | 18:22:28.346 | -0.3 | 277.8 |       | 5.94 |      | TAS |     | 16.1   | 1.24  | m_e mb | 5.0       |
| MOX  | 72.98 |      | P     | 18:22:41.051 |      | 277.8 |       | 5.94 |      | TAS |     | 43.2   | 1.96  | m_e mb | 5.2       |
| MOX  | 72.98 |      | L     | 18:49:47.788 |      |       |       |      |      | T__ |     | 701.8  | 21.30 | a_e Ms | 4.9       |
| PLN  | 73.34 |      | P     | 18:22:43.131 |      | 277.8 |       | 5.94 |      | TAS |     | 4.4    | 0.99  | m_e mb | 4.5       |
| TANN | 73.54 |      | P     | 18:22:44.345 |      | 277.8 |       | 5.94 |      | TAS |     | 17.3   | 1.15  | m_e mb | 5.0       |
| TNS  | 71.02 |      | P     | 18:22:29.964 |      | 277.8 |       | 5.94 |      | TAS |     | 42.1   | 1.50  | m_e mb | 5.3       |
| WET  | 74.01 |      | P     | 18:22:47.070 |      | 277.8 |       | 5.94 |      | TAS |     | 104.2  | 2.22  | m_e mb | 5.5       |

Event 10815001 Haiti region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/15         | 02:38:02.48 |     |     | 19.0070  | -72.5200  |      |      |    | 33.0  |     |      | 10   |     | 68.47 | 73.47 | m i ke | BGR    |
| OrigID<br>10815007 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.2 |      | BGR    | 10815007 |
| Ms        | 4.7 |      | BGR    | 10815007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| ASSE | 71.07 |      | P     | 02:49:17.605 | 0.0  | 278.0 |       | 6.02 |      | TAS |     | 28.8  | 1.13  | m_e mb | 5.3       |
| BRG  | 73.28 |      | P     | 02:49:30.676 |      | 278.0 |       | 6.02 |      | TAS |     | 26.4  | 1.39  | m_e mb | 5.2       |
| CLZ  | 70.92 |      | P     | 02:49:16.633 | -0.2 | 278.0 |       | 6.02 |      | TAS |     | 20.7  | 1.08  | m_e mb | 5.2       |
| FLT1 | 71.39 |      | P     | 02:49:18.806 | 0.1  | 278.0 |       | 6.02 |      | TAS |     | 18.7  | 1.00  | m_e mb | 5.2       |
| GEC2 | 73.47 |      | P     | 02:49:31.658 |      | 278.0 |       | 6.02 |      | TAS |     | 31.3  | 1.40  | m_e mb | 5.2       |
| GRA1 | 71.73 |      | L     | 03:16:27.806 |      |       |       |      |      | T__ |     | 596.6 | 21.50 | a_e Ms | 4.8       |

|      |       |   |              |     |       |      |     |       |       |     |    |     |
|------|-------|---|--------------|-----|-------|------|-----|-------|-------|-----|----|-----|
| IBBN | 69.27 | P | 02:49:06.278 | 0.0 | 278.0 | 6.02 | TAS | 31.6  | 1.05  | m_e | mb | 5.5 |
| MOX  | 71.85 | L | 03:16:10.795 |     |       |      | T__ | 347.8 | 22.00 | a_e | Ms | 4.6 |
| NEUB | 71.87 | P | 02:49:22.182 |     | 278.0 | 6.02 | TAS | 18.9  | 0.88  | m_e | mb | 5.2 |
| PLN  | 72.22 | P | 02:49:24.292 |     | 278.0 | 6.02 | TAS | 5.6   | 0.93  | m_e | mb | 4.7 |
| TANN | 72.42 | P | 02:49:25.602 |     | 278.0 | 6.02 | TAS | 14.6  | 0.95  | m_e | mb | 5.1 |
| WLF  | 68.47 | P | 02:49:01.701 |     | 278.0 | 6.02 | TAS | 49.5  | 1.63  | m_e | mb | 5.5 |

Event 10815002 Haiti region

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/15      | 03:20:53.63 |     |     | 18.4940  | -73.0180  |      |      |    | 33.0  |     |      | 25   |     | 69.16 | 74.17 | m i ke | BGR    |
| OrigID 10815008 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.5 |      | BGR    | 10815008 |
| Ms        | 5.5 |      | BGR    | 10815008 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp    | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|--------|-------|------|-----------|-----|
| ASSE | 71.77 | P    |       | 03:32:12.640 | 0.3  | 278.0 |       | 5.97 |      | TAS |     | 94.0   | 1.41  | m_e  | mb        | 5.7 |
| BFO  | 70.72 | P    |       | 03:32:05.730 | -0.3 | 278.0 |       | 5.97 |      | TAS |     | 62.6   | 1.72  | m_e  | mb        | 5.5 |
| BRG  | 73.97 | P    |       | 03:32:25.396 | -0.1 | 278.0 |       | 5.97 |      | TAS |     | 43.1   | 1.36  | m_e  | mb        | 5.3 |
| BSEG | 71.35 | P    |       | 03:32:09.603 | -0.0 | 278.0 |       | 5.97 |      | TAS |     | 63.4   | 1.45  | m_e  | mb        | 5.5 |
| BUG  | 69.74 | P    |       | 03:31:59.960 | -0.2 | 278.0 |       | 5.97 |      | TAS |     | 17.8   | 1.28  | m_e  | mb        | 5.0 |
| CLL  | 73.31 | P    |       | 03:32:21.372 | -0.2 | 278.0 |       | 5.97 |      | TAS |     | 41.2   | 1.44  | m_e  | mb        | 5.4 |
| CLZ  | 71.62 | P    |       | 03:32:11.805 | 0.4  | 278.0 |       | 5.97 |      | TAS |     | 54.9   | 1.30  | m_e  | mb        | 5.5 |
| FLT1 | 72.09 | P    |       | 03:32:13.779 | -0.4 | 278.0 |       | 5.97 |      | TAS |     | 61.1   | 1.34  | m_e  | mb        | 5.6 |
| FUR  | 72.69 | P    |       | 03:32:18.055 | 0.2  | 278.0 |       | 5.97 |      | TAS |     | 77.9   | 1.40  | m_e  | mb        | 5.7 |
| GEC2 | 74.17 | P    |       | 03:32:26.687 | -0.0 | 278.0 |       | 5.97 |      | TAS |     | 43.9   | 1.32  | m_e  | mb        | 5.3 |
| GOR1 | 72.05 | P    |       | 03:32:13.855 | -0.0 | 278.0 |       | 5.97 |      | TAS |     | 121.1  | 1.72  | m_e  | mb        | 5.8 |
| GRA1 | 72.43 | P    |       | 03:32:16.512 | 0.2  | 278.0 |       | 5.97 |      | TAS |     | 35.5   | 1.42  | m_e  | mb        | 5.3 |
| GRA1 | 72.43 | L    |       | 04:02:04.572 |      |       |       |      |      | T__ |     | 3477.3 | 18.90 | a_e  | Ms        | 5.7 |
| GTTG | 71.40 | P    |       | 03:32:10.286 | 0.1  | 278.0 |       | 5.97 |      | TAS |     | 56.7   | 1.37  | m_e  | mb        | 5.5 |
| IBBN | 69.97 | P    |       | 03:32:01.554 | 0.0  | 278.0 |       | 5.97 |      | TAS |     | 84.6   | 1.34  | m_e  | mb        | 5.7 |
| KAST | 70.47 | P    |       | 03:32:04.364 | -0.2 | 278.0 |       | 5.97 |      | TAS |     | 42.7   | 1.38  | m_e  | mb        | 5.4 |
| MOX  | 72.55 | P    |       | 03:32:16.892 | -0.1 | 278.0 |       | 5.97 |      | TAS |     | 54.2   | 1.59  | m_e  | mb        | 5.4 |
| MOX  | 72.55 | L    |       | 04:01:43.445 |      |       |       |      |      | T__ |     | 1938.9 | 19.80 | a_e  | Ms        | 5.4 |
| NEUB | 72.57 | P    |       | 03:32:17.272 | 0.1  | 278.0 |       | 5.97 |      | TAS |     | 59.5   | 1.30  | m_e  | mb        | 5.6 |
| PLN  | 72.91 | P    |       | 03:32:19.018 | -0.2 | 278.0 |       | 5.97 |      | TAS |     | 13.0   | 1.23  | m_e  | mb        | 4.9 |
| RETH | 70.90 | P    |       | 03:32:07.401 | 0.3  | 278.0 |       | 5.97 |      | TAS |     | 65.1   | 1.43  | m_e  | mb        | 5.6 |
| RUE  | 73.61 | P    |       | 03:32:23.194 | -0.1 | 278.0 |       | 5.97 |      | TAS |     | 49.4   | 1.38  | m_e  | mb        | 5.3 |
| STU  | 71.23 | P    |       | 03:32:09.071 | -0.1 | 278.0 |       | 5.97 |      | TAS |     | 147.4  | 1.61  | m_e  | mb        | 5.9 |
| TANN | 73.11 | P    |       | 03:32:20.385 | -0.0 | 278.0 |       | 5.97 |      | TAS |     | 43.9   | 1.29  | m_e  | mb        | 5.4 |
| TNS  | 70.59 | P    |       | 03:32:05.502 | 0.2  | 278.0 |       | 5.97 |      | TAS |     | 68.1   | 1.51  | m_e  | mb        | 5.5 |
| WET  | 73.58 | P    |       | 03:32:23.498 | 0.3  | 278.0 |       | 5.97 |      | TAS |     | 73.1   | 1.59  | m_e  | mb        | 5.5 |
| WLF  | 69.16 | P    |       | 03:31:56.846 | 0.1  | 278.0 |       | 5.97 |      | TAS |     | 66.2   | 1.39  | m_e  | mb        | 5.7 |

Event 10815003 Northern Peru

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/15      | 05:40:03.60 |     |     | -3.6800  | -77.1100  |      |      |    | 105.0 |     |      | 18   |     | 88.44 | 93.52 | m i ke | EMSC   |
| OrigID 10815039 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.3 |      | BGR    | 10815009 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| ASSE | 91.53 |      | P     | 05:52:59.161 | 0.0  | 265.3 |       | 4.74 |      | TAS |     | 11.3  | 1.06  | m_e mb | 5.1       |
| BRG  | 93.52 |      | P     | 05:53:08.066 | 0.1  | 265.3 |       | 4.74 |      | TAS |     | 13.9  | 1.00  | m_e mb | 5.3       |
| BUG  | 89.37 |      | P     | 05:52:48.423 | 0.0  | 265.3 |       | 4.74 |      | TAS |     | 6.5   | 0.83  | m_e mb | 4.9       |
| CLL  | 92.94 |      | P     | 05:53:05.272 | 0.3  | 265.3 |       | 4.74 |      | TAS |     | 11.8  | 1.04  | m_e mb | 5.3       |
| CLZ  | 91.33 |      | P     | 05:52:58.026 | -0.1 | 265.3 |       | 4.74 |      | TAS |     | 10.6  | 0.89  | m_e mb | 5.2       |
| FLT1 | 91.89 |      | P     | 05:53:00.121 | -0.3 | 265.3 |       | 4.74 |      | TAS |     | 14.3  | 1.08  | m_e mb | 5.2       |
| FUR  | 91.67 |      | P     | 05:52:59.074 |      | 265.3 |       | 4.74 |      | TAS |     | 14.6  | 0.92  | m_e mb | 5.3       |
| GRA1 | 91.72 |      | P     | 05:52:59.641 |      | 265.3 |       | 4.74 |      | TAS |     | 11.8  | 0.99  | m_e mb | 5.2       |
| GRA1 | 91.72 |      | L     | 06:30:41.691 |      |       |       |      |      | T__ |     | 108.7 | 20.40 | a_e    |           |
| IBBN | 89.76 |      | P     | 05:52:50.431 | -0.2 | 265.3 |       | 4.74 |      | TAS |     | 18.9  | 0.84  | m_e mb | 5.3       |
| KAST | 90.06 |      | P     | 05:52:51.522 | -0.0 | 265.3 |       | 4.74 |      | TAS |     | 11.3  | 0.92  | m_e mb | 5.1       |
| MOX  | 92.03 |      | P     | 05:53:00.994 | -0.2 | 265.3 |       | 4.74 |      | TAS |     | 7.8   | 1.08  | m_e mb | 5.0       |
| MOX  | 92.03 |      | L     | 06:17:42.439 |      |       |       |      |      | T__ |     | 115.6 | 22.00 | a_e    |           |
| NEUB | 92.16 |      | P     | 05:53:01.736 | 0.2  | 265.3 |       | 4.74 |      | TAS |     | 10.0  | 0.92  | m_e mb | 5.1       |
| PLN  | 92.37 |      | P     | 05:53:02.697 | -0.0 | 265.3 |       | 4.74 |      | TAS |     | 6.3   | 1.23  | m_e mb | 4.8       |
| RETH | 90.78 |      | P     | 05:52:55.713 | 0.1  | 265.3 |       | 4.74 |      | TAS |     | 51.5  | 1.59  | m_e mb | 5.6       |
| STU  | 90.33 |      | P     | 05:52:52.633 |      | 265.3 |       | 4.74 |      | TAS |     | 66.6  | 1.20  | m_e mb | 5.7       |
| TANN | 92.56 |      | P     | 05:53:03.875 |      | 265.3 |       | 4.74 |      | TAS |     | 18.0  | 1.13  | m_e mb | 5.4       |
| TNS  | 89.98 |      | P     | 05:52:51.304 |      | 265.3 |       | 4.74 |      | TAS |     | 23.9  | 1.06  | m_e mb | 5.3       |
| WLF  | 88.44 |      | P     | 05:52:44.233 |      | 265.3 |       | 4.74 |      | TAS |     | 37.3  | 0.96  | m_e mb | 5.7       |

Event 10815004 Afghanistan-Tajikistan border region

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/15      | 10:41:22.55 |     |     | 37.4090  | 69.0760   |      |      |    | 33.0  |     |      | 16   |     | 40.83 | 45.92 | m i ke | BGR    |
| OrigID 10815010 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10815010 |
| Ms        | 4.8 |      | BGR    | 10815010 |

| Sta | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|-----|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|--------|-----------|
| BRG | 40.83 |      | P     | 10:48:59.647 | 0.8  | 84.0 |       | 8.12 |      | TAS |     | 61.8 | 1.38 | m_e mb | 5.2       |

|      |       |   |              |      |      |      |     |        |       |     |    |     |
|------|-------|---|--------------|------|------|------|-----|--------|-------|-----|----|-----|
| BSEG | 42.91 | P | 10:49:16.412 | 1.0  | 84.0 | 8.12 | TAS | 71.3   | 1.43  | m_e | mb | 5.2 |
| BUG  | 44.96 | P | 10:49:32.849 | 0.1  | 84.0 | 8.12 | TAS | 16.8   | 1.38  | m_e | mb | 4.8 |
| CLL  | 41.40 | P | 10:49:03.756 | 0.1  | 84.0 | 8.12 | TAS | 40.5   | 1.40  | m_e | mb | 5.0 |
| CLZ  | 43.00 | P | 10:49:17.152 | -0.2 | 84.0 | 8.12 | TAS | 50.5   | 1.44  | m_e | mb | 5.0 |
| FLT1 | 42.43 | P | 10:49:11.810 | -0.2 | 84.0 | 8.12 | TAS | 24.4   | 0.66  | m_e | mb | 5.1 |
| GEC2 | 41.12 | P | 10:49:02.277 |      | 84.0 | 8.12 | TAS | 25.8   | 1.53  | m_e | mb | 4.7 |
| GRA1 | 42.66 | P | 10:49:15.426 |      | 84.0 | 8.12 | TAS | 61.3   | 1.35  | m_e | mb | 5.2 |
| GRA1 | 42.66 | L | 11:10:41.059 |      |      |      | T__ | 1607.5 | 18.50 | a_e | Ms | 5.0 |
| IBBN | 44.56 | P | 10:49:29.561 | 0.1  | 84.0 | 8.12 | TAS | 101.5  | 1.46  | m_e | mb | 5.5 |
| MOX  | 42.31 | L | 11:11:08.750 |      |      |      | T__ | 855.5  | 18.20 | a_e | Ms | 4.7 |
| NEUB | 42.17 | P | 10:49:10.331 | -0.1 | 84.0 | 8.12 | TAS | 79.2   | 1.47  | m_e | mb | 5.2 |
| PLN  | 41.98 | P | 10:49:09.180 | 0.2  | 84.0 | 8.12 | TAS | 10.1   | 1.39  | m_e | mb | 4.4 |
| RUE  | 40.87 | P | 10:48:59.154 | -0.5 | 84.0 | 8.12 | TAS |        |       | m_e |    |     |
| TANN | 41.80 | P | 10:49:07.710 |      | 84.0 | 8.12 | TAS | 24.6   | 1.30  | m_e | mb | 4.8 |
| TNS  | 44.37 | P | 10:49:28.246 |      | 84.0 | 8.12 | TAS | 26.5   | 1.34  | m_e | mb | 4.8 |
| WET  | 41.63 | P | 10:49:06.468 |      | 84.0 | 8.12 | TAS | 13.3   | 1.35  | m_e | mb | 4.5 |
| WLF  | 45.92 | P | 10:49:41.067 |      | 84.0 | 8.12 | TAS | 47.6   | 1.17  | m_e | mb | 5.4 |

Event 10816003 South Sandwich Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/16 | 11:10:36.10 |     |     | -58.0760 | -23.1460  |      |      |    | 14.0  |     |      | 23   |     | 109.22 | 116.11 | m i ke | NEIC   |
|            | 10816042    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID  
 Ms 6.7 BGR 10816009

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 113.29 |      | PP    | 11:30:11.371 | -1.1 | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| BFO  | 109.22 |      | Pdiff | 11:25:04.788 | -0.9 | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| BRG  | 112.80 |      | Pdiff | 11:25:20.450 | -1.2 | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| BRG  | 112.80 |      | PP    | 11:30:10.340 | 0.1  | 196.2 |       | 6.90 |      | TAS |     |     |     | m_e  |           |
| BSEG | 114.94 |      | PP    | 11:30:22.971 |      | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| BUG  | 111.99 |      | Pdiff | 11:25:14.969 | -0.0 | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| BUG  | 111.99 |      | PP    | 11:30:02.921 | 0.5  | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| CLL  | 113.00 |      | Pdiff | 11:25:21.234 | 1.6  | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| CLL  | 113.00 |      | PP    | 11:30:07.771 | -0.2 | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| CLZ  | 112.96 |      | Pdiff | 11:25:21.234 | -1.6 | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| CLZ  | 112.96 |      | PP    | 11:30:09.571 | 0.7  | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| FLT1 | 113.60 |      | Pdiff | 11:25:25.932 | 1.7  | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| FLT1 | 113.60 |      | PP    | 11:30:12.921 | 0.3  | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| FUR  | 109.66 |      | Pdiff | 11:25:04.788 | 2.8  | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| GEC2 | 110.83 |      | Pdiff | 11:25:14.185 | -1.6 | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |
| GEC2 | 110.83 |      | PP    | 11:29:54.830 | 0.4  | 196.2 |       | 6.90 |      | TAS |     |     |     | m_e  |           |
| GOR1 | 114.23 |      | PP    | 11:30:17.571 | -0.2 | 196.2 |       | 6.90 |      | TAS |     |     |     | a_e  |           |
| GRA1 | 111.10 |      | Pdiff | 11:25:15.752 | -0.4 | 203.3 |       | 4.69 |      | TAS |     |     |     | m_e  |           |

|      |        |       |              |      |       |      |     |         |       |  |  |  |  |  |  |  |            |
|------|--------|-------|--------------|------|-------|------|-----|---------|-------|--|--|--|--|--|--|--|------------|
| GRA1 | 111.10 | PP    | 11:29:55.071 | -1.1 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| GRA1 | 111.10 | L     | 12:11:34.954 |      |       |      | T__ | 21807.2 | 20.90 |  |  |  |  |  |  |  | a_e Ms 6.7 |
| GTTG | 112.60 | PP    | 11:30:07.071 | 0.5  | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| HLG  | 114.72 | PP    | 11:30:22.421 |      | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| IBBN | 112.91 | Pdiff | 11:25:18.884 | 1.1  | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| IBBN | 112.91 | PP    | 11:30:09.571 | -0.4 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| KAST | 111.98 | Pdiff | 11:25:17.318 | -0.2 | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| KAST | 111.98 | PP    | 11:30:03.021 | -0.6 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| MOX  | 112.08 | Pdiff | 11:25:17.125 | 0.6  | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| MOX  | 112.08 | PP    | 11:30:01.971 | 0.2  | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| MOX  | 112.08 | L     | 12:12:01.969 |      |       |      | T__ | 23294.4 | 20.60 |  |  |  |  |  |  |  | a_e Ms 6.8 |
| NEUB | 112.63 | Pdiff | 11:25:20.450 | -0.2 | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| NEUB | 112.63 | PP    | 11:30:06.121 | -1.0 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| PLN  | 112.04 | Pdiff | 11:25:15.752 | -1.6 | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| PLN  | 112.04 | PP    | 11:30:01.121 | 3.2  | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| RETH | 113.62 | Pdiff | 11:25:25.149 | -0.1 | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| RETH | 113.62 | PP    | 11:30:14.571 | 0.1  | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| RGN  | 116.11 | PP    | 11:30:30.271 |      | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| RUE  | 114.26 | PP    | 11:30:16.371 |      | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| STU  | 109.81 | Pdiff | 11:25:06.354 |      | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| TANN | 112.04 | Pdiff | 11:25:18.101 |      | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| TANN | 112.04 | PP    | 11:30:01.271 | -0.3 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| TNS  | 111.05 | Pdiff | 11:25:11.836 |      | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| TNS  | 111.05 | PP    | 11:29:55.921 | -0.9 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | a_e        |
| WET  | 110.94 | Pdiff | 11:25:11.053 |      | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| WET  | 110.94 | PP    | 11:29:53.816 | -0.1 | 196.2 | 6.90 | TAS |         |       |  |  |  |  |  |  |  | m_e        |
| WLF  | 110.09 | Pdiff | 11:25:07.137 |      | 203.3 | 4.69 | TAS |         |       |  |  |  |  |  |  |  | m_e        |

Event 10818003 Vanuatu Islands

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/18 | 10:10:04.00 |     |     | -15.0710 | 167.0770  |      |      |    | 90.0  |     |      | 24   |     | 137.03 | 142.44 | m i ke | NEIC   |
|            | 10818042    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| Ms        | 6.5 |      | BGR    | 10818009 |

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 138.46 |      | PKPdf | 10:29:20.345 |      | 35.6 |       | 2.05 |      | TAS |     |     |     |      | m_e       |
| ASSE | 138.46 |      | PP    | 10:32:08.346 | 0.4  | 35.2 |       | 6.20 |      | TAS |     |     |     |      | a_e       |
| BFO  | 142.44 |      | PP    | 10:32:33.046 |      | 35.2 |       | 6.20 |      | TAS |     |     |     |      | a_e       |
| BRG  | 138.19 |      | PKPdf | 10:29:20.121 | -0.5 | 35.6 |       | 2.05 |      | TAS |     |     |     |      | m_e       |
| BRG  | 138.19 |      | PP    | 10:32:07.646 | -0.8 | 35.2 |       | 6.20 |      | TAS |     |     |     |      | a_e       |
| BSEG | 137.10 |      | PKPdf | 10:29:16.981 | 0.8  | 35.6 |       | 2.05 |      | TAS |     |     |     |      | m_e       |
| BSEG | 137.10 |      | PP    | 10:32:00.596 | -0.1 | 35.2 |       | 6.20 |      | TAS |     |     |     |      | a_e       |
| BUG  | 140.20 |      | PKPdf | 10:29:22.812 |      | 35.6 |       | 2.05 |      | TAS |     |     |     |      | m_e       |

|      |        |       |              |      |      |      |     |         |       |  |  |  |  |  |  |            |
|------|--------|-------|--------------|------|------|------|-----|---------|-------|--|--|--|--|--|--|------------|
| BUG  | 140.20 | PP    | 10:32:18.096 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| CLL  | 138.24 | PKPdf | 10:29:19.672 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| CLL  | 138.24 | PP    | 10:32:07.546 | -1.1 | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| CLZ  | 138.80 | PKPdf | 10:29:22.363 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| CLZ  | 138.80 | PP    | 10:32:10.946 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| FLT1 | 138.10 | PKPdf | 10:29:19.448 | 0.5  | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| FLT1 | 138.10 | PP    | 10:32:06.096 | -0.2 | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| FUR  | 141.38 | PP    | 10:32:28.796 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| GEC2 | 139.82 | PKPdf | 10:29:22.587 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| GEC2 | 139.82 | PP    | 10:32:16.796 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | m_e        |
| GOR1 | 137.54 | PKPdf | 10:29:18.999 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| GOR1 | 137.54 | PP    | 10:32:02.946 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| GRA1 | 140.21 | PP    | 10:32:19.296 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| GRA1 | 140.21 | L     | 11:30:39.235 |      |      |      | T__ | 7694.2  | 21.50 |  |  |  |  |  |  | a_e Ms 6.4 |
| GTTG | 139.19 | PKPdf | 10:29:22.363 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| GTTG | 139.19 | PP    | 10:32:12.896 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | m_e        |
| HLG  | 137.65 | PP    | 10:32:03.596 | 0.1  | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| IBBN | 139.30 | PKPdf | 10:29:22.587 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| IBBN | 139.30 | PP    | 10:32:12.996 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| KAST | 140.02 | PKPdf | 10:29:23.036 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| KAST | 140.02 | PP    | 10:32:17.646 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| MOX  | 139.30 | PKPdf | 10:29:22.363 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| MOX  | 139.30 | PP    | 10:32:13.646 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| MOX  | 139.30 | L     | 11:32:36.501 |      |      |      | T__ | 10295.5 | 21.40 |  |  |  |  |  |  | a_e Ms 6.5 |
| NEUB | 138.81 | PKPdf | 10:29:21.915 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| NEUB | 138.81 | PP    | 10:32:10.546 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| PLN  | 139.22 | PKPdf | 10:29:22.363 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| PLN  | 139.22 | PP    | 10:32:12.946 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| RETH | 138.41 | PKPdf | 10:29:20.121 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| RETH | 138.41 | PP    | 10:32:07.996 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| RUE  | 137.03 | PKPdf | 10:29:16.757 | 0.2  | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| RUE  | 137.03 | PP    | 10:32:00.346 | -0.1 | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| STU  | 141.74 | PP    | 10:32:29.346 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| TANN | 139.15 | PKPdf | 10:29:21.690 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| TANN | 139.15 | PP    | 10:32:13.096 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| TNS  | 140.83 | PP    | 10:32:23.246 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| WET  | 139.95 | PKPdf | 10:29:23.709 |      | 35.6 | 2.05 | TAS |         |       |  |  |  |  |  |  | m_e        |
| WET  | 139.95 | PP    | 10:32:17.546 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |
| WLF  | 142.09 | PP    | 10:32:31.646 |      | 35.2 | 6.20 | TAS |         |       |  |  |  |  |  |  | a_e        |

Event 10821001 Yunnan, China

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/21 | 02:20:15.77 |     |     | 27.2180  | 104.8590  |      |      |    | 15.0  |     |      |      | 20  | 69.90 | 74.99 | m i ke | BGR    |
| 10821007   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.9 |      | BGR    | 10821007 |
| Ms        | 4.4 |      | BGR    | 10821007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|-----|
| ASSE | 71.41 |      | P     | 02:31:34.315 | -0.2 | 69.1 |       | 6.02 |      | TAS |     | 6.0   | 1.22  | m_e  | mb        | 4.6 |
| BFO  | 74.22 |      | P     | 02:31:51.061 |      | 69.1 |       | 6.02 |      | TAS |     | 13.0  | 1.28  | m_e  | mb        | 4.8 |
| BRG  | 69.90 |      | P     | 02:31:25.430 | 0.5  | 69.1 |       | 6.02 |      | TAS |     | 6.2   | 1.29  | m_e  | mb        | 4.6 |
| BSEG | 70.98 |      | P     | 02:31:32.387 | -0.6 | 69.1 |       | 6.02 |      | TAS |     | 11.2  | 1.20  | m_e  | mb        | 4.9 |
| CLL  | 70.32 |      | P     | 02:31:27.634 | -0.1 | 69.1 |       | 6.02 |      | TAS |     | 12.4  | 1.57  | m_e  | mb        | 4.8 |
| CLZ  | 71.68 |      | P     | 02:31:36.501 | -0.1 | 69.1 |       | 6.02 |      | TAS |     | 9.3   | 1.09  | m_e  | mb        | 4.8 |
| FLT1 | 71.01 |      | P     | 02:31:31.559 | -0.2 | 69.1 |       | 6.02 |      | TAS |     | 11.0  | 1.33  | m_e  | mb        | 4.8 |
| FUR  | 72.47 |      | P     | 02:31:41.600 |      | 69.1 |       | 6.02 |      | TAS |     | 88.8  | 1.83  | m_e  | mb        | 5.6 |
| GEC2 | 70.72 |      | P     | 02:31:30.573 |      | 69.1 |       | 6.02 |      | TAS |     | 7.4   | 1.20  | m_e  | mb        | 4.7 |
| GEC2 | 70.72 |      | pP    | 02:31:34.850 |      |      |       |      |      | T__ |     |       |       | m_e  |           |     |
| GOR1 | 70.74 |      | P     | 02:31:30.845 | -0.3 | 69.1 |       | 6.02 |      | TAS |     |       |       | m_e  |           |     |
| GRA1 | 71.95 |      | P     | 02:31:38.388 |      | 69.1 |       | 6.02 |      | TAS |     | 44.2  | 1.75  | m_e  | mb        | 5.3 |
| GRA1 | 71.95 |      | L     | 03:05:13.533 |      |      |       |      |      | T__ |     | 233.7 | 18.20 | a_e  | Ms        | 4.5 |
| GTTG | 72.02 |      | P     | 02:31:38.496 | -0.1 | 69.1 |       | 6.02 |      | TAS |     | 24.8  | 1.63  | m_e  | mb        | 5.1 |
| MOX  | 71.37 |      | P     | 02:31:34.359 | 0.3  | 69.1 |       | 6.02 |      | TAS |     | 15.1  | 1.62  | m_e  | mb        | 4.9 |
| MOX  | 71.37 |      | L     | 03:04:51.716 |      |      |       |      |      | T__ |     | 152.0 | 20.00 | a_e  | Ms        | 4.3 |
| NEUB | 71.09 |      | P     | 02:31:32.540 | 0.1  | 69.1 |       | 6.02 |      | TAS |     | 13.9  | 1.16  | m_e  | mb        | 5.0 |
| PLN  | 71.10 |      | P     | 02:31:32.776 | 0.1  | 69.1 |       | 6.02 |      | TAS |     | 6.2   | 1.78  | m_e  | mb        | 4.4 |
| STU  | 73.52 |      | P     | 02:31:47.292 |      | 69.1 |       | 6.02 |      | TAS |     | 52.1  | 1.34  | m_e  | mb        | 5.4 |
| TANN | 70.95 |      | P     | 02:31:31.826 | -0.1 | 69.1 |       | 6.02 |      | TAS |     | 9.4   | 1.33  | m_e  | mb        | 4.8 |
| TNS  | 73.41 |      | P     | 02:31:46.610 | -0.6 | 69.1 |       | 6.02 |      | TAS |     | 10.7  | 1.30  | m_e  | mb        | 4.8 |
| WET  | 71.12 |      | P     | 02:31:33.253 |      | 69.1 |       | 6.02 |      | TAS |     | 11.5  | 1.39  | m_e  | mb        | 4.8 |
| WLF  | 74.99 |      | P     | 02:31:56.399 | 0.6  | 69.1 |       | 6.02 |      | TAS |     | 21.1  | 1.18  | m_e  | mb        | 5.0 |

Event 10821002 Off east coast of Honshu, Japan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/21 | 19:45:20.48 |     |     | 34.5800  | 141.3900  |      |      |    | 9.6   | 0.7 |      | 17   |     | 82.14 | 85.77 | m i ke | BGR    |
|            |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.7 |      | BGR    | 10821008 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|------|------|-----------|-----|
| BRG  | 83.06 |      | P     | 19:57:47.124 | 0.0  | 39.2 |       | 5.08 |      | TAS |     | 3.9 | 0.91 | m_e  | mb        | 4.6 |
| BRG  | 83.06 |      | pP    | 19:57:49.849 |      | 38.9 |       | 5.17 |      | TAS |     |     |      | m_e  |           |     |
| BSEG | 82.14 |      | P     | 19:57:42.471 | -0.1 | 39.2 |       | 5.08 |      | TAS |     |     |      | m_e  |           |     |
| CLL  | 83.12 |      | P     | 19:57:47.103 | 0.0  | 39.2 |       | 5.08 |      | TAS |     | 8.7 | 0.89 | m_e  | mb        | 5.0 |
| CLL  | 83.12 |      | pP    | 19:57:49.781 |      | 38.9 |       | 5.17 |      | TAS |     |     |      | m_e  |           |     |
| CLZ  | 83.75 |      | P     | 19:57:50.825 | 0.1  | 39.2 |       | 5.08 |      | TAS |     | 6.4 | 0.99 | m_e  | mb        | 4.8 |
| CLZ  | 83.75 |      | pP    | 19:57:53.530 | -0.1 | 38.9 |       | 5.17 |      | TAS |     |     |      | m_e  |           |     |



|      |       |    |              |      |      |      |     |      |      |     |    |     |
|------|-------|----|--------------|------|------|------|-----|------|------|-----|----|-----|
| FLT1 | 83.04 | P  | 19:57:46.436 | 0.0  | 39.2 | 5.08 | TAS | 3.9  | 0.90 | m_e | mb | 4.6 |
| FLT1 | 83.04 | pP | 19:57:49.183 | 0.1  | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| GEC2 | 84.69 | P  | 19:57:55.107 |      | 39.2 | 5.08 | TAS | 2.0  | 0.82 | m_e | mb | 4.4 |
| GRA1 | 85.09 | P  | 19:57:57.695 |      | 39.2 | 5.08 | TAS | 10.6 | 0.93 | m_e | mb | 5.1 |
| GTTG | 84.14 | P  | 19:57:52.692 | -0.1 | 39.2 | 5.08 | TAS | 8.7  | 0.96 | m_e | mb | 5.0 |
| GTTG | 84.14 | pP | 19:57:55.621 | -0.1 | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| IBBN | 84.37 | P  | 19:57:53.569 | -0.2 | 39.2 | 5.08 | TAS | 9.4  | 0.92 | m_e | mb | 5.0 |
| IBBN | 84.37 | pP | 19:57:56.292 | 0.1  | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| KAST | 85.01 | P  | 19:57:56.903 | -0.2 | 39.2 | 5.08 | TAS | 5.1  | 0.85 | m_e | mb | 4.8 |
| KAST | 85.01 | pP | 19:57:59.628 |      | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| MOX  | 84.19 | P  | 19:57:52.665 | -0.2 | 39.2 | 5.08 | TAS | 2.9  | 0.87 | m_e | mb | 4.5 |
| MOX  | 84.19 | pP | 19:57:55.573 |      | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| NEUB | 83.70 | P  | 19:57:50.271 | 0.4  | 39.2 | 5.08 | TAS | 9.0  | 0.78 | m_e | mb | 5.1 |
| NEUB | 83.70 | pP | 19:57:53.105 |      | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| PLN  | 84.09 | P  | 19:57:52.308 |      | 39.2 | 5.08 | TAS | 2.8  | 1.46 | m_e | mb | 4.3 |
| PLN  | 84.09 | pP | 19:57:54.970 |      | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| RETH | 83.43 | P  | 19:57:48.855 | 0.3  | 39.2 | 5.08 | TAS | 4.2  | 1.00 | m_e | mb | 4.6 |
| TANN | 84.02 | P  | 19:57:51.935 |      | 39.2 | 5.08 | TAS | 1.7  | 0.90 | m_e | mb | 4.3 |
| TANN | 84.02 | pP | 19:57:54.631 |      | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| TNS  | 85.77 | P  | 19:58:00.595 |      | 39.2 | 5.08 | TAS |      |      | m_e |    |     |
| TNS  | 85.77 | pP | 19:58:03.577 |      | 38.9 | 5.17 | TAS |      |      | m_e |    |     |
| WET  | 84.82 | P  | 19:57:55.970 |      | 39.2 | 5.08 | TAS | 2.3  | 0.96 | m_e | mb | 4.4 |

Event 10821003 Off east coast of Honshu, Japan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/21 | 21:55:42.20 |     |     | 36.0300  | 142.3400  |      |      |    | 20.0  |     |      | 23   |     | 81.03 | 86.44 | m i ke | BGR    |
| 10821009   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10821009 |
| Ms        | 5.1 |      | BGR    | 10821009 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|-----|
| ASSE | 82.49 |      | P     | 22:08:04.346 | 0.2  | 37.9 |       | 5.11 |      | TAS |     | 8.6   | 0.95  | m_e  | mb        | 5.0 |
| BFO  | 86.44 |      | P     | 22:08:24.091 |      | 37.9 |       | 5.11 |      | TAS |     | 12.3  | 0.95  | m_e  | mb        | 5.0 |
| BRG  | 82.20 |      | P     | 22:08:02.746 | 0.1  | 37.9 |       | 5.11 |      | TAS |     | 7.4   | 0.88  | m_e  | mb        | 4.8 |
| BSEG | 81.19 |      | P     | 22:07:57.731 | -0.2 | 37.9 |       | 5.11 |      | TAS |     | 14.1  | 0.87  | m_e  | mb        | 5.0 |
| CLL  | 82.24 |      | P     | 22:08:02.740 | 0.0  | 37.9 |       | 5.11 |      | TAS |     | 13.6  | 0.84  | m_e  | mb        | 5.1 |
| CLZ  | 82.83 |      | P     | 22:08:06.274 | 0.3  | 37.9 |       | 5.11 |      | TAS |     | 14.7  | 1.04  | m_e  | mb        | 5.2 |
| FLT1 | 82.12 |      | P     | 22:08:01.827 | 0.2  | 37.9 |       | 5.11 |      | TAS |     | 13.5  | 0.82  | m_e  | mb        | 5.1 |
| GEC2 | 83.86 |      | P     | 22:08:11.244 | -0.4 | 37.9 |       | 5.11 |      | TAS |     | 5.5   | 0.98  | m_e  | mb        | 4.8 |
| GEC2 | 83.86 |      | pP    | 22:08:17.049 |      |      |       |      |      | T__ |     |       |       | m_e  |           |     |
| GOR1 | 81.57 |      | P     | 22:07:59.710 | -0.0 | 37.9 |       | 5.11 |      | TAS |     | 16.6  | 1.06  | m_e  | mb        | 5.1 |
| GRA1 | 84.21 |      | P     | 22:08:13.413 | 0.0  | 37.9 |       | 5.11 |      | TAS |     | 25.3  | 1.08  | m_e  | mb        | 5.4 |
| GRA1 | 84.21 |      | L     | 22:48:50.916 |      |      |       |      |      | T__ |     | 681.6 | 19.00 | a_e  | Ms        | 5.0 |

|      |       |   |              |      |      |      |     |       |       |     |    |     |
|------|-------|---|--------------|------|------|------|-----|-------|-------|-----|----|-----|
| GTTG | 83.22 | P | 22:08:08.228 | -0.2 | 37.9 | 5.11 | TAS | 10.1  | 1.00  | m_e | mb | 5.0 |
| IBBN | 83.41 | P | 22:08:08.905 | 0.0  | 37.9 | 5.11 | TAS | 15.6  | 0.90  | m_e | mb | 5.2 |
| KAST | 84.07 | P | 22:08:12.291 | -0.0 | 37.9 | 5.11 | TAS | 4.6   | 0.88  | m_e | mb | 4.7 |
| MOX  | 83.30 | P | 22:08:08.419 | 0.1  | 37.9 | 5.11 | TAS | 4.0   | 0.95  | m_e | mb | 4.6 |
| MOX  | 83.30 | L | 22:48:21.529 |      |      |      | T__ | 925.2 | 19.10 | a_e | Ms | 5.2 |
| NEUB | 82.81 | P | 22:08:05.959 | -0.0 | 37.9 | 5.11 | TAS | 15.4  | 0.84  | m_e | mb | 5.3 |
| PLN  | 83.22 | P | 22:08:08.078 | 0.0  | 37.9 | 5.11 | TAS | 1.7   | 1.14  | m_e | mb | 4.2 |
| RETH | 82.49 | P | 22:08:04.103 | -0.1 | 37.9 | 5.11 | TAS | 11.4  | 1.00  | m_e | mb | 5.1 |
| RUE  | 81.03 | P | 22:07:56.816 | -0.6 | 37.9 | 5.11 | TAS | 25.8  | 1.16  | m_e | mb | 5.2 |
| STU  | 85.75 | P | 22:08:20.875 |      | 37.9 | 5.11 | TAS | 30.2  | 0.79  | m_e | mb | 5.5 |
| TANN | 83.15 | P | 22:08:07.767 | 0.1  | 37.9 | 5.11 | TAS | 3.1   | 1.00  | m_e | mb | 4.5 |
| TNS  | 84.86 | P | 22:08:16.392 | 0.3  | 37.9 | 5.11 | TAS | 4.2   | 0.74  | m_e | mb | 4.8 |
| WET  | 83.97 | P | 22:08:11.874 | -0.1 | 37.9 | 5.11 | TAS | 16.0  | 1.55  | m_e | mb | 5.0 |
| WLF  | 86.16 | P | 22:08:23.158 | 0.1  | 37.9 | 5.11 | TAS | 11.7  | 1.11  | m_e | mb | 4.9 |

Event 10822001 South Sandwich Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/22 | 00:45:08.20 |     |     | -60.1200 | -24.3400  |      |      |    | 11.0  |     |      | 21   |     | 111.34 | 117.07 | m i ke | NEIC   |
|            | 10822096    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| Ms        | 6.5 |      | BGR    | 10822007 |

| Sta  | Dist   | EvAz | Phase  | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|--------|--------------|------|-------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 115.42 |      | Pdiff  | 01:00:04.232 | -0.2 | 196.7 |       | 4.56 |      | TAS |     |     |     |      | m_e       |
| ASSE | 115.42 |      | PKiKP  | 01:03:50.751 |      | 194.7 |       | 1.84 |      | TAS |     |     |     |      | m_e       |
| ASSE | 115.42 |      | PP     | 01:04:50.662 | -0.2 | 198.3 |       | 7.06 |      | TAS |     |     |     |      | m_e       |
| ASSE | 115.42 |      | PKKPbc | 01:14:24.028 |      |       |       |      |      | T__ |     |     |     |      | m_e       |
| ASSE | 115.42 |      | PKKPab | 01:14:29.421 | 0.0  | 18.3  |       | 4.46 |      | TAS |     |     |     |      | m_e       |
| ASSE | 115.42 |      | SKKSac | 01:22:01.149 |      |       |       |      |      | T__ |     |     |     |      | m_e       |
| BFO  | 111.34 |      | Pdiff  | 00:59:44.991 | -0.4 | 196.7 |       | 4.56 |      | TAS |     |     |     |      | m_e       |
| BFO  | 111.34 |      | PKiKP  | 01:03:43.143 | -0.3 | 194.7 |       | 1.84 |      | TAS |     |     |     |      | m_e       |
| BFO  | 111.34 |      | PP     | 01:04:21.654 | -0.2 | 198.3 |       | 7.06 |      | TAS |     |     |     |      | m_e       |
| BFO  | 111.34 |      | PKKPbc | 01:14:38.204 | -0.4 |       |       |      |      | T__ |     |     |     |      | m_e       |
| BFO  | 111.34 |      | PKKPab | 01:14:47.220 | -0.4 | 18.3  |       | 4.46 |      | TAS |     |     |     |      | m_e       |
| BFO  | 111.34 |      | SKKSac | 01:22:21.512 | 0.1  |       |       |      |      | T__ |     |     |     |      | m_e       |
| BRG  | 114.91 |      | Pdiff  | 01:00:01.363 | -0.0 | 196.7 |       | 4.56 |      | TAS |     |     |     |      | m_e       |
| BRG  | 114.91 |      | PKiKP  | 01:03:50.028 |      | 194.7 |       | 1.84 |      | TAS |     |     |     |      | m_e       |
| BRG  | 114.91 |      | PP     | 01:04:47.260 | 0.2  | 198.3 |       | 7.06 |      | TAS |     |     |     |      | m_e       |
| BRG  | 114.91 |      | PKKPbc | 01:14:26.000 | -0.2 |       |       |      |      | T__ |     |     |     |      | m_e       |
| BRG  | 114.91 |      | PKKPab | 01:14:31.519 | 0.1  | 18.3  |       | 4.46 |      | TAS |     |     |     |      | m_e       |
| BRG  | 114.91 |      | SKKSac | 01:22:03.762 |      |       |       |      |      | T__ |     |     |     |      | m_e       |
| BSEG | 117.07 |      | Pdiff  | 01:00:11.434 |      | 196.7 |       | 4.56 |      | TAS |     |     |     |      | m_e       |
| BSEG | 117.07 |      | PKPdf  | 01:03:54.128 |      |       |       |      |      | T__ |     |     |     |      | m_e       |
| CLL  | 115.12 |      | Pdiff  | 01:00:02.994 | 0.3  | 196.7 |       | 4.56 |      | TAS |     |     |     |      | m_e       |

|      |        |        |              |      |       |      |     |                         |
|------|--------|--------|--------------|------|-------|------|-----|-------------------------|
| CLL  | 115.12 | PKiKP  | 01:03:50.097 |      | 194.7 | 1.84 | TAS | m_e                     |
| CLL  | 115.12 | PP     | 01:04:48.280 | 0.1  | 198.3 | 7.06 | TAS | m_e                     |
| CLL  | 115.12 | PKKPbc | 01:14:25.162 | 0.3  |       |      | T__ | m_e                     |
| CLL  | 115.12 | PKKPab | 01:14:30.456 | -0.5 | 18.3  | 4.46 | TAS | m_e                     |
| CLL  | 115.12 | SKKSac | 01:22:02.506 |      |       |      | T__ | m_e                     |
| CLZ  | 115.09 | Pdiff  | 01:00:02.488 | 0.7  | 196.7 | 4.56 | TAS | m_e                     |
| CLZ  | 115.09 | PKiKP  | 01:03:50.372 |      | 194.7 | 1.84 | TAS | m_e                     |
| CLZ  | 115.09 | PP     | 01:04:48.195 | -0.1 | 198.3 | 7.06 | TAS | m_e                     |
| CLZ  | 115.09 | PKKPbc | 01:14:25.648 | -0.1 |       |      | T__ | m_e                     |
| CLZ  | 115.09 | PKKPab | 01:14:31.031 | -0.0 | 18.3  | 4.46 | TAS | m_e                     |
| CLZ  | 115.09 | SKKSac | 01:22:02.975 |      |       |      | T__ | m_e                     |
| FLT1 | 115.72 | PKiKP  | 01:03:51.130 |      | 194.7 | 1.84 | TAS | m_e                     |
| FLT1 | 115.72 | PP     | 01:04:52.477 | -0.1 | 198.3 | 7.06 | TAS | m_e                     |
| FLT1 | 115.72 | PKKPbc | 01:14:22.796 |      |       |      | T__ | m_e                     |
| FLT1 | 115.72 | PKKPab | 01:14:27.588 | 0.5  | 18.3  | 4.46 | TAS | m_e                     |
| FLT1 | 115.72 | SKKSac | 01:21:59.198 |      |       |      | T__ | m_e                     |
| FUR  | 111.78 | Pdiff  | 00:59:47.185 | 0.1  | 196.7 | 4.56 | TAS | m_e                     |
| FUR  | 111.78 | PKiKP  | 01:03:44.204 | 0.2  | 194.7 | 1.84 | TAS | m_e                     |
| FUR  | 111.78 | PP     | 01:04:24.801 | -0.1 | 198.3 | 7.06 | TAS | m_e                     |
| FUR  | 111.78 | PKKPbc | 01:14:36.873 | -0.2 |       |      | T__ | m_e                     |
| FUR  | 111.78 | PKKPab | 01:14:45.791 | 0.1  | 18.3  | 4.46 | TAS | m_e                     |
| GEC2 | 112.95 | Pdiff  | 00:59:52.473 | 0.2  | 196.7 | 4.56 | TAS | m_e                     |
| GEC2 | 112.95 | PKiKP  | 01:03:45.789 | 0.1  | 194.7 | 1.84 | TAS | m_e                     |
| GEC2 | 112.95 | PP     | 01:04:33.393 | 0.2  | 198.3 | 7.06 | TAS | m_e                     |
| GEC2 | 112.95 | PKKPbc | 01:14:33.013 | 0.2  |       |      | T__ | m_e                     |
| GEC2 | 112.95 | PKKPab | 01:14:40.771 | 0.3  | 18.3  | 4.46 | TAS | m_e                     |
| GOR1 | 116.36 | PKKPbc | 01:14:21.266 |      |       |      | T__ | m_e                     |
| GOR1 | 116.36 | PKKPab | 01:14:25.736 |      | 18.3  | 4.46 | TAS | m_e                     |
| GOR1 | 116.36 | SKKSac | 01:21:56.607 |      |       |      | T__ | m_e                     |
| GRA1 | 113.22 | Pdiff  | 00:59:53.542 | -0.2 | 196.7 | 4.56 | TAS | m_e                     |
| GRA1 | 113.22 | PP     | 01:04:35.010 | 0.0  | 198.3 | 7.06 | TAS | m_e                     |
| GRA1 | 113.22 | PKKPbc | 01:14:32.318 | -0.1 |       |      | T__ | m_e                     |
| GRA1 | 113.22 | PKKPab | 01:14:39.486 | 0.2  | 18.3  | 4.46 | TAS | m_e                     |
| GRA1 | 113.22 | SKKSac | 01:22:09.428 | 0.2  |       |      | T__ | m_e                     |
| GRA1 | 113.22 | L      | 01:47:48.648 |      |       |      | T__ | 9642.7 20.00 a_e Ms 6.4 |
| GTTG | 114.73 | Pdiff  | 01:00:00.575 | -0.1 | 196.7 | 4.56 | TAS | m_e                     |
| GTTG | 114.73 | PKiKP  | 01:03:49.649 | -0.3 | 194.7 | 1.84 | TAS | m_e                     |
| GTTG | 114.73 | PP     | 01:04:45.728 | 0.1  | 198.3 | 7.06 | TAS | m_e                     |
| GTTG | 114.73 | PKKPbc | 01:14:26.665 | 0.2  |       |      | T__ | m_e                     |
| GTTG | 114.73 | PKKPab | 01:14:32.503 | -0.2 | 18.3  | 4.46 | TAS | m_e                     |
| IBBN | 115.04 | Pdiff  | 01:00:02.544 | 0.1  | 196.7 | 4.56 | TAS | m_e                     |
| IBBN | 115.04 | PP     | 01:04:48.418 | -0.1 | 198.3 | 7.06 | TAS | m_e                     |
| IBBN | 115.04 | PKKPab | 01:14:31.089 | -0.4 | 18.3  | 4.46 | TAS | m_e                     |
| KAST | 114.11 | Pdiff  | 00:59:58.493 | 0.3  | 196.7 | 4.56 | TAS | m_e                     |
| KAST | 114.11 | PP     | 01:04:41.765 | 0.3  | 198.3 | 7.06 | TAS | m_e                     |
| KAST | 114.11 | PKKPbc | 01:14:28.759 | 0.1  |       |      | T__ | m_e                     |
| KAST | 114.11 | PKKPab | 01:14:35.185 | -0.1 | 18.3  | 4.46 | TAS | m_e                     |
| KAST | 114.11 | SKKSac | 01:22:07.572 | 0.3  |       |      | T__ | m_e                     |
| MOX  | 114.20 | Pdiff  | 00:59:57.481 | -0.2 | 196.7 | 4.56 | TAS | m_e                     |

|      |        |        |              |      |       |      |     |         |       |     |    |     |  |     |
|------|--------|--------|--------------|------|-------|------|-----|---------|-------|-----|----|-----|--|-----|
| MOX  | 114.20 | PKiKP  | 01:03:48.615 | -0.2 | 194.7 | 1.84 | TAS |         |       |     |    |     |  | m_e |
| MOX  | 114.20 | PP     | 01:04:41.815 | -0.0 | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| MOX  | 114.20 | PKKPbc | 01:14:28.343 | 0.1  |       |      | T__ |         |       |     |    |     |  | m_e |
| MOX  | 114.20 | PKKPab | 01:14:34.820 | -0.0 | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| MOX  | 114.20 | L      | 01:50:00.567 |      |       |      | T__ | 17463.0 | 18.00 | a_e | Ms | 6.7 |  |     |
| NEUB | 114.75 | Pdiff  | 01:00:00.631 | 0.1  | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| NEUB | 114.75 | PKiKP  | 01:03:49.580 | 0.1  | 194.7 | 1.84 | TAS |         |       |     |    |     |  | m_e |
| NEUB | 114.75 | PP     | 01:04:45.980 | 0.3  | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| PLN  | 114.16 | Pdiff  | 00:59:58.100 | -0.7 | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| PLN  | 114.16 | PKiKP  | 01:03:48.443 | -0.1 | 194.7 | 1.84 | TAS |         |       |     |    |     |  | m_e |
| PLN  | 114.16 | PP     | 01:04:41.390 | -0.1 | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| PLN  | 114.16 | PKKPbc | 01:14:28.712 | -0.0 |       |      | T__ |         |       |     |    |     |  | m_e |
| PLN  | 114.16 | PKKPab | 01:14:35.110 | -0.1 | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| RETH | 115.75 | PKKPbc | 01:14:22.954 |      |       |      | T__ |         |       |     |    |     |  | m_e |
| RETH | 115.75 | PKKPab | 01:14:27.933 |      | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| RETH | 115.75 | SKKSac | 01:21:59.761 |      |       |      | T__ |         |       |     |    |     |  | m_e |
| RUE  | 116.38 | Pdiff  | 01:00:07.833 |      | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| RUE  | 116.38 | PKiKP  | 01:03:52.578 |      | 194.7 | 1.84 | TAS |         |       |     |    |     |  | m_e |
| RUE  | 116.38 | PP     | 01:04:57.198 |      | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| STU  | 111.94 | Pdiff  | 00:59:47.860 | -0.1 | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| STU  | 111.94 | PP     | 01:04:25.992 | 0.0  | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| STU  | 111.94 | PKKPbc | 01:14:36.424 | -0.1 |       |      | T__ |         |       |     |    |     |  | m_e |
| STU  | 111.94 | PKKPab | 01:14:44.726 | -0.3 | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| STU  | 111.94 | SKKSac | 01:22:19.822 | -0.4 |       |      | T__ |         |       |     |    |     |  | m_e |
| TANN | 114.16 | Pdiff  | 00:59:57.312 | 0.1  | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| TANN | 114.16 | PKiKP  | 01:03:48.511 | 0.1  | 194.7 | 1.84 | TAS |         |       |     |    |     |  | m_e |
| TANN | 114.16 | PP     | 01:04:41.645 | -0.3 | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| TANN | 114.16 | PKKPbc | 01:14:28.774 | -0.2 |       |      | T__ |         |       |     |    |     |  | m_e |
| TANN | 114.16 | PKKPab | 01:14:35.148 | 0.0  | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| TNS  | 113.18 | Pdiff  | 00:59:54.274 | 0.4  | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| TNS  | 113.18 | PP     | 01:04:34.414 | -0.4 | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| TNS  | 113.18 | PKKPbc | 01:14:32.287 | 0.3  |       |      | T__ |         |       |     |    |     |  | m_e |
| TNS  | 113.18 | PKKPab | 01:14:39.362 | -0.1 | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| TNS  | 113.18 | SKKSac | 01:22:12.971 | 0.7  |       |      | T__ |         |       |     |    |     |  | m_e |
| WET  | 113.05 | Pdiff  | 00:59:53.036 | 0.3  | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| WET  | 113.05 | PP     | 01:04:33.989 | 0.2  | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| WET  | 113.05 | PKKPab | 01:14:40.398 | 0.3  | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| WLF  | 112.22 | Pdiff  | 00:59:49.885 | 0.1  | 196.7 | 4.56 | TAS |         |       |     |    |     |  | m_e |
| WLF  | 112.22 | PKiKP  | 01:03:45.686 | -0.2 | 194.7 | 1.84 | TAS |         |       |     |    |     |  | m_e |
| WLF  | 112.22 | PP     | 01:04:28.519 | 0.2  | 198.3 | 7.06 | TAS |         |       |     |    |     |  | m_e |
| WLF  | 112.22 | PKKPbc | 01:14:35.985 | 0.5  |       |      | T__ |         |       |     |    |     |  | m_e |
| WLF  | 112.22 | PKKPab | 01:14:43.899 | 0.3  | 18.3  | 4.46 | TAS |         |       |     |    |     |  | m_e |
| WLF  | 112.22 | SKKSac | 01:22:16.987 | 0.6  |       |      | T__ |         |       |     |    |     |  | m_e |

Event 10822003 Near east coast of eastern Honshu, Japan

| Date | Time | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual | Author |
|------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|
|------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|

OrigID  
 2021/08/22 02:24:36.32 37.6600 141.9400 68.4 1.1 25 78.02 84.86 m i ke BGR  
 10822009

Magnitude Err Nsta Author OrigID  
 mb 5.1 BGR 10822009

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|------|------|------|-----------|-----|
| ASSE | 80.90 |      | P     | 02:36:43.447 | -0.2 | 37.3 |       | 5.24 |      | TAS |     | 10.0 | 0.92 | a_e  | mb        | 4.8 |
| BFO  | 84.86 |      | P     | 02:37:03.947 |      | 37.3 |       | 5.24 |      | TAS |     | 28.8 | 0.94 | a_e  | mb        | 5.5 |
| BFO  | 84.86 |      | pP    | 02:37:22.714 |      | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| BRG  | 80.63 |      | P     | 02:36:42.047 | -0.3 | 37.3 |       | 5.24 |      | TAS |     | 12.3 | 0.89 | a_e  | mb        | 4.9 |
| BRG  | 80.63 |      | pP    | 02:37:00.994 | 0.0  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| BSEG | 79.59 |      | P     | 02:36:36.761 | 0.1  | 37.3 |       | 5.24 |      | TAS |     | 26.6 | 0.88 | m_e  | mb        | 5.2 |
| BSEG | 79.59 |      | pP    | 02:36:55.402 | 0.1  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| CLL  | 80.66 |      | P     | 02:36:42.006 | 0.0  | 37.3 |       | 5.24 |      | TAS |     | 26.1 | 0.91 | m_e  | mb        | 5.3 |
| CLL  | 80.66 |      | pP    | 02:37:00.475 | -0.0 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| CLZ  | 81.24 |      | P     | 02:36:45.729 | 0.0  | 37.3 |       | 5.24 |      | TAS |     | 26.8 | 0.95 | m_e  | mb        | 5.2 |
| CLZ  | 81.24 |      | pP    | 02:37:04.433 | -0.2 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| FLT1 | 80.53 |      | P     | 02:36:41.186 | -0.1 | 37.3 |       | 5.24 |      | TAS |     | 27.3 | 0.87 | m_e  | mb        | 5.3 |
| FLT1 | 80.53 |      | pP    | 02:36:59.850 | -0.5 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| FUR  | 83.83 |      | P     | 02:36:58.997 | -0.1 | 37.3 |       | 5.24 |      | TAS |     | 29.8 | 0.85 | a_e  | mb        | 5.5 |
| GEC2 | 82.31 |      | P     | 02:36:50.747 | 0.3  | 37.3 |       | 5.24 |      | TAS |     | 8.1  | 0.77 | a_e  | mb        | 4.9 |
| GEC2 | 82.31 |      | pP    | 02:37:09.346 |      | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| GOR1 | 79.98 |      | P     | 02:36:38.947 | 0.2  | 37.3 |       | 5.24 |      | TAS |     | 27.9 | 1.22 | a_e  | mb        | 5.1 |
| GOR1 | 79.98 |      | pP    | 02:36:57.619 | -0.1 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| GRA1 | 82.64 |      | P     | 02:36:53.247 | -0.0 | 37.3 |       | 5.24 |      | TAS |     | 24.6 | 0.95 | a_e  | mb        | 5.4 |
| GRA1 | 82.64 |      | pP    | 02:37:11.794 |      | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| GTTG | 81.63 |      | P     | 02:36:47.563 | 0.0  | 37.3 |       | 5.24 |      | TAS |     | 19.9 | 0.96 | m_e  | mb        | 5.2 |
| GTTG | 81.63 |      | pP    | 02:37:06.327 | 0.2  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| IBBN | 81.81 |      | P     | 02:36:48.317 | -0.1 | 37.3 |       | 5.24 |      | TAS |     | 27.7 | 0.82 | m_e  | mb        | 5.4 |
| IBBN | 81.81 |      | pP    | 02:37:06.935 | 0.2  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| KAST | 82.48 |      | P     | 02:36:51.747 | 0.6  | 37.3 |       | 5.24 |      | TAS |     | 9.2  | 0.91 | a_e  | mb        | 5.0 |
| KAST | 82.48 |      | pP    | 02:37:10.502 | -0.0 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| MOX  | 81.73 |      | P     | 02:36:47.897 | 0.0  | 37.3 |       | 5.24 |      | TAS |     | 33.0 | 1.55 | m_e  | mb        | 5.2 |
| MOX  | 81.73 |      | pP    | 02:37:06.565 | 0.0  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| NEUB | 81.23 |      | P     | 02:36:45.097 | 0.4  | 37.3 |       | 5.24 |      | TAS |     | 31.7 | 0.97 | a_e  | mb        | 5.3 |
| NEUB | 81.23 |      | pP    | 02:37:03.774 | 0.1  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| PLN  | 81.64 |      | P     | 02:36:47.497 | 0.2  | 37.3 |       | 5.24 |      | TAS |     | 2.3  | 0.89 | a_e  | mb        | 4.3 |
| PLN  | 81.64 |      | pP    | 02:37:06.123 | 0.4  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| RETH | 80.89 |      | P     | 02:36:43.497 | -0.1 | 37.3 |       | 5.24 |      | TAS |     | 16.3 | 0.97 | a_e  | mb        | 5.0 |
| RETH | 80.89 |      | pP    | 02:37:02.262 | -0.5 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| RGN  | 78.02 |      | P     | 02:36:28.319 | -0.1 | 37.3 |       | 5.24 |      | TAS |     | 29.1 | 0.72 | m_e  | mb        | 5.5 |
| RUE  | 79.45 |      | P     | 02:36:35.797 | -0.1 | 37.3 |       | 5.24 |      | TAS |     | 18.0 | 0.92 | a_e  | mb        | 5.0 |
| STU  | 84.17 |      | P     | 02:37:00.547 | -0.4 | 37.3 |       | 5.24 |      | TAS |     | 19.5 | 0.94 | a_e  | mb        | 5.3 |
| TANN | 81.58 |      | P     | 02:36:47.128 | 0.1  | 37.3 |       | 5.24 |      | TAS |     | 4.8  | 0.92 | m_e  | mb        | 4.6 |
| TANN | 81.58 |      | pP    | 02:37:05.941 | 0.3  | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |
| TNS  | 83.27 |      | P     | 02:36:55.947 | 0.1  | 37.3 |       | 5.24 |      | TAS |     | 9.4  | 0.93 | a_e  | mb        | 5.0 |
| TNS  | 83.27 |      | pP    | 02:37:14.719 | -0.2 | 37.4 |       | 5.24 |      | TAS |     |      |      | m_e  |           |     |

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Wed Jan 11 09:16:11 2023

46

|     |       |    |              |      |      |      |     |      |      |     |    |     |
|-----|-------|----|--------------|------|------|------|-----|------|------|-----|----|-----|
| WET | 82.41 | P  | 02:36:51.747 | -0.1 | 37.3 | 5.24 | TAS | 13.4 | 1.07 | a_e | mb | 5.1 |
| WET | 82.41 | pP | 02:37:10.425 |      | 37.4 | 5.24 | TAS |      |      | m_e |    |     |
| WLF | 84.57 | pP | 02:37:21.497 | -0.3 | 37.4 | 5.24 | TAS |      |      | m_e |    |     |

Event 10822004 Kermadec Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/22 | 10:58:30.10 |     |     | -29.4300 | -176.4400 |      |      |    | 10.0  |     |      | 19   |     | 154.94 | 160.69 | m i ke | EMSC   |
|            | 10822036    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 156.64 |      | PKPab | 11:18:57.449 | -0.0 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| BFO  | 160.69 |      | PKPab | 11:19:14.982 |      | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| BRG  | 157.13 |      | PKPab | 11:18:59.628 | 0.5  | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| BSEG | 154.94 |      | PKPab | 11:18:50.483 | -0.5 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| BUG  | 157.75 |      | PKPab | 11:19:04.804 | 0.1  | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| CLL  | 156.96 |      | PKPab | 11:18:58.580 | 0.2  | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| CLZ  | 156.96 |      | PKPab | 11:18:59.217 | 0.1  | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| FLT1 | 156.35 |      | PKPab | 11:18:55.859 | -0.2 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| GEC2 | 159.05 |      | PKPab | 11:19:08.011 |      | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| GOR1 | 155.70 |      | PKPab | 11:18:53.745 | -0.3 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| GRA1 | 158.87 |      | PKPab | 11:19:07.596 |      | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| GTTG | 157.31 |      | PKPab | 11:19:00.708 | -0.1 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| MOX  | 157.88 |      | PKPab | 11:19:02.814 | 0.0  | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| NEUB | 157.33 |      | PKPab | 11:19:00.473 | 0.4  | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| PLN  | 157.92 |      | PKPab | 11:19:03.132 | -0.3 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| STU  | 160.13 |      | PKPab | 11:19:12.633 |      | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| TANN | 157.92 |      | PKPab | 11:19:03.171 | -0.6 | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| TNS  | 158.82 |      | PKPab | 11:19:07.117 |      | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |
| WET  | 159.00 |      | PKPab | 11:19:08.183 |      | 20.6 |       | 4.35 |      | TAS |     |     |     | m_e  |           |

Event 10822002 South Sandwich Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/22 | 21:33:20.20 |     |     | -60.2900 | -24.9000  |      |      |    | 14.0  |     |      | 17   |     | 111.61 | 117.33 | m i ke | NEIC-M |
|            | 10822097    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

Ms 6.5 BGR 10822008

| Sta | Dist | EvAz | Phase | Time | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|-----|------|------|-------|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
|-----|------|------|-------|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|

|      |        |        |              |      |       |      |     |                          |
|------|--------|--------|--------------|------|-------|------|-----|--------------------------|
| ASSE | 115.69 | Pdiff  | 21:48:17.212 | -0.3 | 197.1 | 4.57 | TAS | m_e                      |
| ASSE | 115.69 | PKiKP  | 21:52:02.673 | -0.5 | 192.8 | 1.88 | TAS | m_e                      |
| ASSE | 115.69 | SKKSac | 22:10:14.632 |      | 17.0  | 5.21 | TAS | m_e                      |
| BFO  | 111.61 | Pdiff  | 21:47:58.280 | -0.5 | 197.1 | 4.57 | TAS | m_e                      |
| BFO  | 111.61 | PKiKP  | 21:51:55.088 | -0.2 | 192.8 | 1.88 | TAS | m_e                      |
| BFO  | 111.61 | PP     | 21:52:33.662 | -0.8 | 200.2 | 7.39 | TAS | m_e                      |
| BFO  | 111.61 | PKKPbc | 22:02:50.954 | -0.2 | 19.8  | 3.37 | TAS | m_e                      |
| BFO  | 111.61 | PKKPab | 22:02:59.497 | -0.3 | 17.7  | 4.48 | TAS | m_e                      |
| BFO  | 111.61 | SKKSac | 22:10:35.230 | -0.9 | 17.0  | 5.21 | TAS | m_e                      |
| BRG  | 115.19 | Pdiff  | 21:48:14.846 | 0.0  | 197.1 | 4.57 | TAS | m_e                      |
| BRG  | 115.19 | PKiKP  | 21:52:01.857 | 0.0  | 192.8 | 1.88 | TAS | m_e                      |
| BRG  | 115.19 | PKKPbc | 22:02:38.990 |      | 19.8  | 3.37 | TAS | m_e                      |
| BRG  | 115.19 | PKKPab | 22:02:43.609 |      | 17.7  | 4.48 | TAS | m_e                      |
| BRG  | 115.19 | SKKSac | 22:10:17.843 | 0.1  | 17.0  | 5.21 | TAS | m_e                      |
| BSEG | 117.33 | Pdiff  | 21:48:24.838 |      | 197.1 | 4.57 | TAS | m_e                      |
| BSEG | 117.33 | PKiKP  | 21:52:05.897 |      | 192.8 | 1.88 | TAS | m_e                      |
| CLL  | 115.39 | Pdiff  | 21:48:15.898 | -0.1 | 197.1 | 4.57 | TAS | m_e                      |
| CLL  | 115.39 | PKiKP  | 21:52:01.892 | -0.2 | 192.8 | 1.88 | TAS | m_e                      |
| CLL  | 115.39 | SKKSac | 22:10:15.667 |      | 17.0  | 5.21 | TAS | m_e                      |
| CLZ  | 115.36 | Pdiff  | 21:48:16.248 | 0.1  | 197.1 | 4.57 | TAS | m_e                      |
| CLZ  | 115.36 | PKiKP  | 21:52:02.212 | -0.1 | 192.8 | 1.88 | TAS | m_e                      |
| CLZ  | 115.36 | PP     | 21:53:03.204 |      | 200.2 | 7.39 | TAS | m_e                      |
| CLZ  | 115.36 | PKKPbc | 22:02:38.504 |      | 19.8  | 3.37 | TAS | m_e                      |
| CLZ  | 115.36 | SKKSac | 22:10:16.910 |      | 17.0  | 5.21 | TAS | m_e                      |
| FLT1 | 115.99 | Pdiff  | 21:48:18.440 | 0.3  | 197.1 | 4.57 | TAS | m_e                      |
| FLT1 | 115.99 | PKiKP  | 21:52:02.887 | 0.2  | 192.8 | 1.88 | TAS | m_e                      |
| FLT1 | 115.99 | PKKPab | 22:02:39.961 |      | 17.7  | 4.48 | TAS | m_e                      |
| FLT1 | 115.99 | SKKSac | 22:10:13.416 |      | 17.0  | 5.21 | TAS | m_e                      |
| FUR  | 112.05 | Pdiff  | 21:48:00.735 | 0.2  | 197.1 | 4.57 | TAS | m_e                      |
| FUR  | 112.05 | PKiKP  | 21:51:55.638 | -0.1 | 192.8 | 1.88 | TAS | m_e                      |
| FUR  | 112.05 | PP     | 21:52:38.457 | 0.4  | 200.2 | 7.39 | TAS | m_e                      |
| FUR  | 112.05 | PKKPbc | 22:02:49.483 | -0.1 | 19.8  | 3.37 | TAS | m_e                      |
| FUR  | 112.05 | PKKPab | 22:02:58.068 | 0.1  | 17.7  | 4.48 | TAS | m_e                      |
| GEC2 | 113.22 | Pdiff  | 21:48:06.081 | 0.3  | 197.1 | 4.57 | TAS | m_e                      |
| GEC2 | 113.22 | PKiKP  | 21:51:57.535 | -0.4 | 192.8 | 1.88 | TAS | m_e                      |
| GEC2 | 113.22 | PP     | 21:52:47.258 | 0.2  | 200.2 | 7.39 | TAS | m_e                      |
| GEC2 | 113.22 | PKKPbc | 22:02:45.595 | 0.1  | 19.8  | 3.37 | TAS | m_e                      |
| GOR1 | 116.63 | Pdiff  | 21:48:20.806 | -0.3 | 197.1 | 4.57 | TAS | m_e                      |
| GOR1 | 116.63 | PKiKP  | 21:52:04.558 | 0.0  | 192.8 | 1.88 | TAS | m_e                      |
| GOR1 | 116.63 | PP     | 21:53:10.800 |      | 200.2 | 7.39 | TAS | m_e                      |
| GOR1 | 116.63 | SKKSac | 22:10:10.120 |      | 17.0  | 5.21 | TAS | m_e                      |
| GRA1 | 113.49 | Pdiff  | 21:48:07.396 | 0.2  | 197.1 | 4.57 | TAS | m_e                      |
| GRA1 | 113.49 | PKiKP  | 21:51:58.624 | 0.1  | 192.8 | 1.88 | TAS | m_e                      |
| GRA1 | 113.49 | PKKPbc | 22:02:45.047 | -0.2 | 19.8  | 3.37 | TAS | m_e                      |
| GRA1 | 113.49 | PKKPab | 22:02:52.179 | -0.2 | 17.7  | 4.48 | TAS | m_e                      |
| GRA1 | 113.49 | SKKSac | 22:10:27.231 | 0.3  | 17.0  | 5.21 | TAS | m_e                      |
| GRA1 | 113.49 | L      | 22:34:35.845 |      |       |      | T_  | 13070.7 21.10 a_e Ms 6.5 |
| GTTG | 115.00 | Pdiff  | 21:48:14.583 | 0.0  | 197.1 | 4.57 | TAS | m_e                      |
| GTTG | 115.00 | PKiKP  | 21:52:01.786 | 0.0  | 192.8 | 1.88 | TAS | m_e                      |





|     |        |        |              |      |       |      |     |     |
|-----|--------|--------|--------------|------|-------|------|-----|-----|
| WET | 113.33 | Pdiff  | 21:48:06.169 | -0.1 | 197.1 | 4.57 | TAS | m_e |
| WET | 113.33 | PKiKP  | 21:51:57.616 | 0.4  | 192.8 | 1.88 | TAS | m_e |
| WET | 113.33 | PP     | 21:52:47.856 | -0.1 | 200.2 | 7.39 | TAS | m_e |
| WET | 113.33 | PKKPab | 22:02:52.623 | -0.2 | 17.7  | 4.48 | TAS | m_e |
| WLF | 112.48 | Pdiff  | 21:48:02.751 | -0.3 | 197.1 | 4.57 | TAS | m_e |
| WLF | 112.48 | PKiKP  | 21:51:57.194 | -0.2 | 192.8 | 1.88 | TAS | m_e |
| WLF | 112.48 | PKKPbc | 22:02:48.677 | 0.4  | 19.8  | 3.37 | TAS | m_e |
| WLF | 112.48 | SKKSac | 22:10:31.180 | 0.7  | 17.0  | 5.21 | TAS | m_e |

Event 10823003 Kermadec Islands, New Zealand

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/23      | 19:43:30.70 |     |     | -29.5900 | -178.2100 |      |      |    | 10.0  |     |      | 17   |     | 154.82 | 160.54 | m i ke | EMSC   |
| OrigID 10823035 |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| BFO  | 160.54 |      | PKPab | 20:04:12.580 |      | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| BRG  | 156.80 |      | PKPab | 20:03:56.362 | 0.0  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| BSEG | 154.82 |      | PKPab | 20:03:47.952 | -0.3 | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| CLL  | 156.68 |      | PKPab | 20:03:55.527 | 0.2  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| CLZ  | 156.80 |      | PKPab | 20:03:56.558 | 0.1  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| FLT1 | 156.16 |      | PKPab | 20:03:53.125 | 0.0  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| FUR  | 160.00 |      | PKPab | 20:04:10.748 |      | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| GEC2 | 158.66 |      | PKPab | 20:04:04.388 |      | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| GTTG | 157.16 |      | PKPab | 20:03:58.008 | -0.1 | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| IBBN | 156.80 |      | PKPab | 20:03:56.565 | 0.3  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| MOX  | 157.64 |      | PKPab | 20:03:59.914 | 0.4  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| NEUB | 157.09 |      | PKPab | 20:03:57.532 | -0.5 | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| PLN  | 157.65 |      | PKPab | 20:04:00.104 | -0.2 | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| STU  | 159.95 |      | PKPab | 20:04:10.085 |      | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| TANN | 157.63 |      | PKPab | 20:04:00.117 | 0.0  | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| TNS  | 158.71 |      | PKPab | 20:04:04.677 |      | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |
| WET  | 158.65 |      | PKPab | 20:04:04.896 |      | 21.8 |       | 4.39 |      | TAS |     |     |     |      | m_e       |

Event 10824002 Hokkaido, Japan, region

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/24      | 03:50:42.88 |     |     | 45.8100  | 145.2100  |      |      |    | 33.0  |     |      | 17   |     | 73.36 | 76.71 | m i ke | BGR    |
| OrigID 10824008 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID

mb 5.0 BGR 10824008

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|------|------|-----------|
| ASSE | 74.80 |      | P     | 04:02:20.897 | 0.0  | 31.3 |       | 5.73 |      | TAS |     | 8.6   | 0.68 | m_e  | mb 4.9    |
| BRG  | 74.79 |      | P     | 04:02:20.804 | 0.4  | 31.3 |       | 5.73 |      | TAS |     | 4.9   | 0.84 | m_e  | mb 4.6    |
| BSEG | 73.36 |      | P     | 04:02:12.674 | 0.1  | 31.3 |       | 5.73 |      | TAS |     | 14.3  | 1.09 | m_e  | mb 5.0    |
| CLL  | 74.74 |      | P     | 04:02:20.387 | 0.0  | 31.3 |       | 5.73 |      | TAS |     | 19.5  | 0.76 | m_e  | mb 5.2    |
| CLZ  | 75.14 |      | P     | 04:02:23.216 | -0.2 | 31.3 |       | 5.73 |      | TAS |     | 14.8  | 0.83 | m_e  | mb 5.0    |
| FLT1 | 74.45 |      | P     | 04:02:18.481 | 0.3  | 31.3 |       | 5.73 |      | TAS |     | 16.9  | 0.81 | m_e  | mb 5.1    |
| GEC2 | 76.58 |      | P     | 04:02:31.057 |      | 31.3 |       | 5.73 |      | TAS |     | 3.5   | 0.49 | m_e  | mb 4.8    |
| GOR1 | 73.86 |      | P     | 04:02:15.615 | -0.1 | 31.3 |       | 5.73 |      | TAS |     | 23.5  | 1.25 | m_e  | mb 5.1    |
| GRA1 | 76.71 |      | P     | 04:02:32.070 |      | 31.3 |       | 5.73 |      | TAS |     | 15.1  | 0.75 | m_e  | mb 5.2    |
| GTTG | 75.53 |      | P     | 04:02:25.125 | -0.3 | 31.3 |       | 5.73 |      | TAS |     | 16.9  | 0.96 | m_e  | mb 5.1    |
| HLG  | 73.87 |      | P     | 04:02:16.048 | 0.0  | 31.3 |       | 5.73 |      | TAS |     | 250.5 | 1.13 | m_e  | mb 6.2    |
| IBBN | 75.55 |      | P     | 04:02:24.868 | -0.0 | 31.3 |       | 5.73 |      | TAS |     | 10.5  | 0.82 | m_e  | mb 5.0    |
| KAST | 76.31 |      | P     | 04:02:29.307 | -0.1 | 31.3 |       | 5.73 |      | TAS |     | 7.9   | 0.98 | m_e  | mb 4.8    |
| MOX  | 75.77 |      | P     | 04:02:26.392 | 0.0  | 31.3 |       | 5.73 |      | TAS |     | 9.2   | 1.16 | m_e  | mb 4.8    |
| NEUB | 75.25 |      | P     | 04:02:23.265 | 0.2  | 31.3 |       | 5.73 |      | TAS |     | 12.9  | 0.75 | m_e  | mb 5.0    |
| RETH | 74.69 |      | P     | 04:02:20.159 | -0.3 | 31.3 |       | 5.73 |      | TAS |     | 14.8  | 1.06 | m_e  | mb 4.9    |
| WET  | 76.61 |      | P     | 04:02:31.623 |      | 31.3 |       | 5.73 |      | TAS |     | 5.2   | 0.67 | m_e  | mb 4.8    |

Event 10824003 Kuril Islands, Russia

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az   | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|------|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/24      | 05:38:04.79 |     |     | 49.9770  | 153.8460  |      |      | 57.3 |       | 0.7 |      | 24   |     | 71.89 | 77.55 | m i ke | BGR    |
| OrigID 10824009 |             |     |     |          |           |      |      |      |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb 5.9    |     |      | BGR    | 10824009 |
| MBB 6.3   |     |      | BGR    | 10824009 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|------|------|-----------|
| ASSE | 73.46 |      | P     | 05:49:29.283 | -0.2 | 23.8 |       | 5.74 |      | TAS |     | 156.7 | 1.60 | m_e  | MBB 6.3   |
| BFO  | 77.55 |      | P     | 05:49:52.474 |      | 23.8 |       | 5.74 |      | TAS |     | 172.4 | 1.36 | m_e  | MBB 6.4   |
| BRG  | 73.75 |      | P     | 05:49:30.896 | 0.1  | 23.8 |       | 5.74 |      | TAS |     | 71.5  | 1.39 | m_e  | MBB 6.1   |
| BSEG | 71.89 |      | P     | 05:49:20.559 | -0.2 | 23.8 |       | 5.74 |      | TAS |     | 87.9  | 1.48 | m_e  | MBB 6.3   |
| CLL  | 73.61 |      | P     | 05:49:29.854 | 0.3  | 23.8 |       | 5.74 |      | TAS |     | 116.9 | 1.26 | m_e  | MBB 6.1   |
| CLZ  | 73.80 |      | P     | 05:49:31.741 | -0.2 | 23.8 |       | 5.74 |      | TAS |     | 175.7 | 1.38 | m_e  | MBB 6.3   |
| FLT1 | 73.14 |      | P     | 05:49:27.180 | -0.2 | 23.8 |       | 5.74 |      | TAS |     | 112.2 | 1.45 | m_e  | MBB 6.3   |
| FUR  | 76.94 |      | P     | 05:49:49.471 |      | 23.8 |       | 5.74 |      | TAS |     | 346.4 | 1.53 | m_e  | MBB 6.5   |
| GEC2 | 75.65 |      | P     | 05:49:42.139 | -0.3 | 23.8 |       | 5.74 |      | TAS |     | 203.6 | 1.87 | m_e  | MBB 6.2   |
| GEC2 | 75.65 |      | pP    | 05:49:58.155 |      |      |       |      |      | T__ |     |       |      | m_e  |           |
| GOR1 | 72.52 |      | P     | 05:49:24.222 | 0.0  | 23.8 |       | 5.74 |      | TAS |     | 174.3 | 1.42 | m_e  | MBB 6.5   |
| GRA1 | 75.55 |      | P     | 05:49:41.931 | 0.1  | 23.8 |       | 5.74 |      | TAS |     | 311.4 | 1.51 | m_e  | mb 6.2    |
| GRA1 | 75.55 |      | pP    | 05:49:58.038 |      |      |       |      |      | T__ |     |       |      | m_e  |           |
| GTTG | 74.17 |      | P     | 05:49:33.686 | -0.0 | 23.8 |       | 5.74 |      | TAS |     | 148.6 | 1.52 | m_e  | MBB 6.2   |

|      |       |    |              |      |      |      |     |       |      |     |     |     |
|------|-------|----|--------------|------|------|------|-----|-------|------|-----|-----|-----|
| IBBN | 73.99 | P  | 05:49:32.498 | 0.1  | 23.8 | 5.74 | TAS | 99.8  | 1.30 | m_e | MBB | 6.3 |
| KAST | 74.86 | P  | 05:49:37.648 | 0.5  | 23.8 | 5.74 | TAS | 111.8 | 1.26 | m_e | MBB | 6.2 |
| MOX  | 74.58 | P  | 05:49:35.878 | 0.2  | 23.8 | 5.74 | TAS | 113.4 | 1.46 | m_e | MBB | 6.2 |
| NEUB | 74.04 | P  | 05:49:32.578 | 0.1  | 23.8 | 5.74 | TAS | 96.2  | 1.24 | m_e | MBB | 6.2 |
| PLN  | 74.58 | P  | 05:49:36.032 | 0.4  | 23.8 | 5.74 | TAS | 62.2  | 1.66 | m_e | MBB | 5.8 |
| RETH | 73.22 | P  | 05:49:28.059 | -0.5 | 23.8 | 5.74 | TAS | 129.2 | 1.47 | m_e | MBB | 6.3 |
| RUE  | 72.35 | P  | 05:49:22.881 | -0.4 | 23.8 | 5.74 | TAS | 161.1 | 1.29 | m_e | MBB | 6.5 |
| STU  | 76.92 | P  | 05:49:49.092 |      | 23.8 | 5.74 | TAS | 626.3 | 1.72 | m_e | MBB | 6.7 |
| TANN | 74.57 | P  | 05:49:35.932 | 0.1  | 23.8 | 5.74 | TAS | 201.0 | 1.92 | m_e | MBB | 6.2 |
| TNS  | 75.76 | P  | 05:49:42.758 | 0.0  | 23.8 | 5.74 | TAS | 224.0 | 1.67 | m_e | MBB | 6.3 |
| WET  | 75.61 | P  | 05:49:42.332 | -0.1 | 23.8 | 5.74 | TAS | 218.0 | 1.52 | m_e | MBB | 6.4 |
| WET  | 75.61 | pP | 05:49:58.155 |      |      |      | T__ |       |      | m_e |     |     |
| WLF  | 76.82 | P  | 05:49:48.625 | -0.5 | 23.8 | 5.74 | TAS | 148.1 | 1.47 | m_e | MBB | 6.4 |

Event 10824004 Fiji Islands region

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/24 | 14:10:06.98 |     |     | -18.4500 | -178.0100 |      |      |    | 600.0 |     |      | 24   |     | 143.92 | 149.66 | m i ke | BGR    |
| 10824010   |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 145.62 |      | PKPbc | 14:28:38.775 | 0.3  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| BFO  | 149.66 |      | PKPbc | 14:28:49.591 |      | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| BRG  | 146.20 |      | PKPbc | 14:28:40.726 | 0.2  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| BSEG | 143.92 |      | PKPbc | 14:28:33.359 | 0.1  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| BUG  | 146.73 |      | PKPbc | 14:28:41.856 | 0.1  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| CLL  | 145.99 |      | PKPbc | 14:28:39.922 | 0.2  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| CLZ  | 145.94 |      | PKPbc | 14:28:40.087 | -0.1 | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| FUR  | 149.33 |      | PKPbc | 14:28:48.802 |      | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| GEC2 | 148.15 |      | PKPbc | 14:28:45.928 | -0.5 | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| GOR1 | 144.69 |      | PKPbc | 14:28:36.226 | 0.1  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| GRA1 | 147.88 |      | PKPbc | 14:28:45.434 | -0.2 | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| GTTG | 146.29 |      | PKPbc | 14:28:40.985 | 0.0  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| HLG  | 143.96 |      | PKPbc | 14:28:33.805 | -0.6 | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| IBBN | 145.82 |      | PKPbc | 14:28:39.482 | 0.0  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| KAST | 146.84 |      | PKPbc | 14:28:42.372 | 0.1  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| MOX  | 146.89 |      | PKPbc | 14:28:42.479 | 0.3  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| NEUB | 146.33 |      | PKPbc | 14:28:41.017 | 0.1  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| PLN  | 146.94 |      | PKPbc | 14:28:42.726 | 0.2  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| RETH | 145.21 |      | PKPbc | 14:28:37.679 | -0.3 | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| RUE  | 144.73 |      | PKPbc | 14:28:35.995 | 0.1  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| STU  | 149.11 |      | PKPbc | 14:28:48.426 |      | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| TANN | 146.95 |      | PKPbc | 14:28:42.849 | 0.4  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |
| TNS  | 147.79 |      | PKPbc | 14:28:45.076 | 0.3  | 14.9 |       | 2.82 |      | TAS |     |     |     |      | m_e       |

WLF 148.59 PKPbc 14:28:47.677 -0.3 14.9 2.82 TAS m\_e

Event 10824005 Near coast of Guatemala

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/24      | 16:16:53.15 |     |     | 13.7680  | -91.8940  |      |      |    | 69.0  | 5.1 |      | 15   |     | 84.95 | 89.69 | m i ke | BGR    |
| OrigID 10824011 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID  
mb 5.2 BGR 10824011

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|-------|------|--------|-----------|
| ASSE | 86.77 |      | P     | 16:29:29.006 | -0.2 | 288.8 |       | 4.76 |      | TAS |     | 113.3 | 2.26 | m_e mb | 5.6       |
| ASSE | 86.77 |      | pP    | 16:29:48.173 | -0.6 | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| BRG  | 89.12 |      | P     | 16:29:39.931 |      | 288.8 |       | 4.76 |      | TAS |     | 26.9  | 1.90 | m_e mb | 5.2       |
| BSEG | 86.00 |      | P     | 16:29:25.423 | -0.2 | 288.8 |       | 4.76 |      | TAS |     | 20.4  | 1.06 | m_e mb | 5.2       |
| BUG  | 84.95 |      | pP    | 16:29:38.971 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| CLL  | 88.41 |      | P     | 16:29:36.476 | 0.3  | 288.8 |       | 4.76 |      | TAS |     | 28.5  | 1.70 | m_e mb | 5.3       |
| CLZ  | 86.68 |      | P     | 16:29:28.749 | 0.0  | 288.8 |       | 4.76 |      | TAS |     | 12.5  | 0.91 | m_e mb | 5.0       |
| CLZ  | 86.68 |      | pP    | 16:29:47.885 | 0.4  | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| FLT1 | 87.03 |      | P     | 16:29:29.932 | -0.5 | 288.8 |       | 4.76 |      | TAS |     | 22.5  | 1.37 | m_e mb | 5.1       |
| GEC2 | 89.69 |      | P     | 16:29:42.673 |      | 288.8 |       | 4.76 |      | TAS |     | 12.7  | 1.39 | m_e mb | 5.0       |
| GEC2 | 89.69 |      | pP    | 16:30:01.907 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| GRA1 | 87.88 |      | P     | 16:29:34.491 |      | 288.8 |       | 4.76 |      | TAS |     | 81.0  | 1.85 | m_e mb | 5.7       |
| GRA1 | 87.88 |      | pP    | 16:29:52.398 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| GTTG | 86.53 |      | P     | 16:29:27.813 | 0.1  | 288.8 |       | 4.76 |      | TAS |     | 15.9  | 0.88 | m_e mb | 5.2       |
| IBBN | 85.01 |      | pP    | 16:29:39.722 | -0.1 | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| KAST | 85.71 |      | P     | 16:29:23.379 | 0.2  | 288.8 |       | 4.76 |      | TAS |     | 33.6  | 1.80 | m_e mb | 5.2       |
| KAST | 85.71 |      | pP    | 16:29:42.787 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| MOX  | 87.81 |      | P     | 16:29:33.869 |      | 288.8 |       | 4.76 |      | TAS |     | 8.8   | 1.11 | m_e mb | 5.0       |
| MOX  | 87.81 |      | pP    | 16:29:52.993 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| PLN  | 88.18 |      | P     | 16:29:35.760 |      | 288.8 |       | 4.76 |      | TAS |     | 7.1   | 1.31 | m_e mb | 4.8       |
| RETH | 85.82 |      | P     | 16:29:24.564 | 0.2  | 288.8 |       | 4.76 |      | TAS |     | 111.1 | 2.03 | m_e mb | 5.6       |
| RETH | 85.82 |      | pP    | 16:29:43.861 | 0.0  | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| TANN | 88.39 |      | P     | 16:29:36.764 |      | 288.8 |       | 4.76 |      | TAS |     | 22.6  | 1.47 | m_e mb | 5.3       |
| TANN | 88.39 |      | pP    | 16:29:56.119 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |
| WET  | 89.08 |      | P     | 16:29:40.123 |      | 288.8 |       | 4.76 |      | TAS |     | 28.5  | 1.46 | m_e mb | 5.3       |
| WET  | 89.08 |      | pP    | 16:29:59.310 |      | 284.3 |       | 4.95 |      | TAS |     |       |      | m_e    |           |

Event 10824006 Ryukyu Islands, Japan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/24 | 19:38:03.50 |     |     | 27.3800  | 129.4300  |      |      |    | 10.0  |     |      | 19   |     | 83.43 | 88.17 | m i ke | EMSC   |
| OrigID     |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

10824038

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.2 |      | BGR    | 10824012 |
| Ms        | 5.0 |      | BGR    | 10824012 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|-----|
| BRG  | 83.53 |      | P     | 19:50:32.820 | -0.5 | 51.9 |       | 5.42 |      | TAS |     | 6.5   | 0.81  | m_e  | mb        | 4.9 |
| BSEG | 83.43 |      | P     | 19:50:32.469 | -0.1 | 51.9 |       | 5.42 |      | TAS |     | 21.7  | 0.73  | m_e  | mb        | 5.5 |
| BUG  | 86.45 |      | P     | 19:50:48.652 |      | 51.9 |       | 5.42 |      | TAS |     | 4.7   | 0.79  | m_e  | mb        | 4.7 |
| CLL  | 83.75 |      | P     | 19:50:33.915 | -0.3 | 51.9 |       | 5.42 |      | TAS |     | 10.9  | 0.72  | m_e  | mb        | 5.2 |
| CLZ  | 84.71 |      | P     | 19:50:39.457 | 0.9  | 51.9 |       | 5.42 |      | TAS |     | 51.9  | 0.90  | m_e  | mb        | 5.8 |
| FLT1 | 83.99 |      | P     | 19:50:34.951 | -0.4 | 51.9 |       | 5.42 |      | TAS |     | 13.0  | 0.88  | m_e  | mb        | 5.2 |
| GEC2 | 84.86 |      | P     | 19:50:39.630 | 0.3  | 51.9 |       | 5.42 |      | TAS |     | 15.7  | 1.25  | m_e  | mb        | 5.1 |
| GRA1 | 85.64 |      | P     | 19:50:45.180 | -0.8 | 51.9 |       | 5.42 |      | TAS |     | 24.5  | 0.83  | m_e  | mb        | 5.4 |
| GRA1 | 85.64 |      | L     | 20:33:16.745 |      |      |       |      |      | T__ |     | 664.7 | 18.50 | a_e  | Ms        | 5.1 |
| GTTG | 85.10 |      | P     | 19:50:42.511 | -0.1 | 51.9 |       | 5.42 |      | TAS |     | 40.8  | 0.92  | m_e  | mb        | 5.7 |
| IBBN | 85.66 |      | P     | 19:50:44.836 |      | 51.9 |       | 5.42 |      | TAS |     | 54.7  | 0.64  | m_e  | mb        | 5.8 |
| KAST | 86.06 |      | P     | 19:50:47.001 |      | 51.9 |       | 5.42 |      | TAS |     | 16.0  | 0.80  | m_e  | mb        | 5.2 |
| MOX  | 84.85 |      | P     | 19:50:39.598 | 0.4  | 51.9 |       | 5.42 |      | TAS |     | 9.7   | 0.80  | m_e  | mb        | 5.1 |
| MOX  | 84.85 |      | L     | 20:32:51.844 |      |      |       |      |      | T__ |     | 554.3 | 18.60 | a_e  | Ms        | 5.0 |
| NEUB | 84.43 |      | P     | 19:50:37.612 | -0.4 | 51.9 |       | 5.42 |      | TAS |     | 26.9  | 0.76  | m_e  | mb        | 5.5 |
| PLN  | 84.67 |      | P     | 19:50:38.644 | 0.7  | 51.9 |       | 5.42 |      | TAS |     | 3.8   | 0.97  | m_e  | mb        | 4.6 |
| RETH | 84.63 |      | P     | 19:50:38.435 | 1.1  | 51.9 |       | 5.42 |      | TAS |     | 23.5  | 1.00  | m_e  | mb        | 5.4 |
| TANN | 84.56 |      | P     | 19:50:38.122 | -0.4 | 51.9 |       | 5.42 |      | TAS |     | 6.4   | 0.93  | m_e  | mb        | 4.8 |
| TNS  | 86.68 |      | P     | 19:50:49.980 |      | 51.9 |       | 5.42 |      | TAS |     | 6.0   | 1.01  | m_e  | mb        | 4.7 |
| WET  | 85.12 |      | P     | 19:50:42.152 | -0.0 | 51.9 |       | 5.42 |      | TAS |     | 6.7   | 1.09  | m_e  | mb        | 4.8 |
| WLF  | 88.17 |      | P     | 19:50:57.296 |      | 51.9 |       | 5.42 |      | TAS |     | 11.9  | 0.72  | m_e  | mb        | 5.3 |

Event 10825001 Alaska Peninsula, United States

| Date       | Time        | Err | RMS     | Latitude  | Longitude | Smaj | Smin | Az   | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|---------|-----------|-----------|------|------|------|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/25 | 01:31:26.96 |     | 55.4800 | -159.8600 |           |      |      | 45.3 |       | 0.6 |      | 23   |     | 70.52 | 76.33 | m i ke | BGR    |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.8 |      | BGR    | 10825007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|------|-----------|-----|
| ASSE | 72.34 |      | P     | 01:42:48.651 | -0.0 | 354.8 |       | 5.87 |      | TAS |     | 7.6  | 0.97 | m_e  | mb        | 4.8 |
| BFO  | 75.96 |      | P     | 01:43:09.666 |      | 354.8 |       | 5.87 |      | TAS |     | 4.4  | 0.74 | m_e  | mb        | 4.7 |
| BFO  | 75.96 |      | pP    | 01:43:22.614 |      | 354.8 |       | 5.92 |      | TAS |     |      |      | m_e  |           |     |
| BRG  | 73.76 |      | P     | 01:42:57.190 | 0.1  | 354.8 |       | 5.87 |      | TAS |     | 6.2  | 0.92 | m_e  | mb        | 4.6 |
| BRG  | 73.76 |      | pP    | 01:43:10.064 |      | 354.8 |       | 5.92 |      | TAS |     |      |      | m_e  |           |     |
| BSEG | 70.52 |      | P     | 01:42:38.119 | 0.1  | 354.8 |       | 5.87 |      | TAS |     | 11.6 | 1.06 | m_e  | mb        | 4.9 |
| BUG  | 72.78 |      | P     | 01:42:51.206 | 0.0  | 354.8 |       | 5.87 |      | TAS |     | 5.5  | 0.70 | m_e  | mb        | 4.8 |



|      |        |       |              |      |      |      |     |       |       |            |
|------|--------|-------|--------------|------|------|------|-----|-------|-------|------------|
| BRG  | 156.41 | PKPbc | 06:18:07.096 |      | 20.3 | 2.03 | TAS |       | m_e   |            |
| BRG  | 156.41 | PKPab | 06:18:27.083 | 0.1  | 19.0 | 4.35 | TAS |       | m_e   |            |
| BSEG | 154.61 | PKPdf | 06:17:53.573 | -0.1 | 26.7 | 1.27 | TAS |       | m_e   |            |
| BSEG | 154.61 | PKPbc | 06:18:02.799 | -0.1 | 20.3 | 2.03 | TAS |       | m_e   |            |
| BSEG | 154.61 | PKPab | 06:18:18.240 | 0.0  | 19.0 | 4.35 | TAS |       | m_e   |            |
| BUG  | 157.57 | PKPab | 06:18:30.345 | -0.2 | 19.0 | 4.35 | TAS |       | m_e   |            |
| CLL  | 156.33 | PKPdf | 06:17:55.514 | -0.1 | 26.7 | 1.27 | TAS |       | m_e   |            |
| CLL  | 156.33 | PKPbc | 06:18:06.656 | 0.1  | 20.3 | 2.03 | TAS |       | m_e   |            |
| CLL  | 156.33 | PKPab | 06:18:26.206 | -0.2 | 19.0 | 4.35 | TAS |       | m_e   |            |
| CLZ  | 156.55 | PKPdf | 06:17:55.930 | 0.2  | 26.7 | 1.27 | TAS |       | m_e   |            |
| CLZ  | 156.55 | PKPbc | 06:18:07.164 | 0.1  | 20.3 | 2.03 | TAS |       | m_e   |            |
| CLZ  | 156.55 | PKPab | 06:18:26.963 | -0.3 | 19.0 | 4.35 | TAS |       | m_e   |            |
| FLT1 | 155.89 | PKPdf | 06:17:54.736 | 0.0  | 26.7 | 1.27 | TAS |       | m_e   |            |
| FLT1 | 155.89 | PKPbc | 06:18:05.355 | -0.1 | 20.3 | 2.03 | TAS |       | m_e   |            |
| FLT1 | 155.89 | PKPab | 06:18:23.480 | 0.2  | 19.0 | 4.35 | TAS |       | m_e   |            |
| FUR  | 159.63 | PKPab | 06:18:41.340 |      | 19.0 | 4.35 | TAS |       | m_e   |            |
| GEC2 | 158.22 | PKPdf | 06:17:57.773 |      | 26.7 | 1.27 | TAS |       | m_e   |            |
| GEC2 | 158.22 | PKPbc | 06:18:10.797 |      | 20.3 | 2.03 | TAS |       | m_e   |            |
| GEC2 | 158.22 | PKPab | 06:18:35.315 |      | 19.0 | 4.35 | TAS |       | m_e   |            |
| GOR1 | 155.27 | PKPdf | 06:17:54.489 | -0.2 | 26.7 | 1.27 | TAS |       | m_e   |            |
| GOR1 | 155.27 | PKPbc | 06:18:04.554 | -0.1 | 20.3 | 2.03 | TAS |       | m_e   |            |
| GOR1 | 155.27 | PKPab | 06:18:21.376 | -0.0 | 19.0 | 4.35 | TAS |       | m_e   |            |
| GRA1 | 158.29 | PKPab | 06:18:35.286 | -0.1 | 19.0 | 4.35 | TAS |       | m_e   |            |
| GRA1 | 158.29 | L     | 07:34:04.225 |      |      |      | T__ | 210.2 | 21.60 | a_e Ms 4.9 |
| GTTG | 156.92 | PKPab | 06:18:28.368 | -0.2 | 19.0 | 4.35 | TAS |       | m_e   |            |
| IBBN | 156.65 | PKPdf | 06:17:56.014 | 0.1  | 26.7 | 1.27 | TAS |       | m_e   |            |
| IBBN | 156.65 | PKPbc | 06:18:06.930 | 0.3  | 20.3 | 2.03 | TAS |       | m_e   |            |
| IBBN | 156.65 | PKPab | 06:18:26.755 | 0.3  | 19.0 | 4.35 | TAS |       | m_e   |            |
| KAST | 157.58 | PKPdf | 06:17:57.091 | 0.3  | 26.7 | 1.27 | TAS |       | m_e   |            |
| KAST | 157.58 | PKPbc | 06:18:08.927 | 0.0  | 20.3 | 2.03 | TAS |       | m_e   |            |
| KAST | 157.58 | PKPab | 06:18:30.728 | -0.0 | 19.0 | 4.35 | TAS |       | m_e   |            |
| MOX  | 157.32 | PKPbc | 06:18:08.860 |      | 20.3 | 2.03 | TAS |       | m_e   |            |
| MOX  | 157.32 | PKPab | 06:18:30.434 | -0.1 | 19.0 | 4.35 | TAS |       | m_e   |            |
| MOX  | 157.32 | L     | 07:38:07.946 |      |      |      | T__ | 244.1 | 21.70 | a_e Ms 5.0 |
| NEUB | 156.78 | PKPbc | 06:18:07.574 | -0.2 | 20.3 | 2.03 | TAS |       | m_e   |            |
| NEUB | 156.78 | PKPab | 06:18:27.906 | 0.1  | 19.0 | 4.35 | TAS |       | m_e   |            |
| PLN  | 157.31 | PKPdf | 06:17:56.768 |      | 26.7 | 1.27 | TAS |       | m_e   |            |
| PLN  | 157.31 | PKPbc | 06:18:08.802 |      | 20.3 | 2.03 | TAS |       | m_e   |            |
| PLN  | 157.31 | PKPab | 06:18:30.755 | 0.1  | 19.0 | 4.35 | TAS |       | m_e   |            |
| RETH | 155.94 | PKPdf | 06:17:55.044 | -0.3 | 26.7 | 1.27 | TAS |       | m_e   |            |
| RETH | 155.94 | PKPbc | 06:18:05.453 | -0.2 | 20.3 | 2.03 | TAS |       | m_e   |            |
| RETH | 155.94 | PKPab | 06:18:23.785 | -0.4 | 19.0 | 4.35 | TAS |       | m_e   |            |
| TANN | 157.28 | PKPdf | 06:17:56.712 |      | 26.7 | 1.27 | TAS |       | m_e   |            |
| TANN | 157.28 | PKPbc | 06:18:08.727 |      | 20.3 | 2.03 | TAS |       | m_e   |            |
| TANN | 157.28 | PKPab | 06:18:30.741 | 0.5  | 19.0 | 4.35 | TAS |       | m_e   |            |
| TNS  | 158.50 | PKPdf | 06:17:58.255 |      | 26.7 | 1.27 | TAS |       | m_e   |            |
| TNS  | 158.50 | PKPab | 06:18:34.908 | 0.2  | 19.0 | 4.35 | TAS |       | m_e   |            |
| WET  | 158.25 | PKPdf | 06:17:58.002 |      | 26.7 | 1.27 | TAS |       | m_e   |            |
| WET  | 158.25 | PKPab | 06:18:35.621 | 0.3  | 19.0 | 4.35 | TAS |       | m_e   |            |

|     |        |       |              |           |      |     |     |
|-----|--------|-------|--------------|-----------|------|-----|-----|
| WLF | 159.47 | PKPdf | 06:18:00.076 | 26.7      | 1.27 | TAS | m_e |
| WLF | 159.47 | PKPab | 06:18:39.138 | -0.5 19.0 | 4.35 | TAS | m_e |

Event 10825004 Southeast of Honshu, Japan

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/25 | 10:18:21.43 |     |     | 30.4900  | 141.1400  |      |      |    | 40.8  | 3.5 |      | 23   |     | 85.69 | 90.79 | m i ke | BGR    |
| 10825010   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.3 |      | BGR    | 10825010 |
| Ms        | 4.7 |      | BGR    | 10825010 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|--------|-----------|
| ASSE | 86.92 |      | P     | 10:31:02.502 | 0.0  | 41.5 |       | 4.75 |      | TAS |     | 13.4  | 1.03  | m_e mb | 5.0       |
| ASSE | 86.92 |      | sP    | 10:31:19.031 | 0.0  | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| BFO  | 90.79 |      | P     | 10:31:20.545 |      | 41.5 |       | 4.75 |      | TAS |     | 35.3  | 1.02  | m_e mb | 5.6       |
| BFO  | 90.79 |      | sP    | 10:31:37.211 |      | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| BRG  | 86.48 |      | P     | 10:31:00.325 | 0.0  | 41.5 |       | 4.75 |      | TAS |     | 16.5  | 1.26  | m_e mb | 5.0       |
| BRG  | 86.48 |      | sP    | 10:31:16.980 | 0.1  | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| BSEG | 85.69 |      | P     | 10:30:56.795 | -0.4 | 41.5 |       | 4.75 |      | TAS |     | 45.7  | 1.07  | m_e mb | 5.6       |
| BUG  | 88.79 |      | P     | 10:31:11.045 | 0.2  | 41.5 |       | 4.75 |      | TAS |     | 11.2  | 1.27  | m_e mb | 4.9       |
| BUG  | 88.79 |      | sP    | 10:31:27.844 |      | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| CLL  | 86.56 |      | P     | 10:31:00.454 | 0.3  | 41.5 |       | 4.75 |      | TAS |     | 27.0  | 1.18  | m_e mb | 5.3       |
| CLZ  | 87.25 |      | P     | 10:31:04.392 | 0.2  | 41.5 |       | 4.75 |      | TAS |     | 30.3  | 1.08  | m_e mb | 5.3       |
| CLZ  | 87.25 |      | sP    | 10:31:21.275 | 0.4  | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| FLT1 | 86.54 |      | P     | 10:31:00.206 | -0.1 | 41.5 |       | 4.75 |      | TAS |     | 27.1  | 1.06  | m_e mb | 5.3       |
| FUR  | 89.65 |      | P     | 10:31:15.563 |      | 41.5 |       | 4.75 |      | TAS |     | 53.0  | 1.06  | m_e mb | 5.7       |
| FUR  | 89.65 |      | sP    | 10:31:32.241 |      | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| GEC2 | 88.06 |      | P     | 10:31:07.624 | -0.3 | 41.5 |       | 4.75 |      | TAS |     | 15.8  | 1.04  | m_e mb | 5.3       |
| GEC2 | 88.06 |      | sP    | 10:31:25.248 |      | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| GRA1 | 88.53 |      | P     | 10:31:10.482 | 0.1  | 41.5 |       | 4.75 |      | TAS |     | 32.9  | 1.13  | m_e mb | 5.6       |
| GRA1 | 88.53 |      | pP    | 10:31:21.378 |      | 40.5 |       | 4.69 |      | TAS |     |       |       | m_e    |           |
| GRA1 | 88.53 |      | sP    | 10:31:27.046 |      | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| GRA1 | 88.53 |      | L     | 11:18:09.113 |      |      |       |      |      | T__ |     | 221.2 | 18.20 | a_e Ms | 4.6       |
| GTTG | 87.65 |      | P     | 10:31:06.097 | 0.4  | 41.5 |       | 4.75 |      | TAS |     | 18.3  | 0.86  | m_e mb | 5.2       |
| IBBN | 87.93 |      | P     | 10:31:07.246 | 0.0  | 41.5 |       | 4.75 |      | TAS |     | 82.8  | 1.23  | m_e mb | 5.9       |
| KAST | 88.53 |      | P     | 10:31:10.125 | -0.1 | 41.5 |       | 4.75 |      | TAS |     | 14.5  | 0.95  | m_e mb | 5.3       |
| KAST | 88.53 |      | sP    | 10:31:26.864 |      | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| MOX  | 87.64 |      | P     | 10:31:05.939 | 0.1  | 41.5 |       | 4.75 |      | TAS |     | 20.9  | 1.52  | m_e mb | 5.0       |
| MOX  | 87.64 |      | L     | 11:16:15.867 |      |      |       |      |      | T__ |     | 271.3 | 18.50 | a_e Ms | 4.7       |
| NEUB | 87.17 |      | P     | 10:31:03.557 | 0.1  | 41.5 |       | 4.75 |      | TAS |     | 52.9  | 1.31  | m_e mb | 5.5       |
| PLN  | 87.53 |      | P     | 10:31:05.382 | -0.2 | 41.5 |       | 4.75 |      | TAS |     | 7.8   | 1.62  | m_e mb | 4.6       |
| RETH | 86.97 |      | P     | 10:31:02.722 | 0.0  | 41.5 |       | 4.75 |      | TAS |     | 28.5  | 1.22  | m_e mb | 5.3       |
| RETH | 86.97 |      | sP    | 10:31:19.577 | -0.1 | 40.8 |       | 4.71 |      | TAS |     |       |       | m_e    |           |
| STU  | 90.09 |      | P     | 10:31:17.464 |      | 41.5 |       | 4.75 |      | TAS |     | 90.6  | 1.14  | m_e mb | 5.9       |







|      |       |    |              |      |      |      |     |        |       |     |     |     |
|------|-------|----|--------------|------|------|------|-----|--------|-------|-----|-----|-----|
| FUR  | 59.54 | P  | 23:48:21.782 |      | 66.9 | 6.93 | TAS | 143.1  | 0.93  | m_e | mb  | 6.0 |
| GEC2 | 57.79 | P  | 23:48:09.095 | -0.1 | 66.9 | 6.93 | TAS | 39.3   | 1.05  | m_e | mb  | 5.4 |
| GOR1 | 57.61 | P  | 23:48:07.968 | 0.2  | 66.9 | 6.93 | TAS | 92.6   | 1.03  | m_e | mb  | 5.8 |
| GRA1 | 58.94 | P  | 23:48:17.459 | 0.3  | 66.9 | 6.93 | TAS | 128.7  | 0.93  | m_e | mb  | 5.9 |
| GRA1 | 58.94 | pP | 23:48:21.382 |      |      |      | T__ |        |       |     | m_e |     |
| GRA1 | 58.94 | L  | 00:14:30.586 |      |      |      | T__ | 2038.4 | 19.30 | a_e | Ms  | 5.3 |
| GTTG | 58.93 | P  | 23:48:17.081 | 0.0  | 66.9 | 6.93 | TAS | 132.4  | 0.99  | m_e | mb  | 5.9 |
| IBBN | 59.86 | P  | 23:48:23.204 | -0.8 | 66.9 | 6.93 | TAS | 53.9   | 0.88  | m_e | mb  | 5.6 |
| KAST | 59.95 | P  | 23:48:23.638 | -0.3 | 66.9 | 6.93 | TAS | 22.6   | 0.99  | m_e | mb  | 5.2 |
| MOX  | 58.33 | P  | 23:48:12.645 | -0.1 | 66.9 | 6.93 | TAS | 54.9   | 1.10  | m_e | mb  | 5.5 |
| MOX  | 58.33 | L  | 00:14:09.280 |      |      |      | T__ | 1690.8 | 19.60 | a_e | Ms  | 5.2 |
| NEUB | 58.03 | P  | 23:48:10.319 | -0.3 | 66.9 | 6.93 | TAS | 98.7   | 0.94  | m_e | mb  | 5.8 |
| PLN  | 58.08 | P  | 23:48:10.868 | -0.1 | 66.9 | 6.93 | TAS | 17.9   | 1.01  | m_e | mb  | 5.0 |
| RETH | 58.80 | P  | 23:48:16.103 | -0.7 | 66.9 | 6.93 | TAS | 53.3   | 1.12  | m_e | mb  | 5.5 |
| RGN  | 55.94 | P  | 23:47:56.949 | 1.1  | 66.9 | 6.93 | TAS | 219.7  | 1.09  | m_e | mb  | 6.1 |
| RUE  | 56.40 | P  | 23:47:58.648 | -0.1 | 66.9 | 6.93 | TAS | 95.0   | 0.83  | m_e | mb  | 5.9 |
| STU  | 60.53 | P  | 23:48:27.872 | -0.3 | 66.9 | 6.93 | TAS | 169.8  | 0.99  | m_e | mb  | 5.8 |
| TANN | 57.92 | P  | 23:48:09.823 | -0.0 | 66.9 | 6.93 | TAS | 58.3   | 0.99  | m_e | mb  | 5.6 |
| TNS  | 60.35 | P  | 23:48:26.775 | 0.2  | 66.9 | 6.93 | TAS | 36.9   | 1.05  | m_e | mb  | 5.3 |
| WET  | 58.17 | P  | 23:48:11.816 | 0.3  | 66.9 | 6.93 | TAS | 47.8   | 1.05  | m_e | mb  | 5.5 |
| WLF  | 61.93 | P  | 23:48:37.941 | 0.5  | 66.9 | 6.93 | TAS | 89.7   | 1.02  | m_e | mb  | 5.9 |

Event 10826001 Venezuela

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/26 | 01:40:54.53 |     |     | 9.7200   | -68.6700  |      |      |    | 16.6  | 0.5 |      | 24   |     | 72.84 | 77.87 | m i ke | BGR    |
| 10826007   |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.1 |      | BGR    | 10826007 |
| Ms        | 5.1 |      | BGR    | 10826007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual | Magnitude |     |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|------|-----------|-----|
| ASSE | 75.85 |      | P     | 01:52:40.700 | 0.3  | 268.3 |       | 5.74 |      | TAS |     | 15.0 | 0.90 | m_e  | mb        | 5.1 |
| BFO  | 74.17 |      | P     | 01:52:30.253 | -0.4 | 268.3 |       | 5.74 |      | TAS |     | 11.5 | 1.10 | m_e  | mb        | 4.8 |
| BFO  | 74.17 |      | pP    | 01:52:35.140 | -0.2 | 268.4 |       | 5.75 |      | TAS |     |      |      | m_e  |           |     |
| BRG  | 77.87 |      | P     | 01:52:51.933 |      | 268.3 |       | 5.74 |      | TAS |     | 17.9 | 0.87 | m_e  | mb        | 5.2 |
| BSEG | 75.72 |      | P     | 01:52:39.502 | 0.3  | 268.3 |       | 5.74 |      | TAS |     | 12.4 | 0.79 | m_e  | mb        | 5.1 |
| BUG  | 73.70 |      | P     | 01:52:27.883 | -0.2 | 268.3 |       | 5.74 |      | TAS |     | 7.7  | 0.88 | m_e  | mb        | 4.7 |
| BUG  | 73.70 |      | pP    | 01:52:32.623 | -0.1 | 268.4 |       | 5.75 |      | TAS |     |      |      | m_e  |           |     |
| CLL  | 77.28 |      | P     | 01:52:48.456 | -0.2 | 268.3 |       | 5.74 |      | TAS |     | 15.3 | 0.75 | m_e  | mb        | 5.2 |
| CLL  | 77.28 |      | pP    | 01:52:53.119 |      | 268.4 |       | 5.75 |      | TAS |     |      |      | m_e  |           |     |
| CLZ  | 75.65 |      | P     | 01:52:39.481 | -0.1 | 268.3 |       | 5.74 |      | TAS |     | 18.3 | 0.80 | m_e  | mb        | 5.3 |
| CLZ  | 75.65 |      | pP    | 01:52:44.118 | -0.0 | 268.4 |       | 5.75 |      | TAS |     |      |      | m_e  |           |     |
| FLT1 | 76.20 |      | P     | 01:52:42.092 | -0.1 | 268.3 |       | 5.74 |      | TAS |     | 16.6 | 0.95 | m_e  | mb        | 5.1 |
| FUR  | 76.13 |      | P     | 01:52:42.171 | 0.0  | 268.3 |       | 5.74 |      | TAS |     | 18.3 | 0.89 | m_e  | mb        | 5.2 |



|      |       |    |              |      |      |      |     |       |       |     |    |     |
|------|-------|----|--------------|------|------|------|-----|-------|-------|-----|----|-----|
| BUG  | 83.49 | P  | 21:01:30.789 | -0.3 | 38.0 | 5.16 | TAS | 30.1  | 2.06  | m_e | mb | 5.2 |
| BUG  | 83.49 | pP | 21:01:43.470 | 0.0  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| CLL  | 81.43 | P  | 21:01:20.008 | 0.4  | 38.0 | 5.16 | TAS | 28.4  | 1.33  | m_e | mb | 5.2 |
| CLL  | 81.43 | pP | 21:01:32.694 | 0.1  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| CLZ  | 82.02 | P  | 21:01:23.748 | 0.0  | 38.0 | 5.16 | TAS | 13.4  | 1.19  | m_e | mb | 5.0 |
| CLZ  | 82.02 | pP | 21:01:36.357 | 0.0  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| FLT1 | 81.31 | P  | 21:01:19.266 | -0.0 | 38.0 | 5.16 | TAS | 8.6   | 0.76  | m_e | mb | 4.9 |
| FLT1 | 81.31 | pP | 21:01:31.907 | -0.2 | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| FUR  | 84.58 | P  | 21:01:36.574 |      | 38.0 | 5.16 | TAS | 20.1  | 1.09  | m_e | mb | 5.3 |
| FUR  | 84.58 | pP | 21:01:49.572 |      | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| GEC2 | 83.05 | P  | 21:01:28.536 | -0.2 | 38.0 | 5.16 | TAS | 3.8   | 0.81  | m_e | mb | 4.7 |
| GEC2 | 83.05 | pP | 21:01:41.189 |      | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| GRA1 | 83.40 | P  | 21:01:30.985 | -0.1 | 38.0 | 5.16 | TAS | 35.3  | 1.36  | m_e | mb | 5.4 |
| GRA1 | 83.40 | pP | 21:01:43.783 |      | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| GRA1 | 83.40 | L  | 21:42:12.119 |      |      |      | T__ | 391.4 | 19.00 | a_e | Ms | 4.8 |
| GTTG | 82.41 | P  | 21:01:25.617 | 0.2  | 38.0 | 5.16 | TAS | 18.4  | 1.34  | m_e | mb | 5.1 |
| IBBN | 82.61 | P  | 21:01:26.501 | 0.5  | 38.0 | 5.16 | TAS | 62.6  | 1.71  | m_e | mb | 5.6 |
| IBBN | 82.61 | pP | 21:01:39.137 | 0.1  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| KAST | 83.26 | P  | 21:01:29.829 | -0.0 | 38.0 | 5.16 | TAS | 18.4  | 1.70  | m_e | mb | 5.0 |
| KAST | 83.26 | pP | 21:01:42.604 | 0.6  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| MOX  | 82.49 | P  | 21:01:25.828 | 0.0  | 38.0 | 5.16 | TAS | 21.3  | 1.59  | m_e | mb | 5.1 |
| MOX  | 82.49 | pP | 21:01:38.485 | -0.1 | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| MOX  | 82.49 | L  | 21:41:43.012 |      |      |      | T__ | 236.9 | 20.40 | a_e | Ms | 4.5 |
| NEUB | 82.00 | P  | 21:01:23.150 | 0.2  | 38.0 | 5.16 | TAS | 13.0  | 0.82  | m_e | mb | 5.1 |
| NEUB | 82.00 | pP | 21:01:35.697 | 0.2  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| PLN  | 82.40 | P  | 21:01:25.457 | -0.1 | 38.0 | 5.16 | TAS | 10.4  | 1.96  | m_e | mb | 4.6 |
| PLN  | 82.40 | pP | 21:01:38.054 | -0.3 | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| RETH | 81.68 | P  | 21:01:21.588 | 0.1  | 38.0 | 5.16 | TAS | 51.2  | 1.63  | m_e | mb | 5.4 |
| RUE  | 80.22 | P  | 21:01:13.957 | 0.1  | 38.0 | 5.16 | TAS | 47.8  | 1.57  | m_e | mb | 5.2 |
| RUE  | 80.22 | pP | 21:01:26.631 | -0.2 | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| STU  | 84.93 | P  | 21:01:38.336 |      | 38.0 | 5.16 | TAS | 57.1  | 1.19  | m_e | mb | 5.7 |
| STU  | 84.93 | pP | 21:01:51.100 |      | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| TANN | 82.34 | P  | 21:01:25.045 | 0.1  | 38.0 | 5.16 | TAS | 10.2  | 1.43  | m_e | mb | 4.8 |
| TANN | 82.34 | pP | 21:01:37.676 | 0.1  | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| TNS  | 84.05 | P  | 21:01:33.855 |      | 38.0 | 5.16 | TAS | 21.4  | 1.53  | m_e | mb | 5.2 |
| TNS  | 84.05 | pP | 21:01:46.634 |      | 37.7 | 5.22 | TAS |       |       | m_e |    |     |
| WET  | 83.16 | P  | 21:01:29.438 | 0.0  | 38.0 | 5.16 | TAS | 18.3  | 1.55  | m_e | mb | 5.1 |
| WET  | 83.16 | pP | 21:01:42.142 |      | 37.7 | 5.22 | TAS |       |       | m_e |    |     |

Event 10826005 South of Fiji Islands

| Date       | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/26 | 22:40:52.10 |     |     | -24.0500 | 179.1400  |      |      |    | 562.0 |     |      | 12   |     | 148.92 | 154.62 | m i ke | EMSC   |
|            | 10826037    |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| BFO  | 154.62 |      | PKPab | 23:00:08.084 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| BRG  | 150.81 |      | PKPbc | 22:59:42.208 | -0.1 | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| BRG  | 150.81 |      | PKPab | 22:59:52.124 | 0.2  | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| BSEG | 148.92 |      | PKPbc | 22:59:37.713 | 0.1  | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| CLL  | 150.70 |      | PKPbc | 22:59:41.871 | 0.1  | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| CLL  | 150.70 |      | PKPab | 22:59:51.284 | -0.4 | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| CLZ  | 150.87 |      | PKPbc | 22:59:42.591 | -0.2 | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| FLT1 | 150.22 |      | PKPbc | 22:59:40.500 | 0.3  | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| FLT1 | 150.22 |      | PKPab | 22:59:49.114 | 0.2  | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| FUR  | 154.01 |      | PKPab | 23:00:06.217 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| GEC2 | 152.66 |      | PKPbc | 22:59:46.107 |      | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| GEC2 | 152.66 |      | PKPab | 22:59:59.956 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| GTTG | 151.24 |      | PKPab | 22:59:53.918 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| KAST | 151.88 |      | PKPbc | 22:59:44.560 |      | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| MOX  | 151.67 |      | PKPbc | 22:59:43.932 |      | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| MOX  | 151.67 |      | PKPab | 22:59:55.600 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| NEUB | 151.13 |      | PKPbc | 22:59:42.875 | 0.3  | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| NEUB | 151.13 |      | PKPab | 22:59:53.017 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| PLN  | 151.67 |      | PKPbc | 22:59:44.118 |      | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| PLN  | 151.67 |      | PKPab | 22:59:55.848 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| RUE  | 149.44 |      | PKPbc | 22:59:39.012 | 0.1  | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| TANN | 151.65 |      | PKPbc | 22:59:44.073 |      | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| TANN | 151.65 |      | PKPab | 22:59:55.808 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |
| TNS  | 152.81 |      | PKPbc | 22:59:47.133 |      | 25.0 |       | 2.32 |      | TAS |     |     |     | m_e  |           |
| WET  | 152.66 |      | PKPab | 23:00:00.310 |      | 22.7 |       | 4.33 |      | TAS |     |     |     | m_e  |           |

Event 10828001 Morocco

| Date       | Time        | Err  | RMS  | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|------------|-------------|------|------|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/28 | 11:20:37.05 | 2.49 | 1.06 | 33.8850  | -3.5380   | 60.0 | 57.8 | 12 | 10.0  |     |      | 25   | 344 | 16.94 | 22.35 | m i ke | BGR    |
| 10828007   |             |      |      |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10828007 |
| Ms        | 4.4 |      | BGR    | 10828007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|------|--------|-----------|
| ASSE | 20.91 |      | P     | 11:25:17.762 | -1.3 |      |       |      |      | T__ |     |       |      | m_e    |           |
| BFO  | 16.94 |      | P     | 11:24:33.931 | 1.5  |      |       |      |      | T__ |     |       |      | m_e    |           |
| BRG  | 21.23 |      | P     | 11:25:22.750 | 0.2  |      |       |      |      | T__ |     | 54.9  | 1.40 | m_e mb | 4.7       |
| BSEG | 22.30 |      | P     | 11:25:33.459 | -0.2 |      |       |      |      | T__ |     | 167.6 | 1.09 | m_e mb | 5.4       |
| BUG  | 19.22 |      | P     | 11:25:00.546 | 0.5  |      |       |      |      | T__ |     |       |      | m_e    |           |
| CLL  | 21.15 |      | P     | 11:25:21.802 | 0.1  |      |       |      |      | T__ |     | 56.6  | 1.06 | m_e mb | 4.8       |
| CLZ  | 20.57 |      | P     | 11:25:14.941 | -0.4 |      |       |      |      | T__ |     |       |      | m_e    |           |

|      |       |   |              |      |     |        |       |     |    |     |
|------|-------|---|--------------|------|-----|--------|-------|-----|----|-----|
| FLT1 | 21.28 | P | 11:25:22.916 | -0.1 | T__ | 29.1   | 1.21  | m_e | mb | 4.5 |
| FUR  | 18.07 | P | 11:24:46.025 | -0.4 | T__ |        |       | m_e |    |     |
| GEC2 | 19.69 | P | 11:25:04.560 | -1.0 | T__ |        |       | m_e |    |     |
| GOR1 | 21.84 | P | 11:25:29.415 | 0.5  | T__ | 178.4  | 1.12  | m_e | mb | 5.4 |
| GRA1 | 19.19 | P | 11:25:00.526 | 0.8  | T__ |        |       | m_e |    |     |
| GRA1 | 19.19 | L | 11:32:31.005 |      | T__ | 1878.8 | 19.20 | a_e | Ms | 4.4 |
| GTTG | 20.18 | P | 11:25:11.369 | 0.3  | T__ |        |       | m_e |    |     |
| IBBN | 20.12 | P | 11:25:09.971 | -0.4 | T__ |        |       | m_e |    |     |
| KAST | 19.37 | P | 11:25:03.818 | 2.0  | T__ |        |       | m_e |    |     |
| MOX  | 20.08 | P | 11:25:07.149 | -2.8 | T__ |        |       | m_e |    |     |
| MOX  | 20.08 | L | 11:35:01.979 |      | T__ | 1569.0 | 18.10 | a_e | Ms | 4.4 |
| NEUB | 20.57 | P | 11:25:17.664 | 2.3  | T__ |        |       | m_e |    |     |
| PLN  | 20.18 | P | 11:25:11.024 | -0.0 | T__ |        |       | m_e |    |     |
| RETH | 20.98 | P | 11:25:19.388 | -0.4 | T__ |        |       | m_e |    |     |
| RUE  | 22.35 | P | 11:25:34.940 | 0.8  | T__ | 115.1  | 1.14  | m_e | mb | 5.2 |
| STU  | 17.64 | P | 11:24:41.261 | 0.2  | T__ |        |       | m_e |    |     |
| TANN | 20.26 | P | 11:25:11.582 | -0.3 | T__ |        |       | m_e |    |     |
| TNS  | 18.55 | P | 11:24:51.514 | -0.6 | T__ |        |       | m_e |    |     |
| WET  | 19.51 | P | 11:25:03.487 | 0.0  | T__ |        |       | m_e |    |     |
| WLF  | 17.31 | P | 11:24:35.428 | -1.6 | T__ |        |       | m_e |    |     |

Event 10828003 Northwest of Kuril Islands, Russia

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/28      | 14:28:26.99 |     |     | 51.1190  | 153.2130  |      |      |    | 33.0  |     |      |      |     | 74.35 | 74.35 | m i ke | BGR    |
| OrigID 10828009 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

|           |     |      |        |          |
|-----------|-----|------|--------|----------|
| Magnitude | Err | Nsta | Author | OrigID   |
| mb        | 4.7 |      | BGR    | 10828009 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per  | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|------|------|-----------|
| GRA1 | 74.35 |      | P     | 14:40:00.408 |      | 23.6 |       | 5.00 |      | TAS |     | 6.8 | 0.86 | m_e  | mb 4.7    |

Event 10828004 Pakistan

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/28      | 22:36:16.83 |     |     | 31.8500  | 69.9440   |      |      |    | 33.0  |     |      |      |     | 46.65 | 46.65 | m i ke | BGR    |
| OrigID 10828010 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

|           |     |      |        |          |
|-----------|-----|------|--------|----------|
| Magnitude | Err | Nsta | Author | OrigID   |
| mb        | 4.8 |      | BGR    | 10828010 |

| Sta | Dist | EvAz | Phase | Time | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|-----|------|------|-------|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
|-----|------|------|-------|------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|

GRA1 46.65 P 22:44:41.624 101.1 7.34 TAS 8.5 1.06 m\_e mb 4.8

## Event 10829001 Tonga Islands

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/29      | 08:50:42.70 |     |     | -18.7200 | -173.2100 |      |      |    | 2.0   |     |      |      |     | 148.81 | 148.81 | m i ke | EMSC   |
| OrigID 10829033 |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| GRA1 | 148.81 |      | PKPdf | 09:10:31.302 |      | 8.2  |       | 1.44 |      | TAS |     |     |     |      | m_e       |

## Event 10829002 Tonga Islands

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist  | Mdist  | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|--------|--------|--------|--------|
| 2021/08/29      | 10:05:33.20 |     |     | -21.7400 | -173.6000 |      |      |    | 10.0  |     |      |      |     | 151.76 | 151.76 | m i ke | EMSC   |
| OrigID 10829034 |             |     |     |          |           |      |      |    |       |     |      |      |     |        |        |        |        |

Magnitude Err Nsta Author OrigID

| Sta  | Dist   | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|--------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| GRA1 | 151.76 |      | PKPab | 10:25:38.802 |      | 9.5  |       | 3.74 |      | TAS |     |     |     |      | m_e       |

## Event 10829003 Northern Mid-Atlantic Ridge

| Date            | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|-----------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/29      | 16:55:34.48 |     |     | 30.3140  | -42.5600  |      |      |    | 10.0  |     |      |      |     | 44.45 | 44.45 | m i ke | BGR    |
| OrigID 10829009 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID  
mb 4.6 BGR 10829009

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|--------|-----------|
| GRA1 | 44.45 |      | P     | 17:03:41.986 |      | 262.2 |       | 7.84 |      | TAS |     | 12.7 | 1.07 | m_e mb | 4.6       |

## Event 10829004 Chiapas, Mexico



./bul2108.txt Wed Jan 11 09:16:11 2023 65

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/29         | 19:29:49.72 |     |     | 17.9020  | -94.7490  |      |      |    | 33.0  |     |      |      |     | 86.40 | 86.40 | m i ke | BGR    |
| OrigID<br>10829010 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.8 |      | BGR    | 10829010 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim  | AzRes | Slow | SRes | Def | SNR | Amp  | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|-------|-------|------|------|-----|-----|------|------|--------|-----------|
| GRA1 | 86.40 |      | P     | 19:42:28.506 |      | 286.8 |       | 5.03 |      | TAS |     | 10.3 | 1.30 | m_e mb | 4.8       |

Event 10829005 Kuril Islands, Russia

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/29         | 20:08:17.55 |     |     | 48.2690  | 153.9710  |      |      |    | 33.0  |     |      |      |     | 77.15 | 77.15 | m i ke | BGR    |
| OrigID<br>10829011 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.6 |      | BGR    | 10829011 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|------|--------|-----------|
| GRA1 | 77.15 |      | P     | 20:20:07.033 |      | 25.6 |       | 4.63 |      | TAS |     | 4.9 | 1.01 | m_e mb | 4.6       |

Event 10830001 Hindu Kush, Afghanistan, region

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/30         | 18:23:35.81 |     |     | 36.3320  | 68.6380   |      |      |    | 33.0  |     |      |      |     | 43.01 | 43.01 | m i ke | BGR    |
| OrigID<br>10830007 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 4.2 |      | BGR    | 10830007 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per  | Qual   | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|------|--------|-----------|
| GRA1 | 43.01 |      | P     | 18:31:31.588 |      | 94.3 |       | 7.44 |      | TAS |     | 4.6 | 0.96 | m_e mb | 4.2       |

Event 10831001 Andreanof Islands, Aleutian Islands, United States

| Date               | Time        | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual   | Author |
|--------------------|-------------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|--------|--------|
| 2021/08/31         | 02:17:11.20 |     |     | 52.8000  | -175.5200 |      |      |    | 262.0 |     |      |      |     | 77.59 | 77.59 | m i ke | EMSC   |
| OrigID<br>10831033 |             |     |     |          |           |      |      |    |       |     |      |      |     |       |       |        |        |

Magnitude Err Nsta Author OrigID  
 mb 4.7 BGR 10831007

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 77.59 P 02:28:40.021 4.2 4.63 TAS 4.8 0.79 m\_e mb 4.7

Event 10831002 Lake Victoria region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2021/08/31 02:35:16.50 -3.5500 32.3100 10.0 56.11 56.11 m i ke EMSC  
 10831034

Magnitude Err Nsta Author OrigID  
 mb 4.9 BGR 10831008

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 56.11 P 02:44:54.243 154.4 7.16 TAS 12.9 1.12 m\_e mb 4.9

Event 10831003 Kermadec Islands, New Zealand

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2021/08/31 02:52:49.00 -29.9900 -177.3500 10.0 158.22 159.21 m i ke EMSC  
 10831035

Magnitude Err Nsta Author OrigID  
 Ms 6.6 BGR 10831009

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 159.21 PKPdf 03:12:46.702 61.9 0.56 TAS m\_e  
 GRA1 159.21 PKPab 03:13:24.438 21.4 4.06 TAS m\_e  
 GRA1 159.21 L 04:24:49.785 T\_\_ 9787.7 21.30 a\_e Ms 6.6  
 MOX 158.22 L 04:34:44.707 T\_\_ 9192.3 20.10 a\_e Ms 6.6

Event 10831004 East of Lake Baykal, Russia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2021/08/31 05:24:35.85 55.3090 113.1650 33.0 55.88 56.76 m i ke BGR  
 10831010

| Magnitude | Err | Nsta | Author | OrigID   |
|-----------|-----|------|--------|----------|
| mb        | 5.0 |      | BGR    | 10831010 |
| Ms        | 4.5 |      | BGR    | 10831010 |

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp   | Per   | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-------|-------|------|-----------|
| GRA1 | 56.76 |      | P     | 05:34:15.615 |      | 36.5 |       | 6.10 |      | TAS |     | 13.4  | 0.92  | m_e  | mb 5.0    |
| GRA1 | 56.76 |      | L     | 06:02:41.825 |      |      |       |      |      | T__ |     | 330.3 | 18.90 | a_e  | Ms 4.5    |
| MOX  | 55.88 |      | L     | 06:01:50.277 |      |      |       |      |      | T__ |     | 393.5 | 19.50 | a_e  | Ms 4.5    |

Event 10831013 Turkey

| Date       | Time        | Err  | RMS  | Latitude | Longitude | Smaj  | Smin | Az  | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual  | Author |            |
|------------|-------------|------|------|----------|-----------|-------|------|-----|-------|-----|------|------|-----|-------|-------|-------|--------|------------|
| 2021/08/31 | 11:04:22.93 | 2.00 | 3.33 | 39.8830  | 31.9930   | 112.3 | 89.0 | 133 | 10.0  |     |      |      |     | 21    | 343   | 15.81 | 20.77  | m i ke BGR |

OrigID 10831019

| Magnitude | Err | Nsta | Author | OrigID |
|-----------|-----|------|--------|--------|
|-----------|-----|------|--------|--------|

| Sta  | Dist  | EvAz | Phase | Time         | TRes | Azim | AzRes | Slow | SRes | Def | SNR | Amp | Per | Qual | Magnitude |
|------|-------|------|-------|--------------|------|------|-------|------|------|-----|-----|-----|-----|------|-----------|
| ASSE | 19.12 |      | Pn    | 11:08:46.010 | -2.4 |      |       |      |      | T__ |     |     |     | m_e  |           |
| BFO  | 18.91 |      | Pn    | 11:08:43.715 | -1.9 |      |       |      |      | T__ |     |     |     | m_e  |           |
| BRG  | 16.72 |      | Pn    | 11:08:21.084 | 5.1  |      |       |      |      | T__ |     |     |     | m_e  |           |
| BSEG | 20.29 |      | Pn    | 11:09:01.653 | -2.5 |      |       |      |      | T__ |     |     |     | m_e  |           |
| BUG  | 20.67 |      | Pn    | 11:09:03.948 | -5.4 |      |       |      |      | T__ |     |     |     | m_e  |           |
| CLL  | 17.46 |      | Pn    | 11:08:29.949 | 4.0  |      |       |      |      | T__ |     |     |     | m_e  |           |
| CLZ  | 19.13 |      | Pn    | 11:08:48.304 | -0.3 |      |       |      |      | T__ |     |     |     | m_e  |           |
| FLT1 | 18.93 |      | Pn    | 11:08:46.010 | 0.1  |      |       |      |      | T__ |     |     |     | m_e  |           |
| FUR  | 17.00 |      | Pn    | 11:08:21.919 | 2.2  |      |       |      |      | T__ |     |     |     | m_e  |           |
| GEC2 | 15.81 |      | Pn    | 11:08:07.110 | 3.4  |      |       |      |      | T__ |     |     |     | m_e  |           |
| GOR1 | 19.26 |      | Pn    | 11:08:51.433 | 1.1  |      |       |      |      | T__ |     |     |     | m_e  |           |
| GRA1 | 17.65 |      | Pn    | 11:08:30.366 | 1.9  |      |       |      |      | T__ |     |     |     | m_e  |           |
| IBBN | 20.77 |      | Pn    | 11:09:06.138 | -4.6 |      |       |      |      | T__ |     |     |     | m_e  |           |
| KAST | 19.91 |      | Pn    | 11:08:55.917 | -3.2 |      |       |      |      | T__ |     |     |     | m_e  |           |
| MOX  | 17.86 |      | Pn    | 11:08:32.244 | 0.8  |      |       |      |      | T__ |     |     |     | m_e  |           |
| PLN  | 17.48 |      | Pn    | 11:08:29.741 | 3.5  |      |       |      |      | T__ |     |     |     | m_e  |           |
| RETH | 20.12 |      | Pn    | 11:08:57.065 | -4.9 |      |       |      |      | T__ |     |     |     | m_e  |           |
| STU  | 18.51 |      | Pn    | 11:08:38.814 | -1.4 |      |       |      |      | T__ |     |     |     | m_e  |           |
| TANN | 17.28 |      | Pn    | 11:08:27.655 | 4.1  |      |       |      |      | T__ |     |     |     | m_e  |           |
| TNS  | 19.49 |      | Pn    | 11:08:49.243 | -4.2 |      |       |      |      | T__ |     |     |     | m_e  |           |
| WET  | 16.43 |      | Pn    | 11:08:16.600 | 4.5  |      |       |      |      | T__ |     |     |     | m_e  |           |

Event 10831008 Nevada, United States

| Date | Time | Err | RMS | Latitude | Longitude | Smaj | Smin | Az | Depth | Err | Ndef | Nsta | Gap | mdist | Mdist | Qual | Author |
|------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|
|------|------|-----|-----|----------|-----------|------|------|----|-------|-----|------|------|-----|-------|-------|------|--------|

OrigID

./bul2108.txt Wed Jan 11 09:16:11 2023 68

2021/08/31 17:21:10.10 40.9600 -114.9300 10.0 77.99 77.99 m i ke EMSC  
10831040

Magnitude Err Nsta Author OrigID  
mb 5.0 BGR 10831014

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
GRA1 77.99 P 17:33:12.923 321.3 5.02 TAS 13.0 1.03 m\_e mb 5.0

Event 10831011 Northern Mid-Atlantic Ridge

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2021/08/31 22:24:29.73 29.6860 -42.1860 10.0 44.62 44.62 m i ke BGR  
10831017

Magnitude Err Nsta Author OrigID  
mb 4.8 BGR 10831017

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
GRA1 44.62 P 22:32:38.673 261.5 7.75 TAS 15.8 1.22 m\_e mb 4.8

Event 10831010 Northern Mid-Atlantic Ridge

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2021/08/31 22:54:56.09 30.2940 -42.6230 10.0 44.50 44.50 m i ke BGR  
10831016

Magnitude Err Nsta Author OrigID  
mb 4.6 BGR 10831016

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
GRA1 44.50 P 23:03:04.034 262.5 8.02 TAS 8.3 1.05 m\_e mb 4.6