

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

November to December

2023

Instituto D. Luiz
University of Lisbon
Faculty of Science
Campo Grande
Edifício C1, Piso 1
1749 016 Lisboa
Portugal

Tel : +351-213921866
E-Mail : sigidl@fc.ul.pt

IDL.UL.PT

STATIONS USED

The stations listed below are those operated by the Instituto D. Luiz, Faculty of Science, University of Lisbon (FCUL).
Former Instituto Geofisico Infante D.Luiz.

Lisboa (IGIDL)
GGNV

| | |
|-----------|----------|
| Latitude | 38.7165N |
| Longitude | 9.1491W |
| Height | 77 m |

Marmelete (Picos)
MORF

| | |
|-----------|----------|
| Latitude | 37.3043N |
| Longitude | 8.6527W |
| Height | 560 m |

Messejana
MESJ

| | |
|-----------|----------|
| Latitude | 37.8395N |
| Longitude | 8.2199W |
| Height | 25 0m |

Grandola
GRNL

| | |
|-----------|------------|
| Latitude | 38.108307N |
| Longitude | 8.569027W |
| Height | 172 m |

November 1 2023 Hour: 0:3 31.8 Lat: 36.43N Lon: 8.03W Depth: 22F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 158 | 354 | EP | | 0 3 | 54.78 | 0.03 | | | | | | | 1.0 |
| GRNL | CZ | 193 | 346 | EP | | 0 3 | 59.05 | -0.04 | | | | | | | 1.0 |
| GRNL | CN | 193 | 346 | ES | | 0 4 | 19.00 | 0.00 | | | | | | | 1.0 |
| GRNL | CN | 193 | 346 | IAML | | 0 4 | 19.80 | | | 5 | 0.1 | | | | |

November 1 2023 Hour: 4:48 16.1 Lat: 38.33N Lon: 8.09W Depth: 2F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.2 secs

W VIANA DO ALENTEJO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 49 | 240 | EP | | 448 | 24.32 | 0.290 | | | | | | | 1.0 |
| GRNL | CE | 49 | 240 | ES | | 448 | 29.85 | 0.040 | | | | | | | 1.0 |
| GRNL | CN | 49 | 240 | IAML | | 448 | 30.45 | | | 0.90 | 0.1 | | | | |
| MESJ | HZ | 56 | 192 | EP | | 448 | 25.10 | -0.040 | | | | | | | 1.0 |
| MESJ | HE | 56 | 192 | ES | | 448 | 31.43 | -0.300 | | | | | | | 1.0 |
| MESJ | HE | 56 | 192 | IAML | | 448 | 31.96 | | | 2 | 0.2 | | | | |

November 2 2023 Hour: 17:31 49.4 Lat: 38.75N Lon: 9.20W Depth: 15F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

E AMADORA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 90 | 142 | EP | | 1732 | 3.51 | -0.140 | | | | | | | 1.0 |
| GRNL | CE | 90 | 142 | ES | | 1732 | 14.23 | 0.140 | | | | | | | 1.0 |
| GRNL | CN | 90 | 142 | IAML | | 1732 | 15.19 | | | 2 | 0.1 | | | | |

November 3 2023 Hour: 4:26 49.3 Lat: 37.90N Lon: 8.95W Depth: 0 Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 41 | 55 | EP | | 426 | 55.69 | -0.110 | | | | | | | 1.0 |
| GRNL | CN | 41 | 55 | ES | | 427 | 0.60 | 0.020 | | | | | | | 1.0 |
| GRNL | CE | 41 | 55 | IAML | | 427 | 1.06 | | | 12 | 0.2 | | | | |
| MESJ | HZ | 64 | 96 | EP | | 426 | 59.72 | 0.090 | | | | | | | 1.0 |

November 3 2023 Hour: 5:11 0.0 Lat: 37.32N Lon: 8.57W Depth: 7F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 65 | 28 | EP | | 511 | 10.56 | -0.090 | | | | | | | 1.0 |
| GRNL | CZ | 88 | 360 | EP | | 511 | 14.30 | 0.070 | | | | | | | 1.0 |
| GRNL | CN | 88 | 360 | ES | | 511 | 24.61 | 0.020 | | | | | | | 1.0 |
| GRNL | CN | 88 | 360 | IAML | | 511 | 26.53 | | | 18 | 0.2 | | | | |

November 3 2023 Hour: 6:26 37.7 Lat: 38.72N Lon: 23.55E Depth: 11F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

GREECE Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 2767 | 278 | EP | | 632 | 0.50 | 0.030 | | | | | | | 1.0 |
| MESJ | BZ | 2767 | 278 | IAMB | | 632 | 1.30 | | | 51 | 1.0 | | | | |
| GRNL | BZ | 2791 | 279 | EP | | 632 | 2.39 | -0.030 | | | | | | | 1.0 |
| GRNL | BZ | 2791 | 279 | IAMB | | 632 | 3.52 | | | 114 | 1.5 | | | | |

November 3 2023 Hour: 10:37 22.1 Lat: 39.33N Lon: 8.67W Depth: 14F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

N SANTAREM, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 136 | 176 | EP | | 1037 | 43.15 | 0.180 | | | | | | | 1.0 |
| GRNL | CE | 136 | 176 | ES | | 1037 | 58.12 | -0.100 | | | | | | | 1.0 |
| GRNL | CE | 136 | 176 | IAML | | 1038 | 0.38 | | | 26 | 0.3 | | | | |
| MESJ | HZ | 170 | 166 | EP | | 1037 | 47.13 | -0.090 | | | | | | | 1.0 |

November 3 2023 Hour: 18:25 53.8 Lat: 28.85N Lon: 82.19E Depth: 17F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs

NET: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 8147 | 304 | EP | | 1814 | 24.280 | .060 | | | | | | | 1.0 |
| MESJ | BZ | 8147 | 304 | IAMB | | 1814 | 25.27 | | | 107 | 1.3 | | | | |
| GRNL | BZ | 8164 | 305 | EP | | 1814 | 25.00 | -.060 | | | | | | | 1.0 |
| GRNL | BZ | 8164 | 305 | IAMB | | 1814 | 26.35 | | | 148 | 1.3 | | | | |

November 4 2023 Hour: 2:35 41.1 Lat: 36.55N Lon: 7.89W Depth: 1F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

NET: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 146 | 348 | EP | | 236 | 4.620 | .050 | | | | | | | 1.0 |
| MESJ | HE | 146 | 348 | ES | | 236 | 21.66 | -.050 | | | | | | | 1.0 |
| MESJ | HN | 146 | 348 | IAML | | 236 | 24.27 | | | 3 | 0.1 | | | | |

November 4 2023 Hour: 2:55 57.9 Lat: 36.56N Lon: 7.88W Depth: 15F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NET: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 146 | 348 | EP | | 256 | 20.080 | .120 | | | | | | | 1.0 |
| GRNL | CZ | 183 | 341 | EP | | 256 | 24.45 | -.120 | | | | | | | 1.0 |

November 4 2023 Hour: 6:35 58.4 Lat: 35.76N Lon: 4.86W Depth: 12F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

NET: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 378 | 309 | EP | | 636 | 50.250 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 420 | 309 | EP | | 636 | 55.38 | -.130 | | | | | | | 1.0 |
| GRNL | CE | 420 | 309 | ES | | 637 | 37.290 | .090 | | | | | | | 1.0 |
| GRNL | CE | 420 | 309 | IAML | | 637 | 39.12 | | | 13 | 0.1 | | | | |

November 4 2023 Hour: 14:15 33.6 Lat: 35.83N Lon: 7.47W Depth: 32F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.0 secs

NET: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 271 | 339 | EP | | 1416 | 9.89 | -.060 | | | | | | | 1.0 |
| GRNL | CN | 271 | 339 | ES | | 1416 | 36.550 | .060 | | | | | | | 1.0 |
| GRNL | CN | 271 | 339 | IAML | | 1416 | 37.00 | | | 6 | 0.1 | | | | |

November 5 2023 Hour: 11:43 31.1 Lat: 36.46N Lon: 9.77W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

NET: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 206 | 41 | EP | | 1143 | 58.62 | -.150 | | | | | | | 1.0 |
| MESJ | HN | 206 | 41 | ES | | 1144 | 19.110 | .150 | | | | | | | 1.0 |
| MESJ | HN | 206 | 41 | IAML | | 1144 | 22.45 | | | 6 | 0.4 | | | | |

November 5 2023 Hour: 17:46 8.3 Lat: 36.03N Lon: 5.00W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

NET: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 350 | 306 | EP | | 1746 | 53.930 | .060 | | | | | | | 1.0 |
| GRNL | CZ | 392 | 307 | EP | | 1746 | 58.96 | -.060 | | | | | | | 1.0 |

November 5 2023 Hour: 21:18 45.9 Lat: 37.36N Lon: 8.46W Depth: 7F Agency: IGL Regional
Magnitudes: 3.4ML IGL Rms: 0.1 secs

NET: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 57 | 21 | EP | | 2118 | 55.430 | .200 | | | | | | | 1.0 |
| MESJ | HN | 57 | 21 | ES | | 2119 | 1.95 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 57 | 21 | IAML | | 2119 | 6.12 | | | 808 | 0.1 | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---------|----|-----|------|------|-------|-------|--|--|------|-----|--|--|--|--|--|--|--|--|-----|
| GRNL CZ | 84 | 353 | EP | 2118 | 59.38 | -.080 | | | | | | | | | | | | | 1.0 |
| GRNL CN | 84 | 353 | ES | 2119 | 9.34 | -.030 | | | | | | | | | | | | | 1.0 |
| GRNL CE | 84 | 353 | IAML | 2119 | 12.38 | | | | 2714 | 0.2 | | | | | | | | | |

**November 6 2023 Hour: 0:20 8.2 Lat: 37.32N Lon: 8.57W Depth: 6F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs**

W MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|---------|----|------|------|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL CZ | 88 | 0 | EP | | | 020 | 22.52 | 0.080 | | | | | | | 1.0 |
| GRNL CN | 88 | 0 | ES | | | 020 | 32.73 | -.080 | | | | | | | 1.0 |
| GRNL CN | 88 | 0 | IAML | | | 020 | 33.26 | | 4 | 0.2 | | | | | |

**November 6 2023 Hour: 20:33 50.4 Lat: 38.53N Lon: 8.25W Depth: 9F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs**

SW MONTEMOR-O-NOVO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|---------|----|------|------|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL CZ | 55 | 211 | EP | | | 2033 | 59.51 | 0.120 | | | | | | | 1.0 |
| GRNL CN | 55 | 211 | ES | | | 2034 | 5.79 | -.150 | | | | | | | 1.0 |
| GRNL CN | 55 | 211 | IAML | | | 2034 | 6.63 | | 17 | 0.1 | | | | | |
| MESJ HZ | 77 | 178 | EP | | | 2034 | 2.96 | 0.010 | | | | | | | 1.0 |
| MESJ HN | 77 | 178 | ES | | | 2034 | 12.13 | 0.020 | | | | | | | 1.0 |
| MESJ HN | 77 | 178 | IAML | | | 2034 | 14.15 | | 15 | 0.1 | | | | | |

**November 6 2023 Hour: 22:20 47.5 Lat: 35.95N Lon: 4.60W Depth: 76F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|---------|-----|------|------|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ HZ | 384 | 304 | EP | | | 2221 | 37.45 | -.050 | | | | | | | 1.0 |
| MESJ HN | 384 | 304 | ES | | | 2222 | 13.88 | -.110 | | | | | | | 1.0 |
| MESJ HN | 384 | 304 | IAML | | | 2222 | 16.56 | | 9 | 0.2 | | | | | |
| GRNL CZ | 426 | 305 | EP | | | 2221 | 42.58 | 0.160 | | | | | | | 1.0 |

**November 7 2023 Hour: 17:48 40.5 Lat: 36.52N Lon: 7.74W Depth: 19F Agency: IGL Regional
Rms: 0.0 secs**

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|---------|-----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ HZ | 153 | 344 | EP | | | 1749 | 3.15 | 0.040 | | | | | | | 1.0 |
| GRNL CZ | 191 | 338 | EP | | | 1749 | 7.84 | -.040 | | | | | | | 1.0 |

**November 7 2023 Hour: 18:15 34.4 Lat: 18.78N Lon: 145.30E Depth: 623F Agency: IGL Distant
Rms: 0.1 secs**

PAGAN REGION, NORTHERN MARIANA ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|--------------|-----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL BZ13166 | 337 | EPKP | | | | 1833 | 12.03 | -.070 | | | | | | | 1.0 |
| MESJ BZ13178 | 336 | EPKP | | | | 1833 | 12.38 | 0.070 | | | | | | | 1.0 |

**November 8 2023 Hour: 4:52 52.2 Lat: 6.25S Lon: 129.73E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs**

BANDA SEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|--------------|-----|--------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ BZ14535 | 316 | EPKPdf | | | | 512 | 2.99 | 0.040 | | | | | | | 1.0 |
| GRNL BZ14548 | 316 | EPKPdf | | | | 512 | 3.10 | -.040 | | | | | | | 1.0 |

**November 8 2023 Hour: 13: 2 6.7 Lat: 6.15S Lon: 129.91E Depth: 10F Agency: IGL Distant
Magnitudes: 6.8Ms IGL Rms: 0.1 secs**

BANDA SEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|--------------|-----|---------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| MESJ BZ14542 | 316 | EPP | | | | 1323 | 32.90 | 0.10 | | | | | | | 1.0 |
| MESJ BN14542 | 316 | ESS | | | | 1341 | 3.09 | -0.07 | | | | | | | 1.0 |
| MESJ BZ14542 | 316 | IAMs_20 | | | | 1425 | 37.00 | | 23339 | 30.7 | | | | | |
| GRNL BZ14554 | 316 | EPP | | | | 1323 | 33.47 | -0.02 | | | | | | | 1.0 |
| GRNL BN14554 | 316 | ESS | | | | 1341 | 4.47 | -0.01 | | | | | | | 1.0 |
| GRNL BZ14554 | 316 | IAMs_20 | | | | 1425 | 27.31 | | 30993 | 26.5 | | | | | |

November 8 2023 Hour: 16:10 11.7 Lat: 36.70N Lon: 7.35W Depth: 34F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 148 | 329 | EP | | 1610 | 32.850 | .090 | | | | | | | 1.0 |
| MESJ | HN | 148 | 329 | ES | | 1610 | 48.00 | -.160 | | | | | | | 1.0 |
| MESJ | HE | 148 | 329 | IAML | | 1610 | 49.63 | | 12 | 0.3 | | | | | |
| GRNL | CZ | 189 | 326 | EP | | 1610 | 37.94 | -.010 | | | | | | | 1.0 |
| GRNL | CE | 189 | 326 | ES | | 1610 | 57.200 | .070 | | | | | | | 1.0 |
| GRNL | CN | 189 | 326 | IAML | | 1610 | 59.62 | | 9 | 0.1 | | | | | |

November 8 2023 Hour: 19:21 7.2 Lat: 36.63N Lon: 9.78W Depth: 16F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 193 | 46 | EP | | 1921 | 35.080 | .000 | | | | | | | 1.0 |
| MESJ | HN | 193 | 46 | ES | | 1921 | 55.500 | .080 | | | | | | | 1.0 |
| MESJ | HN | 193 | 46 | IAML | | 1921 | 56.63 | | 10 | 0.1 | | | | | |
| GRNL | CZ | 196 | 33 | EP | | 1921 | 35.38 | -.080 | | | | | | | 1.0 |

November 8 2023 Hour: 20:18 12.1 Lat: 37.33N Lon: 8.55W Depth: 13F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 64 | 27 | EP | | 2018 | 22.580 | .140 | | | | | | | 1.0 |
| GRNL | CE | 87 | 359 | ES | | 2018 | 35.81 | -.140 | | | | | | | 1.0 |
| GRNL | CN | 87 | 359 | IAML | | 2018 | 36.65 | | 2 | 0.1 | | | | | |

November 8 2023 Hour: 20:34 26.5 Lat: 36.73N Lon: 7.47W Depth: 24F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 140 | 332 | EP | | 2034 | 47.250 | .160 | | | | | | | 1.0 |
| MESJ | HN | 140 | 332 | ES | | 2035 | 1.92 | -.210 | | | | | | | 1.0 |
| MESJ | HE | 140 | 332 | IAML | | 2035 | 3.63 | | 6 | 0.3 | | | | | |
| GRNL | CZ | 181 | 328 | EP | | 2034 | 52.310 | .090 | | | | | | | 1.0 |
| GRNL | CN | 181 | 328 | ES | | 2035 | 10.95 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 181 | 328 | IAML | | 2035 | 12.27 | | 4 | 0.1 | | | | | |

November 9 2023 Hour: 14:12 9.1 Lat: 15.33S Lon: 167.45E Depth: 130F Agency: IGL Distant
Rms: 0.1 secs

VANUATU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ17478 | 352 | EP | KPdf | | 1431 | 48.36 | -.080 | | | | | | | 1.0 |
| GRNL | BZ17478 | 352 | EP | KPab | | 1432 | 20.09 | -.050 | | | | | | | 1.0 |
| MESJ | BZ17502 | 351 | EP | KPdf | | 1431 | 48.870 | .140 | | | | | | | 1.0 |

November 10 2023 Hour: 4:21 1.6 Lat: 35.57N Lon: 3.56W Depth: 2F Agency: IGL Regional
Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 487 | 303 | EP | | 422 | 7.08 | -.070 | | | | | | | 1.0 |
| GRNL | CZ | 528 | 304 | EP | | 422 | 12.250 | .070 | | | | | | | 1.0 |

November 10 2023 Hour: 6:13 17.8 Lat: 31.32N Lon: 8.16W Depth: 0 Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 723 | 360 | EP | | 614 | 54.040 | .100 | | | | | | | 1.0 |
| MESJ | HE | 723 | 360 | ES | | 616 | 4.170 | .020 | | | | | | | 1.0 |
| MESJ | HN | 723 | 360 | IAML | | 616 | 8.72 | | 5 | 0.2 | | | | | |
| GRNL | CZ | 754 | 357 | EP | | 614 | 57.69 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 754 | 357 | ES | | 616 | 10.75 | -.040 | | | | | | | 1.0 |

GRNL CN 754 357 IAML 616 13.95 6 0.2

November 10 2023 Hour: 6:45 44.0 Lat: 15.78S Lon: 171.75W Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

SAMOA ISLANDS REGION Net: NEIC

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
MESJ BZ17100 30 EPKPab 7 5 55.640.000 1.0

November 10 2023 Hour: 8:37 14.1 Lat: 36.63N Lon: 9.73W Depth: 19F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
MESJ HZ 189 44 EP 837 41.11-.120 1.0
MESJ HN 189 44 ES 838 1.180.130 1.0
MESJ HE 189 44 IAML 838 2.34 2 0.1
GRNL CZ 193 32 EP 837 41.57-.150 1.0
GRNL CN 193 32 ES 838 2.040.140 1.0
GRNL CE 193 32 IAML 838 4.30 17 0.2

November 10 2023 Hour: 10:10 3.9 Lat: 45.90N Lon: 151.00E Depth: 107F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.0 secs

KURIL ISLANDS Net: NEIC

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
GRNL BZ10488 344 EP 1023 11.030.010 1.0
GRNL BZ10488 344 IAMB 1023 12.52 24 0.9
MESJ BZ10509 344 EP 1023 11.91-.010 1.0
MESJ BZ10509 344 IAMB 1023 15.21 87 1.3

November 10 2023 Hour: 22:27 38.9 Lat: 36.33N Lon: 9.67W Depth: 13F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
MESJ HZ 212 37 EP 2228 9.580.210 1.0
GRNL CZ 221 26 EP 2228 10.22-.250 1.0
GRNL CN 221 26 ES 2228 33.530.030 1.0
GRNL CE 221 26 IAML 2228 35.01 4 0.1

November 10 2023 Hour: 22:32 17.7 Lat: 37.31N Lon: 8.56W Depth: 9F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
GRNL CZ 89 359 EP 2232 32.150.090 1.0
GRNL CN 89 359 ES 2232 42.44-.090 1.0
GRNL CN 89 359 IAML 2232 44.44 3 0.1

November 11 2023 Hour: 12:35 29.9 Lat: 17.89S Lon: 168.10E Depth: 24F Agency: IGL Distant
Rms: 0.0 secs

VANUATU Net: NEIC

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
GRNL BZ17767 352 EPKPab 1256 5.03-.000 1.0

November 11 2023 Hour: 20:55 52.0 Lat: 35.88N Lon: 7.62W Depth: 30F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
MESJ HZ 224 346 EP 2056 22.820.220 1.0
MESJ HN 224 346 ES 2056 44.72-.220 1.0
MESJ HN 224 346 IAML 2056 46.25 6 0.1
GRNL CZ 261 341 EP 2056 27.320.080 1.0
GRNL CN 261 341 ES 2056 52.89-.080 1.0
GRNL CN 261 341 IAML 2056 53.85 12 0.2

November 12 2023 Hour: 4:14 50.1 Lat: 38.64N Lon: 8.28W Depth: 15F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

W MONTEMOR-O-NOVO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 64 | 203 | EP | | 415 | 0.520 | .070 | | | | | | | 1.0 |
| GRNL | CN | 64 | 203 | ES | | 415 | 7.93- | .090 | | | | | | | 1.0 |
| GRNL | CE | 64 | 203 | IAML | | 415 | 8.72 | | | 3 | 0.1 | | | | |
| MESJ | HN | 89 | 177 | ES | | 415 | 14.510 | .020 | | | | | | | 1.0 |
| MESJ | HN | 89 | 177 | IAML | | 415 | 15.99 | | | 2 | 0.2 | | | | |

November 12 2023 Hour: 20: 6 32.6 Lat: 36.40N Lon: 9.90W Depth: 26F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 219 | 42 | EP | | 20 7 | 2.79- | .120 | | | | | | | 1.0 |
| MESJ | HN | 219 | 42 | ES | | 20 7 | 25.080 | .080 | | | | | | | 1.0 |
| MESJ | HE | 219 | 42 | IAML | | 20 7 | 25.88 | | | 0.60 | 0.1 | | | | |
| GRNL | CZ | 224 | 31 | EP | | 20 7 | 3.36- | .130 | | | | | | | 1.0 |
| GRNL | CE | 224 | 31 | ES | | 20 7 | 26.180 | .170 | | | | | | | 1.0 |
| GRNL | CN | 224 | 31 | IAML | | 20 7 | 28.50 | | | 2 | 0.1 | | | | |

November 13 2023 Hour: 7:53 49.4 Lat: 37.13N Lon: 8.00W Depth: 8F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

E LOULE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 81 | 346 | EP | | 754 | 2.53- | .030 | | | | | | | 1.0 |
| MESJ | HN | 81 | 346 | ES | | 754 | 12.190 | .060 | | | | | | | 1.0 |
| MESJ | HE | 81 | 346 | IAML | | 754 | 14.18 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 119 | 335 | EP | | 754 | 8.41- | .030 | | | | | | | 1.0 |

November 13 2023 Hour: 14:58 31.1 Lat: 35.46N Lon: 3.62W Depth: 17F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 489 | 304 | EP | | 1459 | 35.370 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 530 | 305 | EP | | 1459 | 40.35- | .040 | | | | | | | 1.0 |

November 13 2023 Hour: 19:45 35.3 Lat: 31.19N Lon: 8.24W Depth: 12F Agency: IGL Regional
Magnitudes: 3.3ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 738 | 0 | EP | | 1947 | 12.160 | .080 | | | | | | | 1.0 |
| GRNL | CZ | 769 | 358 | EP | | 1947 | 15.59- | .100 | | | | | | | 1.0 |
| GRNL | CE | 769 | 358 | ES | | 1948 | 29.020 | .020 | | | | | | | 1.0 |
| GRNL | CN | 769 | 358 | IAML | | 1948 | 32.99 | | | 27 | 0.2 | | | | |

November 14 2023 Hour: 1:54 45.0 Lat: 36.37N Lon: 8.37W Depth: 8F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 194 | 355 | EP | | 155 | 13.73 | 0.01 | | | | | | | 1.0 |
| GRNL | CN | 194 | 355 | ES | | 155 | 34.72- | 0.01 | | | | | | | 1.0 |
| GRNL | CN | 194 | 355 | IAML | | 155 | 36.53 | | | 7 | 0.1 | | | | |

November 14 2023 Hour: 7: 0 58.1 Lat: 4.04S Lon: 87.08E Depth: 10F Agency: IGL Distant
Rms: 0.1 secs

SOUTH INDIAN OCEAN Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | BZ10758 | 307 | EPP | | | 718 | 22.52- | .070 | | | | | | | 1.0 |
| GRNL | BZ10789 | 308 | EPP | | | 718 | 24.780 | .070 | | | | | | | 1.0 |

November 14 2023 Hour: 7:46 2.7 Lat: 32.60S Lon: 179.41W Depth: 77F Agency: IGL Distant
Rms: 0.1 secs

SOUTH OF KERMADEC ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ18987 | 51 | EP | KPdf | | 8 6 | 1.32 | -.030 | | | | | | | 1.0 |
| GRNL | BZ18987 | 51 | EP | KPab | | 8 7 | 19.930 | .180 | | | | | | | 0.9 |
| MESJ | BZ19029 | 52 | EP | KPdf | | 8 6 | 1.51 | -.050 | | | | | | | 1.0 |
| MESJ | BZ19029 | 52 | EP | KPab | | 8 7 | 21.38 | -.080 | | | | | | | 1.0 |

November 14 2023 Hour: 11:12 56.5 Lat: 36.97N Lon: 7.97W Depth: 19F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 99 | 347 | EP | | 1113 | 12.17 | -.040 | | | | | | | 1.0 |
| MESJ | HN | 99 | 347 | ES | | 1113 | 23.730 | .040 | | | | | | | 1.0 |
| MESJ | HN | 99 | 347 | IAML | | 1113 | 25.48 | | | 181 | 0.1 | | | | |

November 15 2023 Hour: 0:5 3.1 Lat: 36.44N Lon: 71.33E Depth: 116F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

HINDU KUSH REGION, AFGHANISTAN Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6839 | 298 | EP | | 015 | 7.66 | -.040 | | | | | | | 1.0 |
| MESJ | BZ | 6839 | 298 | IAMB | | 015 | 8.96 | | | 8 | 1.0 | | | | |
| GRNL | BZ | 6854 | 298 | EP | | 015 | 8.610 | .040 | | | | | | | 1.0 |
| GRNL | BZ | 6854 | 298 | IAMB | | 015 | 9.22 | | | 10 | 1.2 | | | | |

November 15 2023 Hour: 2:1 16.1 Lat: 37.07N Lon: 5.41W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 263 | 290 | EP | | 2 1 | 54.07 | -.040 | | | | | | | 1.0 |
| GRNL | CZ | 302 | 293 | EP | | 2 1 | 58.980 | .040 | | | | | | | 1.0 |

November 15 2023 Hour: 3:55 43.5 Lat: 38.76N Lon: 9.59W Depth: 4F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

NW CASCAIS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 115 | 129 | EP | | 356 | 2.010 | .000 | | | | | | | 1.0 |
| GRNL | CN | 115 | 129 | ES | | 356 | 15.53 | -.000 | | | | | | | 1.0 |
| GRNL | CN | 115 | 129 | IAML | | 356 | 17.25 | | | 4 | 0.2 | | | | |

November 15 2023 Hour: 10:0 16.5 Lat: 35.77N Lon: 4.40W Depth: 31F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 411 | 305 | EP | | 10 1 | 9.550 | .140 | | | | | | | 1.0 |
| MESJ | HN | 411 | 305 | ES | | 10 1 | 47.96 | -.050 | | | | | | | 1.0 |
| MESJ | HN | 411 | 305 | IAML | | 10 1 | 50.18 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 453 | 306 | EP | | 10 1 | 14.710 | .220 | | | | | | | 1.0 |
| GRNL | CN | 453 | 306 | ES | | 10 1 | 56.50 | -.310 | | | | | | | 1.0 |
| GRNL | CE | 453 | 306 | IAML | | 10 1 | 58.55 | | | 4 | 0.3 | | | | |

November 15 2023 Hour: 10:5 24.2 Lat: 36.86N Lon: 8.78W Depth: 28F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 120 | 24 | EP | | 10 5 | 42.010 | .040 | | | | | | | 1.0 |
| MESJ | HN | 120 | 24 | ES | | 10 5 | 54.980 | .010 | | | | | | | 1.0 |
| MESJ | HN | 120 | 24 | IAML | | 10 5 | 56.74 | | | 9 | 0.3 | | | | |
| GRNL | CZ | 140 | 8 | EP | | 10 5 | 44.40 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 140 | 8 | ES | | 10 5 | 59.350 | .040 | | | | | | | 1.0 |
| GRNL | CN | 140 | 8 | IAML | | 10 6 | 1.12 | | | 6 | 0.1 | | | | |

November 16 2023 Hour: 0:27 15.4 Lat: 36.70N Lon: 7.23W Depth: 31F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 154 | 325 | EP | | 027 | 36.590 | .030 | | | | | | | 1.0 |
| GRNL | CZ | 196 | 323 | EP | | 027 | 41.77- | .030 | | | | | | | 1.0 |

November 16 2023 Hour: 0:44 38.9 Lat: 38.53N Lon: 9.42W Depth: 15F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

S CASCAIS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 87 | 122 | EP | | 044 | 52.950 | .090 | | | | | | | 1.0 |
| GRNL | CE | 87 | 122 | ES | | 045 | 2.94- | .090 | | | | | | | 1.0 |
| GRNL | CE | 87 | 122 | IAML | | 045 | 3.37 | | | 0.80 | 0.1 | | | | |

November 16 2023 Hour: 11:45 55.9 Lat: 31.23N Lon: 8.25W Depth: 11F Agency: IGL Regional
Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 734 | 0 | EP | | 1147 | 32.350 | .090 | | | | | | | 1.0 |
| GRNL | CZ | 764 | 358 | EP | | 1147 | 35.82- | .090 | | | | | | | 1.0 |

November 16 2023 Hour: 15:43 56.5 Lat: 36.74N Lon: 8.68W Depth: 28F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 128 | 18 | EP | | 1544 | 15.540 | .110 | | | | | | | 1.0 |
| GRNL | CN | 152 | 4 | ES | | 1544 | 34.18- | .110 | | | | | | | 1.0 |
| GRNL | CN | 152 | 4 | IAML | | 1544 | 34.53 | | | 4 | 0.2 | | | | |

November 16 2023 Hour: 17:39 27.5 Lat: 31.32N Lon: 8.26W Depth: 6F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 724 | 0 | EP | | 1741 | 3.250 | .060 | | | | | | | 1.0 |
| MESJ | HE | 724 | 0 | ES | | 1742 | 13.170 | .150 | | | | | | | 1.0 |
| MESJ | HN | 724 | 0 | IAML | | 1742 | 19.78 | | | 11 | 0.3 | | | | |
| GRNL | CZ | 754 | 358 | EP | | 1741 | 6.73- | .220 | | | | | | | 1.0 |

November 16 2023 Hour: 22:38 54.0 Lat: 31.20N Lon: 8.22W Depth: 10F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 737 | 0 | EP | | 2240 | 31.030 | .120 | | | | | | | 1.0 |
| MESJ | HN | 737 | 0 | ES | | 2241 | 41.670 | .020 | | | | | | | 1.0 |
| MESJ | HN | 737 | 0 | IAML | | 2241 | 45.43 | | | 6 | 0.1 | | | | |
| GRNL | CZ | 768 | 358 | EP | | 2240 | 34.40- | .150 | | | | | | | 1.0 |

November 16 2023 Hour: 22:47 56.1 Lat: 36.53N Lon: 9.81W Depth: 7F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 203 | 44 | EP | | 2248 | 26.02- | .040 | | | | | | | 1.0 |
| MESJ | HE | 203 | 44 | ES | | 2248 | 48.090 | .170 | | | | | | | 1.0 |
| MESJ | HE | 203 | 44 | IAML | | 2248 | 48.62 | | | 0.70 | 0.1 | | | | |
| GRNL | CZ | 207 | 32 | EP | | 2248 | 26.36- | .220 | | | | | | | 1.0 |
| GRNL | CN | 207 | 32 | ES | | 2248 | 48.920 | .100 | | | | | | | 1.0 |
| GRNL | CN | 207 | 32 | IAML | | 2248 | 49.28 | | | 2 | 0.2 | | | | |

November 16 2023 Hour: 23:31 13.5 Lat: 36.99N Lon: 10.88W Depth: 17F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 239 | 58 | EP | | 2331 | 47.100 | .150 | | | | | | | 1.0 |
| MESJ | HZ | 254 | 67 | EP | | 2331 | 48.70 | -.080 | | | | | | | 1.0 |
| MESJ | HN | 254 | 67 | ES | | 2332 | 14.46 | -.080 | | | | | | | 1.0 |
| MESJ | HN | 254 | 67 | IAML | | 2332 | 15.64 | | | 3 | 0.2 | | | | |

November 17 2023 Hour: 1:37 11.2 Lat: 21.23N Lon: 99.33E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

MYANMAR Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ10033 | 311 | | EP | | 150 | 11.90 | -.100 | | | | | | | 1.0 |
| MESJ | BE10033 | 311 | | ESKSac | | 2 0 | 42.520 | .200 | | | | | | | 1.0 |
| MESJ | BN10033 | 311 | | IAMs_20 | | 228 | 53.05 | | | 1834 | 19.1 | | | | |
| GRNL | BZ10047 | 311 | | EP | | 150 | 12.50 | -.060 | | | | | | | 1.0 |
| GRNL | BN10047 | 311 | | ESKSac | | 2 0 | 42.98 | -.030 | | | | | | | 1.0 |
| GRNL | BN10047 | 311 | | IAMs_20 | | 231 | 16.53 | | | 2510 | 20.8 | | | | |

November 17 2023 Hour: 1:48 33.2 Lat: 36.52N Lon: 5.63W Depth: 22F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 273 | 303 | EP | | 149 | 10.48 | -.000 | | | | | | | 1.0 |

November 17 2023 Hour: 8:14 13.4 Lat: 5.59N Lon: 125.05E Depth: 78F Agency: IGL Distant
Magnitudes: 6.8Ms IGL Rms: 0.0 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| MESJ | BZ13220 | 319 | | EPKPdf | | 832 | 52.33 | -.010 | | | | | | | 1.0 |
| MESJ | BZ13220 | 319 | | EPP | | 834 | 11.46 | -.010 | | | | | | | 1.0 |
| MESJ | BZ13220 | 319 | | IAMs_20 | | 931 | 42.76 | | | 24797 | 20.7 | | | | |
| GRNL | BZ13228 | 319 | | EPKPdf | | 832 | 52.47 | -.000 | | | | | | | 1.0 |
| GRNL | BZ13228 | 319 | | EPP | | 834 | 11.98 | -.000 | | | | | | | 1.0 |
| GRNL | BE13228 | 319 | | IAMs_20 | | 918 | 24.34 | | | 29909 | 28.0 | | | | |
| GGNV | BZ13231 | 320 | | EPP | | 834 | 12.150 | .020 | | | | | | | 1.0 |
| GGNV | BZ13231 | 320 | | IAMs_20 | | 930 | 19.43 | | | 32067 | 30.1 | | | | |

November 18 2023 Hour: 9:21 55.8 Lat: 36.61N Lon: 8.53W Depth: 22F Agency: IGL Regional
Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 139 | 11 | EP | | 922 | 16.520 | .080 | | | | | | | 1.0 |
| GRNL | CZ | 166 | 359 | EP | | 922 | 19.71 | -.080 | | | | | | | 1.0 |

November 18 2023 Hour: 9:41 56.2 Lat: 36.51N Lon: 9.77W Depth: 26F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 202 | 43 | EP | | 942 | 24.370 | .040 | | | | | | | 1.0 |
| MESJ | HN | 202 | 43 | ES | | 942 | 45.040 | .140 | | | | | | | 1.0 |
| MESJ | HN | 202 | 43 | IAML | | 942 | 47.06 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 207 | 31 | EP | | 942 | 24.76 | -.190 | | | | | | | 1.0 |

November 19 2023 Hour: 4:1 36.8 Lat: 18.85N Lon: 145.30E Depth: 598F Agency: IGL Distant
Rms: 0.1 secs

PAGAN REGION, NORTHERN MARIANA ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|--------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ13159 | 337 | | EPKPdf | | 419 | 16.70 | -.060 | | | | | | | 1.0 |
| MESJ | BZ13171 | 336 | | EPKPdf | | 419 | 17.030 | .060 | | | | | | | 1.0 |

November 19 2023 Hour: 6:0 4.8 Lat: 36.67N Lon: 9.64W Depth: 18F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MESJ | HZ | 181 | 44 | EP | | 6 | 0 | 30.950 | .000 | | | | | | 1.0 |
| MESJ | HE | 181 | 44 | ES | | 6 | 0 | 50.130 | .090 | | | | | | 1.0 |
| MESJ | HE | 181 | 44 | IAML | | 6 | 0 | 51.82 | | 0.80 | 0.3 | | | | |
| GRNL | CZ | 186 | 30 | EP | | 6 | 0 | 31.36 | -.190 | | | | | | 1.0 |
| GRNL | CE | 186 | 30 | ES | | 6 | 0 | 51.160 | .090 | | | | | | 1.0 |
| GRNL | CE | 186 | 30 | IAML | | 6 | 0 | 51.83 | | 1 | 0.1 | | | | |

November 19 2023 Hour: 12:26 51.9 Lat: 38.03N Lon: 8.55W Depth: 6F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs

E SANTIAGO DO CACEM, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 9 | 350 | EP | | 1226 | 53.67 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 9 | 350 | ES | | 1226 | 55.170 | .150 | | | | | | | 1.0 |
| GRNL | CN | 9 | 350 | IAML | | 1226 | 55.25 | | | 15 | 0.1 | | | | |
| MESJ | HZ | 36 | 126 | EP | | 1226 | 57.67 | -.110 | | | | | | | 1.0 |

November 19 2023 Hour: 21:1 30.6 Lat: 41.21N Lon: 142.25E Depth: 41F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs

HOKKAIDO, JAPAN REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ10747 | 337 | EP | | | 2114 | 56.210 | .130 | | | | | | | 1.0 |
| GRNL | BZ10747 | 337 | EPP | | | 2118 | 51.06 | -.040 | | | | | | | 1.0 |
| GRNL | BZ10747 | 337 | IAMs_20 | | | 2154 | 45.83 | | | 3218 | 35.2 | | | | |
| MESJ | BZ10763 | 337 | EP | | | 2114 | 56.800 | .040 | | | | | | | 1.0 |
| MESJ | BZ10763 | 337 | EPP | | | 2118 | 52.11 | -.130 | | | | | | | 1.0 |
| MESJ | BZ10763 | 337 | IAMs_20 | | | 22 | 3 | 28.72 | | 2524 | 14.3 | | | | |

November 20 2023 Hour: 0:39 18.1 Lat: 38.28N Lon: 8.11W Depth: 2F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

SW VIANA DO ALENTEJO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 44 | 245 | EP | | 039 | 25.300 | .120 | | | | | | | 1.0 |
| GRNL | CN | 44 | 245 | ES | | 039 | 30.30 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 44 | 245 | IAML | | 039 | 30.70 | | | 8 | 0.2 | | | | |
| MESJ | HZ | 50 | 191 | EP | | 039 | 26.02 | -.070 | | | | | | | 1.0 |
| MESJ | HE | 50 | 191 | ES | | 039 | 31.990 | .030 | | | | | | | 1.0 |

November 20 2023 Hour: 4:13 47.6 Lat: 36.35N Lon: 8.20W Depth: 15F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 166 | 359 | EP | | 414 | 12.06 | -.080 | | | | | | | 1.0 |
| MESJ | HN | 166 | 359 | ES | | 414 | 30.140 | .080 | | | | | | | 1.0 |
| MESJ | HE | 166 | 359 | IAML | | 414 | 31.12 | | | 1 | 0.3 | | | | |

November 20 2023 Hour: 4:57 45.8 Lat: 11.45N Lon: 125.03E Depth: 118F Agency: IGL Distant
Rms: 0.1 secs

SAMAR, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ12721 | 321 | EPKP | | | 516 | 11.18 | -.100 | | | | | | | 1.0 |
| GRNL | BZ12727 | 321 | EPKP | | | 516 | 11.460 | .100 | | | | | | | 1.0 |

November 20 2023 Hour: 6:46 27.8 Lat: 39.75N Lon: 13.66E Depth: 404F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

TYRRHENIAN SEA Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 1908 | 271 | EP | | 650 | 3.17 | -.080 | | | | | | | 1.0 |
| MESJ | BZ | 1908 | 271 | IAMB | | 650 | 4.35 | | | 77 | 1.0 | | | | |
| GRNL | BZ | 1931 | 272 | EP | | 650 | 5.540 | .080 | | | | | | | 1.0 |

GRNL BZ 1931 272 IAmb 650 6.77 66 0.7

November 20 2023 Hour: 12:58 44.7 Lat: 36.51N Lon: 7.52W Depth: 15F Agency: IGL Regional Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 160 | 337 | EP | | 1259 | 8.47 | -.070 | | | | | | | 1.0 |
| GRNL | CZ | 200 | 333 | EP | | 1259 | 13.590 | .070 | | | | | | | 1.0 |

November 20 2023 Hour: 21:14 38.3 Lat: 29.45N Lon: 61.06E Depth: 10F Agency: IGL Distant Magnitudes: 5.0Mb IGL Rms: 0.0 secs

IRAN-PAKISTAN BORDER REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 6374 | 299 | EP | | 2124 | 26.32 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 6374 | 299 | IAmb | | 2124 | 27.64 | | | 16 | 1.0 | | | | |

November 21 2023 Hour: 5:10 27.8 Lat: 0.98N Lon: 28.95W Depth: 10F Agency: IGL Distant Magnitudes: 5.3Mb IGL Rms: 0.1 secs

CENTRAL MID-ATLANTIC RIDGE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 4611 | 25 | EP | | 518 | 14.52 | -.120 | | | | | | | 1.0 |
| GRNL | BZ | 4611 | 25 | IAmb | | 518 | 20.89 | | | 92 | 1.4 | | | | |
| GRNL | BN | 4611 | 25 | ES | | 524 | 30.860 | .120 | | | | | | | 1.0 |

November 21 2023 Hour: 7:10 15.7 Lat: 9.56S Lon: 148.67E Depth: 10F Agency: IGL Distant Rms: 0.0 secs

EASTERN NEW GUINEA REGION, PAPUA NEW GUINEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ16138 | 328 | EPKP | | | 729 | 52.270 | .020 | | | | | | | 1.0 |
| MESJ | BZ16139 | 327 | EPKP | | | 729 | 52.29 | -.020 | | | | | | | 1.0 |

November 21 2023 Hour: 19:20 45.7 Lat: 44.06N Lon: 14.66W Depth: 23F Agency: IGL Regional Magnitudes: 2.3ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 835 | 140 | EP | | 1922 | 31.09 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 835 | 140 | ES | | 1923 | 48.240 | .080 | | | | | | | 1.0 |
| GRNL | CN | 835 | 140 | IAML | | 1923 | 52.24 | | | 2 | 0.2 | | | | |

November 22 2023 Hour: 2:48 52.4 Lat: 1.80N Lon: 127.17E Depth: 102F Agency: IGL Distant Magnitudes: 5.6Ms IGL Rms: 0.1 secs

HALMAHERA, INDONESIA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MESJ | BZ13690 | 318 | EPP | | | 3 | 9 | 16.860 | .150 | | | | | | 1.0 |
| MESJ | BN13690 | 318 | IAMs_20 | | | 354 | 6.06 | | | 806 | 16.7 | | | | |
| GRNL | BZ13699 | 319 | EPKpdf | | | 3 | 7 | 36.43 | -.160 | | | | | | 1.0 |
| GRNL | BZ13699 | 319 | EPP | | | 3 | 9 | 17.260 | .010 | | | | | | 1.0 |
| GRNL | BE13699 | 319 | IAMs_20 | | | 357 | 18.79 | | | 1818 | 23.6 | | | | |

November 22 2023 Hour: 3:19 44.1 Lat: 35.29N Lon: 6.09W Depth: 31F Agency: IGL Regional Magnitudes: 2.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 341 | 327 | EP | | 320 | 28.560 | .090 | | | | | | | 1.0 |
| MESJ | HN | 341 | 327 | ES | | 321 | 0.79 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 341 | 327 | IAML | | 321 | 4.90 | | | 8 | 0.2 | | | | |
| GRNL | CZ | 383 | 325 | EP | | 320 | 33.710 | .070 | | | | | | | 1.0 |
| GRNL | CN | 383 | 325 | ES | | 321 | 9.76 | -.070 | | | | | | | 1.0 |
| GRNL | CN | 383 | 325 | IAML | | 321 | 13.48 | | | 9 | 0.1 | | | | |

November 22 2023 Hour: 4:47 32.0 Lat: 14.98S Lon: 167.97E Depth: 13F Agency: IGL Distant
Magnitudes: 6.9Ms IGL Rms: 0.1 secs

VANUATU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|-------|------|------|-----|------|------|-----|
| GGNV | BZ17387 | 354 | EP | KPdf | | 5 7 | 25.51 | -.000 | | | | | | | 1.0 |
| GGNV | BE17387 | 354 | ESS | | | 531 | 22.370 | .110 | | | | | | | 1.0 |
| GGNV | BZ17387 | 354 | IAMs | _20 | | 618 | 20.14 | | 25296 | 21.2 | | | | | |
| GRNL | BZ17447 | 353 | EP | KPdf | | 5 7 | 26.300 | .060 | | | | | | | 1.0 |
| GRNL | BZ17447 | 353 | EP | KPab | | 5 7 | 56.43 | -.030 | | | | | | | 1.0 |
| GRNL | BZ17447 | 353 | IAMs | _20 | | 613 | 31.50 | | 15740 | 21.4 | | | | | |
| MESJ | BZ17472 | 352 | EP | KPdf | | 5 7 | 26.540 | .000 | | | | | | | 1.0 |
| MESJ | BZ17472 | 352 | EP | KPab | | 5 7 | 57.08 | -.360 | | | | | | | 0.8 |
| MESJ | BE17472 | 352 | ESS | | | 531 | 30.620 | .130 | | | | | | | 1.0 |
| MESJ | BZ17472 | 352 | IAMs | _20 | | 613 | 24.61 | | 18478 | 27.2 | | | | | |

November 22 2023 Hour: 7:9 41.9 Lat: 37.32N Lon: 8.60W Depth: 11F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 66 | 30 | EP | | 7 9 | 52.690 | .030 | | | | | | | 1.0 |
| MESJ | HN | 66 | 30 | ES | | 710 | 0.44 | -.100 | | | | | | | 1.0 |
| MESJ | HE | 66 | 30 | IAML | | 710 | 1.18 | | 2 | 0.2 | | | | | |
| GRNL | CZ | 87 | 2 | EP | | 7 9 | 55.970 | .140 | | | | | | | 1.0 |
| GRNL | CN | 87 | 2 | ES | | 710 | 5.96 | -.070 | | | | | | | 1.0 |
| GRNL | CN | 87 | 2 | IAML | | 710 | 6.70 | | 3 | 0.1 | | | | | |

November 22 2023 Hour: 10:11 43.4 Lat: 36.48N Lon: 8.11W Depth: 31F Agency: IGL Regional
Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 185 | 348 | EP | | 1012 | 8.33 | -.000 | | | | | | | 1.0 |

November 23 2023 Hour: 14:46 7.2 Lat: 38.13N Lon: 38.55E Depth: 8F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

EASTERN TURKEY Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 4086 | 285 | EP | | 1453 | 15.07 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 4086 | 285 | IAMB | | 1453 | 23.79 | | 23 | 1.1 | | | | | |

November 23 2023 Hour: 15:37 10.2 Lat: 21.94S Lon: 68.61W Depth: 118F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.0 secs

ANTOFAGASTA, CHILE Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9134 | 44 | EP | | 1549 | 17.64 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 9134 | 44 | IAMB | | 1549 | 18.14 | | 11 | 0.7 | | | | | |
| MESJ | BZ | 9142 | 44 | EP | | 1549 | 18.040 | .010 | | | | | | | 1.0 |
| MESJ | BZ | 9142 | 44 | IAMB | | 1549 | 19.44 | | 21 | 1.1 | | | | | |

November 23 2023 Hour: 16:3 50.2 Lat: 36.51N Lon: 9.75W Depth: 17F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 200 | 42 | EP | | 16 4 | 18.880 | .000 | | | | | | | 1.0 |
| MESJ | HN | 200 | 42 | ES | | 16 4 | 40.000 | .180 | | | | | | | 1.0 |
| MESJ | HN | 200 | 42 | IAML | | 16 4 | 41.08 | | 2 | 0.1 | | | | | |
| GRNL | CZ | 206 | 30 | EP | | 16 4 | 19.33 | -.220 | | | | | | | 1.0 |
| GRNL | CN | 206 | 30 | ES | | 16 4 | 41.010 | .030 | | | | | | | 1.0 |
| GRNL | CN | 206 | 30 | IAML | | 16 4 | 42.76 | | 8 | 0.2 | | | | | |

November 23 2023 Hour: 17:33 58.5 Lat: 36.45N Lon: 7.28W Depth: 31F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 175 | 332 | EP | | 1734 | 22.26 | -.040 | | | | | | | 1.0 |
| GRNL | CZ | 217 | 329 | EP | | 1734 | 27.33 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 217 | 329 | ES | | 1734 | 48.670 | .140 | | | | | | | 1.0 |
| GRNL | CE | 217 | 329 | IAML | | 1734 | 53.14 | | | 2 | 0.1 | | | | |

November 24 2023 Hour: 2:36 47.4 Lat: 35.87N Lon: 7.59W Depth: 32F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 225 | 346 | EP | | 237 | 18.08 | -.030 | | | | | | | 1.0 |
| MESJ | HE | 225 | 346 | ES | | 237 | 40.660 | .120 | | | | | | | 1.0 |
| MESJ | HE | 225 | 346 | IAML | | 237 | 41.83 | | | 0.80 | 0.1 | | | | |
| GRNL | CZ | 263 | 341 | EP | | 237 | 22.76 | -.010 | | | | | | | 1.0 |
| GRNL | CE | 263 | 341 | ES | | 237 | 48.51 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 263 | 341 | IAML | | 237 | 49.83 | | | 2 | 0.2 | | | | |

November 24 2023 Hour: 6:16 51.8 Lat: 37.36N Lon: 8.46W Depth: 2F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 58 | 22 | EP | | 617 | 1.340 | .230 | | | | | | | 1.0 |
| MESJ | HN | 58 | 22 | ES | | 617 | 7.85 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 58 | 22 | IAML | | 617 | 8.98 | | | 4 | 0.2 | | | | |
| GRNL | CZ | 84 | 354 | EP | | 617 | 5.33 | -.020 | | | | | | | 1.0 |
| GRNL | CE | 84 | 354 | ES | | 617 | 15.10 | -.140 | | | | | | | 1.0 |
| GRNL | CE | 84 | 354 | IAML | | 617 | 17.38 | | | 16 | 0.1 | | | | |

November 24 2023 Hour: 6:43 15.9 Lat: 37.59N Lon: 8.40W Depth: 15F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SW OURIQUE, PORTUGAL Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 32 | 29 | EP | | 643 | 21.740 | .150 | | | | | | | 1.0 |
| MESJ | HE | 32 | 29 | ES | | 643 | 25.70 | -.020 | | | | | | | 1.0 |
| MESJ | HE | 32 | 29 | IAML | | 643 | 26.11 | | | 4 | 0.2 | | | | |
| GRNL | CZ | 60 | 346 | EP | | 643 | 25.690 | .010 | | | | | | | 1.0 |
| GRNL | CN | 60 | 346 | ES | | 643 | 32.65 | -.140 | | | | | | | 1.0 |
| GRNL | CN | 60 | 346 | IAML | | 643 | 33.04 | | | 1 | 0.1 | | | | |

November 24 2023 Hour: 9:5 3.7 Lat: 20.16N Lon: 145.55E Depth: 16F Agency: IGL Distant
Magnitudes: 7.2Ms IGL Rms: 0.1 secs

MAUG ISLANDS REGION, NORTH MARIANA ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|--------------------------|-------|----|------|--------|-------|------|--------|------|-----|------|------|-----|
| GGNV | BZ12999 | 338 | EPP | | | 924 | 55.47 | -.160 | | | | | | | 1.0 |
| GGNV | BN12999 | 338 | IAMs_20 | | 10 | 7 | 9.65 | | | 103000 | 32.7 | | | | |
| GRNL | BZ13036 | 337 | EPKp \bar{d} \bar{f} | | | 923 | 47.83 | -.010 | | | | | | | 1.0 |
| GRNL | BZ13036 | 337 | EPP | | | 924 | 57.86 | -.110 | | | | | | | 1.0 |
| GRNL | BN13036 | 337 | ESS | | | 941 | 7.88 | -.040 | | | | | | | 1.0 |
| GRNL | BN13036 | 337 | IAMs_20 | | 10 | 9 | 10.98 | | | 84039 | 28.8 | | | | |
| MESJ | BZ13048 | 337 | EPKp \bar{d} \bar{f} | | | 923 | 48.04 | -.020 | | | | | | | 1.0 |
| MESJ | BZ13048 | 337 | EPP | | | 924 | 58.980 | .230 | | | | | | | 1.0 |
| MESJ | BN13048 | 337 | ESS | | | 941 | 9.490 | .120 | | | | | | | 1.0 |
| MESJ | BZ13048 | 337 | IAMs_20 | | 10 | 9 | 9.93 | | | 94937 | 31.3 | | | | |

November 24 2023 Hour: 9:20 37.5 Lat: 38.74N Lon: 8.02W Depth: 15F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NW ARRAILOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 85 | 214 | EP | | 920 | 51.190 | .040 | | | | | | | 1.0 |
| GRNL | CE | 85 | 214 | ES | | 921 | 0.95- | .130 | | | | | | | 1.0 |
| GRNL | CE | 85 | 214 | IAML | | 921 | 2.21 | | 4 | 0.1 | | | | | |
| MESJ | HZ | 102 | 190 | EP | | 920 | 53.870 | .190 | | | | | | | 1.0 |
| MESJ | HE | 102 | 190 | ES | | 921 | 5.37- | .090 | | | | | | | 1.0 |
| MESJ | HE | 102 | 190 | IAML | | 921 | 6.84 | | 3 | 0.1 | | | | | |

November 24 2023 Hour: 18:23 37.5 Lat: 37.17N Lon: 7.89W Depth: 7F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NW S BRAS DE ALPORTEL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 80 | 339 | EP | | 1823 | 50.32- | .080 | | | | | | | 1.0 |
| GRNL | CZ | 120 | 330 | EP | | 1823 | 56.670 | .040 | | | | | | | 1.0 |
| GRNL | CE | 120 | 330 | ES | | 1824 | 10.650 | .040 | | | | | | | 1.0 |
| GRNL | CN | 120 | 330 | IAML | | 1824 | 11.65 | | 4 | 0.1 | | | | | |

November 24 2023 Hour: 20:38 4.8 Lat: 36.58N Lon: 4.58W Depth: 56F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 352 | 295 | EP | | 2038 | 50.880 | .020 | | | | | | | 1.0 |
| GRNL | CZ | 392 | 297 | EP | | 2038 | 55.67- | .020 | | | | | | | 1.0 |

November 25 2023 Hour: 8:37 55.5 Lat: 36.13N Lon: 10.55W Depth: 34F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 281 | 38 | EP | | 838 | 33.05- | .110 | | | | | | | 1.0 |
| GRNL | CN | 281 | 38 | ES | | 839 | 0.760 | .110 | | | | | | | 1.0 |
| GRNL | CN | 281 | 38 | IAML | | 839 | 2.34 | | 3 | 0.1 | | | | | |

November 25 2023 Hour: 12:59 53.1 Lat: 2.12S Lon: 77.31W Depth: 151F Agency: IGL Distant
Magnitudes: 4.6Mb IGL Rms: 0.1 secs

PERU-ECUADOR BORDER REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 8320 | 50 | EP | | 1311 | 16.640 | .080 | | | | | | | 1.0 |
| GRNL | BZ | 8320 | 50 | IAMB | | 1311 | 17.01 | | 23 | 1.0 | | | | | |
| MESJ | BZ | 8342 | 50 | EP | | 1311 | 17.63- | .080 | | | | | | | 1.0 |
| MESJ | BZ | 8342 | 50 | IAMB | | 1311 | 18.14 | | 8 | 0.9 | | | | | |

November 25 2023 Hour: 13:52 48.6 Lat: 36.67N Lon: 11.35W Depth: 32F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 294 | 56 | EP | | 1353 | 28.040 | .190 | | | | | | | 1.0 |
| GRNL | CN | 294 | 56 | ES | | 1353 | 56.43- | .040 | | | | | | | 1.0 |
| GRNL | CN | 294 | 56 | IAML | | 1353 | 59.97 | | 50 | 0.2 | | | | | |
| MESJ | HZ | 307 | 64 | EP | | 1353 | 29.510 | .020 | | | | | | | 1.0 |
| MESJ | HE | 307 | 64 | ES | | 1353 | 59.13- | .170 | | | | | | | 1.0 |
| MESJ | HN | 307 | 64 | IAML | | 1354 | 1.67 | | 15 | 0.1 | | | | | |

November 25 2023 Hour: 18:35 47.3 Lat: 36.65N Lon: 9.75W Depth: 19F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 189 | 45 | EP | | 1836 | 14.380 | .000 | | | | | | | 1.0 |
| MESJ | HN | 189 | 45 | ES | | 1836 | 34.210 | .040 | | | | | | | 1.0 |
| MESJ | HE | 189 | 45 | IAML | | 1836 | 35.88 | | 0.50 | 0.1 | | | | | |
| GRNL | CZ | 193 | 32 | EP | | 1836 | 14.76- | .040 | | | | | | | 1.0 |

GRNL CN 193 32 ES 1836 34.89-.000 1.0
 GRNL CE 193 32 IAML 1836 37.16 2 0.1

**November 25 2023 Hour: 23:11 38.2Lat: 36.50N Lon: 9.72W Depth: 16F Agency: IGL Regional
 Magnitudes: 1.3ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 200 | 41 | EP | | 2312 | 7.050 | .100 | | | | | | | 1.0 |
| GRNL | CZ | 206 | 29 | EP | | 2312 | 7.50- | .180 | | | | | | | 1.0 |
| GRNL | CN | 206 | 29 | ES | | 2312 | 29.250 | .080 | | | | | | | 1.0 |
| GRNL | CE | 206 | 29 | IAML | | 2312 | 30.34 | | | 2 | 0.1 | | | | |

**November 25 2023 Hour: 23:30 52.4Lat: 37.34N Lon: 8.45W Depth: 12F Agency: IGL Regional
 Magnitudes: 0.6ML IGL Rms: 0.1 secs**

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 59 | 20 | EP | | 2331 | 2.100 | .130 | | | | | | | 1.0 |
| MESJ | HN | 59 | 20 | ES | | 2331 | 8.76- | .200 | | | | | | | 1.0 |
| MESJ | HN | 59 | 20 | IAML | | 2331 | 9.30 | | | 2 | 0.1 | | | | |
| GRNL | CZ | 85 | 353 | EP | | 2331 | 6.190 | .180 | | | | | | | 1.0 |
| GRNL | CN | 85 | 353 | ES | | 2331 | 15.84- | .110 | | | | | | | 1.0 |
| GRNL | CN | 85 | 353 | IAML | | 2331 | 16.85 | | | 3 | 0.1 | | | | |

**November 26 2023 Hour: 0:30 59.7 Lat: 35.65N Lon: 6.11W Depth: 31F Agency: IGL Regional
 Magnitudes: 1.9ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 307 | 323 | EP | | 031 | 39.77- | .100 | | | | | | | 1.0 |
| MESJ | HN | 307 | 323 | ES | | 032 | 9.21- | .010 | | | | | | | 1.0 |
| MESJ | HN | 307 | 323 | IAML | | 032 | 11.08 | | | 5 | 0.2 | | | | |
| GRNL | CZ | 350 | 322 | EP | | 031 | 45.02- | .130 | | | | | | | 1.0 |
| GRNL | CN | 350 | 322 | ES | | 032 | 18.590 | .250 | | | | | | | 1.0 |
| GRNL | CE | 350 | 322 | IAML | | 032 | 20.51 | | | 5 | 0.2 | | | | |

**November 26 2023 Hour: 9:39 48.8 Lat: 26.88N Lon: 126.98E Depth: 110F Agency: IGL Distant
 Rms: 0.0 secs**

RYUKYU ISLANDS, JAPAN Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ11469 | 325 | EP | | | 953 | 34.960 | .020 | | | | | | | 1.0 |
| MESJ | BZ11472 | 325 | EP | | | 953 | 35.05- | .020 | | | | | | | 1.0 |

**November 26 2023 Hour: 18:37 18.2Lat: 31.19N Lon: 8.21W Depth: 12F Agency: IGL Regional
 Rms: 0.1 secs**

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 737 | 360 | EP | | 1838 | 55.020 | .060 | | | | | | | 1.0 |
| GRNL | CZ | 768 | 358 | EP | | 1838 | 58.53- | .060 | | | | | | | 1.0 |

**November 26 2023 Hour: 22:57 1.9 Lat: 26.17S Lon: 11.58W Depth: 10F Agency: IGL Distant
 Magnitudes: 4.6Mb IGL Rms: 0.0 secs**

SOUTHERN MID-ATLANTIC RIDGE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 7120 | 3 | EP | | 23 | 7 | 35.510 | .000 | | | | | | 1.0 |
| GRNL | BZ | 7120 | 3 | IAMB | | 23 | 7 | 36.53 | | | 4 | 0.8 | | | |

**November 27 2023 Hour: 0:29 32.7 Lat: 36.65N Lon: 9.74W Depth: 15F Agency: IGL Regional
 Magnitudes: 1.8ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 189 | 45 | EP | | 030 | 0.290 | .100 | | | | | | | 1.0 |
| GRNL | CZ | 193 | 32 | EP | | 030 | 0.55- | .080 | | | | | | | 1.0 |
| GRNL | CE | 193 | 32 | ES | | 030 | 20.97- | .020 | | | | | | | 1.0 |
| GRNL | CN | 193 | 32 | IAML | | 030 | 23.28 | | | 8 | 0.2 | | | | |

November 27 2023 Hour: 2:3 2.4 Lat: 31.27N Lon: 8.17W Depth: 10F Agency: IGL Regional
Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 729 | 360 | EP | | 2 4 | 38.260 | .060 | | | | | | | 1.0 |
| GRNL | CZ | 759 | 357 | EP | | 2 4 | 41.87- | -.060 | | | | | | | 1.0 |

November 27 2023 Hour: 10:8 26.6 Lat: 24.53S Lon: 69.88W Depth: 57F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

ANTOFAGASTA, CHILE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9431 | 44 | EP | | 1020 | 54.750 | .050 | | | | | | | 1.0 |
| GRNL | BZ | 9431 | 44 | IAmb | | 1020 | 55.29 | | | 21 | 1.0 | | | | |
| MESJ | BZ | 9438 | 44 | EP | | 1020 | 54.97- | .050 | | | | | | | 1.0 |
| MESJ | BZ | 9438 | 44 | IAmb | | 1020 | 56.71 | | | 32 | 1.0 | | | | |

November 27 2023 Hour: 21:46 42.4 Lat: 3.57S Lon: 144.04E Depth: 8F Agency: IGL Distant
Magnitudes: 6.9Ms IGL Rms: 0.1 secs

NEAR NORTH COAST OF NEW GUINEA, PAPUA NEW GUINEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| GGNV | BZ15289 | 329 | EP | KPdf | | 22 6 | 5.93- | -.120 | | | | | | | 1.0 |
| GGNV | BZ15289 | 329 | EPP | | | 22 8 | 51.660 | .130 | | | | | | | 1.0 |
| GGNV | BE15289 | 329 | IAMs | _20 | | 23 3 | 21.91 | | | 28906 | 21.9 | | | | |
| GRNL | BZ15305 | 328 | EP | KPdf | | 22 6 | 6.23- | -.100 | | | | | | | 1.0 |
| GRNL | BZ15305 | 328 | EPP | | | 22 8 | 52.26- | -.180 | | | | | | | 1.0 |
| GRNL | BE15305 | 328 | ESS | | | 2227 | 2.290 | .190 | | | | | | | 1.0 |
| GRNL | BE15305 | 328 | IAMs | _20 | | 23 4 | 10.75 | | | 21844 | 23.3 | | | | |
| MESJ | BZ15306 | 327 | EP | KPdf | | 22 6 | 6.370 | .020 | | | | | | | 1.0 |
| MESJ | BZ15306 | 327 | EPP | | | 22 8 | 52.46- | -.040 | | | | | | | 1.0 |
| MESJ | BN15306 | 327 | ESS | | | 2227 | 2.300 | .090 | | | | | | | 1.0 |
| MESJ | BZ15306 | 327 | IAMs | _20 | | 23 4 | 57.94 | | | 21863 | 22.3 | | | | |
| MORF | BZ15375 | 327 | EP | KPdf | | 22 6 | 7.660 | .110 | | | | | | | 1.0 |
| MORF | BZ15375 | 327 | EPP | | | 22 8 | 56.34- | -.100 | | | | | | | 1.0 |
| MORF | BZ15375 | 327 | IAMs | _20 | | 2312 | 57.81 | | | 22355 | 15.6 | | | | |

November 28 2023 Hour: 2:26 55.0 Lat: 7.63N Lon: 82.43W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

SOUTH OF PANAMA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8072 | 53 | EP | | 238 | 22.350 | .000 | | | | | | | 1.0 |
| MORF | BZ | 8072 | 53 | IAmb | | 238 | 27.66 | | | 10 | 0.9 | | | | |

November 28 2023 Hour: 2:55 2.8 Lat: 35.60N Lon: 9.86W Depth: 33F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 218 | 30 | EP | | 255 | 32.62- | -.090 | | | | | | | 1.0 |
| MORF | HE | 218 | 30 | ES | | 255 | 54.45- | -.060 | | | | | | | 1.0 |
| MORF | HE | 218 | 30 | IAML | | 255 | 54.72 | | | 4 | 0.1 | | | | |
| MESJ | HZ | 289 | 30 | EP | | 255 | 41.43- | -.010 | | | | | | | 1.0 |
| MESJ | HE | 289 | 30 | ES | | 256 | 9.880 | .260 | | | | | | | 1.0 |
| MESJ | HE | 289 | 30 | IAML | | 256 | 11.24 | | | 0.60 | 0.1 | | | | |
| GRNL | CE | 301 | 22 | ES | | 256 | 12.25- | -.080 | | | | | | | 1.0 |
| GRNL | CE | 301 | 22 | IAML | | 256 | 14.14 | | | 2 | 0.1 | | | | |

November 28 2023 Hour: 3:50 46.5 Lat: 37.78N Lon: 8.27W Depth: 15F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.2 secs

NW OURIQUE, PORTUGAL Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 8 | 37 | EP | | 350 | 49.370 | .140 | | | | | | | 1.0 |
| MESJ | HN | 8 | 37 | ES | | 350 | 51.270 | .050 | | | | | | | 1.0 |
| MESJ | HN | 8 | 37 | IAML | | 350 | 51.87 | | | 95 | 0.1 | | | | |
| GRNL | CZ | 45 | 324 | EP | | 350 | 53.82- | -.150 | | | | | | | 1.0 |

| | | | | | | | | | | | | | | | | | |
|---------|----|-----|------|--|-----|------------|--|--|----|-----|--|--|--|--|--|--|-----|
| GRNL CE | 45 | 324 | ES | | 350 | 59.450.030 | | | | | | | | | | | 1.0 |
| GRNL CN | 45 | 324 | IAML | | 350 | 59.88 | | | 34 | 0.1 | | | | | | | |
| MORF HZ | 63 | 212 | EP | | 350 | 57.110.340 | | | | | | | | | | | 1.0 |
| MORF HN | 63 | 212 | ES | | 351 | 3.85-.410 | | | | | | | | | | | 1.0 |
| MORF HN | 63 | 212 | IAML | | 351 | 6.90 | | | 21 | 0.2 | | | | | | | |

November 28 2023 Hour: 4:15 49.5 Lat: 36.66N Lon: 7.03W Depth: 31F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|------------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 168 | 321 | EP | | 416 | 12.27-.070 | | | | | | | | 1.0 |
| MESJ | HE | 168 | 321 | ES | | 416 | 29.110.070 | | | | | | | | 1.0 |
| MESJ | HE | 168 | 321 | IAML | | 416 | 30.39 | | 0.70 | 0.1 | | | | | |

November 28 2023 Hour: 5:14 21.7 Lat: 42.10N Lon: 8.17W Depth: 27F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

E MELGACO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|------------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 445 | 185 | EP | | 515 | 19.800.060 | | | | | | | | 1.0 |
| GRNL | CN | 445 | 185 | ES | | 516 | 2.180.040 | | | | | | | | 1.0 |
| GRNL | CN | 445 | 185 | IAML | | 516 | 5.44 | | 20 | 0.2 | | | | | |
| MESJ | HZ | 473 | 181 | EP | | 515 | 23.370.160 | | | | | | | | 1.0 |
| MESJ | HE | 473 | 181 | ES | | 516 | 8.11-.030 | | | | | | | | 1.0 |
| MESJ | HE | 473 | 181 | IAML | | 516 | 9.42 | | 6 | 0.3 | | | | | |
| MORF | HZ | 534 | 185 | EP | | 515 | 30.42-.210 | | | | | | | | 1.0 |
| MORF | HN | 534 | 185 | ES | | 516 | 20.93-.050 | | | | | | | | 1.0 |
| MORF | HE | 534 | 185 | IAML | | 516 | 22.79 | | 11 | 0.1 | | | | | |

November 28 2023 Hour: 6:13 23.8 Lat: 52.74N Lon: 167.10W Depth: 26F Agency: IGL Distant
Magnitudes: 5.2Ms IGL Rms: 0.1 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|------------|------|------|------|------|-----|------|------|-----|
| GGNV | BZ | 9656 | 17 | EP | | 626 | 5.78-.010 | | | | | | | | 1.0 |
| GRNL | BZ | 9734 | 17 | EP | | 626 | 9.220.060 | | | | | | | | 1.0 |
| GRNL | BZ | 9734 | 17 | IAMs_20 | | 7 5 | 47.93 | | 984 | 18.8 | | | | | |
| MESJ | BZ | 9769 | 17 | EP | | 626 | 10.69-.020 | | | | | | | | 1.0 |
| MESJ | BN | 9769 | 17 | ESKSac | | 636 | 37.03-.110 | | | | | | | | 1.0 |
| MESJ | BZ | 9769 | 17 | IAMs_20 | | 710 | 42.64 | | 1018 | 17.5 | | | | | |
| MORF | BZ | 9819 | 17 | EP | | 626 | 12.950.070 | | | | | | | | 1.0 |
| MORF | BZ | 9819 | 17 | IAMs_20 | | 7 6 | 20.19 | | 1259 | 27.9 | | | | | |

November 28 2023 Hour: 9:46 24.0 Lat: 37.31N Lon: 8.56W Depth: 9F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|------------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 9 | 270 | EP | | 946 | 25.95-.080 | | | | | | | | 1.0 |
| MORF | HN | 9 | 270 | ES | | 946 | 27.55-.000 | | | | | | | | 1.0 |
| MORF | HN | 9 | 270 | IAML | | 946 | 28.03 | | 37 | 0.1 | | | | | |
| GRNL | CN | 89 | 359 | ES | | 946 | 48.870.090 | | | | | | | | 1.0 |
| GRNL | CE | 89 | 359 | IAML | | 946 | 49.89 | | 0.90 | 0.1 | | | | | |

November 28 2023 Hour: 13:14 3.4 Lat: 38.58N Lon: 8.19W Depth: 6F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SE MONTEMOR-O-NOVO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|------------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 63 | 213 | EP | | 1314 | 13.640.110 | | | | | | | | 1.0 |
| GRNL | CE | 63 | 213 | ES | | 1314 | 20.81-.130 | | | | | | | | 1.0 |
| GRNL | CE | 63 | 213 | IAML | | 1314 | 21.47 | | 6 | 0.1 | | | | | |
| MESJ | HZ | 83 | 182 | EP | | 1314 | 16.950.180 | | | | | | | | 1.0 |
| MESJ | HN | 83 | 182 | ES | | 1314 | 26.39-.160 | | | | | | | | 1.0 |
| MESJ | HE | 83 | 182 | IAML | | 1314 | 28.43 | | 6 | 0.2 | | | | | |

November 28 2023 Hour: 19:32 18.1 Lat: 37.36N Lon: 8.51W Depth: 1F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 14 | 246 | EP | | 1932 | 20.35 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 84 | 356 | ES | | 1932 | 41.470 | .030 | | | | | | | 1.0 |
| GRNL | CN | 84 | 356 | IAML | | 1932 | 45.03 | | | 6 | 0.1 | | | | |

November 28 2023 Hour: 22:50 17.7 Lat: 36.76N Lon: 9.61W Depth: 19F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 104 | 55 | EP | | 2250 | 34.350 | .120 | | | | | | | 1.0 |
| MORF | HN | 104 | 55 | ES | | 2250 | 46.370 | .080 | | | | | | | 1.0 |
| MORF | HE | 104 | 55 | IAML | | 2250 | 48.92 | | | 319 | 0.1 | | | | |
| MESJ | HZ | 172 | 46 | EP | | 2250 | 42.51 | -.150 | | | | | | | 1.0 |
| MESJ | HE | 172 | 46 | ES | | 2251 | 0.960 | .080 | | | | | | | 1.0 |
| MESJ | HN | 172 | 46 | IAML | | 2251 | 1.46 | | | 61 | 0.2 | | | | |
| GRNL | CZ | 175 | 31 | EP | | 2250 | 42.87 | -.250 | | | | | | | 1.0 |
| GRNL | CN | 175 | 31 | ES | | 2251 | 1.780 | .120 | | | | | | | 1.0 |
| GRNL | CN | 175 | 31 | IAML | | 2251 | 3.48 | | | 145 | 0.1 | | | | |

November 29 2023 Hour: 0:37 45.7 Lat: 37.64N Lon: 6.87W Depth: 1 Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 121 | 281 | EP | | 038 | 5.07 | -.050 | | | | | | | 1.0 |
| MESJ | HE | 121 | 281 | ES | | 038 | 19.420 | .090 | | | | | | | 1.0 |
| MESJ | HN | 121 | 281 | IAML | | 038 | 20.28 | | | 2 | 0.2 | | | | |
| GRNL | CZ | 158 | 290 | EP | | 038 | 10.40 | -.160 | | | | | | | 1.0 |
| MORF | HZ | 162 | 257 | EP | | 038 | 11.200 | .120 | | | | | | | 1.0 |

November 29 2023 Hour: 5:11 43.5 Lat: 38.16N Lon: 9.33W Depth: 2F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 67 | 95 | EP | | 511 | 54.28 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 67 | 95 | ES | | 512 | 2.19 | -.100 | | | | | | | 1.0 |
| GRNL | CN | 67 | 95 | IAML | | 512 | 6.39 | | | 5 | 0.1 | | | | |
| MESJ | HN | 104 | 110 | ES | | 512 | 12.770 | .190 | | | | | | | 1.0 |
| MESJ | HN | 104 | 110 | IAML | | 512 | 15.40 | | | 2 | 0.3 | | | | |

November 30 2023 Hour: 4:36 42.1 Lat: 36.65N Lon: 11.15W Depth: 19F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HE | 234 | 71 | ES | | 437 | 38.66 | -.030 | | | | | | | 1.0 |
| MORF | HN | 234 | 71 | IAML | | 437 | 39.09 | | | 7 | 0.2 | | | | |
| GRNL | CZ | 280 | 54 | EP | | 437 | 20.41 | -.090 | | | | | | | 1.0 |
| GRNL | CE | 280 | 54 | ES | | 437 | 48.720 | .180 | | | | | | | 1.0 |
| GRNL | CN | 280 | 54 | IAML | | 437 | 50.65 | | | 4 | 0.2 | | | | |
| MESJ | HZ | 292 | 62 | EP | | 437 | 21.88 | -.060 | | | | | | | 1.0 |

November 30 2023 Hour: 6:39 33.1 Lat: 38.97N Lon: 9.04W Depth: 2F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

SE ARRUDA DOS VINHOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CE | 104 | 157 | ES | | 640 | 2.290 | .180 | | | | | | | 1.0 |
| GRNL | CE | 104 | 157 | IAML | | 640 | 4.13 | | | 3 | 0.1 | | | | |
| MESJ | HZ | 144 | 150 | EP | | 639 | 56.06 | -.150 | | | | | | | 1.0 |
| MESJ | HN | 144 | 150 | ES | | 640 | 13.02 | -.040 | | | | | | | 1.0 |
| MESJ | HE | 144 | 150 | IAML | | 640 | 14.98 | | | 1.00 | 0.1 | | | | |

November 30 2023 Hour: 23:20 32.1 Lat: 17.98S Lon: 178.02W Depth:565F Agency: IGL Distant
Rms: 0.0 secs

FIJI REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|-----|------|-----|-------|-----|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ1 | 7574 | 23 | EP | Kab | 2340 | 1.30 | -.000 | | | | | | | 1.0 |

December 1 2023 Hour: 1:20 58.1 Lat: 37.09N Lon: 5.56W Depth: 4F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 250 | 290 | EP | | 121 | 34.260 | .090 | | | | | | | 1.0 |
| GRNL | CZ | 289 | 294 | EP | | 121 | 38.93 | -.090 | | | | | | | 1.0 |

December 1 2023 Hour: 2:41 17.6 Lat: 36.23N Lon: 9.77W Depth: 31F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 155 | 39 | EP | | 241 | 39.080 | .110 | | | | | | | 1.0 |
| MORF | HE | 155 | 39 | ES | | 241 | 54.690 | .150 | | | | | | | 1.0 |
| MORF | HN | 155 | 39 | IAML | | 241 | 56.72 | | | 46 | 0.1 | | | | |
| MESJ | HZ | 225 | 37 | EP | | 241 | 47.64 | -.020 | | | | | | | 1.0 |
| GRNL | CZ | 234 | 27 | EP | | 241 | 48.36 | -.360 | | | | | | | 1.0 |
| GRNL | CN | 234 | 27 | ES | | 242 | 11.500 | .090 | | | | | | | 1.0 |
| GRNL | CE | 234 | 27 | IAML | | 242 | 13.08 | | | 25 | 0.1 | | | | |

December 1 2023 Hour: 6:24 33.3 Lat: 37.51N Lon: 13.69W Depth: 30F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 446 | 91 | EP | | 625 | 31.34 | -.060 | | | | | | | 1.0 |
| MORF | HE | 446 | 91 | ES | | 626 | 13.66 | -.150 | | | | | | | 1.0 |
| MORF | HE | 446 | 91 | IAML | | 626 | 14.67 | | | 20 | 0.2 | | | | |
| GRNL | CZ | 455 | 80 | EP | | 625 | 32.540 | .070 | | | | | | | 1.0 |
| GRNL | CN | 455 | 80 | ES | | 626 | 15.62 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 455 | 80 | IAML | | 626 | 18.67 | | | 46 | 0.2 | | | | |
| MESJ | HZ | 484 | 84 | EP | | 625 | 36.070 | .180 | | | | | | | 1.0 |

December 1 2023 Hour: 13:29 49.9 Lat: 36.62N Lon: 9.71W Depth: 32F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 121 | 51 | EP | | 1330 | 7.780 | .150 | | | | | | | 1.0 |
| MORF | HN | 121 | 51 | ES | | 1330 | 20.52 | -.080 | | | | | | | 1.0 |
| MORF | HN | 121 | 51 | IAML | | 1330 | 22.33 | | | 17 | 0.1 | | | | |
| MESJ | HZ | 189 | 44 | EP | | 1330 | 16.110 | .030 | | | | | | | 1.0 |
| MESJ | HN | 189 | 44 | ES | | 1330 | 35.220 | .010 | | | | | | | 1.0 |
| MESJ | HN | 189 | 44 | IAML | | 1330 | 36.36 | | | 6 | 0.2 | | | | |
| GRNL | CZ | 193 | 31 | EP | | 1330 | 16.54 | -.090 | | | | | | | 1.0 |
| GRNL | CE | 193 | 31 | ES | | 1330 | 36.14 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 193 | 31 | IAML | | 1330 | 38.23 | | | 16 | 0.2 | | | | |

December 1 2023 Hour: 21:43 2.8 Lat: 36.60N Lon: 11.18W Depth: 31F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 238 | 70 | EP | | 2143 | 34.45 | -.010 | | | | | | | 1.0 |
| GRNL | CZ | 286 | 53 | EP | | 2143 | 40.420 | .130 | | | | | | | 1.0 |
| GRNL | CE | 286 | 53 | ES | | 2144 | 7.740 | .070 | | | | | | | 1.0 |
| GRNL | CE | 286 | 53 | IAML | | 2144 | 9.17 | | | 1 | 0.1 | | | | |
| MESJ | HZ | 297 | 61 | EP | | 2143 | 41.48 | -.190 | | | | | | | 1.0 |

December 2 2023 Hour: 0:14 19.2 Lat: 35.08N Lon: 3.85W Depth: 8F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

MOROCCO Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 498 | 309 | EP | | 015 | 25.490 | .030 | | | | | | | 1.0 |
| MESJ | HN | 498 | 309 | IAML | | 016 | 16.47 | | | 6 | 0.3 | | | | |
| MORF | HZ | 498 | 301 | EP | | 015 | 25.620 | .090 | | | | | | | 1.0 |
| MORF | HN | 498 | 301 | IAML | | 016 | 16.60 | | | 9 | 0.3 | | | | |
| MESJ | HN | 498 | 309 | ES | | 016 | 13.70 | -.120 | | | | | | | 1.0 |
| MORF | HN | 498 | 301 | ES | | 016 | 13.82 | -.120 | | | | | | | 1.0 |
| GRNL | CZ | 540 | 310 | EP | | 015 | 30.760 | .160 | | | | | | | 1.0 |
| GRNL | CE | 540 | 310 | ES | | 016 | 22.67 | -.040 | | | | | | | 1.0 |
| GRNL | CE | 540 | 310 | IAML | | 016 | 25.17 | | | 5 | 0.2 | | | | |

December 2 2023 Hour: 3:35 32.1 Lat: 23.12N Lon: 90.94E Depth: 39F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.0 secs

BANGLADESH Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 9231 | 308 | EP | | 347 | 53.31 | -.030 | | | | | | | 1.0 |
| MESJ | BZ | 9231 | 308 | IAMB | | 347 | 55.38 | | | 56 | 1.2 | | | | |
| GRNL | BZ | 9247 | 308 | EP | | 347 | 54.090 | .030 | | | | | | | 1.0 |
| GRNL | BZ | 9247 | 308 | IAMB | | 347 | 56.07 | | | 47 | 1.3 | | | | |

December 2 2023 Hour: 7:39 13.0 Lat: 38.43N Lon: 9.28W Depth: 10F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

W SESIMBRA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 72 | 120 | EP | | 739 | 24.66 | -.070 | | | | | | | 1.0 |
| GRNL | CE | 72 | 120 | ES | | 739 | 33.370 | .070 | | | | | | | 1.0 |
| GRNL | CE | 72 | 120 | IAML | | 739 | 34.01 | | | 1 | 0.1 | | | | |

December 2 2023 Hour: 7:55 41.0 Lat: 19.20S Lon: 69.06W Depth: 106F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

TARAPACA, CHILE Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| MORF | BZ | 8894 | 45 | EP | | 8 | 7 | 38.52 | 0.04 | | | | | | 1.0 |
| MORF | BZ | 8894 | 45 | IAMB | | 8 | 7 | 44.83 | | 152 | 1.2 | | | | |
| MORF | BZ | 8894 | 45 | EP | | 8 | 8 | 5.66 | 0.13 | | | | | | 1.0 |
| GGNV | BZ | 8945 | 43 | EP | | 8 | 8 | 7.84 | -0.08 | | | | | | 1.0 |
| GRNL | BZ | 8949 | 44 | EP | | 8 | 7 | 41.01 | -0.06 | | | | | | 1.0 |
| GRNL | BZ | 8949 | 44 | IAMB | | 8 | 7 | 43.36 | | 53 | 0.9 | | | | |
| GRNL | BZ | 8949 | 44 | EP | | 8 | 8 | 8.21 | 0.05 | | | | | | 1.0 |
| GRNL | BN | 8949 | 44 | ES | | 817 | 39.08 | -0.02 | | | | | | | 1.0 |
| MESJ | BZ | 8959 | 45 | EP | | 8 | 7 | 41.38 | -0.15 | | | | | | 1.0 |
| MESJ | BZ | 8959 | 45 | IAMB | | 8 | 7 | 43.75 | | 133 | 1.4 | | | | |
| MESJ | BZ | 8959 | 45 | EP | | 8 | 8 | 8.67 | 0.05 | | | | | | 1.0 |
| MESJ | BE | 8959 | 45 | ES | | 817 | 40.01 | 0.02 | | | | | | | 1.0 |

December 2 2023 Hour: 12: 1 2.2 Lat: 7.02S Lon: 129.69E Depth: 121F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

KEPULAUAN BABAR, INDONESIA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|-------|-----|--------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 14594 | 315 | EPP | | 1222 | 18.160 | .000 | | | | | | | 1.0 |
| GRNL | BZ | 14606 | 316 | EPKpdf | | 1219 | 59.650 | .100 | | | | | | | 1.0 |
| GRNL | BZ | 14606 | 316 | EPP | | 1222 | 18.86 | -.030 | | | | | | | 1.0 |
| MORF | BZ | 14655 | 315 | EPP | | 1222 | 21.72 | -.060 | | | | | | | 1.0 |

December 2 2023 Hour: 14:37 4.4 Lat: 8.53N Lon: 126.45E Depth: 33F Agency: IGL Distant
Magnitudes: 7.4Ms IGL Rms: 0.1 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|--------|------|--------|------|------|-----|------|------|-----|
| MESJ | BZ13071 | 321 | | EPdif | | 1452 | 3.330 | .070 | | | | | | | 1.0 |
| MESJ | BZ13071 | 321 | | EPKPdf | | 1455 | 46.480 | .060 | | | | | | | 1.0 |
| MESJ | BZ13071 | 321 | | EPP | | 1456 | 57.97- | .170 | | | | | | | 1.0 |
| MESJ | BZ13071 | 321 | | IAMs_20 | | 1545 | 13.92 | | 65738 | 24.9 | | | | | |
| GGNV | BZ13074 | 322 | | EPdif | | 1452 | 3.450 | .070 | | | | | | | 1.0 |
| GGNV | BZ13074 | 322 | | EPP | | 1456 | 58.380 | .030 | | | | | | | 1.0 |
| GGNV | BZ13074 | 322 | | IAMs_20 | | 1553 | 48.26 | | 134000 | 22.3 | | | | | |
| GRNL | BZ13077 | 321 | | EPdif | | 1452 | 3.570 | .080 | | | | | | | 1.0 |
| GRNL | BZ13077 | 321 | | EPKPdf | | 1455 | 46.510 | .000 | | | | | | | 1.0 |
| GRNL | BZ13077 | 321 | | EPP | | 1456 | 58.38- | .120 | | | | | | | 1.0 |
| GRNL | BE13077 | 321 | | IAMs_20 | | 1542 | 25.75 | | 107000 | 23.1 | | | | | |
| MORF | BZ13137 | 320 | | EPdif | | 1452 | 5.89- | .080 | | | | | | | 1.0 |
| MORF | BZ13137 | 320 | | EPKPdf | | 1455 | 47.810 | .190 | | | | | | | 0.9 |
| MORF | BZ13137 | 320 | | EPP | | 1457 | 2.23- | .130 | | | | | | | 1.0 |
| MORF | BZ13137 | 320 | | IAMs_20 | | 1559 | 4.20 | | 94809 | 22.2 | | | | | |

December 2 2023 Hour: 18:9 26.8 Lat: 8.44N Lon: 126.92E Depth: 55F Agency: IGL Distant
Rms: 0.0 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | BZ13111 | 321 | | EPP | | 1829 | 20.660 | .030 | | | | | | | 1.0 |
| GRNL | BZ13116 | 321 | | EPP | | 1829 | 20.980 | .000 | | | | | | | 1.0 |
| MORF | BZ13177 | 321 | | EPP | | 1829 | 24.82- | .030 | | | | | | | 1.0 |

December 2 2023 Hour: 20:24 21.9 Lat: 20.42S Lon: 177.90W Depth: 526F Agency: IGL Distant
Rms: 0.0 secs

FIJI REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|--------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ17814 | 25 | | EPKPdf | | 2043 | 20.130 | .010 | | | | | | | 1.0 |
| MESJ | BZ17856 | 25 | | EPKPdf | | 2043 | 20.54- | .010 | | | | | | | 1.0 |

December 2 2023 Hour: 21:35 25.4 Lat: 37.36N Lon: 7.74W Depth: 12F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

SW ALCOUTIM, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 68 | 322 | EP | | 2135 | 36.20- | .120 | | | | | | | 1.0 |
| MORF | HZ | 81 | 266 | EP | | 2135 | 38.21- | .090 | | | | | | | 1.0 |
| GRNL | CE | 110 | 319 | ES | | 2135 | 55.700 | .230 | | | | | | | 1.0 |
| GRNL | CE | 110 | 319 | IAML | | 2135 | 56.55 | | 0.70 | 0.1 | | | | | |

December 2 2023 Hour: 23:23 53.2 Lat: 36.66N Lon: 11.11W Depth: 15F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 231 | 71 | EP | | 2324 | 25.74- | .080 | | | | | | | 1.0 |
| MORF | HN | 231 | 71 | ES | | 2324 | 49.730 | .080 | | | | | | | 1.0 |
| MORF | HE | 231 | 71 | IAML | | 2324 | 51.02 | | 4 | 0.2 | | | | | |
| GRNL | CZ | 277 | 54 | EP | | 2324 | 31.580 | .030 | | | | | | | 1.0 |
| MESJ | HZ | 288 | 62 | EP | | 2324 | 32.88- | .080 | | | | | | | 1.0 |
| MESJ | HN | 288 | 62 | ES | | 2325 | 2.050 | .040 | | | | | | | 1.0 |
| MESJ | HN | 288 | 62 | IAML | | 2325 | 2.97 | | 1.00 | 0.1 | | | | | |

December 3 2023 Hour: 1:6 51.6 Lat: 31.31N Lon: 8.19W Depth: 8F Agency: IGL Regional
Rms: 0.0 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 667 | 356 | EP | | 1 8 | 19.95 | 0.06 | | | | | | | 1.0 |
| MESJ | HZ | 725 | 360 | EP | | 1 8 | 27.08- | 0.04 | | | | | | | 1.0 |
| GRNL | CZ | 755 | 357 | EP | | 1 8 | 30.86- | 0.02 | | | | | | | 0.9 |

**December 3 2023 Hour: 1:19 41.8 Lat: 37.07N Lon: 8.97W Depth: 23F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.2 secs**

NE VILA DO BISPO, PORTUGAL Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 38 | 46 | EP | | 119 | 49.010 | .370 | | | | | | | 1.0 |
| MORF | HE | 38 | 46 | ES | | 119 | 53.40 | -.240 | | | | | | | 1.0 |
| MORF | HE | 38 | 46 | IAML | | 119 | 53.68 | | 1103 | 0.1 | | | | | |
| MESJ | HZ | 108 | 37 | EP | | 119 | 58.67 | -.110 | | | | | | | 1.0 |
| MESJ | HN | 108 | 37 | ES | | 120 | 11.17 | -.010 | | | | | | | 1.0 |
| MESJ | HN | 108 | 37 | IAML | | 120 | 11.50 | | 276 | 0.2 | | | | | |
| GRNL | CZ | 121 | 17 | EP | | 120 | 0.31 | -.030 | | | | | | | 1.0 |

**December 3 2023 Hour: 1:46 57.3 Lat: 37.10N Lon: 8.82W Depth: 23F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs**

NE VILA DO BISPO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 27 | 33 | EP | | 147 | 2.64 | -.070 | | | | | | | 1.0 |
| MORF | HN | 27 | 33 | ES | | 147 | 6.780 | .150 | | | | | | | 1.0 |
| MORF | HE | 27 | 33 | IAML | | 147 | 7.33 | | 10 | 0.1 | | | | | |
| MESJ | HZ | 98 | 33 | EP | | 147 | 12.86 | -.010 | | | | | | | 1.0 |
| MESJ | HE | 98 | 33 | ES | | 147 | 24.320 | .110 | | | | | | | 1.0 |
| MESJ | HN | 98 | 33 | IAML | | 147 | 25.01 | | 3 | 0.2 | | | | | |
| GRNL | CZ | 114 | 11 | EP | | 147 | 14.88 | -.180 | | | | | | | 1.0 |

**December 3 2023 Hour: 3:25 21.6 Lat: 36.65N Lon: 9.67W Depth: 16F Agency: IGL Regional
Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 117 | 51 | EP | | 325 | 40.010 | .070 | | | | | | | 1.0 |
| MESJ | HZ | 185 | 44 | EP | | 325 | 48.440 | .030 | | | | | | | 1.0 |
| GRNL | CZ | 189 | 31 | EP | | 325 | 48.87 | -.110 | | | | | | | 1.0 |

**December 3 2023 Hour: 3:29 1.3 Lat: 36.59N Lon: 9.79W Depth: 13F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 129 | 52 | EP | | 329 | 21.49 | -.010 | | | | | | | 1.0 |
| MORF | HN | 129 | 52 | ES | | 329 | 36.500 | .250 | | | | | | | 1.0 |
| MORF | HN | 129 | 52 | IAML | | 329 | 37.33 | | 2 | 0.1 | | | | | |
| MESJ | HZ | 197 | 45 | EP | | 329 | 29.74 | -.170 | | | | | | | 1.0 |
| GRNL | CZ | 201 | 32 | EP | | 329 | 30.28 | -.080 | | | | | | | 1.0 |

**December 3 2023 Hour: 4: 4 29.9 Lat: 37.04N Lon: 13.49W Depth: 10F Agency: IGL Regional
Magnitudes: 3.8ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | HN | 425 | 63 | ES | | 4 6 | 1.510 | .210 | | | | | | | 1.0 |
| GGNV | HN | 425 | 63 | IAML | | 4 6 | 4.28 | | 399 | 0.2 | | | | | |
| MORF | HZ | 430 | 85 | EP | | 4 5 | 23.550 | .040 | | | | | | | 1.0 |
| MORF | HN | 430 | 85 | ES | | 4 6 | 2.48 | -.170 | | | | | | | 1.0 |
| MORF | HN | 430 | 85 | IAML | | 4 6 | 5.34 | | 254 | 0.2 | | | | | |
| GRNL | CZ | 450 | 73 | EP | | 4 5 | 25.81 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 450 | 73 | ES | | 4 6 | 6.65 | -.140 | | | | | | | 1.0 |
| GRNL | CE | 450 | 73 | IAML | | 4 6 | 9.22 | | 234 | 0.2 | | | | | |
| MESJ | HZ | 474 | 78 | EP | | 4 5 | 28.87 | -.000 | | | | | | | 1.0 |
| MESJ | HN | 474 | 78 | ES | | 4 6 | 12.070 | .140 | | | | | | | 1.0 |
| MESJ | HN | 474 | 78 | IAML | | 4 6 | 17.74 | | 86 | 0.3 | | | | | |

December 3 2023 Hour: 4:20 26.9 Lat: 37.35N Lon: 8.44W Depth: 9F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 20 | 254 | EP | | 420 | 30.24 | -.170 | | | | | | | 1.0 |
| MORF | HE | 20 | 254 | ES | | 420 | 33.000 | .020 | | | | | | | 1.0 |
| MORF | HE | 20 | 254 | IAML | | 420 | 33.23 | | | 34 | 0.2 | | | | |
| MESJ | HZ | 58 | 20 | EP | | 420 | 36.440 | .150 | | | | | | | 1.0 |
| GRNL | CZ | 85 | 352 | EP | | 420 | 40.630 | .060 | | | | | | | 1.0 |
| GRNL | CN | 85 | 352 | ES | | 420 | 50.51 | -.050 | | | | | | | 1.0 |
| GRNL | CE | 85 | 352 | IAML | | 420 | 51.21 | | | 4 | 0.2 | | | | |

December 3 2023 Hour: 10:35 57.7 Lat: 8.45N Lon: 126.72E Depth: 56F Agency: IGL Distant
Magnitudes: 6.5Ms IGL Rms: 0.1 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| MESJ | BZ13096 | 321 | EPP | | | 1055 | 50.53 | -.020 | | | | | | | 1.0 |
| MESJ | BE13096 | 321 | ESS | | | 1112 | 0.050 | .180 | | | | | | | 1.0 |
| MESJ | BN13096 | 321 | IAMs_20 | | | 1142 | 2.14 | | | 5719 | 23.1 | | | | |
| GRNL | BZ13102 | 321 | EPP | | | 1055 | 50.67 | -.230 | | | | | | | 1.0 |
| GRNL | BE13102 | 321 | ESS | | | 1112 | 0.570 | .040 | | | | | | | 1.0 |
| GRNL | BE13102 | 321 | IAMs_20 | | | 1140 | 4.04 | | | 33060 | 33.6 | | | | |
| MORF | BZ13163 | 321 | EPP | | | 1055 | 54.780 | .020 | | | | | | | 1.0 |
| MORF | BE13163 | 321 | ESS | | | 1112 | 7.71 | -.010 | | | | | | | 1.0 |
| MORF | BN13163 | 321 | IAMs_20 | | | 1142 | 8.15 | | | 28284 | 30.7 | | | | |

December 3 2023 Hour: 14:36 1.3 Lat: 8.72N Lon: 126.90E Depth: 45F Agency: IGL Distant
Rms: 0.1 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ13085 | 321 | EPP | | | 1455 | 54.62 | 0.03 | | | | | | | 1.0 |
| GRNL | BZ13091 | 321 | EPP | | | 1455 | 55.00 | 0.08 | | | | | | | 1.0 |
| MORF | BZ13152 | 321 | EPP | | | 1455 | 58.70 | -0.11 | | | | | | | 1.0 |

December 3 2023 Hour: 19:49 37.6 Lat: 8.96N Lon: 126.63E Depth: 31F Agency: IGL Distant
Magnitudes: 6.8Ms IGL Rms: 0.2 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|--------|-------|-------|------|-----|------|------|-----|
| MESJ | BZ13046 | 321 | EPdif | | | 20 | 4 | 35.73 | -.030 | | | | | | 1.0 |
| MESJ | BZ13046 | 321 | EPKpdf | | | 20 | 8 | 19.700 | .230 | | | | | | 1.0 |
| MESJ | BZ13046 | 321 | EPP | | | 20 | 9 | 30.070 | .000 | | | | | | 1.0 |
| MESJ | BN13046 | 321 | ESS | | | 2025 | 38.64 | -.180 | | | | | | | 1.0 |
| MESJ | BZ13046 | 321 | IAMs_20 | | | 21 | 6 | 25.94 | | 9350 | 27.0 | | | | |
| GGNV | BZ13049 | 322 | EPdif | | | 20 | 4 | 35.60 | -.240 | | | | | | 1.0 |
| GGNV | BZ13049 | 322 | EPP | | | 20 | 9 | 30.280 | .070 | | | | | | 1.0 |
| GGNV | BN13049 | 322 | IAMs_20 | | | 2053 | 36.99 | | | 45040 | 24.7 | | | | |
| GRNL | BZ13052 | 321 | EPdif | | | 20 | 4 | 35.86 | -.110 | | | | | | 1.0 |
| GRNL | BZ13052 | 321 | EPKpdf | | | 20 | 8 | 19.730 | .170 | | | | | | 1.0 |
| GRNL | BZ13052 | 321 | EPP | | | 20 | 9 | 30.480 | .070 | | | | | | 1.0 |
| GRNL | BN13052 | 321 | ESS | | | 2025 | 39.660 | .210 | | | | | | | 1.0 |
| GRNL | BE13052 | 321 | IAMs_20 | | | 2059 | 34.03 | | | 38197 | 28.5 | | | | |
| MORF | BZ13113 | 321 | EPdif | | | 20 | 4 | 38.22 | -.250 | | | | | | 1.0 |
| MORF | BZ13113 | 321 | EPKpdf | | | 20 | 8 | 20.870 | .190 | | | | | | 1.0 |
| MORF | BZ13113 | 321 | EPP | | | 20 | 9 | 34.310 | .010 | | | | | | 1.0 |
| MORF | BN13113 | 321 | ESS | | | 2025 | 46.54 | -.170 | | | | | | | 1.0 |
| MORF | BE13113 | 321 | IAMs_20 | | | 2058 | 28.29 | | | 32186 | 22.9 | | | | |

December 3 2023 Hour: 20:38 33.5 Lat: 36.46N Lon: 9.87W Depth: 23F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 144 | 49 | EP | | 2038 | 55.100 | .130 | | | | | | | 1.0 |
| MORF | HN | 144 | 49 | ES | | 2039 | 10.48 | -.150 | | | | | | | 1.0 |
| MORF | HN | 144 | 49 | IAML | | 2039 | 11.52 | | | 6 | 0.3 | | | | |
| MESJ | HZ | 212 | 43 | EP | | 2039 | 3.480 | .020 | | | | | | | 1.0 |
| MESJ | HN | 212 | 43 | ES | | 2039 | 25.15 | -.160 | | | | | | | 1.0 |
| MESJ | HE | 212 | 43 | IAML | | 2039 | 26.31 | | | 0.70 | 0.1 | | | | |
| GRNL | CZ | 217 | 32 | EP | | 2039 | 3.90 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 217 | 32 | ES | | 2039 | 26.470 | .250 | | | | | | | 1.0 |
| GRNL | CN | 217 | 32 | IAML | | 2039 | 27.65 | | | 4 | 0.1 | | | | |

December 3 2023 Hour: 21:31 18.6 Lat: 36.74N Lon: 7.25W Depth: 19F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HN | 139 | 297 | ES | | 2131 | 54.87 | -.030 | | | | | | | 1.0 |
| MORF | HN | 139 | 297 | IAML | | 2131 | 55.87 | | | 6 | 0.1 | | | | |
| MESJ | HZ | 149 | 325 | EP | | 2131 | 40.910 | .130 | | | | | | | 1.0 |
| MESJ | HN | 149 | 325 | ES | | 2131 | 56.80 | -.140 | | | | | | | 1.0 |
| MESJ | HE | 149 | 325 | IAML | | 2131 | 58.44 | | | 0.90 | 0.1 | | | | |
| GRNL | CZ | 191 | 323 | EP | | 2131 | 46.060 | .040 | | | | | | | 1.0 |
| GRNL | CN | 191 | 323 | ES | | 2132 | 6.00 | -.010 | | | | | | | 1.0 |
| GRNL | CN | 191 | 323 | IAML | | 2132 | 6.85 | | | 1 | 0.1 | | | | |

December 4 2023 Hour: 5: 8 35.4 Lat: 8.83N Lon: 126.69E Depth: 25F Agency: IGL Distant
Magnitudes: 5.3Ms IGL Rms: 0.0 secs

MINDANAO, PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ13061 | 321 | | EPP | | 528 | 29.70 | -.000 | | | | | | | 1.0 |
| MESJ | BZ13061 | 321 | | IAMs_20 | | 622 | 23.89 | | | 387 | 16.7 | | | | |
| GRNL | BZ13067 | 321 | | EPP | | 528 | 30.050 | .000 | | | | | | | 1.0 |
| GRNL | BZ13067 | 321 | | IAMs_20 | | 622 | 17.93 | | | 1428 | 19.9 | | | | |

December 4 2023 Hour: 5:38 27.9 Lat: 43.07N Lon: 9.16W Depth: 1F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 553 | 175 | EP | | 539 | 41.580 | .040 | | | | | | | 1.0 |
| MESJ | HZ | 586 | 172 | EP | | 539 | 45.570 | .020 | | | | | | | 1.0 |
| MORF | HZ | 642 | 176 | EP | | 539 | 52.24 | -.060 | | | | | | | 0.9 |

December 4 2023 Hour: 12:19 25.1 Lat: 27.28N Lon: 66.32E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

PAKISTAN Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 6943 | 301 | EP | | 1229 | 48.26 | -.000 | | | | | | | 1.0 |
| GRNL | BZ | 6943 | 301 | IAMB | | 1229 | 49.76 | | | 59 | 1.3 | | | | |

December 4 2023 Hour: 18:25 58.7 Lat: 37.33N Lon: 8.55W Depth: 12F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 10 | 253 | EP | | 1826 | 1.08 | -.160 | | | | | | | 1.0 |
| MORF | HE | 10 | 253 | ES | | 1826 | 3.240 | .110 | | | | | | | 1.0 |
| MORF | HE | 10 | 253 | IAML | | 1826 | 3.61 | | | 72 | 0.1 | | | | |
| GRNL | CE | 86 | 359 | ES | | 1826 | 22.500 | .060 | | | | | | | 1.0 |
| GRNL | CE | 86 | 359 | IAML | | 1826 | 23.40 | | | 3 | 0.1 | | | | |

December 4 2023 Hour: 23:27 1.0 Lat: 36.52N Lon: 7.72W Depth: 17F Agency: IGL Regional
Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 120 | 317 | EP | | 2327 | 19.870 | .130 | | | | | | | 1.0 |
| MESJ | HZ | 153 | 343 | EP | | 2327 | 23.790 | .010 | | | | | | | 1.0 |
| GRNL | CZ | 191 | 337 | EP | | 2327 | 28.41 | -.160 | | | | | | | 1.0 |

December 5 2023 Hour: 7:31 33.9 Lat: 12.29N Lon: 47.44E Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.0 secs

GULF OF ADEN Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6183 | 308 | EP | | 741 | 9.510 | .030 | | | | | | | 1.0 |
| MORF | BZ | 6209 | 307 | EP | | 741 | 11.17 | -.020 | | | | | | | 1.0 |
| MORF | BZ | 6209 | 307 | IAMB | | 741 | 13.51 | | | 199 | 1.8 | | | | |
| GRNL | BZ | 6219 | 308 | EP | | 741 | 11.80 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 6219 | 308 | IAMB | | 741 | 13.34 | | | 96 | 1.4 | | | | |

December 5 2023 Hour: 12:0 3.3 Lat: 36.31N Lon: 8.22W Depth: 29F Agency: IGL Regional
Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 117 | 341 | EP | | 12 0 | 20.58 | -.080 | | | | | | | 1.0 |
| MESJ | HZ | 170 | 0 | EP | | 12 0 | 27.240 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 202 | 351 | EP | | 12 0 | 31.230 | .040 | | | | | | | 1.0 |

December 5 2023 Hour: 13:36 39.8 Lat: 9.13N Lon: 126.87E Depth: 35F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs

MINDANAO PHILIPPINES Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ13048 | 321 | EPP | | | 1356 | 32.060 | .160 | | | | | | | 1.0 |
| GRNL | BZ13054 | 321 | EPP | | | 1356 | 32.19 | -.030 | | | | | | | 1.0 |
| GRNL | BZ13054 | 321 | IAMS_20 | | | 1456 | 44.04 | | | 1427 | 14.8 | | | | |
| MORF | BZ13115 | 321 | EPP | | | 1356 | 36.01 | -.130 | | | | | | | 1.0 |
| MORF | BZ13115 | 321 | IAMS_20 | | | 1456 | 58.72 | | | 1661 | 18.2 | | | | |

December 5 2023 Hour: 17:43 8.9 Lat: 38.11N Lon: 8.52W Depth: 18F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SE GRANDOLA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 5 | 273 | EP | | 1743 | 11.830 | .010 | | | | | | | 1.0 |
| GRNL | CN | 5 | 273 | ES | | 1743 | 14.070 | .080 | | | | | | | 1.0 |
| GRNL | CE | 5 | 273 | IAML | | 1743 | 14.42 | | | 72 | 0.1 | | | | |
| MESJ | HZ | 39 | 139 | EP | | 1743 | 15.710 | .000 | | | | | | | 1.0 |
| MESJ | HE | 39 | 139 | ES | | 1743 | 20.61 | -.100 | | | | | | | 1.0 |

December 5 2023 Hour: 22:1 41.0 Lat: 36.68N Lon: 9.68W Depth: 17F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 114 | 53 | EP | | 22 1 | 58.96 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 186 | 31 | ES | | 22 2 | 27.600 | .060 | | | | | | | 1.0 |
| GRNL | CE | 186 | 31 | IAML | | 22 2 | 28.49 | | | 1 | 0.1 | | | | |

December 6 2023 Hour: 1:43 29.8 Lat: 36.76N Lon: 9.69W Depth: 23F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 110 | 57 | EP | | 143 | 46.95 | -.140 | | | | | | | 1.0 |
| MORF | HE | 110 | 57 | ES | | 143 | 59.67 | -.050 | | | | | | | 1.0 |
| MORF | HN | 110 | 57 | IAML | | 144 | 0.74 | | | 2 | 0.1 | | | | |
| GRNL | CE | 180 | 33 | ES | | 144 | 14.690 | .200 | | | | | | | 1.0 |
| GRNL | CN | 180 | 33 | IAML | | 144 | 16.23 | | | 1 | 0.1 | | | | |

December 6 2023 Hour: 2:50 54.3 Lat: 36.99N Lon: 13.57W Depth: 10F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 439 | 84 | EP | | 251 | 48.77 | -.140 | | | | | | | 1.0 |
| GRNL | CZ | 459 | 73 | EP | | 251 | 51.31 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 459 | 73 | ES | | 252 | 33.34 | 0.240 | | | | | | | 1.0 |
| GRNL | CN | 459 | 73 | IAML | | 252 | 36.52 | | | 3 | 0.1 | | | | |

December 6 2023 Hour: 9:3 54.0 Lat: 31.10N Lon: 8.27W Depth: 4F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 689 | 357 | EP | | 9 5 | 25.70 | 0.130 | | | | | | | 1.0 |
| MORF | HE | 689 | 357 | ES | | 9 6 | 32.22 | -.200 | | | | | | | 1.0 |
| MORF | HN | 689 | 357 | IAML | | 9 6 | 37.20 | | | 5 | 0.1 | | | | |
| GRNL | CZ | 778 | 358 | EP | | 9 5 | 36.52 | 0.080 | | | | | | | 0.9 |

December 6 2023 Hour: 10:22 27.4 Lat: 31.25N Lon: 8.24W Depth: 6F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.0 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 673 | 357 | EP | | 1023 | 56.71 | -.010 | | | | | | | 1.0 |
| GRNL | CZ | 762 | 358 | EP | | 1024 | 7.69 | 0.010 | | | | | | | 0.9 |

December 6 2023 Hour: 16:7 3.8 Lat: 36.99N Lon: 13.40W Depth: 10F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 423 | 84 | EP | | 16 7 | 56.44 | 0.010 | | | | | | | 1.0 |
| MORF | HN | 423 | 84 | ES | | 16 8 | 34.92 | 0.030 | | | | | | | 1.0 |
| MORF | HN | 423 | 84 | IAML | | 16 8 | 36.04 | | | 8 | 0.2 | | | | |
| GRNL | CZ | 444 | 72 | EP | | 16 7 | 58.80 | -.200 | | | | | | | 1.0 |
| GRNL | CN | 444 | 72 | ES | | 16 8 | 39.53 | 0.200 | | | | | | | 1.0 |
| GRNL | CN | 444 | 72 | IAML | | 16 8 | 45.96 | | | 13 | 0.2 | | | | |
| MESJ | HZ | 468 | 77 | EP | | 16 8 | 1.72 | -.180 | | | | | | | 1.0 |
| MESJ | HN | 468 | 77 | ES | | 16 8 | 44.49 | 0.140 | | | | | | | 1.0 |

December 7 2023 Hour: 2:44 23.5 Lat: 37.28N Lon: 8.57W Depth: 8F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 8 | 289 | EP | | 244 | 25.24 | -.150 | | | | | | | 1.0 |
| MORF | HN | 8 | 289 | ES | | 244 | 26.93 | 0.150 | | | | | | | 1.0 |
| MORF | HN | 8 | 289 | IAML | | 244 | 27.31 | | | 12 | 0.1 | | | | |

December 7 2023 Hour: 4:15 41.2 Lat: 41.15N Lon: 49.61E Depth: 56F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.2 secs

CASPIAN SEA, OFF SHORE AZERBAIJAN Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 4896 | 285 | EP | | 423 | 43.25 | -.100 | | | | | | | 1.0 |
| GRNL | BZ | 4913 | 286 | EP | | 423 | 44.71 | 0.190 | | | | | | | 1.0 |
| GRNL | BZ | 4913 | 286 | IAMB | | 423 | 45.77 | | | 73 | 0.7 | | | | |
| GGNV | BZ | 4933 | 287 | EP | | 423 | 46.07 | 0.100 | | | | | | | 1.0 |
| GGNV | BZ | 4933 | 287 | IAMB | | 423 | 48.07 | | | 160 | 0.9 | | | | |
| MORF | BZ | 4955 | 285 | EP | | 423 | 47.43 | -.200 | | | | | | | 1.0 |
| MORF | BZ | 4955 | 285 | IAMB | | 423 | 49.07 | | | 28 | 0.8 | | | | |

December 7 2023 Hour: 10:48 5.9 Lat: 35.17N Lon: 9.27W Depth: 41F Agency: IGL Regional
Magnitudes: 3.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 243 | 13 | EP | | 1048 | 38.88 | -.030 | | | | | | | 1.0 |
| MORF | HN | 243 | 13 | ES | | 1049 | 2.86 | -.130 | | | | | | | 1.0 |
| MORF | HN | 243 | 13 | IAML | | 1049 | 4.45 | | 294 | 0.1 | | | | | |
| MESJ | HZ | 310 | 17 | EP | | 1048 | 47.320 | .120 | | | | | | | 1.0 |
| MESJ | HN | 310 | 17 | ES | | 1049 | 17.390 | .060 | | | | | | | 1.0 |
| GRNL | CZ | 332 | 11 | EP | | 1048 | 49.60 | -.170 | | | | | | | 1.0 |
| GRNL | CN | 332 | 11 | ES | | 1049 | 21.890 | .120 | | | | | | | 1.0 |
| GRNL | CN | 332 | 11 | IAML | | 1049 | 24.62 | | 182 | 0.1 | | | | | |
| GGNV | HZ | 393 | 2 | EP | | 1048 | 57.09 | -.140 | | | | | | | 0.9 |
| GGNV | HN | 393 | 2 | ES | | 1049 | 34.870 | .180 | | | | | | | 0.9 |
| GGNV | HN | 393 | 2 | IAML | | 1049 | 37.20 | | 253 | 0.2 | | | | | |

December 7 2023 Hour: 11:28 39.9 Lat: 31.13N Lon: 8.27W Depth: 27F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 685 | 357 | EP | | 1130 | 8.77 | -.020 | | | | | | | 1.0 |
| MORF | HN | 685 | 357 | ES | | 1131 | 13.64 | -.070 | | | | | | | 1.0 |
| MORF | HE | 685 | 357 | IAML | | 1131 | 19.84 | | 14 | 0.3 | | | | | |
| GRNL | CZ | 774 | 358 | EP | | 1130 | 19.590 | .110 | | | | | | | 0.9 |

December 7 2023 Hour: 12:56 30.8 Lat: 20.66S Lon: 169.21E Depth: 48F Agency: IGL Distant
Magnitudes: 7.2Ms IGL Rms: 0.2 secs

VANUATU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|-------|------|------|-----|------|------|-----|
| GGNV | BZ18021 | 356 | EPKPdf | | | 1316 | 26.290 | .290 | | | | | | | 1.0 |
| GGNV | BZ18021 | 356 | IAMs_20 | | | 1430 | 41.82 | | 62025 | 17.4 | | | | | |
| GRNL | BZ18083 | 354 | EPKPdf | | | 1316 | 26.680 | .090 | | | | | | | 1.0 |
| GRNL | BZ18083 | 354 | EPKPab | | | 1317 | 14.82 | -.290 | | | | | | | 1.0 |
| GRNL | BZ18083 | 354 | EPP | | | 1320 | 59.66 | -.040 | | | | | | | 1.0 |
| GRNL | BZ18083 | 354 | IAMs_20 | | | 1429 | 8.44 | | 42143 | 20.3 | | | | | |
| MESJ | BZ18108 | 353 | EPKPdf | | | 1316 | 26.980 | .150 | | | | | | | 1.0 |
| MESJ | BZ18108 | 353 | EPKPab | | | 1317 | 15.91 | -.230 | | | | | | | 1.0 |
| MESJ | BZ18108 | 353 | EPP | | | 1321 | 1.080 | .150 | | | | | | | 1.0 |
| MESJ | BZ18108 | 353 | IAMs_20 | | | 1429 | 38.55 | | 15246 | 22.3 | | | | | |
| MORF | BZ18172 | 354 | EPKPdf | | | 1316 | 27.630 | .180 | | | | | | | 1.0 |
| MORF | BZ18172 | 354 | EPKPab | | | 1317 | 18.35 | -.370 | | | | | | | 1.0 |
| MORF | BZ18172 | 354 | EPP | | | 1321 | 4.080 | .060 | | | | | | | 1.0 |
| MORF | BZ18172 | 354 | IAMs_20 | | | 1430 | 7.40 | | 45958 | 20.0 | | | | | |

December 7 2023 Hour: 20:3 38.1 Lat: 18.39N Lon: 98.55W Depth: 44F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

PUEBLA, MEXICO Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 8778 | 54 | EP | | 2015 | 36.76 | -.160 | | | | | | | 1.0 |
| GRNL | BZ | 8778 | 54 | IAMB | | 2015 | 39.06 | | 47 | 1.0 | | | | | |
| MORF | BZ | 8793 | 54 | EP | | 2015 | 37.790 | .040 | | | | | | | 1.0 |
| MORF | BZ | 8793 | 54 | IAMB | | 2015 | 39.71 | | 54 | 1.0 | | | | | |
| MESJ | BZ | 8815 | 54 | EP | | 2015 | 38.880 | .110 | | | | | | | 1.0 |
| MESJ | BZ | 8815 | 54 | IAMB | | 2015 | 40.89 | | 111 | 1.8 | | | | | |

December 7 2023 Hour: 21:15 21.8 Lat: 37.13N Lon: 9.14W Depth: 30F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 48 | 66 | EP | | 2115 | 30.670 | .180 | | | | | | | 1.0 |
| MORF | HE | 48 | 66 | ES | | 2115 | 36.79 | -.010 | | | | | | | 1.0 |
| MORF | HN | 48 | 66 | IAML | | 2115 | 37.65 | | 4 | 0.1 | | | | | |
| GRNL | CN | 120 | 25 | ES | | 2115 | 52.26 | -.190 | | | | | | | 1.0 |

GRNL CN 120 25 IAML 2115 52.85 2 0.1

**December 7 2023 Hour: 22:23 46.6 Lat: 36.61N Lon: 9.79W Depth: 14F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 127 | 52 | EP | | 2224 | 6.520 | .010 | | | | | | | 1.0 |
| MORF | HN | 127 | 52 | ES | | 2224 | 20.94 | -.090 | | | | | | | 1.0 |
| MORF | HE | 127 | 52 | IAML | | 2224 | 23.68 | | 20 | 0.1 | | | | | |
| MESJ | HZ | 195 | 45 | EP | | 2224 | 14.950 | .050 | | | | | | | 1.0 |
| MESJ | HN | 195 | 45 | ES | | 2224 | 35.550 | .000 | | | | | | | 1.0 |
| MESJ | HN | 195 | 45 | IAML | | 2224 | 36.38 | | 3 | 0.2 | | | | | |
| GRNL | CZ | 198 | 33 | EP | | 2224 | 15.23 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 198 | 33 | ES | | 2224 | 36.410 | .140 | | | | | | | 1.0 |
| GRNL | CN | 198 | 33 | IAML | | 2224 | 37.55 | | 9 | 0.1 | | | | | |

**December 8 2023 Hour: 0:41 2.8 Lat: 8.42S Lon: 157.15E Depth: 10F Agency: IGL Distant
Rms: 0.1 secs**

SOLOMON ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ16447 | 339 | EPKP | | | 1 0 | 44.400 | .100 | | | | | | | 1.0 |
| MESJ | BZ16459 | 338 | EPKP | | | 1 0 | 44.490 | .000 | | | | | | | 1.0 |
| MORF | BZ16529 | 338 | EPKP | | | 1 0 | 45.46 | -.110 | | | | | | | 1.0 |

**December 8 2023 Hour: 2:49 48.8 Lat: 37.39N Lon: 7.90W Depth: 1F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.2 secs**

SE ALMODOVAR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 57 | 331 | EP | | 249 | 58.210 | .100 | | | | | | | 1.0 |
| MESJ | HE | 57 | 331 | ES | | 250 | 4.85 | -.030 | | | | | | | 1.0 |
| MESJ | HN | 57 | 331 | IAML | | 250 | 7.06 | | 6 | 0.1 | | | | | |
| MORF | HZ | 67 | 262 | EP | | 249 | 59.820 | .140 | | | | | | | 1.0 |
| MORF | HN | 67 | 262 | ES | | 250 | 7.620 | .030 | | | | | | | 1.0 |
| MORF | HN | 67 | 262 | IAML | | 250 | 8.75 | | 20 | 0.2 | | | | | |
| GRNL | CZ | 99 | 324 | EP | | 250 | 4.45 | -.400 | | | | | | | 1.0 |
| GRNL | CN | 99 | 324 | ES | | 250 | 16.680 | .140 | | | | | | | 1.0 |
| GRNL | CN | 99 | 324 | IAML | | 250 | 19.45 | | 19 | 0.2 | | | | | |

**December 8 2023 Hour: 6: 4 1.3 Lat: 36.77N Lon: 5.39W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs**

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 277 | 296 | EP | | 6 4 | 40.900 | .020 | | | | | | | 1.0 |
| GRNL | CZ | 318 | 299 | EP | | 6 4 | 45.90 | -.020 | | | | | | | 1.0 |

**December 8 2023 Hour: 7:19 56.1 Lat: 20.39S Lon: 169.49E Depth: 46F Agency: IGL Distant
Rms: 0.1 secs**

VANUATU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ18056 | 355 | EPKP | | | 739 | 51.80 | -.070 | | | | | | | 1.0 |
| MESJ | BZ18082 | 354 | EPKP | | | 739 | 52.270 | .150 | | | | | | | 1.0 |
| MORF | BZ18145 | 355 | EPKP | | | 739 | 52.66 | -.080 | | | | | | | 1.0 |

**December 8 2023 Hour: 13: 2 29.5 Lat: 36.70N Lon: 7.20W Depth: 19F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 146 | 298 | EP | | 13 2 | 51.04 | -.230 | | | | | | | 1.0 |
| MORF | HN | 146 | 298 | ES | | 13 3 | 7.220 | .070 | | | | | | | 1.0 |
| MORF | HN | 146 | 298 | IAML | | 13 3 | 8.39 | | 7 | 0.2 | | | | | |
| MESJ | HZ | 156 | 325 | EP | | 13 2 | 52.500 | .050 | | | | | | | 1.0 |
| MESJ | HN | 156 | 325 | ES | | 13 3 | 9.250 | .050 | | | | | | | 1.0 |
| GRNL | CZ | 198 | 323 | EP | | 13 2 | 57.840 | .140 | | | | | | | 1.0 |
| GRNL | CN | 198 | 323 | ES | | 13 3 | 18.21 | -.070 | | | | | | | 1.0 |

GRNL CN 198 323 IAML 13 3 19.17 10 0.5

**December 8 2023 Hour: 15: 5 9.4 Lat: 37.33N Lon: 8.57W Depth: 15F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs**

NW MONCHIQUÉ, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|------|------|-------|------|--------|------|------|-----|------|------|-----|
| MORF | HZ | | 8 | 249 | EP | | 15 | 5 | 12.02 | | | | | | 1.0 |
| MORF | HN | | 8 | 249 | ES | | 15 | 5 | 14.360 | | | | | | 1.0 |
| MORF | HN | | 8 | 249 | IAML | | 15 | 5 | 15.09 | | 77 | | | 0.1 | |

**December 8 2023 Hour: 15:27 27.9 Lat: 6.51S Lon: 153.33E Depth: 10F Agency: IGL Distant
Rms: 0.1 secs**

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | BZ16086 | | 335 | EPKP | | 1547 | 4.050 | 0.080 | | | | | | | 1.0 |
| MESJ | BZ16095 | | 334 | EPKP | | 1547 | 4.04 | -0.080 | | | | | | | 1.0 |

**December 8 2023 Hour: 17:44 58.3 Lat: 36.44N Lon: 7.91W Depth: 34F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|------|------|-------|--------|------|------|------|-----|------|------|-----|
| MORF | HZ | | 117 | 326 | EP | | 1745 | 15.41 | | | | | | | 1.0 |
| MORF | HE | | 117 | 326 | ES | | 1745 | 28.340 | | | | | | | 1.0 |
| MORF | HE | | 117 | 326 | IAML | | 1745 | 29.27 | | 4 | | | | 0.1 | |
| GRNL | CZ | | 195 | 343 | EP | | 1745 | 25.260 | | | | | | | 1.0 |

**December 9 2023 Hour: 0:54 41.9 Lat: 36.69N Lon: 9.65W Depth: 19F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|------|------|-------|--------|------|------|------|-----|------|------|-----|
| MORF | HZ | | 111 | 52 | EP | | 054 | 59.18 | | | | | | | 1.0 |
| MORF | HN | | 111 | 52 | ES | | 055 | 12.250 | | | | | | | 1.0 |
| MORF | HE | | 111 | 52 | IAML | | 055 | 12.83 | | 4 | | | | 0.1 | |
| GRNL | CZ | | 184 | 31 | EP | | 055 | 8.17 | | | | | | | 1.0 |
| GRNL | CN | | 184 | 31 | ES | | 055 | 27.680 | | | | | | | 1.0 |
| GRNL | CN | | 184 | 31 | IAML | | 055 | 30.07 | | 3 | | | | 0.1 | |

**December 9 2023 Hour: 6:31 35.3 Lat: 36.22N Lon: 8.11W Depth: 19F Agency: IGL Regional
Rms: 0.0 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|----|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | | 129 | 338 | EP | | 631 | 55.03 | | | | | | | 1.0 |

**December 9 2023 Hour: 7:52 37.2 Lat: 37.27N Lon: 7.97W Depth: 11F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs**

NW S.BRAS DE ALPORTEL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|------|------|-------|--------|------|------|------|-----|------|------|-----|
| MORF | HZ | | 61 | 274 | EP | | 752 | 47.06 | | | | | | | 1.0 |
| MORF | HN | | 61 | 274 | ES | | 752 | 54.540 | | | | | | | 1.0 |
| MORF | HE | | 61 | 274 | IAML | | 752 | 56.04 | | 4 | | | | 0.1 | |

**December 9 2023 Hour: 8: 9 11.1 Lat: 35.98N Lon: 8.60W Depth: 20F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|------|------|-------|------|--------|------|------|-----|------|------|-----|
| MORF | HZ | | 147 | 358 | EP | | 8 | 9 | 32.80 | | | | | | 1.0 |
| MORF | HN | | 147 | 358 | ES | | 8 | 9 | 48.960 | | | | | | 1.0 |
| MORF | HE | | 147 | 358 | IAML | | 8 | 9 | 49.79 | | 6 | | | 0.2 | |
| MESJ | HZ | | 209 | 9 | EP | | 8 | 9 | 40.52 | | | | | | 1.0 |
| GRNL | CZ | | 236 | 1 | EP | | 8 | 9 | 43.970 | | | | | | 1.0 |

December 9 2023 Hour: 11:35 15.4 Lat: 36.79N Lon: 9.71W Depth: 13F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 110 | 58 | EP | | 1135 | 32.850 | .130 | | | | | | | 1.0 |
| MESJ | HZ | 176 | 48 | EP | | 1135 | 41.30 | -.080 | | | | | | | 1.0 |
| MESJ | HE | 176 | 48 | ES | | 1136 | 0.29 | -.070 | | | | | | | 1.0 |
| MESJ | HE | 176 | 48 | IAML | | 1136 | 1.67 | | 1 | 0.1 | | | | | |
| GRNL | CZ | 178 | 34 | EP | | 1135 | 41.45 | -.140 | | | | | | | 1.0 |
| GRNL | CN | 178 | 34 | ES | | 1136 | 0.880 | .160 | | | | | | | 1.0 |
| GRNL | CE | 178 | 34 | IAML | | 1136 | 1.84 | | 4 | 0.1 | | | | | |

December 9 2023 Hour: 17:13 36.6 Lat: 37.98N Lon: 9.05W Depth: 11F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

W SINES, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 45 | 71 | EP | | 1713 | 44.020 | .010 | | | | | | | 1.0 |
| GRNL | CN | 45 | 71 | ES | | 1713 | 49.570 | .140 | | | | | | | 1.0 |
| GRNL | CE | 45 | 71 | IAML | | 1713 | 50.59 | | 11 | 0.1 | | | | | |
| MESJ | HZ | 75 | 101 | EP | | 1713 | 48.56 | -.040 | | | | | | | 1.0 |
| MESJ | HN | 75 | 101 | ES | | 1713 | 57.550 | .170 | | | | | | | 1.0 |
| MESJ | HN | 75 | 101 | IAML | | 1713 | 58.23 | | 4 | 0.1 | | | | | |
| MORF | HZ | 82 | 155 | EP | | 1713 | 49.64 | -.160 | | | | | | | 1.0 |
| MORF | HN | 82 | 155 | ES | | 1713 | 59.34 | -.120 | | | | | | | 1.0 |
| MORF | HN | 82 | 155 | IAML | | 1714 | 0.65 | | 7 | 0.1 | | | | | |

December 9 2023 Hour: 17:53 14.2 Lat: 36.64N Lon: 8.87W Depth: 23F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 76 | 15 | EP | | 1753 | 26.700 | .220 | | | | | | | 1.0 |
| MORF | HE | 76 | 15 | ES | | 1753 | 35.44 | -.010 | | | | | | | 1.0 |
| MORF | HE | 76 | 15 | IAML | | 1753 | 36.53 | | 126 | 0.1 | | | | | |
| MESJ | HZ | 145 | 23 | EP | | 1753 | 35.60 | -.100 | | | | | | | 1.0 |
| MESJ | HE | 145 | 23 | ES | | 1753 | 51.400 | .010 | | | | | | | 1.0 |
| GRNL | CZ | 165 | 9 | EP | | 1753 | 38.04 | -.140 | | | | | | | 1.0 |

December 9 2023 Hour: 18:34 37.0 Lat: 56.68N Lon: 34.32W Depth: 12F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.1 secs

REYKJANES RIDGE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 2843 | 126 | EP | | 1840 | 6.060 | .130 | | | | | | | 1.0 |
| MESJ | BZ | 2843 | 126 | IAMB | | 1840 | 8.95 | | 38 | 1.3 | | | | | |
| MORF | BZ | 2872 | 128 | EP | | 1840 | 8.14 | -.130 | | | | | | | 1.0 |
| MORF | BZ | 2872 | 128 | IAMB | | 1840 | 12.27 | | 15 | 1.1 | | | | | |

December 9 2023 Hour: 22:5 31.6 Lat: 38.81N Lon: 7.97W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE ARRAIOLOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 94 | 214 | EP | | 22 5 | 46.630 | .100 | | | | | | | 1.0 |
| GRNL | CN | 94 | 214 | ES | | 22 5 | 57.30 | -.110 | | | | | | | 1.0 |
| GRNL | CE | 94 | 214 | IAML | | 22 5 | 58.70 | | 6 | 0.2 | | | | | |
| MESJ | HE | 110 | 192 | ES | | 22 6 | 1.630 | .010 | | | | | | | 1.0 |
| MESJ | HE | 110 | 192 | IAML | | 22 6 | 2.56 | | 1 | 0.1 | | | | | |

December 9 2023 Hour: 23:41 13.4 Lat: 36.60N Lon: 12.69W Depth: 38F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 368 | 77 | EP | | 2341 | 59.40 | -.120 | | | | | | | 1.0 |
| MORF | HE | 368 | 77 | ES | | 2342 | 33.320 | .110 | | | | | | | 1.0 |
| MORF | HE | 368 | 77 | IAML | | 2342 | 34.35 | | 2 | 0.1 | | | | | |

| | | | | | | | | | | | | | | | | | |
|------|----|-----|----|------|------|--------|-------|--|--|------|-----|--|--|--|--|--|-----|
| GRNL | CZ | 402 | 64 | EP | 2342 | 3.630 | .060 | | | | | | | | | | 1.0 |
| GRNL | CN | 402 | 64 | ES | 2342 | 40.09 | -.120 | | | | | | | | | | 1.0 |
| GRNL | CE | 402 | 64 | IAML | 2342 | 42.35 | | | | 2 | 0.1 | | | | | | |
| MESJ | HE | 420 | 70 | ES | 2342 | 44.170 | .070 | | | | | | | | | | 1.0 |
| MESJ | HN | 420 | 70 | IAML | 2342 | 46.49 | | | | 0.80 | 0.1 | | | | | | |

**December 10 2023 Hour: 1:31 24.2 Lat: 56.64N Lon: 34.29W Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs**

REYKJANES RIDGE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 2797 | 126 | EP | | 136 | 49.60 | -.040 | | | | | | | 1.0 |
| GRNL | BZ | 2797 | 126 | IAMB | | 136 | 50.19 | | | 31 | 1.0 | | | | |
| MESJ | BZ | 2839 | 126 | EP | | 136 | 53.140 | .060 | | | | | | | 1.0 |
| MESJ | BZ | 2839 | 126 | IAMB | | 136 | 54.69 | | | 123 | 1.7 | | | | |
| MORF | BZ | 2867 | 128 | EP | | 136 | 55.41 | -.010 | | | | | | | 1.0 |
| MORF | BZ | 2867 | 128 | IAMB | | 136 | 56.13 | | | 81 | 1.4 | | | | |

**December 10 2023 Hour: 1:35 21.3 Lat: 36.96N Lon: 13.43W Depth: 0 Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.0 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 426 | 83 | EP | | 136 | 15.210 | .030 | | | | | | | 1.0 |
| GRNL | CZ | 448 | 72 | EP | | 136 | 17.830 | .020 | | | | | | | 1.0 |
| GRNL | CN | 448 | 72 | ES | | 136 | 59.050 | .010 | | | | | | | 1.0 |
| GRNL | CE | 448 | 72 | IAML | | 137 | 0.81 | | | 11 | 0.2 | | | | |
| MESJ | HZ | 472 | 76 | EP | | 136 | 20.64 | -.050 | | | | | | | 1.0 |

**December 10 2023 Hour: 3:15 22.5 Lat: 37.05N Lon: 3.83W Depth: 0 Agency: IGL Regional
Rms: 0.1 secs**

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 398 | 284 | EP | | 316 | 17.34 | -.090 | | | | | | | 1.0 |
| GRNL | CZ | 435 | 287 | EP | | 316 | 22.030 | .090 | | | | | | | 1.0 |

**December 10 2023 Hour: 3:57 33.0 Lat: 36.83N Lon: 13.69W Depth: 31F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 451 | 82 | EP | | 358 | 29.11 | -.120 | | | | | | | 1.0 |
| MORF | HN | 451 | 82 | ES | | 359 | 10.400 | .090 | | | | | | | 1.0 |
| MORF | HN | 451 | 82 | IAML | | 359 | 13.08 | | | 2 | 0.1 | | | | |
| GRNL | CZ | 475 | 71 | EP | | 358 | 31.92 | -.150 | | | | | | | 1.0 |
| GRNL | CE | 475 | 71 | ES | | 359 | 15.520 | .300 | | | | | | | 1.0 |
| GRNL | CN | 475 | 71 | IAML | | 359 | 19.04 | | | 2 | 0.1 | | | | |
| MESJ | HZ | 498 | 75 | EP | | 358 | 34.75 | -.130 | | | | | | | 1.0 |

**December 10 2023 Hour: 6: 4 11.8 Lat: 31.00N Lon: 8.46W Depth: 24F Agency: IGL Regional
Rms: 0.0 secs**

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 700 | 359 | EP | | 6 5 | 43.29 | -.030 | | | | | | | 1.0 |
| MESJ | HZ | 759 | 2 | EP | | 6 5 | 50.590 | .040 | | | | | | | 1.0 |

**December 10 2023 Hour: 11:40 33.6 Lat: 14.28S Lon: 76.35W Depth: 12F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs**

NEAR COAST OF CENTRAL PERU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9086 | 48 | EP | | 1152 | 51.69 | -.150 | | | | | | | 1.0 |
| MORF | BZ | 9086 | 48 | IAMB | | 1152 | 54.97 | | | 61 | 1.4 | | | | |
| GRNL | BZ | 9130 | 48 | EP | | 1152 | 53.970 | .100 | | | | | | | 1.0 |
| GRNL | BZ | 9130 | 48 | IAMB | | 1152 | 57.43 | | | 73 | 1.7 | | | | |
| MESJ | BZ | 9145 | 48 | EP | | 1152 | 54.640 | .040 | | | | | | | 1.0 |
| MESJ | BZ | 9145 | 48 | IAMB | | 1152 | 58.38 | | | 101 | 1.9 | | | | |

December 10 2023 Hour: 11:52 50.0 Lat: 14.35S Lon: 76.46W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Mb IGL Rms: 0.1 secs

NEAR COAST OF CENTRAL PERU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9100 | 48 | EP | | 12 5 | 9.470 | .190 | | | | | | | 1.0 |
| MORF | BZ | 9100 | 48 | IAmb | | 12 5 | 12.40 | | | 446 | 2.0 | | | | |
| GRNL | BZ | 9145 | 48 | EP | | 12 5 | 11.27 | -.040 | | | | | | | 1.0 |
| GRNL | BZ | 9145 | 48 | IAmb | | 12 5 | 15.02 | | | 255 | 1.9 | | | | |
| GRNL | BE | 9145 | 48 | ES | | 1215 | 26.89 | -.210 | | | | | | | 1.0 |
| MESJ | BZ | 9160 | 48 | EP | | 12 5 | 11.98 | -.060 | | | | | | | 1.0 |
| MESJ | BZ | 9160 | 48 | IAmb | | 12 5 | 15.80 | | | 129 | 1.5 | | | | |
| MESJ | BN | 9160 | 48 | ES | | 1215 | 28.570 | .040 | | | | | | | 1.0 |

December 10 2023 Hour: 17:14 60.0 Lat: 36.98N Lon: 10.74W Depth: 32F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 189 | 79 | EP | | 1715 | 26.380 | .100 | | | | | | | 1.0 |
| MORF | HE | 189 | 79 | ES | | 1715 | 45.27 | -.200 | | | | | | | 1.0 |
| MORF | HE | 189 | 79 | IAML | | 1715 | 46.39 | | | 19 | 0.2 | | | | |
| GRNL | CZ | 229 | 56 | EP | | 1715 | 31.410 | .210 | | | | | | | 1.0 |
| GRNL | CN | 229 | 56 | ES | | 1715 | 53.93 | -.060 | | | | | | | 1.0 |
| GRNL | CN | 229 | 56 | IAML | | 1715 | 56.23 | | | 29 | 0.2 | | | | |
| MESJ | HZ | 243 | 66 | EP | | 1715 | 32.85 | -.050 | | | | | | | 1.0 |
| MESJ | HE | 243 | 66 | ES | | 1715 | 56.940 | .010 | | | | | | | 1.0 |
| MESJ | HE | 243 | 66 | IAML | | 1715 | 59.25 | | | 5 | 0.2 | | | | |

December 10 2023 Hour: 21:25 49.1 Lat: 35.47N Lon: 3.62W Depth: 3F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 488 | 304 | EP | | 2126 | 54.710 | .010 | | | | | | | 1.0 |
| GRNL | CZ | 530 | 305 | EP | | 2126 | 59.74 | -.010 | | | | | | | 1.0 |

December 10 2023 Hour: 23:42 17.5 Lat: 35.36N Lon: 9.72W Depth: 31F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 236 | 24 | EP | | 2342 | 48.84 | -.100 | | | | | | | 1.0 |
| MORF | HN | 236 | 24 | ES | | 2343 | 11.950 | .100 | | | | | | | 1.0 |
| MORF | HE | 236 | 24 | IAML | | 2343 | 12.53 | | | 3 | 0.1 | | | | |

December 11 2023 Hour: 1:20 55.9 Lat: 36.78N Lon: 8.42W Depth: 9F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 62 | 340 | EP | | 121 | 5.79 | -.160 | | | | | | | 1.0 |
| MORF | HN | 62 | 340 | ES | | 121 | 13.330 | .050 | | | | | | | 1.0 |
| MORF | HN | 62 | 340 | IAML | | 121 | 14.06 | | | 3 | 0.1 | | | | |
| GRNL | CN | 148 | 355 | ES | | 121 | 35.600 | .110 | | | | | | | 1.0 |
| GRNL | CN | 148 | 355 | IAML | | 121 | 36.55 | | | 3 | 0.1 | | | | |

December 11 2023 Hour: 1:50 51.3 Lat: 36.63N Lon: 7.67W Depth: 22F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 116 | 311 | EP | | 151 | 8.92 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 143 | 340 | ES | | 151 | 27.970 | .090 | | | | | | | 1.0 |
| MESJ | HE | 143 | 340 | IAML | | 151 | 29.74 | | | 0.80 | 0.1 | | | | |

December 11 2023 Hour: 2: 5 6.8 Lat: 36.53N Lon: 11.00W Depth: 14F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 226 | 67 | EP | | 2 5 | 38.970 | .010 | | | | | | | 1.0 |
| GRNL | CZ | 278 | 50 | EP | | 2 5 | 45.22 | -.120 | | | | | | | 1.0 |
| GRNL | CN | 278 | 50 | ES | | 2 6 | 13.610 | .110 | | | | | | | 1.0 |
| GRNL | CN | 278 | 50 | IAML | | 2 6 | 20.85 | | | 7 | 0.4 | | | | |

December 11 2023 Hour: 2:28 3.8 Lat: 56.71N Lon: 34.46W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

REYKJANES RIDGE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 2852 | 126 | EP | | 233 | 33.770 | .060 | | | | | | | 1.0 |
| MESJ | BZ | 2852 | 126 | IAMB | | 233 | 40.83 | | | 28 | 1.2 | | | | |
| MORF | BZ | 2880 | 127 | EP | | 233 | 36.00 | -.060 | | | | | | | 1.0 |
| MORF | BZ | 2880 | 127 | IAMB | | 233 | 39.18 | | | 29 | 1.1 | | | | |

December 11 2023 Hour: 5:19 34.3 Lat: 37.29N Lon: 8.58W Depth: 11F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.2 secs

SW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 6 | 279 | EP | | 519 | 36.24 | -.230 | | | | | | | 1.0 |
| MORF | HE | 6 | 279 | ES | | 519 | 38.220 | .190 | | | | | | | 1.0 |
| MORF | HE | 6 | 279 | IAML | | 519 | 38.63 | | | 34 | 0.1 | | | | |
| MESJ | HZ | 68 | 28 | EP | | 519 | 45.39 | -.050 | | | | | | | 1.0 |
| MESJ | HE | 68 | 28 | ES | | 519 | 53.800 | .260 | | | | | | | 1.0 |
| MESJ | HN | 68 | 28 | IAML | | 519 | 54.75 | | | 2 | 0.2 | | | | |
| GRNL | CN | 90 | 1 | ES | | 519 | 59.10 | -.170 | | | | | | | 1.0 |
| GRNL | CE | 90 | 1 | IAML | | 520 | 1.01 | | | 5 | 0.2 | | | | |

December 11 2023 Hour: 6: 1 4.9 Lat: 37.28N Lon: 8.46W Depth: 7F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 17 | 278 | EP | | 6 1 | 7.83 | -.080 | | | | | | | 1.0 |
| MORF | HE | 17 | 278 | ES | | 6 1 | 10.190 | .070 | | | | | | | 1.0 |
| MORF | HE | 17 | 278 | IAML | | 6 1 | 10.79 | | | 54 | 0.1 | | | | |
| MESJ | HZ | 65 | 19 | EP | | 6 1 | 15.44 | -.060 | | | | | | | 1.0 |
| GRNL | CZ | 92 | 354 | EP | | 6 1 | 19.68 | -.120 | | | | | | | 1.0 |
| GRNL | CN | 92 | 354 | ES | | 6 1 | 30.880 | .190 | | | | | | | 1.0 |
| GRNL | CN | 92 | 354 | IAML | | 6 1 | 33.00 | | | 3 | 0.2 | | | | |

December 11 2023 Hour: 6:33 32.3 Lat: 18.68S Lon: 175.48W Depth: 238F Agency: IGL Distant
Magnitudes: 0.1ML IGL Rms: 0.1 secs

TONGA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|--------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ17445 | 28 | EPKpdf | | | 652 | 58.26 | -.020 | | | | | | | 1.0 |
| GGNV | BZ17445 | 28 | EPKpab | | | 653 | 29.860 | .120 | | | | | | | 1.0 |
| GRNL | BZ17529 | 28 | EPKpdf | | | 652 | 59.270 | .010 | | | | | | | 1.0 |
| GRNL | BZ17529 | 28 | EPKpab | | | 653 | 33.080 | .020 | | | | | | | 1.0 |
| MESJ | BZ17571 | 28 | EPKpab | | | 653 | 34.54 | -.170 | | | | | | | 0.9 |
| MORF | BZ17599 | 29 | EPKpdf | | | 653 | 0.110 | .020 | | | | | | | 1.0 |
| MORF | BZ17599 | 29 | EPKpab | | | 653 | 35.840 | .010 | | | | | | | 1.0 |

December 11 2023 Hour: 10:50 58.8 Lat: 38.02N Lon: 8.96W Depth: 2F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NW SINES, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 36 | 74 | EP | | 1051 | 4.660 | .100 | | | | | | | 1.0 |
| GRNL | CN | 36 | 74 | ES | | 1051 | 8.840 | .080 | | | | | | | 1.0 |
| GRNL | CE | 36 | 74 | IAML | | 1051 | 9.06 | | | 13 | 0.1 | | | | |
| MESJ | HZ | 68 | 107 | EP | | 1051 | 9.850 | .070 | | | | | | | 1.0 |

MESJ HE 68 107 ES 1051 17.55-.240 1.0
 MESJ HN 68 107 IAML 1051 19.04 6 0.2

**December 11 2023 Hour: 18:36 0.5 Lat: 24.11S Lon: 66.84W Depth:195F Agency: IGL Distant
 Magnitudes: 4.9Mb IGL Rms: 0.0 secs**

SALTA, ARGENTINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9186 | 43 | EP | | 1848 | 1.61- | .040 | | | | | | | 1.0 |
| GRNL | BZ | 9186 | 43 | IAMB | | 1848 | 2.87 | | 16 | 0.7 | | | | | |
| MESJ | BZ | 9191 | 43 | EP | | 1848 | 1.960. | .040 | | | | | | | 1.0 |
| MESJ | BZ | 9191 | 43 | IAMB | | 1848 | 3.37 | | 17 | 0.6 | | | | | |

**December 12 2023 Hour: 0:43 54.1 Lat: 36.96N Lon: 4.01W Depth: 59F Agency: IGL Regional
 Magnitudes: 2.4ML IGL Rms: 0.1 secs**

SPAIN Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|---------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 386 | 286 | EP | | 044 | 45.27- | .040 | | | | | | | 1.0 |
| MESJ | HE | 386 | 286 | ES | | 045 | 22.61- | .130 | | | | | | | 1.0 |
| MESJ | HE | 386 | 286 | IAML | | 045 | 24.68 | | 4 | 0.1 | | | | | |
| MORF | HN | 414 | 277 | ES | | 045 | 29.160. | .130 | | | | | | | 1.0 |
| MORF | HN | 414 | 277 | IAML | | 045 | 33.35 | | 19 | 0.2 | | | | | |
| GRNL | CZ | 423 | 289 | EP | | 044 | 49.92- | .030 | | | | | | | 1.0 |
| GRNL | CN | 423 | 289 | ES | | 045 | 30.840. | .080 | | | | | | | 1.0 |
| GRNL | CN | 423 | 289 | IAML | | 045 | 33.21 | | 14 | 0.3 | | | | | |

**December 12 2023 Hour: 4: 0 12.3 Lat: 17.92S Lon: 175.44W Depth:213F Agency: IGL Distant
 Rms: 0.3 secs**

TONGA Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|-------|-----|-------|---|------|---------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 17453 | 27 | EP | | 420 | 12.63- | .280 | | | | | | | 1.0 |
| MESJ | BZ | 17495 | 27 | EP | | 419 | 42.160. | .310 | | | | | | | 1.0 |
| MORF | BZ | 17523 | 28 | EP | | 419 | 42.510. | .280 | | | | | | | 1.0 |
| MORF | BZ | 17523 | 28 | EP | | 420 | 15.40- | .310 | | | | | | | 1.0 |

**December 13 2023 Hour: 8: 5 17.9 Lat: 37.32N Lon: 8.52W Depth: 7F Agency: IGL Regional
 Magnitudes: 1.1ML IGL Rms: 0.1 secs**

E MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|---------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 12 | 264 | EP | | 8 5 | 19.98- | .180 | | | | | | | 1.0 |
| MORF | HN | 12 | 264 | ES | | 8 5 | 21.930. | .130 | | | | | | | 1.0 |
| MORF | HN | 12 | 264 | IAML | | 8 5 | 22.37 | | 67 | 0.1 | | | | | |
| MESJ | HZ | 64 | 25 | EP | | 8 5 | 28.430. | .130 | | | | | | | 1.0 |
| GRNL | CN | 88 | 357 | ES | | 8 5 | 42.48- | .090 | | | | | | | 1.0 |
| GRNL | CN | 88 | 357 | IAML | | 8 5 | 42.75 | | 7 | 0.1 | | | | | |

**December 13 2023 Hour: 10:43 27.3 Lat: 36.52N Lon: 10.40W Depth: 31F Agency: IGL Regional
 Magnitudes: 2.1ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|---------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 178 | 60 | EP | | 1043 | 51.550. | .040 | | | | | | | 1.0 |
| MORF | HN | 178 | 60 | ES | | 1044 | 9.15- | .030 | | | | | | | 1.0 |
| MORF | HN | 178 | 60 | IAML | | 1044 | 10.56 | | 15 | 0.3 | | | | | |
| GRNL | CZ | 240 | 42 | EP | | 1043 | 59.06- | .030 | | | | | | | 1.0 |
| GRNL | CN | 240 | 42 | ES | | 1044 | 22.17- | .120 | | | | | | | 1.0 |
| GRNL | CE | 240 | 42 | IAML | | 1044 | 25.15 | | 15 | 0.2 | | | | | |
| MESJ | HN | 243 | 52 | ES | | 1044 | 23.090. | .130 | | | | | | | 1.0 |

**December 13 2023 Hour: 17: 3 32.7 Lat: 37.35N Lon: 8.48W Depth: 1 Agency: IGL Regional
 Magnitudes: 1.0ML IGL Rms: 0.1 secs**

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|---------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 16 | 251 | EP | | 17 3 | 35.13- | .120 | | | | | | | 1.0 |
| MORF | HE | 16 | 251 | ES | | 17 3 | 37.270. | .130 | | | | | | | 1.0 |
| MORF | HE | 16 | 251 | IAML | | 17 3 | 37.57 | | 52 | 0.2 | | | | | |

GRNL CN 84 355 ES 17 3 56.18-.010 1.0
 GRNL CN 84 355 IAML 17 3 57.75 4 0.2

**December 13 2023 Hour: 20:20 12.8 Lat: 72.62N Lon: 4.12E Depth: 10F Agency: IGL Distant
 Magnitudes: 5.4Mb IGL Rms: 0.1 secs**

NORWEGIAN SEA Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 3903 | 198 | EP | | 2027 | 6.400 | .130 | | | | | | | 1.0 |
| GRNL | BZ | 3903 | 198 | IAMB | | 2027 | 7.77 | | | 92 | 1.5 | | | | |
| GRNL | BE | 3903 | 198 | ES | | 2032 | 39.78 | -.100 | | | | | | | 1.0 |
| MESJ | BZ | 3929 | 197 | EP | | 2027 | 8.350 | .040 | | | | | | | 1.0 |
| MESJ | BZ | 3929 | 197 | IAMB | | 2027 | 10.18 | | | 59 | 1.3 | | | | |
| MESJ | BN | 3929 | 197 | ES | | 2032 | 43.46 | -.060 | | | | | | | 1.0 |

**December 13 2023 Hour: 23:3 6.8 Lat: 31.26N Lon: 8.16W Depth: 5F Agency: IGL Regional
 Rms: 0.1 secs**

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 672 | 356 | EP | | 23 4 | 36.340 | .180 | | | | | | | 1.0 |
| MESJ | HZ | 730 | 360 | EP | | 23 4 | 43.23 | -.140 | | | | | | | 1.0 |
| GRNL | CZ | 761 | 357 | EP | | 23 4 | 47.07 | -.060 | | | | | | | 0.9 |

**December 14 2023 Hour: 4:48 49.1 Lat: 37.31N Lon: 8.60W Depth: 15F Agency: IGL Regional
 Magnitudes: 0.6ML IGL Rms: 0.1 secs**

W MONCHIQUÉ, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HE | 5 | 260 | ES | | 448 | 53.59 | -.010 | | | | | | | 1.0 |
| MESJ | HZ | 67 | 30 | EP | | 448 | 59.98 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 67 | 30 | ES | | 449 | 7.84 | -.120 | | | | | | | 1.0 |
| GRNL | CZ | 88 | 2 | EP | | 449 | 3.410 | .230 | | | | | | | 1.0 |
| GRNL | CN | 88 | 2 | ES | | 449 | 13.38 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 88 | 2 | IAML | | 449 | 14.42 | | | 2 | 0.2 | | | | |

**December 14 2023 Hour: 14:59 4.7 Lat: 37.03N Lon: 13.65W Depth: 23F Agency: IGL Regional
 Magnitudes: 3.7ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 445 | 85 | EP | | 15 0 | 0.110 | .000 | | | | | | | 1.0 |
| MORF | HN | 445 | 85 | ES | | 15 0 | 40.790 | .240 | | | | | | | 1.0 |
| MORF | HN | 445 | 85 | IAML | | 15 0 | 44.14 | | | 234 | 0.0 | | | | |
| GRNL | CZ | 464 | 73 | EP | | 15 0 | 2.31 | -.160 | | | | | | | 1.0 |
| GRNL | CN | 464 | 73 | ES | | 15 0 | 44.670 | .030 | | | | | | | 1.0 |
| GRNL | CN | 464 | 73 | IAML | | 15 0 | 50.27 | | | 132 | 0.2 | | | | |
| MESJ | HZ | 489 | 78 | EP | | 15 0 | 5.490 | .030 | | | | | | | 1.0 |
| MESJ | HN | 489 | 78 | ES | | 15 0 | 49.66 | -.150 | | | | | | | 1.0 |

**December 14 2023 Hour: 23:46 58.6 Lat: 38.46N Lon: 7.92W Depth: 1F Agency: IGL Regional
 Rms: 0.1 secs**

S EVORA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 69 | 236 | EP | | 2347 | 9.830 | .130 | | | | | | | 1.0 |
| MESJ | HZ | 74 | 201 | EP | | 2347 | 10.43 | -.030 | | | | | | | 1.0 |
| MESJ | HE | 74 | 201 | ES | | 2347 | 19.06 | -.090 | | | | | | | 1.0 |

**December 15 2023 Hour: 2:43 23.5 Lat: 36.55N Lon: 9.45W Depth: 8F Agency: IGL Regional
 Magnitudes: 1.4ML IGL Rms: 0.2 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 110 | 40 | EP | | 243 | 40.89 | -.180 | | | | | | | 1.0 |
| MORF | HE | 110 | 40 | ES | | 243 | 54.050 | .180 | | | | | | | 1.0 |
| MORF | HE | 110 | 40 | IAML | | 243 | 55.02 | | | 8 | 0.2 | | | | |

**December 15 2023 Hour: 3:425.4 Lat: 36.48N Lon: 8.28W Depth: 16F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 97 | 340 | EP | | 3 4 | 40.830 | .010 | | | | | | | 1.0 |
| MORF | HE | 97 | 340 | ES | | 3 4 | 52.08 | -.020 | | | | | | | 1.0 |
| MORF | HE | 97 | 340 | IAML | | 3 4 | 52.88 | | 26 | 0.2 | | | | | |
| MESJ | HZ | 151 | 2 | EP | | 3 4 | 48.150 | .130 | | | | | | | 1.0 |
| MESJ | HE | 151 | 2 | ES | | 3 5 | 4.43 | -.120 | | | | | | | 1.0 |

**December 15 2023 Hour: 4:1046.7 Lat: 32.30N Lon: 5.43W Depth: 1 Agency: IGL Regional
Rms: 0.0 secs**

MOROCCO Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 705 | 337 | EP | | 412 | 18.750 | .000 | | | | | | | 1.0 |

**December 15 2023 Hour: 4:2324.2 Lat: 37.30N Lon: 8.57W Depth: 9F Agency: IGL Regional
Rms: 0.1 secs**

SW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 7 | 274 | EP | | 423 | 25.98 | -.130 | | | | | | | 1.0 |
| MORF | HE | 7 | 274 | ES | | 423 | 27.650 | .130 | | | | | | | 1.0 |

**December 15 2023 Hour: 4:3456.6 Lat: 35.88N Lon: 8.76W Depth: 31F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 158 | 4 | EP | | 435 | 18.20 | -.130 | | | | | | | 1.0 |
| MORF | HN | 158 | 4 | ES | | 435 | 34.220 | .040 | | | | | | | 1.0 |
| MORF | HN | 158 | 4 | IAML | | 435 | 35.89 | | 23 | 0.1 | | | | | |
| MESJ | HZ | 223 | 12 | EP | | 435 | 26.380 | .080 | | | | | | | 1.0 |
| GRNL | CZ | 248 | 4 | EP | | 435 | 29.39 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 248 | 4 | ES | | 435 | 53.380 | .030 | | | | | | | 1.0 |
| GRNL | CN | 248 | 4 | IAML | | 435 | 56.23 | | 14 | 0.1 | | | | | |

**December 15 2023 Hour: 13:568.6 Lat: 37.26N Lon: 10.04W Depth: 25F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs**

NORTH ATLANTIC OCEAN Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 123 | 87 | EP | | 1356 | 26.98 | -.100 | | | | | | | 1.0 |
| MORF | HE | 123 | 87 | ES | | 1356 | 40.55 | -.040 | | | | | | | 1.0 |
| MORF | HN | 123 | 87 | IAML | | 1356 | 42.86 | | 34 | 0.2 | | | | | |
| GRNL | CZ | 160 | 54 | EP | | 1356 | 31.800 | .150 | | | | | | | 1.0 |

**December 15 2023 Hour: 23:205.3 Lat: 36.44N Lon: 8.21W Depth: 12F Agency: IGL Regional
Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 156 | 360 | EP | | 2320 | 29.010 | .070 | | | | | | | 1.0 |
| GRNL | CZ | 188 | 350 | EP | | 2320 | 32.89 | -.080 | | | | | | | 1.0 |

**December 15 2023 Hour: 23:4511.9 Lat: 35.65N Lon: 4.68W Depth: 6F Agency: IGL Regional
Magnitudes: 3.3ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 399 | 309 | EP | | 2346 | 6.350 | .090 | | | | | | | 1.0 |
| MESJ | HN | 399 | 309 | ES | | 2346 | 45.87 | -.080 | | | | | | | 1.0 |
| MORF | HZ | 401 | 298 | EP | | 2346 | 6.50 | -.030 | | | | | | | 1.0 |
| MORF | HE | 401 | 298 | ES | | 2346 | 46.35 | -.060 | | | | | | | 1.0 |
| MORF | HN | 401 | 298 | IAML | | 2346 | 48.58 | | 111 | 0.3 | | | | | |
| GRNL | CZ | 441 | 309 | EP | | 2346 | 11.560 | .090 | | | | | | | 1.0 |
| GRNL | CN | 441 | 309 | ES | | 2346 | 54.94 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 441 | 309 | IAML | | 2346 | 57.27 | | 44 | 0.2 | | | | | |

December 16 2023 Hour: 9:53 57.7 Lat: 36.95N Lon: 14.27W Depth: 12F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 520 | 74 | EP | | 955 | 2.22 | -.060 | | | | | | | 1.0 |
| GRNL | CE | 520 | 74 | ES | | 955 | 49.36 | -.020 | | | | | | | 1.0 |
| GRNL | CE | 520 | 74 | IAML | | 955 | 51.76 | | | 7 | 0.2 | | | | |
| MESJ | HZ | 544 | 78 | EP | | 955 | 5.400 | .080 | | | | | | | 1.0 |

December 16 2023 Hour: 22:49 0.3 Lat: 36.55N Lon: 8.29W Depth: 8F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 90 | 339 | EP | | 2249 | 14.930 | .030 | | | | | | | 1.0 |
| MORF | HN | 90 | 339 | ES | | 2249 | 25.650 | .110 | | | | | | | 1.0 |
| MORF | HN | 90 | 339 | IAML | | 2249 | 28.60 | | | 131 | 0.3 | | | | |
| MESJ | HZ | 144 | 2 | EP | | 2249 | 22.920 | .130 | | | | | | | 1.0 |
| MESJ | HN | 144 | 2 | ES | | 2249 | 39.04 | -.160 | | | | | | | 1.0 |
| GRNL | CZ | 175 | 352 | EP | | 2249 | 26.48 | -.220 | | | | | | | 1.0 |
| GRNL | CN | 175 | 352 | ES | | 2249 | 46.060 | .100 | | | | | | | 1.0 |
| GRNL | CN | 175 | 352 | IAML | | 2249 | 48.40 | | | 22 | 0.2 | | | | |

December 17 2023 Hour: 5:28 8.6 Lat: 37.39N Lon: 7.99W Depth: 8F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

SE ALMODOVAR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 94 | 328 | EP | | 528 | 23.810 | .030 | | | | | | | 1.0 |
| GRNL | CN | 94 | 328 | ES | | 528 | 34.85 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 94 | 328 | IAML | | 528 | 36.65 | | | 2 | 0.1 | | | | |

December 17 2023 Hour: 8:42 50.6 Lat: 35.82N Lon: 8.69W Depth: 39F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 164 | 1 | EP | | 843 | 13.69 | -.130 | | | | | | | 1.0 |
| GRNL | CN | 254 | 2 | ES | | 843 | 50.040 | .140 | | | | | | | 1.0 |
| GRNL | CE | 254 | 2 | IAML | | 843 | 52.11 | | | 4 | 0.2 | | | | |

December 17 2023 Hour: 9:38 52.9 Lat: 38.42N Lon: 7.89W Depth: 1F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NE VIANA DO ALENTEJO, POORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 69 | 240 | EP | | 939 | 4.030 | .110 | | | | | | | 1.0 |
| GRNL | CN | 69 | 240 | ES | | 939 | 11.90 | -.110 | | | | | | | 1.0 |
| GRNL | CN | 69 | 240 | IAML | | 939 | 12.66 | | | 3 | 0.1 | | | | |

December 17 2023 Hour: 11:49 23.7 Lat: 11.54N Lon: 47.39E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

GULF OF ADEN Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6229 | 308 | EP | | 1159 | 2.24 | -.050 | | | | | | | 1.0 |
| GRNL | BZ | 6266 | 308 | EP | | 1159 | 4.670 | .050 | | | | | | | 1.0 |

December 17 2023 Hour: 13: 6 21.6 Lat: 38.56N Lon: 9.34W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.0 secs

SW OEIRAS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 84 | 127 | EP | | 13 6 | 35.10 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 84 | 127 | ES | | 13 6 | 45.010 | .030 | | | | | | | 1.0 |
| GRNL | CE | 84 | 127 | IAML | | 13 6 | 47.10 | | | 4 | 0.1 | | | | |

December 17 2023 Hour: 21:53 26.9 Lat: 37.20N Lon: 8.86W Depth: 11F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SW ALJEZUR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 22 | 58 | EP | | 2153 | 30.75 | -.080 | | | | | | | 1.0 |
| MORF | HN | 22 | 58 | ES | | 2153 | 33.64 | -.090 | | | | | | | 1.0 |
| MORF | HN | 22 | 58 | IAML | | 2153 | 34.54 | | | 5 | 0.1 | | | | |
| MESJ | HZ | 91 | 38 | EP | | 2153 | 41.390 | .050 | | | | | | | 1.0 |
| MESJ | HE | 91 | 38 | ES | | 2153 | 52.040 | .140 | | | | | | | 1.0 |
| GRNL | CZ | 104 | 14 | EP | | 2153 | 43.32 | -.010 | | | | | | | 1.0 |

December 17 2023 Hour: 23: 0 37.7 Lat: 35.82N Lon: 10.11W Depth: 25F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 210 | 38 | EP | | 23 1 | 6.82 | -.140 | | | | | | | 1.0 |
| MORF | HN | 210 | 38 | ES | | 23 1 | 28.440 | .140 | | | | | | | 1.0 |
| MORF | HN | 210 | 38 | IAML | | 23 1 | 29.60 | | | 1 | 0.2 | | | | |

December 17 2023 Hour: 23: 5 23.5 Lat: 35.87N Lon: 10.23W Depth: 24F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 213 | 41 | EP | | 23 5 | 52.99 | -.150 | | | | | | | 1.0 |
| MORF | HN | 213 | 41 | ES | | 23 6 | 15.000 | .190 | | | | | | | 1.0 |
| MORF | HN | 213 | 41 | IAML | | 23 6 | 15.98 | | | 4 | 0.2 | | | | |
| GRNL | CZ | 289 | 30 | EP | | 23 6 | 2.44 | -.140 | | | | | | | 1.0 |
| GRNL | CN | 289 | 30 | ES | | 23 6 | 31.240 | .100 | | | | | | | 1.0 |
| GRNL | CN | 289 | 30 | IAML | | 23 6 | 32.60 | | | 2 | 0.1 | | | | |

December 18 2023 Hour: 6:16 29.6 Lat: 36.81N Lon: 7.42W Depth: 24F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 123 | 297 | EP | | 616 | 48.10 | -.000 | | | | | | | 1.0 |
| MORF | HN | 123 | 297 | ES | | 617 | 1.620 | .000 | | | | | | | 1.0 |
| MORF | HE | 123 | 297 | IAML | | 617 | 2.49 | | | 5 | 0.1 | | | | |

December 18 2023 Hour: 9:30 55.2 Lat: 36.74N Lon: 8.40W Depth: 17F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 67 | 340 | EP | | 931 | 6.03 | -.040 | | | | | | | 1.0 |
| MORF | HN | 67 | 340 | ES | | 931 | 14.030 | .040 | | | | | | | 1.0 |
| MORF | HE | 67 | 340 | IAML | | 931 | 15.55 | | | 37 | 0.1 | | | | |

December 18 2023 Hour: 10:18 54.4 Lat: 33.21N Lon: 76.70E Depth: 18F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

KASHMIR-INDIA BORDER REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 7444 | 301 | EP | | 1029 | 46.040 | .120 | | | | | | | 1.0 |
| GRNL | BZ | 7460 | 301 | EP | | 1029 | 46.65 | -.120 | | | | | | | 1.0 |
| GRNL | BZ | 7460 | 301 | IAMB | | 1029 | 49.58 | | | 23 | 1.0 | | | | |

December 18 2023 Hour: 10:31 29.5 Lat: 33.15N Lon: 76.73E Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

KASHMIR-INDIA BORDER REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 7466 | 301 | EP | | 1042 | 23.500 | .000 | | | | | | | 1.0 |
| GRNL | BZ | 7466 | 301 | IAMB | | 1042 | 24.04 | | | 21 | 1.2 | | | | |

December 18 2023 Hour: 10:54 55.2 Lat: 37.24N Lon: 7.87W Depth: 13F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs
N S.BRAS DE ALPORTEL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 70 | 276 | EP | | 1055 | 6.32 | -.100 | | | | | | | 1.0 |
| MORF | HN | 70 | 276 | ES | | 1055 | 14.750 | .100 | | | | | | | 1.0 |
| MORF | HN | 70 | 276 | IAML | | 1055 | 16.91 | | | 8 | 0.2 | | | | |

December 18 2023 Hour: 15:59 30.4 Lat: 35.74N Lon: 102.83E Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs

GANSU-QINGHAI BORDER REGION, CHINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| GGNV | BZ | 9215 | 313 | EP | | 1611 | 55.340 | .040 | | | | | | | 1.0 |
| GGNV | BZ | 9215 | 313 | EPP | | 1615 | 5.310 | .100 | | | | | | | 1.0 |
| GGNV | BE | 9215 | 313 | ES | | 1622 | 14.43 | -.060 | | | | | | | 1.0 |
| GGNV | BE | 9215 | 313 | IAMs_20 | | 1651 | 40.54 | | | 11458 | 19.0 | | | | |
| MESJ | BZ | 9216 | 312 | EP | | 1611 | 55.36 | -.030 | | | | | | | 1.0 |
| MESJ | BZ | 9216 | 312 | EPP | | 1615 | 5.320 | .010 | | | | | | | 1.0 |
| MESJ | BN | 9216 | 312 | ES | | 1622 | 14.50 | -.170 | | | | | | | 0.9 |
| GRNL | BZ | 9220 | 312 | EP | | 1611 | 55.620 | .050 | | | | | | | 1.0 |
| GRNL | BZ | 9220 | 312 | EPP | | 1615 | 5.720 | .110 | | | | | | | 1.0 |
| GRNL | BE | 9220 | 312 | ES | | 1622 | 15.030 | .010 | | | | | | | 1.0 |
| GRNL | BZ | 9220 | 312 | IAMs_20 | | 1652 | 2.32 | | | 7742 | 15.4 | | | | |
| MORF | BZ | 9283 | 312 | EP | | 1611 | 58.34 | -.250 | | | | | | | 0.9 |
| MORF | BZ | 9283 | 312 | EPP | | 1615 | 10.29 | -.050 | | | | | | | 1.0 |
| MORF | BN | 9283 | 312 | ES | | 1622 | 20.280 | .170 | | | | | | | 0.9 |
| MORF | BE | 9283 | 312 | IAMs_20 | | 1647 | 6.06 | | | 5731 | 18.0 | | | | |

December 18 2023 Hour: 22: 9 10.6 Lat: 39.65N Lon: 9.24W Depth: 11F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.2 secs

NW NAZARE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | HE | 104 | 175 | ESg | | 22 9 | 39.770 | .000 | | | | | | | 1.0 |
| GGNV | HN | 104 | 175 | IAML | | 22 9 | 40.97 | | | 420 | 0.1 | | | | |
| GRNL | CZ | 181 | 161 | EP | | 22 9 | 37.580 | .190 | | | | | | | 1.0 |
| GRNL | CE | 181 | 161 | ES | | 22 9 | 57.090 | .130 | | | | | | | 1.0 |
| GRNL | CN | 181 | 161 | IAML | | 2210 | 1.25 | | | 30 | 0.2 | | | | |
| MESJ | HZ | 220 | 156 | EP | | 22 9 | 42.15 | -.090 | | | | | | | 0.9 |
| MORF | HZ | 265 | 169 | EP | | 22 9 | 47.67 | -.260 | | | | | | | 0.9 |

December 18 2023 Hour: 22:28 32.8 Lat: 36.64N Lon: 9.71W Depth: 19F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 119 | 52 | EP | | 2228 | 51.370 | .080 | | | | | | | 1.0 |
| MORF | HE | 119 | 52 | ES | | 2229 | 4.75 | -.020 | | | | | | | 1.0 |
| MORF | HN | 119 | 52 | IAML | | 2229 | 5.30 | | | 3 | 0.1 | | | | |
| MESJ | HN | 187 | 44 | ES | | 2229 | 19.21 | -.120 | | | | | | | 1.0 |
| GRNL | CN | 191 | 31 | ES | | 2229 | 20.260 | .050 | | | | | | | 1.0 |
| GRNL | CN | 191 | 31 | IAML | | 2229 | 20.97 | | | 2 | 0.1 | | | | |

December 18 2023 Hour: 22:54 12.7 Lat: 37.32N Lon: 8.55W Depth: 11F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 9 | 260 | EP | | 2254 | 14.99 | -.070 | | | | | | | 1.0 |
| MORF | HN | 9 | 260 | ES | | 2254 | 16.870 | .070 | | | | | | | 1.0 |
| MORF | HN | 9 | 260 | IAML | | 2254 | 17.24 | | | 9 | 0.1 | | | | |

December 18 2023 Hour: 23: 3 22.4 Lat: 36.51N Lon: 7.59W Depth: 35F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 129 | 313 | EP | | 23 | 3 | 41.280 | .030 | | | | | | 1.0 |
| MORF | HN | 129 | 313 | ES | | 23 | 3 | 55.02 | -.000 | | | | | | 1.0 |
| MORF | HE | 129 | 313 | IAML | | 23 | 3 | 56.63 | | 6 | 0.1 | | | | |
| GRNL | CN | 197 | 334 | ES | | 23 | 4 | 9.52 | -.030 | | | | | | 1.0 |
| GRNL | CN | 197 | 334 | IAML | | 23 | 4 | 10.37 | | 2 | 0.2 | | | | |

December 19 2023 Hour: 0:38 25.2 Lat: 36.17N Lon: 8.20W Depth: 12F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 132 | 342 | EP | | 038 | | 45.69 | -.160 | | | | | | 1.0 |
| MORF | HE | 132 | 342 | ES | | 039 | | 1.060 | .160 | | | | | | 1.0 |
| MORF | HE | 132 | 342 | IAML | | 039 | | 2.93 | | 12 | 0.3 | | | | |

December 19 2023 Hour: 1:46 21.1 Lat: 39.93N Lon: 77.88E Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Ms IGL Rms: 0.1 secs

SOUTHERN XINJIANG, CHINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MESJ | BZ | 7160 | 299 | EP | | 156 | | 57.44 | -.050 | | | | | | 1.0 |
| MESJ | BN | 7160 | 299 | ES | | 2 | 5 | 36.920 | .010 | | | | | | 1.0 |
| GRNL | BZ | 7170 | 299 | EP | | 156 | | 58.04 | -.040 | | | | | | 1.0 |
| GRNL | BZ | 7170 | 299 | EPP | | 159 | | 19.960 | .210 | | | | | | 0.9 |
| GRNL | BZ | 7170 | 299 | IAMs_20 | | 227 | | 49.75 | | 1305 | 20.8 | | | | |
| MORF | BZ | 7224 | 299 | EP | | 157 | | 1.20 | -.100 | | | | | | 1.0 |
| MORF | BZ | 7224 | 299 | IAMs_20 | | 228 | | 5.48 | | 1539 | 11.7 | | | | |

December 19 2023 Hour: 2:40 15.0 Lat: 36.51N Lon: 9.73W Depth: 15F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 130 | 47 | EP | | 240 | | 34.97 | -.150 | | | | | | 1.0 |
| MORF | HE | 130 | 47 | ES | | 240 | | 49.900 | .060 | | | | | | 1.0 |
| MORF | HE | 130 | 47 | IAML | | 240 | | 50.86 | | 0.70 | 0.2 | | | | |
| GRNL | CE | 205 | 30 | ES | | 241 | | 5.930 | .110 | | | | | | 1.0 |
| GRNL | CE | 205 | 30 | IAML | | 241 | | 8.53 | | 2 | 0.2 | | | | |

December 19 2023 Hour: 6:57 9.3 Lat: 7.01S Lon: 155.24E Depth:104F Agency: IGL Distant
Rms: 0.1 secs

SOLOMON ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| GRNL | BZ16224 | 337 | EPKP | | | 716 | | 36.59 | -.160 | | | | | | 1.0 |
| MESJ | BZ16234 | 336 | EPKP | | | 716 | | 37.160 | .020 | | | | | | 1.0 |
| MORF | BZ16305 | 336 | EPKP | | | 716 | | 39.810 | .130 | | | | | | 1.0 |

December 19 2023 Hour: 11:24 3.7 Lat: 35.56N Lon: 9.56W Depth: 10F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 210 | 23 | EP | | 1124 | | 34.28 | -.040 | | | | | | 1.0 |
| MORF | HE | 210 | 23 | ES | | 1124 | | 56.45 | -.200 | | | | | | 1.0 |
| MORF | HE | 210 | 23 | IAML | | 1124 | | 57.62 | | 5 | 0.2 | | | | |
| GRNL | CZ | 297 | 17 | EP | | 1124 | | 45.060 | .060 | | | | | | 1.0 |
| GRNL | CN | 297 | 17 | ES | | 1125 | | 15.320 | .190 | | | | | | 1.0 |
| GRNL | CE | 297 | 17 | IAML | | 1125 | | 16.53 | | 2 | 0.1 | | | | |

December 20 2023 Hour: 9:14 49.2 Lat: 36.31N Lon: 7.80W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 134 | 326 | EP | | 915 | 7.86 | -.000 | | | | | | | 1.0 |
| GRNL | CZ | 211 | 341 | EP | | 915 | 17.49 | 0.120 | | | | | | | 1.0 |
| GRNL | CE | 211 | 341 | ES | | 915 | 37.84 | -.120 | | | | | | | 1.0 |
| GRNL | CN | 211 | 341 | IAML | | 915 | 38.84 | | | 5 | 0.2 | | | | |

December 20 2023 Hour: 12:11 21.1 Lat: 15.96S Lon: 72.60W Depth: 93F Agency: IGL Distant
Magnitudes: 5.9Mb IGL Rms: 0.0 secs

SOUTHERN PERU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8914 | 47 | EP | | 1223 | 21.01 | 0.040 | | | | | | | 1.0 |
| MORF | BZ | 8914 | 47 | IAMB | | 1223 | 23.51 | | | 128 | 0.8 | | | | |
| GGNV | BZ | 8952 | 45 | EP | | 1223 | 22.69 | -.010 | | | | | | | 1.0 |
| GGNV | BZ | 8952 | 45 | IAMB | | 1223 | 25.05 | | | 153 | 0.9 | | | | |
| GRNL | BZ | 8964 | 46 | EP | | 1223 | 23.25 | -.030 | | | | | | | 1.0 |
| GRNL | BZ | 8964 | 46 | IAMB | | 1223 | 25.92 | | | 338 | 1.5 | | | | |

December 20 2023 Hour: 20:48 0.5 Lat: 36.28N Lon: 8.11W Depth: 30F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 124 | 337 | EP | | 2048 | 18.70 | -.050 | | | | | | | 1.0 |
| MORF | HE | 124 | 337 | ES | | 2048 | 32.16 | 0.110 | | | | | | | 1.0 |
| MORF | HE | 124 | 337 | IAML | | 2048 | 33.13 | | | 15 | 0.1 | | | | |
| GRNL | CZ | 207 | 349 | EP | | 2048 | 29.05 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 207 | 349 | ES | | 2048 | 49.88 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 207 | 349 | IAML | | 2048 | 50.25 | | | 13 | 0.1 | | | | |

December 21 2023 Hour: 6: 2 12.9 Lat: 36.49N Lon: 7.30W Depth: 31F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 150 | 307 | EP | | 6 2 | 33.59 | -.010 | | | | | | | 1.0 |
| GRNL | CZ | 211 | 328 | EP | | 6 2 | 41.18 | 0.010 | | | | | | | 1.0 |

December 21 2023 Hour: 15:16 4.0 Lat: 37.32N Lon: 8.55W Depth: 17F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 9 | 258 | EP | | 1516 | 7.20 | 0.090 | | | | | | | 1.0 |
| MORF | HN | 9 | 258 | ES | | 1516 | 9.31 | -.090 | | | | | | | 1.0 |
| MORF | HN | 9 | 258 | IAML | | 1516 | 9.48 | | | 5 | 0.2 | | | | |

December 21 2023 Hour: 16:21 52.6 Lat: 21.89S Lon: 69.96W Depth: 61F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9171 | 45 | EP | | 1634 | 8.44 | 0.090 | | | | | | | 1.0 |
| MORF | BZ | 9171 | 45 | IAMB | | 1634 | 10.92 | | | 56 | 1.0 | | | | |
| MORF | BZ | 9171 | 45 | EP | | 1634 | 25.31 | 0.060 | | | | | | | 1.0 |
| GRNL | BZ | 9228 | 44 | EP | | 1634 | 10.91 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 9228 | 44 | IAMB | | 1634 | 12.93 | | | 66 | 1.3 | | | | |
| GRNL | BZ | 9228 | 44 | EP | | 1634 | 27.71 | -.140 | | | | | | | 1.0 |

December 22 2023 Hour: 6:57 19.9 Lat: 36.75N Lon: 8.23W Depth: 15F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 73 | 329 | EP | | 657 | 31.53 | -.100 | | | | | | | 1.0 |
| MORF | HN | 73 | 329 | ES | | 657 | 40.260 | .100 | | | | | | | 1.0 |
| MORF | HN | 73 | 329 | IAML | | 657 | 42.34 | | | 3 | 0.1 | | | | |

December 22 2023 Hour: 14:23 50.9 Lat: 36.65N Lon: 11.21W Depth: 40F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.2 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 239 | 72 | EP | | 1424 | 23.16 | -.160 | | | | | | | 1.0 |
| MORF | HN | 239 | 72 | ES | | 1424 | 47.090 | .090 | | | | | | | 1.0 |
| MORF | HN | 239 | 72 | IAML | | 1424 | 47.72 | | | 6 | 0.1 | | | | |
| GRNL | CZ | 284 | 55 | EP | | 1424 | 28.75 | -.160 | | | | | | | 1.0 |
| GRNL | CN | 284 | 55 | ES | | 1424 | 56.900 | .230 | | | | | | | 1.0 |
| GRNL | CE | 284 | 55 | IAML | | 1424 | 59.29 | | | 10 | 0.3 | | | | |

December 23 2023 Hour: 0:6 57.6 Lat: 37.47N Lon: 8.85W Depth: 16F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs
NE ALJEZUR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 26 | 136 | EP | | 0 7 | 2.27 | -.190 | | | | | | | 1.0 |
| MORF | HE | 26 | 136 | ES | | 0 7 | 6.140 | .130 | | | | | | | 1.0 |
| MORF | HN | 26 | 136 | IAML | | 0 7 | 7.03 | | | 13 | 0.1 | | | | |
| GRNL | CZ | 75 | 20 | EP | | 0 7 | 9.640 | .020 | | | | | | | 1.0 |
| GRNL | CN | 75 | 20 | ES | | 0 7 | 18.460 | .050 | | | | | | | 1.0 |
| GRNL | CN | 75 | 20 | IAML | | 0 7 | 19.78 | | | 2 | 0.1 | | | | |

December 23 2023 Hour: 12:11 0.9 Lat: 37.32N Lon: 8.61W Depth: 19F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.0 secs
W MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 4 | 241 | EP | | 1211 | 4.02 | -.010 | | | | | | | 1.0 |
| MORF | HE | 4 | 241 | ES | | 1211 | 6.340 | .010 | | | | | | | 1.0 |
| MORF | HE | 4 | 241 | IAML | | 1211 | 6.88 | | | 5 | 0.1 | | | | |

December 23 2023 Hour: 17:48 4.2 Lat: 51.95N Lon: 158.96E Depth: 29F Agency: IGL Distant
Magnitudes: 5.8Ms IGL Rms: 0.1 secs
OFF EAST COAST OF KAMCHATKA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|---------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ | 9900 | 351 | EP | | 18 0 | 56.06 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 9960 | 350 | EP | | 18 0 | 58.710 | .070 | | | | | | | 1.0 |
| GRNL | BZ | 9960 | 350 | EPP | | 18 4 | 30.96 | -.100 | | | | | | | 1.0 |
| GRNL | BZ | 9960 | 350 | IAMs_20 | | 1849 | 56.14 | | | 3359 | 20.3 | | | | |
| MORF | BZ10049 | 350 | EP | | | 18 1 | 2.510 | .040 | | | | | | | 1.0 |
| MORF | BZ10049 | 350 | IAMs_20 | | | 1850 | 26.23 | | | 2953 | 16.5 | | | | |

December 23 2023 Hour: 23:44 46.1 Lat: 20.44S Lon: 173.39W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs
TONGA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|--------------------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ17584 | 34 | EPKp _f | | | 24 4 | 42.44 | -.060 | | | | | | | 1.0 |
| GRNL | BZ17584 | 34 | IAMs_20 | | | 2513 | 8.69 | | | 1563 | 15.3 | | | | |
| MORF | BZ17646 | 35 | EPKp _f | | | 24 4 | 43.15 | -.100 | | | | | | | 1.0 |
| MORF | BZ17646 | 35 | EPKp _{ab} | | | 24 5 | 19.070 | .170 | | | | | | | 1.0 |
| MORF | BZ17646 | 35 | IAMs_20 | | | 2514 | 23.41 | | | 1991 | 18.0 | | | | |

**December 24 2023 Hour: 0:41 46.7 Lat: 36.40N Lon: 9.90W Depth: 41F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 150 | 48 | EP | | 042 | 8.03 | -.100 | | | | | | | 1.0 |
| MORF | HN | 150 | 48 | ES | | 042 | 23.990 | .220 | | | | | | | 1.0 |
| MORF | HE | 150 | 48 | IAML | | 042 | 27.02 | | | 9 | 0.2 | | | | |
| GRNL | CZ | 223 | 32 | EP | | 042 | 17.01 | -.180 | | | | | | | 1.0 |
| GRNL | CN | 223 | 32 | ES | | 042 | 39.510 | .050 | | | | | | | 1.0 |
| GRNL | CE | 223 | 32 | IAML | | 042 | 40.18 | | | 4 | 0.2 | | | | |

**December 24 2023 Hour: 1:37 21.0 Lat: 38.82N Lon: 8.06W Depth: 19F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs**

NW ARRAIOLOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 91 | 210 | EP | | 137 | 35.530 | .050 | | | | | | | 1.0 |
| GRNL | CN | 91 | 210 | ES | | 137 | 46.00 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 91 | 210 | IAML | | 137 | 46.56 | | | 3 | 0.2 | | | | |

**December 24 2023 Hour: 1:59 41.4 Lat: 20.53S Lon: 168.91E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs**

LOYALTY ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ18066 | 353 | EP | KPdf | | 219 | 42.650 | .010 | | | | | | | 1.0 |
| MORF | BZ18155 | 353 | EP | KPdf | | 219 | 43.50 | -.010 | | | | | | | 1.0 |

**December 24 2023 Hour: 2:22 18.8 Lat: 22.75S Lon: 175.66W Depth: 49F Agency: IGL Distant
Rms: 0.1 secs**

TONGA REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ17925 | 33 | EP | KPdf | | 242 | 12.91 | -.120 | | | | | | | 1.0 |
| MORF | BZ17988 | 35 | EP | KPdf | | 242 | 13.830 | .120 | | | | | | | 1.0 |

**December 24 2023 Hour: 5:5 8.1 Lat: 31.14N Lon: 8.18W Depth: 18F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs**

MOROCCO Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 686 | 356 | EP | | 5 6 | 37.80 | -.060 | | | | | | | 1.0 |
| MORF | HN | 686 | 356 | ES | | 5 7 | 43.22 | -.170 | | | | | | | 1.0 |
| MORF | HE | 686 | 356 | IAML | | 5 7 | 46.54 | | | 5 | 0.3 | | | | |
| GRNL | CZ | 775 | 357 | EP | | 5 6 | 48.790 | .170 | | | | | | | 0.9 |
| GRNL | CE | 775 | 357 | ES | | 5 8 | 2.090 | .090 | | | | | | | 0.9 |
| GRNL | CN | 775 | 357 | IAML | | 5 8 | 3.89 | | | 4 | 0.3 | | | | |

**December 24 2023 Hour: 8:59 8.0 Lat: 35.42N Lon: 3.62W Depth: 16F Agency: IGL Regional
Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 498 | 296 | EP | | 9 0 | 13.37 | -.100 | | | | | | | 1.0 |
| GRNL | CZ | 533 | 305 | EP | | 9 0 | 17.830 | .110 | | | | | | | 1.0 |

**December 24 2023 Hour: 11:43 7.2 Lat: 38.45N Lon: 8.20W Depth: 3F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs**

S MONTEMOR-O-NOVO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 50 | 221 | EP | | 1143 | 15.310 | .110 | | | | | | | 1.0 |
| GRNL | CN | 50 | 221 | ES | | 1143 | 20.94 | -.110 | | | | | | | 1.0 |
| GRNL | CE | 50 | 221 | IAML | | 1143 | 21.99 | | | 2 | 0.2 | | | | |

December 24 2023 Hour: 18: 2 12.9 Lat: 14.93S Lon: 66.84E Depth: 10F Agency: IGL Distant
Magnitudes: 5.1ML IGL Rms: 0.0 secs
MID-INDIAN RIDGE Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9795 | 310 | EP | | 1815 | 3.360 | .010 | | | | | | | 1.0 |
| GRNL | BZ | 9795 | 310 | IAMB | | 1815 | 5.02 | | | 13 | 1.2 | | | | |

December 24 2023 Hour: 18:43 32.8 Lat: 38.27N Lon: 9.35W Depth: 10F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs
SW SESIMBRA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 70 | 105 | EP | | 1843 | 44.16 | -.130 | | | | | | | 1.0 |
| GRNL | CN | 70 | 105 | ES | | 1843 | 52.800 | .150 | | | | | | | 1.0 |
| GRNL | CE | 70 | 105 | IAML | | 1843 | 56.27 | | | 26 | 0.2 | | | | |
| MORF | HZ | 124 | 150 | EPg | | 1843 | 52.83 | -.020 | | | | | | | 1.0 |

December 24 2023 Hour: 20:56 7.3 Lat: 35.16N Lon: 11.67W Depth: 18F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 361 | 48 | EP | | 2056 | 55.910 | .070 | | | | | | | 1.0 |
| MORF | HN | 361 | 48 | ES | | 2057 | 31.410 | .110 | | | | | | | 1.0 |
| MORF | HN | 361 | 48 | IAML | | 2057 | 33.84 | | | 2 | 0.1 | | | | |
| GRNL | CZ | 429 | 39 | EP | | 2057 | 3.99 | -.200 | | | | | | | 1.0 |
| GRNL | CN | 429 | 39 | ES | | 2057 | 45.73 | -.000 | | | | | | | 1.0 |
| GRNL | CE | 429 | 39 | IAML | | 2057 | 47.71 | | | 2 | 0.1 | | | | |

December 24 2023 Hour: 21:10 42.8 Lat: 37.70N Lon: 7.79W Depth: 4F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.0 secs
NW MERTOLA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 82 | 304 | EP | | 2110 | 55.98 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 82 | 304 | ES | | 2111 | 5.690 | .030 | | | | | | | 1.0 |
| GRNL | CE | 82 | 304 | IAML | | 2111 | 7.83 | | | 2 | 0.1 | | | | |

December 24 2023 Hour: 23: 9 6.3 Lat: 36.90N Lon: 8.74W Depth: 30F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 46 | 10 | EP | | 23 9 | 14.63 | -.150 | | | | | | | 1.0 |
| MORF | HE | 46 | 10 | ES | | 23 9 | 21.160 | .230 | | | | | | | 1.0 |
| MORF | HN | 46 | 10 | IAML | | 23 9 | 21.42 | | | 3 | 0.2 | | | | |
| GRNL | CZ | 135 | 6 | EP | | 23 9 | 25.84 | -.130 | | | | | | | 1.0 |
| GRNL | CE | 135 | 6 | ES | | 23 9 | 40.350 | .050 | | | | | | | 1.0 |
| GRNL | CE | 135 | 6 | IAML | | 23 9 | 41.65 | | | 1 | 0.1 | | | | |

December 25 2023 Hour: 4:49 32.2 Lat: 36.68N Lon: 7.89W Depth: 2F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 98 | 316 | EP | | 449 | 47.960 | .010 | | | | | | | 1.0 |
| MORF | HN | 98 | 316 | ES | | 449 | 59.43 | -.010 | | | | | | | 1.0 |
| MORF | HE | 98 | 316 | IAML | | 450 | 0.70 | | | 6 | 0.2 | | | | |

December 25 2023 Hour: 5:27 56.8 Lat: 37.32N Lon: 8.62W Depth: 16F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs
W MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 4 | 235 | EP | | 527 | 59.32 | -.130 | | | | | | | 1.0 |
| MORF | HN | 4 | 235 | ES | | 528 | 1.550 | .130 | | | | | | | 1.0 |
| MORF | HE | 4 | 235 | IAML | | 528 | 2.20 | | | 9 | 0.1 | | | | |

December 25 2023 Hour: 10:56 38.4 Lat: 37.33N Lon: 8.67W Depth: 19F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

W MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 3 | 147 | EP | | 1056 | 41.54 | -.010 | | | | | | | 1.0 |
| MORF | HE | 3 | 147 | ES | | 1056 | 43.84 | 0.010 | | | | | | | 1.0 |
| MORF | HE | 3 | 147 | IAML | | 1056 | 43.97 | | | 18 | 0.2 | | | | |

December 25 2023 Hour: 17:48 29.2 Lat: 36.64N Lon: 7.07W Depth: 27F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 159 | 298 | EP | | 1748 | 51.79 | -.140 | | | | | | | 1.0 |
| MORF | HN | 159 | 298 | ES | | 1749 | 8.48 | -.050 | | | | | | | 1.0 |
| MORF | HE | 159 | 298 | IAML | | 1749 | 9.57 | | | 15 | 0.1 | | | | |
| GRNL | CZ | 210 | 321 | EP | | 1748 | 58.30 | 0.060 | | | | | | | 1.0 |
| GRNL | CN | 210 | 321 | ES | | 1749 | 19.60 | 0.150 | | | | | | | 1.0 |
| GRNL | CN | 210 | 321 | IAML | | 1749 | 21.36 | | | 5 | 0.1 | | | | |

December 25 2023 Hour: 21:2 37.7 Lat: 38.78N Lon: 8.39W Depth: 22F Agency: IGL Regional
Magnitudes: 4.1ML IGL Rms: 0.1 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GGNV | HZ | 66 | 264 | EP | | 21 2 | 48.57 | -.090 | | | | | | | 1.0 |
| GGNV | HN | 66 | 264 | ES | | 21 2 | 56.60 | -.030 | | | | | | | 1.0 |
| GGNV | HN | 66 | 264 | IAML | | 21 2 | 59.64 | | | 8885 | 0.2 | | | | |
| GRNL | CZ | 77 | 192 | EP | | 21 2 | 50.30 | 0.130 | | | | | | | 1.0 |
| GRNL | CE | 77 | 192 | ES | | 21 2 | 59.11 | -.130 | | | | | | | 1.0 |
| GRNL | CN | 77 | 192 | IAML | | 21 3 | 0.68 | | | 5369 | 0.2 | | | | |
| MORF | HZ | 166 | 188 | EP | | 21 3 | 1.86 | 0.110 | | | | | | | 1.0 |
| MORF | HN | 166 | 188 | ESg | | 21 3 | 22.56 | 0.020 | | | | | | | 1.0 |
| MORF | HN | 166 | 188 | IAML | | 21 3 | 23.66 | | | 1729 | 0.2 | | | | |

December 25 2023 Hour: 21:54 12.9 Lat: 35.39N Lon: 3.65W Depth: 20F Agency: IGL Regional
Magnitudes: 0.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 496 | 297 | EP | | 2155 | 17.77 | -.050 | | | | | | | 1.0 |
| GRNL | CZ | 532 | 306 | EP | | 2155 | 22.20 | 0.050 | | | | | | | 1.0 |

December 25 2023 Hour: 23:44 3.3 Lat: 38.78N Lon: 8.40W Depth: 16F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 76 | 191 | EP | | 2344 | 15.68 | 0.130 | | | | | | | 1.0 |
| GRNL | CN | 76 | 191 | ES | | 2344 | 24.32 | -.150 | | | | | | | 1.0 |
| GRNL | CN | 76 | 191 | IAML | | 2344 | 25.87 | | | 17 | 0.2 | | | | |
| MORF | HZ | 165 | 188 | EPg | | 2344 | 29.08 | 0.000 | | | | | | | 1.0 |
| MORF | HN | 165 | 188 | ESg | | 2344 | 47.89 | 0.020 | | | | | | | 1.0 |
| MORF | HN | 165 | 188 | IAML | | 2344 | 49.02 | | | 4 | 0.1 | | | | |

December 26 2023 Hour: 0:7 18.0 Lat: 38.79N Lon: 8.41W Depth: 11F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 76 | 190 | EP | | 0 7 | 30.40 | 0.110 | | | | | | | 1.0 |
| GRNL | CN | 76 | 190 | ES | | 0 7 | 39.16 | -.110 | | | | | | | 1.0 |
| GRNL | CN | 76 | 190 | IAML | | 0 7 | 40.48 | | | 6 | 0.1 | | | | |

December 26 2023 Hour: 0:40 17.5 Lat: 36.09N Lon: 10.44W Depth: 31F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 209 | 49 | EP | | 040 | 45.51 | -.040 | | | | | | | 1.0 |
| MORF | HN | 209 | 49 | ES | | 041 | 6.060 | .040 | | | | | | | 1.0 |
| MORF | HN | 209 | 49 | IAML | | 041 | 8.08 | | | 2 | 0.2 | | | | |

December 26 2023 Hour: 0:41 44.2 Lat: 38.09N Lon: 8.55W Depth: 5F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs

SE GRANDOLA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 3 | 315 | EP | | 041 | 45.190 | .020 | | | | | | | 1.0 |
| GRNL | CN | 3 | 315 | ES | | 041 | 45.84 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 3 | 315 | IAML | | 041 | 45.94 | | | 68 | 0.1 | | | | |

December 26 2023 Hour: 0:59 41.6 Lat: 36.35N Lon: 7.44W Depth: 32F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 151 | 315 | EP | | 1 0 | 2.97 | -.160 | | | | | | | 1.0 |
| MORF | HE | 151 | 315 | ES | | 1 0 | 18.970 | .130 | | | | | | | 1.0 |
| MORF | HE | 151 | 315 | IAML | | 1 0 | 19.22 | | | 8 | 0.2 | | | | |
| GRNL | CZ | 219 | 333 | EP | | 1 0 | 11.640 | .110 | | | | | | | 1.0 |
| GRNL | CN | 219 | 333 | ES | | 1 0 | 33.29 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 219 | 333 | IAML | | 1 0 | 34.26 | | | 3 | 0.1 | | | | |

December 26 2023 Hour: 5:34 47.8 Lat: 38.02N Lon: 8.74W Depth: 14F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NW SANTIAGO DO CACEM, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 19 | 56 | EP | | 534 | 51.51 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 19 | 56 | ES | | 534 | 54.430 | .160 | | | | | | | 1.0 |
| GRNL | CN | 19 | 56 | IAML | | 534 | 55.10 | | | 16 | 0.1 | | | | |
| MORF | HZ | 79 | 174 | EP | | 535 | 0.37 | -.190 | | | | | | | 1.0 |
| MORF | HN | 79 | 174 | ES | | 535 | 9.920 | .060 | | | | | | | 1.0 |
| MORF | HN | 79 | 174 | IAML | | 535 | 10.04 | | | 3 | 0.1 | | | | |

December 26 2023 Hour: 7:24 25.5 Lat: 19.15N Lon: 68.74W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

DOMINICAN REPUBLIC REGION Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 6127 | 57 | EP | | 733 | 57.43 | -.120 | | | | | | | 1.0 |
| MORF | BZ | 6127 | 57 | IAMB | | 734 | 3.10 | | | 51 | 1.3 | | | | |
| GRNL | BZ | 6137 | 56 | EP | | 733 | 58.280 | .120 | | | | | | | 1.0 |
| GRNL | BZ | 6137 | 56 | IAMB | | 734 | 2.73 | | | 36 | 1.5 | | | | |

December 26 2023 Hour: 7:47 51.5 Lat: 37.60N Lon: 8.40W Depth: 12F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.3 secs

SW OURIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 40 | 214 | EP | | 747 | 58.760 | .580 | | | | | | | 1.0 |
| MORF | HE | 40 | 214 | ES | | 748 | 3.08 | -.010 | | | | | | | 1.0 |
| MORF | HN | 40 | 214 | IAML | | 748 | 5.19 | | | 76 | 0.1 | | | | |
| GRNL | CZ | 58 | 346 | EP | | 748 | 0.75 | -.160 | | | | | | | 1.0 |
| GRNL | CN | 58 | 346 | ES | | 748 | 7.40 | -.410 | | | | | | | 1.0 |
| GRNL | CN | 58 | 346 | IAML | | 748 | 8.20 | | | 60 | 0.1 | | | | |

December 26 2023 Hour: 10:48 40.1 Lat: 38.18N Lon: 8.41W Depth: 11F Agency: IGL Regional
Rms: 0.0 secs

E GRANDOLA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 16 | 241 | EP | | 1048 | 43.220 | .010 | | | | | | | 1.0 |
| GRNL | CN | 16 | 241 | ES | | 1048 | 45.48- | .010 | | | | | | | 1.0 |

December 26 2023 Hour: 12:15 46.8 Lat: 36.89N Lon: 14.11W Depth: 10F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 487 | 83 | EP | | 1216 | 47.380 | .050 | | | | | | | 1.0 |
| MORF | HN | 487 | 83 | ES | | 1217 | 31.640 | .090 | | | | | | | 1.0 |
| MORF | HN | 487 | 83 | IAML | | 1217 | 33.24 | | | 5 | 0.2 | | | | |
| GRNL | CZ | 508 | 73 | EP | | 1216 | 49.74- | .120 | | | | | | | 1.0 |
| GRNL | CN | 508 | 73 | ES | | 1217 | 35.89- | .020 | | | | | | | 1.0 |
| GRNL | CN | 508 | 73 | IAML | | 1217 | 38.05 | | | 5 | 0.1 | | | | |

December 26 2023 Hour: 12:50 10.2 Lat: 35.99N Lon: 10.74W Depth: 34F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 237 | 51 | EP | | 1250 | 42.37- | .100 | | | | | | | 1.0 |
| MORF | HN | 237 | 51 | ES | | 1251 | 6.090 | .100 | | | | | | | 1.0 |
| MORF | HE | 237 | 51 | IAML | | 1251 | 6.74 | | | 5 | 0.1 | | | | |

December 27 2023 Hour: 1:22 57.5 Lat: 36.80N Lon: 5.32W Depth: 4F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 322 | 298 | EP | | 123 | 42.520 | .000 | | | | | | | 1.0 |

December 27 2023 Hour: 4:34 33.3 Lat: 36.78N Lon: 5.32W Depth: 5F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 323 | 298 | EP | | 435 | 18.40- | .000 | | | | | | | 1.0 |

December 27 2023 Hour: 12:53 11.9 Lat: 36.62N Lon: 8.37W Depth: 23F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 80 | 342 | EP | | 1253 | 24.960 | .140 | | | | | | | 1.0 |
| GRNL | CZ | 166 | 354 | EP | | 1253 | 35.95- | .120 | | | | | | | 1.0 |
| GRNL | CN | 166 | 354 | ES | | 1253 | 53.70- | .040 | | | | | | | 1.0 |
| GRNL | CN | 166 | 354 | IAML | | 1253 | 54.83 | | | 21 | 0.1 | | | | |

December 27 2023 Hour: 20:16 33.6 Lat: 33.04N Lon: 6.68W Depth: 24F Agency: IGL Regional
Rms: 0.1 secs

MOROCCO Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 506 | 340 | EP | | 2017 | 39.23- | .070 | | | | | | | 1.0 |
| GRNL | CZ | 587 | 344 | EP | | 2017 | 49.240 | .070 | | | | | | | 1.0 |

December 28 2023 Hour: 0:3 37.0 Lat: 38.72N Lon: 7.89W Depth: 13F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

E ARRAILOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 90 | 221 | EP | | 0 3 | 51.550 | .150 | | | | | | | 1.0 |
| GRNL | CN | 90 | 221 | ES | | 0 4 | 1.74- | .150 | | | | | | | 1.0 |
| GRNL | CN | 90 | 221 | IAML | | 0 4 | 2.47 | | | 3 | 0.2 | | | | |

December 28 2023 Hour: 1:50 29.1 Lat: 35.74N Lon: 10.16W Depth: 40F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 220 | 37 | EP | | 150 | 59.460 | .210 | | | | | | | 1.0 |
| MORF | HE | 220 | 37 | ES | | 151 | 21.20 | -.080 | | | | | | | 1.0 |
| MORF | HN | 220 | 37 | IAML | | 151 | 22.94 | | | 7 | 0.1 | | | | |
| GRNL | CZ | 299 | 28 | EP | | 151 | 8.990 | .010 | | | | | | | 1.0 |
| GRNL | CN | 299 | 28 | ES | | 151 | 37.96 | -.150 | | | | | | | 1.0 |
| GRNL | CE | 299 | 28 | IAML | | 151 | 40.43 | | | 5 | 0.1 | | | | |

December 28 2023 Hour: 9:15 15.2 Lat: 44.58N Lon: 148.99E Depth: 24F Agency: IGL Distant
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

KURIL ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|--------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| GGNV | BZ10533 | 343 | 343 | EP | | 928 | 34.05 | -.200 | | | | | | | 1.0 |
| GGNV | BN10533 | 343 | 343 | ES | | 939 | 8.280 | .110 | | | | | | | 1.0 |
| GGNV | BN10533 | 343 | 343 | ESKSac | | 939 | 8.330 | .160 | | | | | | | 1.0 |
| GGNV | BZ10533 | 343 | IAMs_20 | | | 1015 | 15.91 | | | 22116 | 23.6 | | | | |
| GRNL | BZ10584 | 342 | 342 | EP | | 928 | 36.28 | -.100 | | | | | | | 1.0 |
| GRNL | BN10584 | 342 | 342 | ESKSac | | 939 | 10.63 | -.050 | | | | | | | 1.0 |
| GRNL | BZ10584 | 342 | IAMs_20 | | | 1018 | 12.64 | | | 26805 | 13.1 | | | | |
| MORF | BZ10672 | 342 | 342 | EP | | 928 | 40.070 | .020 | | | | | | | 1.0 |
| MORF | BN10672 | 342 | 342 | ESKSac | | 939 | 15.040 | .050 | | | | | | | 1.0 |
| MORF | BZ10672 | 342 | IAMs_20 | | | 1018 | 8.93 | | | 20141 | 16.0 | | | | |

December 28 2023 Hour: 15:14 54.4 Lat: 38.81N Lon: 9.96W Depth: 40F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 secs

NW CASCAIS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 144 | 122 | EP | | 1515 | 15.290 | .220 | | | | | | | 1.0 |
| GRNL | CN | 144 | 122 | ES | | 1515 | 30.16 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 144 | 122 | IAML | | 1515 | 33.06 | | | 11 | 0.2 | | | | |
| MORF | HZ | 203 | 145 | EP | | 1515 | 22.510 | .150 | | | | | | | 1.0 |
| MORF | HE | 203 | 145 | ES | | 1515 | 42.42 | -.360 | | | | | | | 1.0 |
| MORF | HE | 203 | 145 | IAML | | 1515 | 43.28 | | | 13 | 0.1 | | | | |

December 28 2023 Hour: 17:28 35.1 Lat: 36.93N Lon: 8.76W Depth: 9F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 43 | 13 | EP | | 1728 | 42.01 | -.130 | | | | | | | 1.0 |
| MORF | HN | 43 | 13 | ES | | 1728 | 47.25 | -.050 | | | | | | | 1.0 |
| MORF | HN | 43 | 13 | IAML | | 1728 | 49.82 | | | 3 | 0.1 | | | | |
| GRNL | CN | 132 | 7 | ES | | 1729 | 11.320 | .190 | | | | | | | 1.0 |
| GRNL | CN | 132 | 7 | IAML | | 1729 | 12.43 | | | 2 | 0.1 | | | | |

December 28 2023 Hour: 22:4 50.8 Lat: 36.18N Lon: 10.77W Depth: 30F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 226 | 56 | EP | | 22 5 | 21.68 | -.060 | | | | | | | 1.0 |
| MORF | HE | 226 | 56 | ES | | 22 5 | 44.470 | .120 | | | | | | | 1.0 |
| MORF | HN | 226 | 56 | IAML | | 22 5 | 45.84 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 290 | 42 | EP | | 22 5 | 29.51 | -.070 | | | | | | | 1.0 |

December 29 2023 Hour: 1:18 49.7 Lat: 7.12S Lon: 67.92E Depth: 6F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.0 secs

MID-INDIAN RIDGE Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9319 | 309 | EP | | 131 | 19.78 | -.010 | | | | | | | 1.0 |
| MORF | BZ | 9319 | 309 | IAMB | | 131 | 29.06 | | | 76 | 1.1 | | | | |
| GRNL | BZ | 9334 | 310 | EP | | 131 | 20.380 | .010 | | | | | | | 1.0 |

GRNL BZ 9334 310 IAmb 131 30.07 33 0.9

December 29 2023 Hour: 3:37 19.4 Lat: 6.95S Lon: 154.98E Depth: 10F Agency: IGL Distant Rms: 0.0 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ16206 | 337 | EPKP | | | 356 | 57.26 | -.030 | | | | | | | 1.0 |
| MORF | BZ16287 | 336 | EPKP | | | 356 | 58.610 | .030 | | | | | | | 1.0 |

December 29 2023 Hour: 5:21 53.5 Lat: 36.64N Lon: 9.70W Depth: 18F Agency: IGL Regional Magnitudes: 1.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 119 | 52 | EP | | 522 | 12.090 | .110 | | | | | | | 1.0 |
| MORF | HN | 119 | 52 | ES | | 522 | 25.560 | .070 | | | | | | | 1.0 |
| MORF | HN | 119 | 52 | IAML | | 522 | 27.62 | | | 3 | 0.2 | | | | |
| GRNL | CZ | 191 | 31 | EP | | 522 | 20.71 | -.190 | | | | | | | 1.0 |

December 29 2023 Hour: 12: 8 47.0 Lat: 38.78N Lon: 8.39W Depth: 18F Agency: IGL Regional Magnitudes: 3.4ML IGL Rms: 0.2 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| GGNV | HN | 67 | 264 | ES | | 12 | 9 | 5.59 | -.190 | | | | | | 1.0 |
| GGNV | HN | 67 | 264 | IAML | | 12 | 9 | 8.70 | | 1567 | 0.1 | | | | |
| GRNL | CZ | 76 | 192 | EP | | 12 | 8 | 59.400 | .120 | | | | | | 1.0 |
| GRNL | CE | 76 | 192 | ES | | 12 | 9 | 8.17 | -.070 | | | | | | 1.0 |
| GRNL | CN | 76 | 192 | IAML | | 12 | 9 | 9.76 | | 1294 | 0.2 | | | | |
| MORF | HZ | 165 | 188 | EP | | 12 | 9 | 11.08 | -.210 | | | | | | 1.0 |
| MORF | HZ | 165 | 188 | EPg | | 12 | 9 | 13.110 | .330 | | | | | | 1.0 |
| MORF | HN | 165 | 188 | ESg | | 12 | 9 | 31.610 | .020 | | | | | | 1.0 |
| MORF | HN | 165 | 188 | IAML | | 12 | 9 | 33.89 | | 330 | 0.1 | | | | |

December 29 2023 Hour: 22:18 49.6 Lat: 37.33N Lon: 8.60W Depth: 8F Agency: IGL Regional Magnitudes: 1.7ML IGL Rms: 0.2 secs

NW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 5 | 244 | EP | | 2218 | 50.97 | -.250 | | | | | | | 1.0 |
| MORF | HE | 5 | 244 | ES | | 2218 | 52.590 | .190 | | | | | | | 1.0 |
| MORF | HN | 5 | 244 | IAML | | 2218 | 53.36 | | | 693 | 0.1 | | | | |
| GRNL | CZ | 87 | 2 | EP | | 2219 | 3.800 | .120 | | | | | | | 1.0 |
| GRNL | CN | 87 | 2 | ES | | 2219 | 13.90 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 87 | 2 | IAML | | 2219 | 16.24 | | | 15 | 0.1 | | | | |

December 30 2023 Hour: 6:16 39.1 Lat: 54.61S Lon: 23.33W Depth: 13F Agency: IGL Distant Magnitudes: 5.7Mb IGL Rms: 0.0 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ10264 | 12 | EP | | | 629 | 48.45 | -.020 | | | | | | | 1.0 |
| MORF | BZ10264 | 12 | IAmb | | | 629 | 49.81 | | | 47 | 1.4 | | | | |
| GRNL | BZ10353 | 12 | EP | | | 629 | 52.100 | .020 | | | | | | | 1.0 |
| GRNL | BZ10353 | 12 | IAmb | | | 629 | 54.09 | | | 19 | 0.6 | | | | |

December 30 2023 Hour: 7: 5 0.2 Lat: 38.71N Lon: 7.89W Depth: 17F Agency: IGL Regional Magnitudes: 2.6ML IGL Rms: 0.1 secs

E ARRAIOLOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| GRNL | CZ | 90 | 222 | EP | | 7 | 5 | 14.750 | .180 | | | | | | 1.0 |
| GRNL | CE | 90 | 222 | ES | | 7 | 5 | 25.00 | -.030 | | | | | | 1.0 |
| GRNL | CE | 90 | 222 | IAML | | 7 | 5 | 26.09 | | 145 | 0.2 | | | | |
| GGNV | HE | 110 | 271 | ES | | 7 | 5 | 30.320 | .070 | | | | | | 1.0 |
| GGNV | HN | 110 | 271 | IAML | | 7 | 5 | 32.67 | | 118 | 0.2 | | | | |
| MORF | HZ | 170 | 204 | EP | | 7 | 5 | 24.99 | -.240 | | | | | | 1.0 |
| MORF | HE | 170 | 204 | ESg | | 7 | 5 | 46.11 | -.010 | | | | | | 1.0 |
| MORF | HN | 170 | 204 | IAML | | 7 | 5 | 49.23 | | 77 | 0.3 | | | | |

December 30 2023 Hour: 9:49 48.7 Lat: 38.72N Lon: 7.90W Depth: 20F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

E ARRAIOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 89 | 221 | EP | | 950 | 3.190 | .210 | | | | | | | 1.0 |
| GRNL | CN | 89 | 221 | ES | | 950 | 13.33 | -.070 | | | | | | | 1.0 |
| GRNL | CN | 89 | 221 | IAML | | 950 | 14.20 | | | 12 | 0.2 | | | | |
| MORF | HZ | 170 | 203 | EP | | 950 | 13.26 | -.150 | | | | | | | 1.0 |
| MORF | HE | 170 | 203 | ESg | | 950 | 34.57 | -.010 | | | | | | | 1.0 |
| MORF | HN | 170 | 203 | IAML | | 950 | 35.71 | | | 4 | 0.1 | | | | |

December 30 2023 Hour: 15:3 3.7 Lat: 6.45S Lon: 154.90E Depth: 93F Agency: IGL Distant
Rms: 0.1 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ16152 | 337 | EPKP | | | 1522 | 29.41 | -.150 | | | | | | | 1.0 |
| MORF | BZ16233 | 336 | EPKP | | | 1522 | 31.010 | .150 | | | | | | | 1.0 |

December 30 2023 Hour: 17:16 25.1 Lat: 2.96S Lon: 139.35E Depth: 39F Agency: IGL Distant
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

NEAR NORTH COAST OF PAPUA, INDONESIA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| GGNV | BZ14948 | 325 | EPP | | | 1738 | 10.420 | .100 | | | | | | | 1.0 |
| GGNV | BZ14948 | 325 | IAMs_20 | | | 1835 | 51.15 | | | 16512 | 23.2 | | | | |
| GRNL | BZ14956 | 324 | EPP | | | 1738 | 10.74 | -.090 | | | | | | | 1.0 |
| GRNL | BZ14956 | 324 | IAMs_20 | | | 1837 | 36.62 | | | 16159 | 23.3 | | | | |
| MORF | BZ15022 | 323 | EPP | | | 1738 | 14.59 | -.010 | | | | | | | 1.0 |
| MORF | BZ15022 | 323 | IAMs_20 | | | 1838 | 33.56 | | | 14709 | 24.9 | | | | |

December 30 2023 Hour: 20:43 24.2 Lat: 44.33N Lon: 17.93E Depth: 11F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

BOSNIA AND HERZEGOVINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 2315 | 262 | EP | | 2048 | 5.730 | .040 | | | | | | | 1.0 |
| GRNL | BZ | 2315 | 262 | IAMB | | 2048 | 7.59 | | | 55 | 1.1 | | | | |
| MORF | BZ | 2361 | 260 | EP | | 2048 | 10.25 | -.040 | | | | | | | 1.0 |
| MORF | BZ | 2361 | 260 | IAMB | | 2048 | 11.39 | | | 38 | 1.1 | | | | |

December 31 2023 Hour: 6:0 12.1 Lat: 37.07N Lon: 7.42W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 112 | 284 | EP | | 6 | 0 | 29.75 | -.160 | | | | | | 1.0 |
| MORF | HE | 112 | 284 | ES | | 6 | 0 | 43.040 | .160 | | | | | | 1.0 |
| MORF | HN | 112 | 284 | IAML | | 6 | 0 | 43.91 | | | 3 | 0.2 | | | |

December 31 2023 Hour: 8:42 57.9 Lat: 38.01N Lon: 8.27W Depth: 3F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.0 secs

SW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 28 | 292 | EP | | 843 | 2.590 | .040 | | | | | | | 1.0 |
| GRNL | CN | 28 | 292 | ES | | 843 | 5.89 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 28 | 292 | IAML | | 843 | 6.34 | | | 4 | 0.2 | | | | |

December 31 2023 Hour: 10:49 50.1 Lat: 38.72N Lon: 7.90W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

E ARRAIOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 90 | 221 | EP | | 1050 | 4.630 | .160 | | | | | | | 1.0 |
| GRNL | CN | 90 | 221 | ES | | 1050 | 14.78 | -.160 | | | | | | | 1.0 |
| GRNL | CE | 90 | 221 | IAML | | 1050 | 15.81 | | | 3 | 0.2 | | | | |

December 31 2023 Hour: 13:250.6 Lat: 37.33N Lon: 8.62W Depth: 10F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 4 | 220 | EP | | 13 | 2 | 52.29 | -.140 | | | | | | 1.0 |
| MORF | HE | 4 | 220 | ES | | 13 | 2 | 53.900 | .140 | | | | | | 1.0 |
| MORF | HE | 4 | 220 | IAML | | 13 | 2 | 54.16 | | 34 | 0.1 | | | | |

December 31 2023 Hour: 14:2737.9 Lat: 36.77N Lon: 105.03E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

GANSU-NINGXIA BORDER REGION, CHINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9287 | 313 | EP | | 1440 | 6.15 | -.000 | | | | | | | 1.0 |
| GRNL | BZ | 9287 | 313 | IAMB | | 1440 | 9.01 | | | 116 | 1.9 | | | | |
| MORF | BZ | 9353 | 313 | EP | | 1440 | 9.250 | .000 | | | | | | | 1.0 |
| MORF | BZ | 9353 | 313 | IAMB | | 1440 | 12.43 | | | 45 | 1.4 | | | | |

December 31 2023 Hour: 21:1340.3 Lat: 36.59N Lon: 9.75W Depth: 13F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 126 | 50 | EP | | 2114 | 0.150 | .080 | | | | | | | 1.0 |
| GRNL | CZ | 198 | 31 | EP | | 2114 | 9.01 | -.090 | | | | | | | 1.0 |

December 31 2023 Hour: 22:3748.8 Lat: 37.80N Lon: 4.64W Depth: 4F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

SPAIN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 347 | 277 | EP | | 2238 | 36.98 | -.000 | | | | | | | 1.0 |
| MORF | HZ | 359 | 262 | EP | | 2238 | 38.37 | -.100 | | | | | | | 1.0 |
| MORF | HN | 359 | 262 | ES | | 2239 | 14.820 | .100 | | | | | | | 1.0 |
| MORF | HN | 359 | 262 | IAML | | 2239 | 17.36 | | | 11 | 0.1 | | | | |