

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

March to April

2023

Instituto D. Luiz
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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 |

March 1 2023 Hour: 4:59 45.8 Lat: 36.64N Lon: 12.79W Depth: 31F Agency: IGL Regional
Magnitudes: 2.3ML 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 | 375 | 77 | EP | | 5 0 | 34.620 | .110 | | | | | | | 1.0 |
| MORF | HE | 375 | 77 | ES | | 5 1 | 9.90 | -.140 | | | | | | | 1.0 |
| MORF | HE | 375 | 77 | IAML | | 5 1 | 12.03 | | 6 | 0.1 | | | | | |
| GRNL | CZ | 408 | 65 | EP | | 5 0 | 38.31 | -.060 | | | | | | | 1.0 |
| GRNL | CN | 408 | 65 | ES | | 5 1 | 16.820 | .100 | | | | | | | 1.0 |
| GRNL | CE | 408 | 65 | IAML | | 5 1 | 19.51 | | 9 | 0.1 | | | | | |

March 1 2023 Hour: 5:36 12.9 Lat: 4.81S Lon: 149.49E Depth: 599F Agency: IGL Distant
Rms: 0.1 secs

BISMARCK SEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ15704 | 333 | EP | PKP | | 554 | 35.540 | .100 | | | | | | | 1.0 |
| GRNL | BZ15729 | 332 | EP | PKP | | 554 | 35.68 | -.170 | | | | | | | 0.9 |
| MESJ | BZ15734 | 331 | EP | PKP | | 554 | 35.93 | -.020 | | | | | | | 1.0 |
| MORF | BZ15805 | 331 | EP | PKP | | 554 | 37.200 | .080 | | | | | | | 1.0 |

March 1 2023 Hour: 8:45 39.5 Lat: 36.33N Lon: 6.45W Depth: 27F Agency: IGL Regional
Magnitudes: 2.0ML 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HN | 225 | 299 | ES | | 846 | 33.100 | .080 | | | | | | | 1.0 |
| MORF | HE | 225 | 299 | IAML | | 846 | 35.05 | | 11 | 0.1 | | | | | |
| MESJ | HZ | 230 | 317 | EP | | 846 | 10.93 | -.150 | | | | | | | 1.0 |
| MESJ | HE | 230 | 317 | ES | | 846 | 34.240 | .100 | | | | | | | 1.0 |
| MESJ | HN | 230 | 317 | IAML | | 846 | 36.71 | | 7 | 0.2 | | | | | |
| GRNL | CZ | 273 | 317 | EP | | 846 | 16.27 | -.110 | | | | | | | 1.0 |
| GRNL | CE | 273 | 317 | ES | | 846 | 43.400 | .080 | | | | | | | 1.0 |
| GRNL | CN | 273 | 317 | IAML | | 846 | 44.60 | | 9 | 0.2 | | | | | |

March 1 2023 Hour: 22:14 4.1 Lat: 38.03N Lon: 8.28W Depth: 9F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs

W FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 22 | 166 | EP | | 2214 | 8.090 | .130 | | | | | | | 1.0 |
| MESJ | HE | 22 | 166 | ES | | 2214 | 10.76 | -.010 | | | | | | | 1.0 |
| GRNL | CZ | 27 | 289 | EP | | 2214 | 8.64 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 27 | 289 | ES | | 2214 | 11.90 | -.100 | | | | | | | 1.0 |
| GRNL | CN | 27 | 289 | IAML | | 2214 | 12.59 | | 3 | 0.1 | | | | | |

March 2 2023 Hour: 4:40 44.6 Lat: 16.32N Lon: 94.27W Depth: 100F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.1 secs

OAXACA, MEXICO Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ | 8485 | 53 | EP | | 452 | 22.32 | -.020 | | | | | | | 1.0 |
| GGNV | BZ | 8485 | 53 | IAmb | | 452 | 23.53 | | 327 | 1.3 | | | | | |
| GRNL | BZ | 8547 | 54 | EP | | 452 | 25.47 | -.030 | | | | | | | 1.0 |
| GRNL | BZ | 8547 | 54 | IAmb | | 452 | 26.98 | | 74 | 1.0 | | | | | |
| MORF | BZ | 8556 | 55 | EP | | 452 | 26.190 | .160 | | | | | | | 1.0 |
| MORF | BZ | 8556 | 55 | IAmb | | 452 | 27.34 | | 102 | 1.1 | | | | | |
| MESJ | BZ | 8583 | 54 | EP | | 452 | 27.21 | -.100 | | | | | | | 1.0 |
| MESJ | BZ | 8583 | 54 | IAmb | | 452 | 28.98 | | 76 | 1.1 | | | | | |

March 2 2023 Hour: 6:47 0.0 Lat: 36.42N Lon: 8.98W Depth: 11F 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 | 102 | 17 | EP | | 647 | 16.04 | -.190 | | | | | | | 1.0 |
| MORF | HE | 102 | 17 | ES | | 647 | 28.170 | .120 | | | | | | | 1.0 |
| MORF | HN | 102 | 17 | IAML | | 647 | 30.68 | | 10 | 0.1 | | | | | |

MESJ HN 171 23 ES 647 44.360.080 1.0
 MESJ HN 171 23 IAML 647 49.55 1 0.3

March 2 2023 Hour: 18: 4 31.1 Lat: 15.41S Lon: 166.37E Depth: 10F Agency: IGL Distant
Magnitudes: 6.7Ms 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 | BZ17412 | 351 | EP | KP | | 1824 | 25.32 | -.150 | | | | | | | 1.0 |
| GGNV | BZ17412 | 351 | EPP | | | 1828 | 32.560 | .060 | | | | | | | 1.0 |
| GGNV | BZ17412 | 351 | IAMs | 20 | | 1941 | 8.88 | | 8637 | 14.5 | | | | | |
| GRNL | BZ17468 | 350 | EP | KP | | 1824 | 26.05 | -.090 | | | | | | | 1.0 |
| GRNL | BZ17468 | 350 | EPP | | | 1828 | 35.390 | .100 | | | | | | | 1.0 |
| GRNL | BE17468 | 350 | IAMs | 20 | | 1942 | 59.42 | | 9710 | 19.9 | | | | | |
| MESJ | BZ17490 | 349 | EP | KP | | 1824 | 26.33 | -.080 | | | | | | | 1.0 |
| MESJ | BZ17490 | 349 | EPP | | | 1828 | 36.510 | .110 | | | | | | | 1.0 |
| MESJ | BZ17490 | 349 | IAMs | 20 | | 1943 | 33.63 | | 11016 | 18.0 | | | | | |
| MORF | BZ17557 | 349 | EP | KP | | 1824 | 27.240 | .020 | | | | | | | 1.0 |
| MORF | BZ17557 | 349 | EPP | | | 1828 | 39.790 | .040 | | | | | | | 1.0 |
| MORF | BZ17557 | 349 | IAMs | 20 | | 1947 | 17.01 | | 8728 | 16.3 | | | | | |

March 2 2023 Hour: 18:41 9.3 Lat: 36.88N Lon: 8.28W Depth: 11F 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 58 | 326 | EP | | 1841 | 18.900 | .070 | | | | | | | 1.0 |
| MORF | HN | 58 | 326 | ES | | 1841 | 25.800 | .040 | | | | | | | 1.0 |
| MORF | HN | 58 | 326 | IAML | | 1841 | 27.88 | | 35 | 0.1 | | | | | |
| MESJ | HZ | 107 | 3 | EP | | 1841 | 26.21 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 107 | 3 | ES | | 1841 | 38.54 | -.140 | | | | | | | 1.0 |
| MESJ | HE | 107 | 3 | IAML | | 1841 | 40.97 | | 8 | 0.1 | | | | | |
| GRNL | CZ | 139 | 350 | EP | | 1841 | 31.010 | .060 | | | | | | | 1.0 |
| GRNL | CN | 139 | 350 | ES | | 1841 | 46.780 | .070 | | | | | | | 1.0 |
| GRNL | CN | 139 | 350 | IAML | | 1841 | 48.83 | | 15 | 0.2 | | | | | |

March 2 2023 Hour: 18:41 59.6 Lat: 37.44N Lon: 8.27W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

SW ALMODOVAR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 37 | 246 | EP | | 1842 | 5.74 | -.130 | | | | | | | 1.0 |
| MORF | HN | 37 | 246 | ES | | 1842 | 10.430 | .000 | | | | | | | 1.0 |
| MORF | HN | 37 | 246 | IAML | | 1842 | 11.14 | | 7 | 0.1 | | | | | |
| MESJ | HN | 45 | 5 | ES | | 1842 | 12.450 | .070 | | | | | | | 1.0 |
| MESJ | HE | 45 | 5 | IAML | | 1842 | 12.77 | | 5 | 0.1 | | | | | |
| GRNL | CZ | 79 | 340 | EP | | 1842 | 12.32 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 79 | 340 | ES | | 1842 | 21.700 | .070 | | | | | | | 1.0 |
| GRNL | CN | 79 | 340 | IAML | | 1842 | 23.44 | | 9 | 0.2 | | | | | |

March 2 2023 Hour: 23:38 16.3 Lat: 37.30N Lon: 8.56W Depth: 10F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

S MONCHIQUÉ, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 8 | 270 | EP | | 2338 | 18.29 | -.170 | | | | | | | 1.0 |
| MORF | HE | 8 | 270 | ES | | 2338 | 20.180 | .140 | | | | | | | 1.0 |
| MORF | HN | 8 | 270 | IAML | | 2338 | 20.92 | | 17 | 0.1 | | | | | |
| GRNL | CN | 89 | 359 | ES | | 2338 | 41.100 | .040 | | | | | | | 1.0 |
| GRNL | CN | 89 | 359 | IAML | | 2338 | 41.66 | | 1 | 0.2 | | | | | |

March 3 2023 Hour: 1:45 29.6 Lat: 36.57N Lon: 9.75W Depth: 13F 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 | 127 | 50 | EP | | 145 | 49.690 | .140 | | | | | | | 1.0 |
| MORF | HE | 127 | 50 | ES | | 146 | 4.07 | -.060 | | | | | | | 1.0 |
| MORF | HN | 127 | 50 | IAML | | 146 | 4.74 | | 4 | 0.1 | | | | | |

| | | | | | | | | | | | | | | | | | | |
|------|----|-----|----|------|--|-----|--------|-------|--|------|-----|--|--|--|--|--|--|-----|
| MESJ | HE | 196 | 44 | ES | | 146 | 18.920 | .140 | | | | | | | | | | 1.0 |
| MESJ | HE | 196 | 44 | IAML | | 146 | 20.88 | | | 0.80 | 0.1 | | | | | | | |
| GRNL | CZ | 200 | 31 | EP | | 145 | 58.36 | -.210 | | | | | | | | | | 1.0 |
| GRNL | CE | 200 | 31 | ES | | 146 | 19.72 | -.020 | | | | | | | | | | 1.0 |
| GRNL | CN | 200 | 31 | IAML | | 146 | 20.95 | | | 3 | 0.2 | | | | | | | |

March 3 2023 Hour: 1:53 26.1 Lat: 17.14S Lon: 72.70W Depth: 19F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

NEAR COAST OF SOUTHERN PERU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9062 | 46 | EP | | 2 5 | 41.87 | -.080 | | | | | | | 1.0 |
| GRNL | BZ | 9062 | 46 | IAMB | | 2 5 | 43.56 | | | 34 | 1.3 | | | | |
| MESJ | BZ | 9074 | 46 | EP | | 2 5 | 42.61 | 0.080 | | | | | | | 1.0 |
| MESJ | BZ | 9074 | 46 | IAMB | | 2 5 | 44.20 | | | 13 | 0.8 | | | | |

March 3 2023 Hour: 5:50 47.8 Lat: 35.66N Lon: 7.01W Depth: 32F Agency: IGL Regional
Magnitudes: 1.3ML 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 |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 235 | 322 | EP | | 551 | 19.66 | -.120 | | | | | | | 1.0 |
| MESJ | HZ | 265 | 336 | EP | | 551 | 23.74 | 0.210 | | | | | | | 1.0 |
| MESJ | HE | 265 | 336 | ES | | 551 | 49.51 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 265 | 336 | IAML | | 551 | 50.52 | | | 2 | 0.2 | | | | |

March 3 2023 Hour: 13:19 52.8 Lat: 36.56N Lon: 9.77W Depth: 15F 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 | 129 | 50 | EP | | 1320 | 12.91 | 0.060 | | | | | | | 1.0 |
| MORF | HN | 129 | 50 | ES | | 1320 | 27.63 | 0.170 | | | | | | | 1.0 |
| MORF | HE | 129 | 50 | IAML | | 1320 | 28.73 | | | 7 | 0.1 | | | | |
| MESJ | HZ | 197 | 44 | EP | | 1320 | 21.25 | -.060 | | | | | | | 1.0 |
| GRNL | CZ | 202 | 31 | EP | | 1320 | 21.59 | -.260 | | | | | | | 1.0 |
| GRNL | CN | 202 | 31 | ES | | 1320 | 43.11 | 0.080 | | | | | | | 1.0 |
| GRNL | CE | 202 | 31 | IAML | | 1320 | 44.69 | | | 4 | 0.1 | | | | |

March 3 2023 Hour: 15:43 28.7 Lat: 34.63N Lon: 3.77W Depth: 9F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs

MOROCCO Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 536 | 313 | EP | | 1544 | 39.45 | 0.010 | | | | | | | 1.0 |
| GRNL | CZ | 578 | 313 | EP | | 1544 | 44.59 | -.010 | | | | | | | 1.0 |

March 3 2023 Hour: 20:56 52.3 Lat: 38.18N Lon: 8.06W Depth: 2F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

SW ALVITO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 40 | 200 | EP | | 2056 | 58.86 | 0.030 | | | | | | | 1.0 |
| MESJ | HN | 40 | 200 | ES | | 2057 | 3.47 | -.120 | | | | | | | 1.0 |
| MESJ | HN | 40 | 200 | IAML | | 2057 | 4.17 | | | 5 | 0.2 | | | | |
| GRNL | CZ | 45 | 260 | EP | | 2056 | 59.81 | 0.170 | | | | | | | 1.0 |
| GRNL | CE | 45 | 260 | ES | | 2057 | 4.90 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 45 | 260 | IAML | | 2057 | 5.68 | | | 17 | 0.1 | | | | |

March 4 2023 Hour: 0:23 3.9 Lat: 36.82N Lon: 8.77W Depth: 27F Agency: IGL Regional
Magnitudes: 0.6ML 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 | 55 | 11 | EP | | 023 | 13.42 | 0.080 | | | | | | | 1.0 |
| MORF | HN | 55 | 11 | ES | | 023 | 20.14 | -.080 | | | | | | | 1.0 |
| MORF | HN | 55 | 11 | IAML | | 023 | 20.88 | | | 3 | 0.2 | | | | |

March 4 2023 Hour: 1:25 39.8 Lat: 34.63N Lon: 3.75W Depth: 14F 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 |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 536 | 313 | EP | | 126 | 50.110 | .000 | | | | | | | 1.0 |

March 4 2023 Hour: 6:41 23.2 Lat: 29.47S Lon: 178.79W Depth: 206F Agency: IGL Distant
Rms: 0.1 secs

KERMADEC ISLANDS, NEW ZEALAND Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GGNV | BZ18621 | 40 | EP | PKPdf | | 7 1 | 3.940 | .070 | | | | | | | 1.0 |
| GGNV | BZ18621 | 40 | EP | PKPdf | | 7 1 | 57.620 | .130 | | | | | | | 1.0 |
| GGNV | BZ18621 | 40 | EP | PKPab | | 7 2 | 10.860 | .220 | | | | | | | 0.9 |
| GGNV | BZ18621 | 40 | EP | P | | 7 5 | 59.64- | .020 | | | | | | | 1.0 |
| GRNL | BZ18704 | 41 | EP | PKPdf | | 7 1 | 4.510 | .090 | | | | | | | 1.0 |
| GRNL | BZ18704 | 41 | EP | PKPdf | | 7 1 | 58.02- | .030 | | | | | | | 1.0 |
| GRNL | BZ18704 | 41 | EP | PKPab | | 7 2 | 13.81- | .180 | | | | | | | 0.9 |
| MESJ | BZ18747 | 41 | EP | PKPdf | | 7 1 | 4.780 | .090 | | | | | | | 1.0 |
| MESJ | BZ18747 | 41 | EP | PKPdf | | 7 1 | 58.33- | .000 | | | | | | | 1.0 |
| MESJ | BZ18747 | 41 | EP | PKPab | | 7 2 | 15.60- | .110 | | | | | | | 1.0 |
| MESJ | BZ18747 | 41 | EP | P | | 7 6 | 5.520 | .090 | | | | | | | 1.0 |
| MORF | BZ18759 | 44 | EP | PKPdf | | 7 1 | 4.940 | .120 | | | | | | | 1.0 |
| MORF | BZ18759 | 44 | EP | PKPab | | 7 2 | 15.98- | .280 | | | | | | | 0.9 |
| MORF | BZ18759 | 44 | EP | P | | 7 6 | 5.71- | .300 | | | | | | | 0.8 |

March 4 2023 Hour: 11:17 23.1 Lat: 37.35N Lon: 7.51W Depth: 0 Agency: IGL Regional
Magnitudes: 1.2ML 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 | 83 | 311 | EP | | 1117 | 36.33- | .140 | | | | | | | 1.0 |
| MESJ | HN | 83 | 311 | ES | | 1117 | 46.16- | .060 | | | | | | | 1.0 |
| MESJ | HN | 83 | 311 | IAML | | 1117 | 48.32 | | | 8 | 0.2 | | | | |
| MORF | HZ | 101 | 268 | EP | | 1117 | 39.610 | .190 | | | | | | | 1.0 |
| GRNL | CZ | 126 | 312 | EP | | 1117 | 43.370 | .010 | | | | | | | 1.0 |

March 4 2023 Hour: 22:55 8.5 Lat: 36.63N Lon: 4.40W Depth: 20F Agency: IGL Regional
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 | 364 | 293 | EP | | 2255 | 57.430 | .080 | | | | | | | 1.0 |
| GRNL | CZ | 404 | 295 | EP | | 2256 | 2.17- | .080 | | | | | | | 1.0 |

March 5 2023 Hour: 6: 2 15.9 Lat: 37.03N Lon: 5.27W 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 | 276 | 290 | EP | | 6 2 | 55.33- | .020 | | | | | | | 1.0 |
| GRNL | CZ | 315 | 293 | EP | | 6 3 | 0.200 | .020 | | | | | | | 1.0 |

March 5 2023 Hour: 19:25 42.5 Lat: 16.16S Lon: 73.44W Depth: 57F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

NEAR COAST OF SOUTHERN PERU Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9044 | 46 | EP | | 1937 | 52.630 | .010 | | | | | | | 1.0 |
| GRNL | BZ | 9044 | 46 | IAMB | | 1937 | 57.13 | | | 22 | 1.1 | | | | |

March 5 2023 Hour: 19:45 18.3 Lat: 33.16N Lon: 5.86W Depth: 27F 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 | 526 | 332 | EP | | 1946 | 26.06- | .130 | | | | | | | 1.0 |
| MESJ | HZ | 562 | 338 | EP | | 1946 | 30.590 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 602 | 337 | EP | | 1946 | 35.450 | .090 | | | | | | | 1.0 |

March 6 2023 Hour: 4:4 7.1 Lat: 36.70N Lon: 8.01W Depth: 24F 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 | 89 | 320 | EP | | 4 | 4 | 21.05 | | | | | | | 1.0 |
| MORF | HE | 89 | 320 | ES | | 4 | 4 | 31.42 | | | | | | | 1.0 |
| MORF | HE | 89 | 320 | IAML | | 4 | 4 | 32.41 | | 8 | 0.2 | | | | |
| MESJ | HZ | 128 | 352 | EP | | 4 | 4 | 26.400 | | | | | | | 1.0 |
| MESJ | HE | 128 | 352 | ES | | 4 | 4 | 40.300 | | | | | | | 1.0 |
| MESJ | HN | 128 | 352 | IAML | | 4 | 4 | 41.20 | | 3 | 0.1 | | | | |
| GRNL | CZ | 164 | 343 | EP | | 4 | 4 | 30.74 | | | | | | | 1.0 |

March 6 2023 Hour: 5:32 6.4 Lat: 36.38N Lon: 9.91W Depth: 32F 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 | 152 | 47 | EP | | 532 | 28.120 | 0.090 | | | | | | | 1.0 |
| MORF | HN | 152 | 47 | ES | | 532 | 43.900 | 0.060 | | | | | | | 1.0 |
| MORF | HE | 152 | 47 | IAML | | 532 | 46.10 | | | 25 | 0.1 | | | | |
| MESJ | HZ | 221 | 42 | EP | | 532 | 36.620 | 0.060 | | | | | | | 1.0 |
| MESJ | HN | 221 | 42 | ES | | 532 | 58.53 | -0.080 | | | | | | | 1.0 |
| MESJ | HN | 221 | 42 | IAML | | 533 | 0.83 | | | 5 | 0.2 | | | | |
| GRNL | CZ | 226 | 31 | EP | | 532 | 37.02 | -0.140 | | | | | | | 1.0 |
| GRNL | CN | 226 | 31 | ES | | 532 | 59.650 | 0.010 | | | | | | | 1.0 |
| GRNL | CN | 226 | 31 | IAML | | 533 | 1.92 | | | 9 | 0.2 | | | | |

March 6 2023 Hour: 6:33 8.8 Lat: 36.46N Lon: 10.63W Depth: 10F 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 | 200 | 61 | EP | | 633 | 38.080 | 0.020 | | | | | | | 1.0 |
| MORF | HE | 200 | 61 | ES | | 633 | 59.32 | -0.100 | | | | | | | 1.0 |
| MORF | HE | 200 | 61 | IAML | | 634 | 0.44 | | | 5 | 0.1 | | | | |
| GRNL | CZ | 259 | 44 | EP | | 633 | 45.31 | -0.050 | | | | | | | 1.0 |
| GRNL | CN | 259 | 44 | ES | | 634 | 12.220 | 0.170 | | | | | | | 1.0 |
| GRNL | CN | 259 | 44 | IAML | | 634 | 13.27 | | | 3 | 0.1 | | | | |
| MESJ | HZ | 263 | 54 | EP | | 633 | 45.90 | -0.030 | | | | | | | 1.0 |

March 6 2023 Hour: 19:4 27.6 Lat: 35.46N Lon: 3.63W Depth: 0 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 | 488 | 304 | EP | | 19 | 5 | 33.46 | | | | | | | 1.0 |

March 6 2023 Hour: 21:0 0.7 Lat: 20.87S Lon: 178.30W Depth: 525F Agency: IGL Distant
Rms: 0.2 secs

FIJI REGION Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|--------|-------|---|------|--------|--------|------|------|------|-----|------|------|-----|
| GRNL | BZ17877 | 25 | EPKpdf | | | 2118 | 59.760 | 0.130 | | | | | | | 1.0 |
| GRNL | BZ17877 | 25 | EPKPab | | | 2119 | 45.29 | -0.200 | | | | | | | 1.0 |
| MESJ | BZ17918 | 25 | EPKpdf | | | 2119 | 0.170 | 0.130 | | | | | | | 1.0 |
| MORF | BZ17950 | 27 | EPKpdf | | | 2119 | 0.550 | 0.150 | | | | | | | 1.0 |
| MORF | BZ17950 | 27 | EPKPab | | | 2119 | 48.22 | -0.220 | | | | | | | 1.0 |

March 7 2023 Hour: 2:19 49.7 Lat: 38.36N Lon: 9.44W Depth: 1F Agency: IGL Regional
Magnitudes: 0.9ML 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 | 81 | 110 | EP | | 220 | 2.63 | -0.110 | | | | | | | 1.0 |
| GRNL | CN | 81 | 110 | ES | | 220 | 12.400 | 0.110 | | | | | | | 1.0 |
| GRNL | CN | 81 | 110 | IAML | | 220 | 13.04 | | | 4 | 0.2 | | | | |

March 7 2023 Hour: 4:150.1 Lat: 36.95N Lon: 8.95W 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 | 47 | 35 | EP | | 4 | 1 | 58.780.050 | | | | | | | 1.0 |
| MORF | HE | 47 | 35 | ES | | 4 | 2 | 4.98-.080 | | | | | | | 1.0 |
| MORF | HE | 47 | 35 | IAML | | 4 | 2 | 5.78 | | 113 | 0.2 | | | | |
| MESJ | HZ | 118 | 33 | EP | | 4 | 2 | 7.660.200 | | | | | | | 1.0 |
| GRNL | CZ | 133 | 15 | EP | | 4 | 2 | 9.04-.230 | | | | | | | 1.0 |
| GRNL | CN | 133 | 15 | ES | | 4 | 2 | 23.360.060 | | | | | | | 1.0 |
| GRNL | CN | 133 | 15 | IAML | | 4 | 2 | 23.81 | | 5 | 0.2 | | | | |

March 7 2023 Hour: 17:29.7 Lat: 36.91N Lon: 10.66W Depth: 10F 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 | 184 | 76 | EP | | 17 | 2 | 36.990.020 | | | | | | | 1.0 |
| MORF | HE | 184 | 76 | ES | | 17 | 2 | 56.900.010 | | | | | | | 1.0 |
| MORF | HE | 184 | 76 | IAML | | 17 | 2 | 57.56 | | 5 | 0.1 | | | | |
| GRNL | CZ | 228 | 54 | EP | | 17 | 2 | 42.26-.120 | | | | | | | 1.0 |
| GRNL | CN | 228 | 54 | ES | | 17 | 3 | 6.340.090 | | | | | | | 1.0 |
| GRNL | CN | 228 | 54 | IAML | | 17 | 3 | 8.73 | | 8 | 0.2 | | | | |

March 7 2023 Hour: 17:18 12.7 Lat: 38.02N Lon: 8.63W Depth: 11F Agency: IGL Regional
Magnitudes: 1.7ML 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 | 11 | 28 | EP | | 1718 | 15.09-.130 | | | | | | | | 1.0 |
| GRNL | CN | 11 | 28 | ES | | 1718 | 17.170.080 | | | | | | | | 1.0 |
| GRNL | CN | 11 | 28 | IAML | | 1718 | 17.25 | | | 546 | 0.1 | | | | |
| MESJ | HZ | 41 | 119 | EP | | 1718 | 19.38-.140 | | | | | | | | 1.0 |
| MESJ | HE | 41 | 119 | ES | | 1718 | 24.570.040 | | | | | | | | 1.0 |
| MESJ | HN | 41 | 119 | IAML | | 1718 | 25.30 | | | 31 | 0.1 | | | | |
| MORF | HZ | 79 | 182 | EP | | 1718 | 25.500.090 | | | | | | | | 1.0 |
| MORF | HE | 79 | 182 | ES | | 1718 | 34.780.060 | | | | | | | | 1.0 |
| MORF | HE | 79 | 182 | IAML | | 1718 | 36.11 | | | 29 | 0.1 | | | | |

March 7 2023 Hour: 17:26 6.0 Lat: 38.02N Lon: 8.63W Depth: 9F Agency: IGL Regional
Magnitudes: 0.4ML 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 | 11 | 26 | EP | | 1726 | 8.31-.100 | | | | | | | | 1.0 |
| GRNL | CN | 11 | 26 | ES | | 1726 | 10.350.220 | | | | | | | | 1.0 |
| GRNL | CN | 11 | 26 | IAML | | 1726 | 10.46 | | | 22 | 0.1 | | | | |
| MESJ | HZ | 41 | 119 | EP | | 1726 | 12.60-.180 | | | | | | | | 1.0 |
| MESJ | HE | 41 | 119 | ES | | 1726 | 17.750.050 | | | | | | | | 1.0 |
| MESJ | HN | 41 | 119 | IAML | | 1726 | 18.91 | | | 2 | 0.1 | | | | |

March 7 2023 Hour: 20:31 31.6 Lat: 0.26S Lon: 124.57E Depth: 55F Agency: IGL Distant
Rms: 0.1 secs

MOLUCCA SEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|------------|------|------|------|------|-----|------|------|-----|
| MESJ | BZ13662 | 316 | EP | KPdf | | 2050 | 21.040.100 | | | | | | | | 1.0 |
| GRNL | BZ13674 | 317 | EP | KPdf | | 2050 | 21.12-.010 | | | | | | | | 1.0 |
| MORF | BZ13724 | 316 | EP | KPdf | | 2050 | 21.97-.090 | | | | | | | | 1.0 |

March 8 2023 Hour: 6:335.9 Lat: 50.13N Lon: 157.44E Depth: 36F Agency: IGL Distant
Magnitudes: 5.4Ms 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 |
|------|---------|------|---------|-------|---|------|------------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ10166 | 349 | EP | | | 616 | 37.86-.160 | | | | | | | | 1.0 |
| MESJ | BZ10166 | 349 | IAMs_20 | | | 7 | 4 | 35.22 | | 1506 | 21.9 | | | | |
| MORF | BZ10230 | 349 | EP | | | 616 | 40.920.160 | | | | | | | | 1.0 |

MORF BZ10230 349 IAMs_20 655 30.59 1165 19.2

**March 8 2023 Hour: 6:30 34.8 Lat: 36.66N Lon: 10.55W Depth: 30F 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 | 183 | 66 | EP | | 631 | 0.40 | -.010 | | | | | | | 1.0 |
| MORF | HN | 183 | 66 | ES | | 631 | 19.330 | .220 | | | | | | | 1.0 |
| MORF | HN | 183 | 66 | IAML | | 631 | 20.58 | | 14 | 0.2 | | | | | |
| GRNL | CZ | 238 | 47 | EP | | 631 | 7.09 | -.070 | | | | | | | 1.0 |
| MESJ | HZ | 245 | 57 | EP | | 631 | 7.90 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 245 | 57 | ES | | 631 | 32.16 | -.060 | | | | | | | 1.0 |
| MESJ | HN | 245 | 57 | IAML | | 631 | 34.45 | | 3 | 0.1 | | | | | |

**March 8 2023 Hour: 7:3 49.8 Lat: 37.31N Lon: 8.55W Depth: 10F Agency: IGL Regional
Magnitudes: 0.7ML 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 | 265 | EP | | 7 3 | 52.120 | .020 | | | | | | | 1.0 |
| MORF | HN | 9 | 265 | ES | | 7 3 | 53.860 | .100 | | | | | | | 1.0 |
| MORF | HN | 9 | 265 | IAML | | 7 3 | 54.31 | | 57 | 0.2 | | | | | |
| MESJ | HN | 65 | 26 | ES | | 7 4 | 8.03 | -.220 | | | | | | | 1.0 |
| MESJ | HE | 65 | 26 | IAML | | 7 4 | 8.80 | | 1 | 0.1 | | | | | |
| GRNL | CN | 88 | 359 | ES | | 7 4 | 14.440 | .100 | | | | | | | 1.0 |
| GRNL | CE | 88 | 359 | IAML | | 7 4 | 15.53 | | 3 | 0.2 | | | | | |

**March 8 2023 Hour: 7:33 10.1 Lat: 6.52S Lon: 154.96E Depth: 60F 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 | BZ16161 | 337 | EPKP | | | 752 | 40.13 | -.100 | | | | | | | 1.0 |
| MESJ | BZ16172 | 336 | EPKP | | | 752 | 40.510 | .100 | | | | | | | 1.0 |

**March 8 2023 Hour: 21:52 16.9 Lat: 36.93N Lon: 8.26W Depth: 22F Agency: IGL Regional
Magnitudes: 2.6ML 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 | 54 | 320 | EP | | 2152 | 26.05 | -.010 | | | | | | | 1.0 |
| MORF | HN | 54 | 320 | ES | | 2152 | 32.800 | .060 | | | | | | | 1.0 |
| MORF | HE | 54 | 320 | IAML | | 2152 | 33.49 | | 552 | 0.2 | | | | | |
| MESJ | HZ | 101 | 2 | EP | | 2152 | 32.66 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 101 | 2 | ES | | 2152 | 44.290 | .020 | | | | | | | 1.0 |
| MESJ | HE | 101 | 2 | IAML | | 2152 | 46.47 | | 65 | 0.1 | | | | | |
| GRNL | CZ | 133 | 348 | EP | | 2152 | 36.60 | -.230 | | | | | | | 1.0 |
| GRNL | CN | 133 | 348 | ESg | | 2152 | 53.370 | .230 | | | | | | | 1.0 |
| GRNL | CE | 133 | 348 | IAML | | 2152 | 55.59 | | 117 | 0.2 | | | | | |

**March 9 2023 Hour: 4:3 41.7 Lat: 35.45N Lon: 3.65W Depth: 1F 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 | 487 | 304 | EP | | 4 4 | 47.41 | -.050 | | | | | | | 1.0 |
| GRNL | CZ | 529 | 305 | EP | | 4 4 | 52.580 | .050 | | | | | | | 1.0 |

**March 9 2023 Hour: 18:7 13.0 Lat: 37.34N Lon: 8.54W Depth: 10F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs**

NE MONCHIQUE, PORTUGAL Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 11 | 248 | EP | | 18 7 | 15.41 | -.040 | | | | | | | 1.0 |
| MORF | HE | 11 | 248 | ES | | 18 7 | 17.280 | .040 | | | | | | | 1.0 |
| MORF | HE | 11 | 248 | IAML | | 18 7 | 17.65 | | 30 | 0.1 | | | | | |

March 9 2023 Hour: 23:35 18.9 Lat: 36.14N Lon: 8.51W Depth: 23F 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 | 130 | 354 | EP | | 2335 | 38.50 | -.080 | | | | | | | 1.0 |
| MORF | HN | 130 | 354 | ES | | 2335 | 52.91 | -.060 | | | | | | | 1.0 |
| MORF | HN | 130 | 354 | IAML | | 2335 | 54.36 | | | 13 | 0.4 | | | | |
| MESJ | HE | 191 | 8 | ES | | 2336 | 6.070 | .140 | | | | | | | 1.0 |
| MESJ | HN | 191 | 8 | IAML | | 2336 | 6.63 | | | 2 | 0.2 | | | | |

March 9 2023 Hour: 23:54 10.5 Lat: 38.77N Lon: 8.61W Depth: 12F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

NW VENDAS NOVAS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 73 | 177 | EP | | 2354 | 22.320 | .030 | | | | | | | 1.0 |
| GRNL | CN | 73 | 177 | ES | | 2354 | 30.890 | .030 | | | | | | | 1.0 |
| GRNL | CE | 73 | 177 | IAML | | 2354 | 32.20 | | | 34 | 0.1 | | | | |
| MESJ | HZ | 108 | 161 | EP | | 2354 | 27.680 | .030 | | | | | | | 1.0 |
| MESJ | HE | 108 | 161 | ES | | 2354 | 40.05 | -.090 | | | | | | | 1.0 |
| MESJ | HN | 108 | 161 | IAML | | 2354 | 41.67 | | | 10 | 0.2 | | | | |

March 10 2023 Hour: 2:21 3.3 Lat: 37.31N Lon: 8.56W Depth: 14F Agency: IGL Regional
Magnitudes: 0.6ML 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 | 8 | 267 | EP | | 221 | 5.74 | -.240 | | | | | | | 1.0 |
| MORF | HE | 8 | 267 | ES | | 221 | 8.000 | .050 | | | | | | | 1.0 |
| MORF | HE | 8 | 267 | IAML | | 221 | 8.76 | | | 10 | 0.1 | | | | |
| MESJ | HN | 66 | 27 | ES | | 221 | 21.830 | .040 | | | | | | | 1.0 |
| MESJ | HE | 66 | 27 | IAML | | 221 | 23.13 | | | 2 | 0.1 | | | | |
| GRNL | CN | 89 | 359 | ES | | 221 | 27.910 | .170 | | | | | | | 1.0 |
| GRNL | CE | 89 | 359 | IAML | | 221 | 28.85 | | | 4 | 0.2 | | | | |

March 10 2023 Hour: 7:44 3.4 Lat: 37.28N Lon: 7.77W Depth: 0 Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE 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 | 79 | 272 | EP | | 744 | 16.210 | .110 | | | | | | | 1.0 |
| MORF | HN | 79 | 272 | ES | | 744 | 25.26 | -.110 | | | | | | | 1.0 |
| MORF | HN | 79 | 272 | IAML | | 744 | 26.39 | | | 4 | 0.1 | | | | |

March 10 2023 Hour: 9:18 40.9 Lat: 6.74N Lon: 73.04W Depth: 167F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

NORTHERN COLOMBIA Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 7305 | 52 | EP | | 929 | 7.240 | .070 | | | | | | | 1.0 |
| MORF | BZ | 7305 | 52 | IAMB | | 929 | 8.90 | | | 57 | 1.4 | | | | |
| MESJ | BZ | 7354 | 52 | EP | | 929 | 9.84 | -.070 | | | | | | | 1.0 |
| MESJ | BZ | 7354 | 52 | IAMB | | 929 | 12.39 | | | 10 | 0.8 | | | | |

March 10 2023 Hour: 17:48 40.1 Lat: 38.78N Lon: 7.97W Depth: 4F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NE ARRAIOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 91 | 215 | EP | | 1748 | 54.79 | -.090 | | | | | | | 1.0 |
| GRNL | CE | 91 | 215 | ES | | 1749 | 5.720 | .070 | | | | | | | 1.0 |
| GRNL | CE | 91 | 215 | IAML | | 1749 | 6.81 | | | 4 | 0.1 | | | | |
| MESJ | HZ | 107 | 192 | EP | | 1748 | 57.530 | .150 | | | | | | | 1.0 |
| MESJ | HN | 107 | 192 | ES | | 1749 | 9.86 | -.120 | | | | | | | 1.0 |
| MESJ | HN | 107 | 192 | IAML | | 1749 | 10.43 | | | 1 | 0.1 | | | | |

March 10 2023 Hour: 20:47 33.4 Lat: 5.35N Lon: 78.22W Depth: 18F Agency: IGL Distant
Magnitudes: 5.1Mb 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 | 7853 | 52 | EP | | 2058 | 47.48 | -.010 | | | | | | | 1.0 |
| MORF | BZ | 7853 | 52 | IAmb | | 2058 | 48.02 | | | 28 | 1.1 | | | | |
| GRNL | BZ | 7873 | 52 | EP | | 2058 | 48.49 | -.060 | | | | | | | 1.0 |
| GRNL | BZ | 7873 | 52 | IAmb | | 2058 | 49.28 | | | 10 | 0.9 | | | | |
| MESJ | BZ | 7899 | 52 | EP | | 2058 | 50.050 | .070 | | | | | | | 1.0 |
| MESJ | BZ | 7899 | 52 | IAmb | | 2058 | 50.61 | | | 14 | 0.9 | | | | |

March 11 2023 Hour: 1:7 6.0 Lat: 34.94N Lon: 3.93W Depth: 6F Agency: IGL Regional
Magnitudes: 2.0ML IGL 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 | 500 | 303 | EP | | 1 8 | 12.840 | .040 | | | | | | | 1.0 |
| MESJ | HZ | 502 | 311 | EP | | 1 8 | 13.110 | .090 | | | | | | | 1.0 |
| MESJ | HE | 502 | 311 | ES | | 1 9 | 1.85 | -.060 | | | | | | | 1.0 |
| MESJ | HE | 502 | 311 | IAML | | 1 9 | 4.88 | | | 3 | 0.2 | | | | |
| GRNL | CZ | 545 | 312 | EP | | 1 8 | 18.14 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 545 | 312 | ES | | 1 9 | 10.78 | -.050 | | | | | | | 1.0 |
| GRNL | CE | 545 | 312 | IAML | | 1 9 | 12.42 | | | 2 | 0.2 | | | | |

March 11 2023 Hour: 2:35 44.2 Lat: 36.42N Lon: 7.54W Depth: 32F Agency: IGL Regional
Magnitudes: 1.4ML 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 | 140 | 315 | EP | | 236 | 4.04 | -.300 | | | | | | | 1.0 |
| MORF | HN | 140 | 315 | ES | | 236 | 19.030 | .000 | | | | | | | 1.0 |
| MORF | HE | 140 | 315 | IAML | | 236 | 19.87 | | | 6 | 0.1 | | | | |
| MESJ | HZ | 169 | 339 | EP | | 236 | 8.130 | .190 | | | | | | | 1.0 |
| MESJ | HN | 169 | 339 | ES | | 236 | 25.280 | .030 | | | | | | | 1.0 |
| MESJ | HN | 169 | 339 | IAML | | 236 | 26.94 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 208 | 334 | EP | | 236 | 12.960 | .100 | | | | | | | 1.0 |
| GRNL | CN | 208 | 334 | ES | | 236 | 33.770 | .000 | | | | | | | 1.0 |
| GRNL | CN | 208 | 334 | IAML | | 236 | 36.48 | | | 3 | 0.1 | | | | |

March 11 2023 Hour: 8:40 2.2 Lat: 35.43N Lon: 3.63W Depth: 18F Agency: IGL Regional
Magnitudes: 1.4ML 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 | 490 | 304 | EP | | 841 | 6.550 | .010 | | | | | | | 1.0 |
| GRNL | CZ | 532 | 305 | EP | | 841 | 11.60 | -.010 | | | | | | | 1.0 |

March 11 2023 Hour: 12:25 18.2 Lat: 39.24N Lon: 9.01W Depth: 8F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

E CADAVAL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 131 | 163 | EP | | 1225 | 38.85 | -.120 | | | | | | | 1.0 |
| GRNL | CN | 131 | 163 | ES | | 1225 | 54.220 | .120 | | | | | | | 1.0 |
| GRNL | CN | 131 | 163 | IAML | | 1225 | 56.27 | | | 10 | 0.2 | | | | |

March 11 2023 Hour: 14:24 36.6 Lat: 37.58N Lon: 7.99W Depth: 5F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NE ALMODOVAR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 35 | 325 | EP | | 1424 | 42.29 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 35 | 325 | ES | | 1424 | 46.630 | .070 | | | | | | | 1.0 |
| MESJ | HN | 35 | 325 | IAML | | 1424 | 47.37 | | | 2 | 0.1 | | | | |

March 11 2023 Hour: 21:39 39.7 Lat: 36.46N Lon: 11.54W Depth: 40F 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 |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 321 | 54 | EP | | 2140 | 22.07 | -.150 | | | | | | | 1.0 |
| GRNL | CN | 321 | 54 | ES | | 2140 | 53.42 | 0.150 | | | | | | | 1.0 |
| GRNL | CN | 321 | 54 | IAML | | 2140 | 56.88 | | | 4 | 0.1 | | | | |

March 13 2023 Hour: 0: 2 39.6 Lat: 37.30N Lon: 8.57W Depth: 17F 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 | 271 | EP | | 0 2 | 42.44 | -.130 | | | | | | | 1.0 |
| MORF | HN | 7 | 271 | ES | | 0 2 | 44.91 | 0.130 | | | | | | | 1.0 |

March 13 2023 Hour: 2:47 30.6 Lat: 37.78N Lon: 8.34W Depth: 14F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

NW OURIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 12 | 58 | EP | | 247 | 33.70 | 0.100 | | | | | | | 1.0 |
| MESJ | HN | 12 | 58 | ES | | 247 | 35.91 | 0.140 | | | | | | | 1.0 |
| GRNL | CZ | 42 | 330 | EP | | 247 | 37.49 | -.140 | | | | | | | 1.0 |
| GRNL | CN | 42 | 330 | ES | | 247 | 42.62 | -.120 | | | | | | | 1.0 |
| GRNL | CE | 42 | 330 | IAML | | 247 | 43.80 | | | 3 | 0.1 | | | | |

March 13 2023 Hour: 3:40 18.6 Lat: 36.40N Lon: 7.35W Depth: 32F Agency: IGL Regional
Magnitudes: 2.0ML 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 | HZ | 153 | 311 | EP | | 340 | 40.16 | -.230 | | | | | | | 1.0 |
| MORF | HN | 153 | 311 | ES | | 340 | 56.36 | 0.020 | | | | | | | 1.0 |
| MORF | HE | 153 | 311 | IAML | | 340 | 57.33 | | | 35 | 0.1 | | | | |
| MESJ | HZ | 178 | 335 | EP | | 340 | 43.34 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 178 | 335 | ES | | 341 | 1.65 | 0.190 | | | | | | | 1.0 |
| MESJ | HN | 178 | 335 | IAML | | 341 | 3.74 | | | 11 | 0.1 | | | | |
| GRNL | CZ | 218 | 331 | EP | | 340 | 48.44 | 0.030 | | | | | | | 1.0 |
| GRNL | CN | 218 | 331 | ES | | 341 | 10.23 | 0.020 | | | | | | | 1.0 |
| GRNL | CN | 218 | 331 | IAML | | 341 | 11.86 | | | 9 | 0.1 | | | | |

March 13 2023 Hour: 10:44 30.3 Lat: 36.69N Lon: 8.42W Depth: 9F 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 | 71 | 343 | EP | | 1044 | 41.64 | -.160 | | | | | | | 1.0 |
| MORF | HN | 71 | 343 | ES | | 1044 | 50.39 | 0.160 | | | | | | | 1.0 |
| MORF | HN | 71 | 343 | IAML | | 1044 | 51.72 | | | 7 | 0.2 | | | | |

March 13 2023 Hour: 19:19 15.1 Lat: 17.66S Lon: 70.38W Depth: 104F Agency: IGL Distant
Magnitudes: 4.8Mb 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 |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 8926 | 45 | EP | | 1931 | 14.23 | 0.000 | | | | | | | 1.0 |
| GRNL | BZ | 8926 | 45 | IAMB | | 1931 | 15.81 | | | 13 | 0.8 | | | | |

March 13 2023 Hour: 22:50 45.7 Lat: 28.17S Lon: 67.59W Depth: 137F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

CATAMARCA, ARGENTINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9565 | 43 | EP | | 23 3 | 10.62 | 0.060 | | | | | | | 1.0 |
| GRNL | BZ | 9565 | 43 | IAMB | | 23 3 | 12.17 | | | 43 | 1.2 | | | | |
| MESJ | BZ | 9569 | 43 | EP | | 23 3 | 10.69 | -.060 | | | | | | | 1.0 |
| MESJ | BZ | 9569 | 43 | IAMB | | 23 3 | 12.41 | | | 24 | 0.9 | | | | |

March 14 2023 Hour: 6:123.0 Lat: 37.29N Lon: 9.10W Depth: 29F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs
W ALJEZUR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| MORF | HZ | 40 | 87 | EP | | 6 | 1 | 30.660 | | | | | | | 1.0 |
| MORF | HE | 40 | 87 | ES | | 6 | 1 | 36.00 | | | | | | | 1.0 |
| MORF | HE | 40 | 87 | IAML | | 6 | 1 | 37.40 | | 7 | 0.3 | | | | |

March 14 2023 Hour: 9:426.1 Lat: 37.28N Lon: 7.59W Depth: 5F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs
NW CASTRO MARIM, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 83 | 319 | EP | | 9 | 4 | 39.550 | | | | | | | 1.0 |
| MESJ | HN | 83 | 319 | ES | | 9 | 4 | 49.18 | | | | | | | 1.0 |
| MESJ | HE | 83 | 319 | IAML | | 9 | 4 | 52.15 | | 8 | 0.1 | | | | |
| MORF | HZ | 94 | 272 | EP | | 9 | 4 | 41.290 | | | | | | | 1.0 |
| MORF | HE | 94 | 272 | ES | | 9 | 4 | 52.30 | | | | | | | 1.0 |
| MORF | HN | 94 | 272 | IAML | | 9 | 4 | 55.31 | | 27 | 0.2 | | | | |
| GRNL | CZ | 126 | 317 | EP | | 9 | 4 | 46.430 | | | | | | | 1.0 |

March 14 2023 Hour: 16:36 2.8 Lat: 35.55N Lon: 22.15E Depth: 29F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs
CENTRAL MEDITERRANEAN SEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 2714 | 284 | EP | | 1641 | 18.67 | -.000 | | | | | | | 1.0 |
| MESJ | BZ | 2714 | 284 | IAMB | | 1641 | 22.91 | | | 406 | 2.3 | | | | |

March 15 2023 Hour: 0:953.4 Lat: 37.33N Lon: 8.54W Depth: 13F Agency: IGL Regional
Magnitudes: 0.5ML 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 | | 0 | 9 | 56.04 | | | | | | | 1.0 |
| MORF | HE | 10 | 253 | ES | | 0 | 9 | 58.200 | | | | | | | 1.0 |
| MORF | HE | 10 | 253 | IAML | | 0 | 9 | 58.50 | | 17 | 0.2 | | | | |

March 15 2023 Hour: 7:059.3 Lat: 35.29N Lon: 4.97W Depth: 55F Agency: IGL Regional
Magnitudes: 2.5ML IGL 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 | 399 | 305 | EP | | 7 | 1 | 50.99 | | | | | | | 1.0 |
| MORF | HN | 399 | 305 | ES | | 7 | 2 | 29.130 | | | | | | | 1.0 |
| MORF | HN | 399 | 305 | IAML | | 7 | 2 | 31.50 | | 13 | 0.3 | | | | |
| MESJ | HZ | 406 | 315 | EP | | 7 | 1 | 51.83 | | | | | | | 1.0 |
| MESJ | HN | 406 | 315 | ES | | 7 | 2 | 30.390 | | | | | | | 1.0 |
| MESJ | HN | 406 | 315 | IAML | | 7 | 2 | 31.84 | | 7 | 0.1 | | | | |
| GRNL | CZ | 449 | 315 | EP | | 7 | 1 | 57.120 | | | | | | | 1.0 |
| GRNL | CN | 449 | 315 | ES | | 7 | 2 | 39.330 | | | | | | | 1.0 |
| GRNL | CE | 449 | 315 | IAML | | 7 | 2 | 42.03 | | 17 | 0.2 | | | | |

March 15 2023 Hour: 17:22 6.4 Lat: 36.47N Lon: 7.84W Depth: 20F 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 | 118 | 322 | EP | | 1722 | 24.43 | -.210 | | | | | | | 1.0 |
| MESJ | HZ | 156 | 348 | EP | | 1722 | 29.520 | .180 | | | | | | | 1.0 |
| MESJ | HN | 156 | 348 | ES | | 1722 | 46.090 | .000 | | | | | | | 1.0 |
| MESJ | HN | 156 | 348 | IAML | | 1722 | 48.19 | | | 2 | 0.1 | | | | |
| GRNL | CZ | 194 | 341 | EP | | 1722 | 34.010 | .040 | | | | | | | 1.0 |

March 15 2023 Hour: 21:25 38.2 Lat: 4.72N Lon: 126.93E Depth: 38F Agency: IGL Distant
Rms: 0.1 secs

KEPULAUAN TALAUD, INDONESIA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ13428 | 320 | EP | KPdf | | 2144 | 25.840 | .150 | | | | | | | 1.0 |
| GRNL | BZ13436 | 320 | EP | KPdf | | 2144 | 25.820 | .010 | | | | | | | 1.0 |
| MORF | BZ13494 | 319 | EP | KPdf | | 2144 | 26.71 | -.160 | | | | | | | 1.0 |

March 16 2023 Hour: 0:56 4.4 Lat: 30.11S Lon: 176.11W Depth: 22F Agency: IGL Distant
Magnitudes: 7.6Ms IGL Rms: 0.0 secs

KERMADEC ISLANDS REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| GGNV | BZ18491 | 48 | EP | KP | | 116 | 7.180 | .000 | | | | | | | 1.0 |
| GGNV | BZ18491 | 48 | IAMS | _20 | | 242 | 46.63 | | 87729 | 22.6 | | | | | |
| GRNL | BZ18571 | 49 | EP | KP | | 116 | 7.780 | .020 | | | | | | | 1.0 |
| GRNL | BZ18571 | 49 | EP | P | | 120 | 59.90 | -.060 | | | | | | | 1.0 |
| GRNL | BZ18571 | 49 | IAMS | _20 | | 225 | 53.15 | | 65794 | 18.9 | | | | | |
| MORF | BZ18612 | 52 | EP | KP | | 116 | 8.11 | -.000 | | | | | | | 1.0 |
| MORF | BZ18612 | 52 | IAMS | _20 | | 232 | 44.85 | | 98518 | 30.9 | | | | | |
| MESJ | BZ18613 | 49 | EP | KP | | 116 | 8.090 | .030 | | | | | | | 1.0 |
| MESJ | BZ18613 | 49 | EP | P | | 121 | 1.930 | .010 | | | | | | | 1.0 |
| MESJ | BZ18613 | 49 | IAMS | _20 | | 232 | 34.96 | | 89989 | 22.2 | | | | | |

March 16 2023 Hour: 14:59 9.9 Lat: 56.09N Lon: 116.62W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.0 secs

ALBERTA, CANADA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|------|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ 7571 | 54 | EP | | | 1510 | 10.08 | -.000 | | | | | | | 1.0 |
| GRNL | BZ 7571 | 54 | IAMB | | | 1510 | 11.41 | | 60 | 1.6 | | | | | |

March 16 2023 Hour: 15:52 54.6 Lat: 36.53N Lon: 4.55W Depth: 83F 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 | 356 | 295 | EP | | 1553 | 41.11 | -.050 | | | | | | | 1.0 |
| GRNL | CZ | 396 | 297 | EP | | 1553 | 45.920 | .050 | | | | | | | 1.0 |

March 17 2023 Hour: 3:35 1.5 Lat: 37.10N Lon: 8.21W Depth: 27F Agency: IGL Regional
Magnitudes: 4.0ML IGL Rms: 0.1 secs

NE ALBUFEIRA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 45 | 300 | EP | | 335 | 9.57 | -.030 | | | | | | | 1.0 |
| MORF | HN | 45 | 300 | ES | | 335 | 15.620 | .080 | | | | | | | 1.0 |
| MORF | HE | 45 | 300 | IAML | | 335 | 17.09 | | 14538 | 0.2 | | | | | |
| MESJ | HZ | 82 | 359 | EP | | 335 | 14.650 | .070 | | | | | | | 1.0 |
| MESJ | HN | 82 | 359 | ES | | 335 | 24.15 | -.010 | | | | | | | 1.0 |
| MESJ | HE | 82 | 359 | IAML | | 335 | 24.84 | | 3553 | 0.1 | | | | | |
| GRNL | CZ | 116 | 344 | EP | | 335 | 18.63 | -.240 | | | | | | | 1.0 |
| GGNV | HZ | 197 | 336 | EP | | 335 | 29.080 | .140 | | | | | | | 0.9 |

March 17 2023 Hour: 6:44 3.2 Lat: 35.44N Lon: 4.80W Depth: 68F Agency: IGL Regional
Magnitudes: 2.2ML 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HN | 403 | 302 | ES | | 645 | 33.63 | -.100 | | | | | | | 1.0 |
| MORF | HN | 403 | 302 | IAML | | 645 | 36.25 | | 6 | 0.3 | | | | | |
| MESJ | HZ | 406 | 312 | EP | | 644 | 55.76 | -.060 | | | | | | | 1.0 |
| GRNL | CZ | 448 | 313 | EP | | 645 | 0.93 | -.000 | | | | | | | 1.0 |
| GRNL | CN | 448 | 313 | ES | | 645 | 43.250 | .170 | | | | | | | 1.0 |
| GRNL | CN | 448 | 313 | IAML | | 645 | 44.38 | | 5 | 0.2 | | | | | |

March 18 2023 Hour: 0:0 54.1 Lat: 36.52N Lon: 69.84E Depth:162F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 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 | 6716 | 297 | EP | | 010 | 46.24 | -.130 | | | | | | | 1.0 |
| MESJ | BZ | 6716 | 297 | IAMB | | 010 | 48.14 | | | 36 | 1.3 | | | | |
| GRNL | BZ | 6731 | 297 | EP | | 010 | 47.41 | 0.130 | | | | | | | 1.0 |
| GRNL | BZ | 6731 | 297 | IAMB | | 010 | 49.28 | | | 18 | 0.7 | | | | |

March 18 2023 Hour: 0:54 31.4 Lat: 36.54N Lon: 9.83W Depth: 30F 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 | 135 | 51 | EP | | 054 | 50.89 | -.060 | | | | | | | 1.0 |
| MORF | HN | 135 | 51 | ES | | 055 | 5.29 | 0.040 | | | | | | | 1.0 |
| MORF | HN | 135 | 51 | IAML | | 055 | 6.03 | | | 4 | 0.1 | | | | |
| MESJ | HZ | 203 | 44 | EP | | 054 | 59.25 | -.130 | | | | | | | 1.0 |
| MESJ | HN | 203 | 44 | ES | | 055 | 19.87 | 0.030 | | | | | | | 1.0 |
| MESJ | HE | 203 | 44 | IAML | | 055 | 20.94 | | | 1 | 0.1 | | | | |
| GRNL | CZ | 207 | 32 | EP | | 054 | 59.87 | 0.030 | | | | | | | 1.0 |
| GRNL | CN | 207 | 32 | ES | | 055 | 20.73 | 0.100 | | | | | | | 1.0 |
| GRNL | CN | 207 | 32 | IAML | | 055 | 22.91 | | | 3 | 0.1 | | | | |

March 18 2023 Hour: 6:57 37.0 Lat: 36.72N Lon: 9.64W Depth: 17F 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 | 109 | 53 | EP | | 657 | 54.27 | -.080 | | | | | | | 1.0 |
| MORF | HE | 109 | 53 | ES | | 658 | 7.02 | 0.040 | | | | | | | 1.0 |
| MORF | HN | 109 | 53 | IAML | | 658 | 7.91 | | | 7 | 0.1 | | | | |
| GRNL | CE | 181 | 31 | ES | | 658 | 22.55 | 0.040 | | | | | | | 1.0 |
| GRNL | CE | 181 | 31 | IAML | | 658 | 23.02 | | | 3 | 0.1 | | | | |

March 18 2023 Hour: 17:12 52.9 Lat: 2.84S Lon: 79.84W Depth: 66F Agency: IGL Distant
Magnitudes: 6.6Mb IGL Rms: 0.1 secs

NEAR COAST OF ECUADOR Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ | 8554 | 49 | EP | | 1724 | 38.01 | 0.10 | | | | | | | 1.0 |
| GGNV | BZ | 8554 | 49 | IAMB | | 1724 | 40.15 | | | 1965 | 1.9 | | | | |
| GGNV | BZ | 8554 | 49 | EPP | | 1727 | 30.82 | -0.12 | | | | | | | 1.0 |
| GGNV | BN | 8554 | 49 | ES | | 1734 | 20.68 | -0.27 | | | | | | | 1.0 |
| MORF | BZ | 8557 | 51 | EP | | 1724 | 38.38 | 0.19 | | | | | | | 1.0 |
| MORF | BZ | 8557 | 51 | IAMB | | 1724 | 41.02 | | | 1884 | 1.5 | | | | |
| MORF | BZ | 8557 | 51 | EPP | | 1727 | 31.25 | -0.05 | | | | | | | 1.0 |
| MORF | BN | 8557 | 51 | ES | | 1734 | 21.28 | -0.18 | | | | | | | 1.0 |
| GRNL | BZ | 8586 | 50 | EP | | 1724 | 39.67 | 0.10 | | | | | | | 1.0 |
| GRNL | BZ | 8586 | 50 | IAMB | | 1724 | 42.77 | | | 1522 | 1.9 | | | | |
| GRNL | BZ | 8586 | 50 | EPP | | 1727 | 30.86 | -2.54 | | | | | | | 0.0 |
| GRNL | BN | 8586 | 50 | ES | | 1734 | 24.20 | 0.05 | | | | | | | 1.0 |
| MESJ | BZ | 8609 | 50 | EP | | 1724 | 40.73 | 0.01 | | | | | | | 1.0 |
| MESJ | BZ | 8609 | 50 | IAMB | | 1724 | 42.40 | | | 591 | 1.7 | | | | |
| MESJ | BZ | 8609 | 50 | EPP | | 1727 | 35.13 | 0.01 | | | | | | | 1.0 |
| MESJ | BN | 8609 | 50 | ES | | 1734 | 26.51 | 0.14 | | | | | | | 1.0 |

March 18 2023 Hour: 18:53 0.1 Lat: 38.17N Lon: 9.13W Depth: 17F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

S SESIMBRA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 50 | 98 | EP | | 1853 | 8.29 | -.120 | | | | | | | 1.0 |
| GRNL | CE | 50 | 98 | ES | | 1853 | 14.58 | 0.120 | | | | | | | 1.0 |
| GRNL | CE | 50 | 98 | IAML | | 1853 | 15.00 | | | 10 | 0.1 | | | | |

March 18 2023 Hour: 20:53 33.4 Lat: 36.44N Lon: 9.11W Depth: 8F 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 | 104 | 23 | EP | | 2053 | 50.06 | -.120 | | | | | | | 1.0 |
| MORF | HE | 104 | 23 | ES | | 2054 | 2.520 | .120 | | | | | | | 1.0 |
| MORF | HN | 104 | 23 | IAML | | 2054 | 3.24 | | | 6 | 0.3 | | | | |

March 19 2023 Hour: 15:6 26.7 Lat: 59.64N Lon: 151.93W Depth: 69F Agency: IGL Distant
Rms: 0.1 secs

KENAI PENINSULA, ALASKA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 8662 | 29 | EP | | 1518 | 17.090 | .010 | | | | | | | 1.0 |
| GRNL | BZ | 8662 | 29 | EpP | | 1518 | 36.360 | .010 | | | | | | | 1.0 |
| MESJ | BZ | 8700 | 29 | EpP | | 1518 | 38.25 | -.010 | | | | | | | 1.0 |
| MORF | BZ | 8744 | 29 | EP | | 1518 | 21.350 | .100 | | | | | | | 1.0 |
| MORF | BZ | 8744 | 29 | EpP | | 1518 | 40.42 | -.110 | | | | | | | 1.0 |

March 19 2023 Hour: 19:56 5.1 Lat: 36.95N Lon: 8.74W Depth: 18F Agency: IGL Regional
Magnitudes: 0.4ML 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 | 40 | 11 | EP | | 1956 | 12.04 | -.020 | | | | | | | 1.0 |
| MORF | HE | 40 | 11 | ES | | 1956 | 17.150 | .020 | | | | | | | 1.0 |
| MORF | HN | 40 | 11 | IAML | | 1956 | 17.86 | | | 3 | 0.3 | | | | |

March 20 2023 Hour: 1:50 0.0 Lat: 37.31N Lon: 8.56W Depth: 14F Agency: IGL Regional
Magnitudes: 0.5ML 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 | 8 | 262 | EP | | 150 | 2.780 | .090 | | | | | | | 1.0 |
| MORF | HN | 8 | 262 | ES | | 150 | 4.46 | -.170 | | | | | | | 1.0 |
| GRNL | CN | 88 | 360 | ES | | 150 | 24.420 | .090 | | | | | | | 1.0 |
| GRNL | CN | 88 | 360 | IAML | | 150 | 26.27 | | | 2 | 0.1 | | | | |

March 20 2023 Hour: 8:55 11.2 Lat: 36.41N Lon: 9.90W Depth: 30F 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 | 149 | 48 | EP | | 855 | 32.48 | -.030 | | | | | | | 1.0 |
| MORF | HN | 149 | 48 | ES | | 855 | 48.120 | .060 | | | | | | | 1.0 |
| MORF | HN | 149 | 48 | IAML | | 855 | 49.07 | | | 10 | 0.1 | | | | |
| MESJ | HZ | 217 | 43 | EP | | 855 | 40.93 | -.090 | | | | | | | 1.0 |
| MESJ | HE | 217 | 43 | ES | | 856 | 2.970 | .180 | | | | | | | 1.0 |
| MESJ | HN | 217 | 43 | IAML | | 856 | 4.50 | | | 3 | 0.2 | | | | |
| GRNL | CZ | 222 | 32 | EP | | 855 | 41.38 | -.210 | | | | | | | 1.0 |
| GRNL | CN | 222 | 32 | ES | | 856 | 3.860 | .090 | | | | | | | 1.0 |
| GRNL | CN | 222 | 32 | IAML | | 856 | 6.13 | | | 13 | 0.2 | | | | |

March 20 2023 Hour: 12:16 28.8 Lat: 36.75N Lon: 8.29W Depth: 10F 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 | 69 | 332 | EP | | 1216 | 39.91 | -.140 | | | | | | | 1.0 |
| MORF | HN | 69 | 332 | ES | | 1216 | 48.410 | .140 | | | | | | | 1.0 |
| MORF | HE | 69 | 332 | IAML | | 1216 | 48.86 | | | 5 | 0.2 | | | | |

March 20 2023 Hour: 14: 9 23.0 Lat: 37.33N Lon: 8.49W Depth: 8F Agency: IGL Regional
Magnitudes: 1.1ML 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 | 15 | 258 | EP | | 14 | 9 | 25.60 | | | | | | | 1.0 |
| MORF | HN | 15 | 258 | ES | | 14 | 9 | 27.880 | | | | | | | 1.0 |
| MORF | HE | 15 | 258 | IAML | | 14 | 9 | 28.48 | | 104 | 0.1 | | | | |
| MESJ | HZ | 61 | 23 | EP | | 14 | 9 | 33.120 | | | | | | | 1.0 |
| GRNL | CZ | 87 | 355 | EP | | 14 | 9 | 37.140 | | | | | | | 1.0 |
| GRNL | CN | 87 | 355 | ES | | 14 | 9 | 47.06 | | | | | | | 1.0 |
| GRNL | CN | 87 | 355 | IAML | | 14 | 9 | 48.52 | | 4 | 0.1 | | | | |

March 20 2023 Hour: 16: 5 23.5 Lat: 35.22N Lon: 3.59W Depth: 28F 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 | 507 | 306 | EP | | 16 | 6 | 29.070 | | | | | | | 1.0 |
| GRNL | CZ | 549 | 307 | EP | | 16 | 6 | 34.100 | | | | | | | 1.0 |
| GRNL | CN | 549 | 307 | ES | | 16 | 7 | 25.58 | | | | | | | 1.0 |
| GRNL | CN | 549 | 307 | IAML | | 16 | 7 | 27.81 | | 5 | 0.4 | | | | |

March 20 2023 Hour: 17:29 10.4 Lat: 38.55N Lon: 9.07W Depth: 1 Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
SE SEIXAL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 66 | 138 | EP | | 1729 | | 20.94 | | | | | | | 1.0 |
| GRNL | CN | 66 | 138 | ES | | 1729 | | 28.990 | | | | | | | 1.0 |
| GRNL | CN | 66 | 138 | IAML | | 1729 | | 29.87 | | 2 | 0.1 | | | | |

March 20 2023 Hour: 19:31 28.0 Lat: 39.33N Lon: 8.75W Depth: 5F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.0 secs
NW SANTAREM, PORTUGAL Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 136 | 173 | EP | | 1931 | | 49.760 | | | | | | | 1.0 |
| GRNL | CN | 136 | 173 | ES | | 1932 | | 5.57 | | | | | | | 1.0 |
| GRNL | CN | 136 | 173 | IAML | | 1932 | | 7.48 | | 30 | 0.2 | | | | |
| MESJ | HZ | 172 | 164 | EP | | 1931 | | 54.27 | | | | | | | 1.0 |

March 21 2023 Hour: 0:20 13.3 Lat: 38.96N Lon: 21.22E Depth: 15F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs
GREECE Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 2564 | 277 | EP | | 025 | | 18.09 | | | | | | | 1.0 |
| GRNL | BZ | 2588 | 277 | EP | | 025 | | 20.550 | | | | | | | 1.0 |
| GRNL | BZ | 2588 | 277 | IAMB | | 025 | | 26.53 | | 122 | 2.3 | | | | |

March 21 2023 Hour: 1:44 15.5 Lat: 9.36N Lon: 84.13W Depth: 35F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.1 secs
COSTA RICA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|-------|--------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8109 | 54 | EP | | 155 | | 41.03 | | | | | | | 1.0 |
| MORF | BE | 8109 | 54 | IAMs_20 | | 221 | | 8.89 | | 1436 | 28.4 | | | | |
| GRNL | BZ | 8119 | 53 | EP | | 155 | | 41.570 | | | | | | | 1.0 |
| GRNL | BZ | 8119 | 53 | IAMs_20 | | 220 | | 45.47 | | 1126 | 25.7 | | | | |
| MESJ | BZ | 8149 | 53 | EP | | 155 | | 43.080 | | | | | | | 1.0 |
| MESJ | BN | 8149 | 53 | ES | | 2 | 5 | 9.30 | | | | | | | 1.0 |
| MESJ | BZ | 8149 | 53 | IAMs_20 | | 221 | | 14.20 | | 842 | 18.3 | | | | |

March 21 2023 Hour: 16:47 23.5 Lat: 36.52N Lon: 70.98E Depth:188F Agency: IGL Distant
Magnitudes: 6.6Mb IGL Rms: 0.1 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 | 6807 | 297 | EP | | 1657 | 18.53 | -0.02 | | | | | | | 1.0 |
| MESJ | BZ | 6807 | 297 | IAMB | | 1657 | 20.43 | | | 938 | 1.0 | | | | |
| GRNL | BZ | 6822 | 298 | EP | | 1657 | 19.58 | 0.15 | | | | | | | 1.0 |
| GRNL | BZ | 6822 | 298 | IAMB | | 1657 | 21.55 | | | 1062 | 1.2 | | | | |
| GGNV | BZ | 6839 | 299 | EP | | 1657 | 20.49 | 0.08 | | | | | | | 1.0 |
| GGNV | BZ | 6839 | 299 | IAMB | | 1657 | 21.99 | | | 2142 | 1.3 | | | | |
| MORF | BZ | 6867 | 297 | EP | | 1657 | 22.12 | -0.12 | | | | | | | 1.0 |
| MORF | BZ | 6867 | 297 | IAMB | | 1657 | 23.64 | | | 779 | 1.5 | | | | |
| MORF | BZ | 6867 | 297 | EP | | 1658 | 5.61 | 0.02 | | | | | | | 1.0 |
| MORF | BZ | 6867 | 297 | ES | | 1658 | 26.26 | -0.12 | | | | | | | 1.0 |

March 21 2023 Hour: 18:56 8.7 Lat: 36.95N Lon: 5.05W Depth: 0 Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 297 | 290 | EP | | 1856 | 51.10 | -.020 | | | | | | | 1.0 |
| GRNL | CZ | 336 | 294 | EP | | 1856 | 55.98 | 0.020 | | | | | | | 1.0 |

March 21 2023 Hour: 19:12 26.3 Lat: 34.97N Lon: 11.64W Depth: 34F 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 |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 373 | 45 | EP | | 19 2 | 15.46 | 0.120 | | | | | | | 1.0 |
| MESJ | HZ | 442 | 43 | EP | | 19 2 | 23.62 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 442 | 43 | ES | | 19 3 | 5.44 | -.080 | | | | | | | 1.0 |
| MESJ | HN | 442 | 43 | IAML | | 19 3 | 9.53 | | | 9 | 0.3 | | | | |
| GRNL | CZ | 443 | 37 | EP | | 19 2 | 23.83 | 0.000 | | | | | | | 1.0 |
| GRNL | CE | 443 | 37 | ES | | 19 3 | 5.80 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 443 | 37 | IAML | | 19 3 | 8.21 | | | 19 | 0.3 | | | | |

March 21 2023 Hour: 22:7 7.7 Lat: 36.37N Lon: 10.98W Depth: 37F Agency: IGL Regional
Magnitudes: 2.4ML 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 | 232 | 63 | EP | | 22 7 | 39.32 | -.010 | | | | | | | 1.0 |
| MORF | HN | 232 | 63 | ES | | 22 8 | 2.53 | 0.100 | | | | | | | 1.0 |
| MORF | HN | 232 | 63 | IAML | | 22 8 | 3.00 | | | 56 | 0.3 | | | | |
| GRNL | CZ | 288 | 47 | EP | | 22 7 | 46.13 | -.120 | | | | | | | 1.0 |
| MESJ | HZ | 295 | 56 | EP | | 22 7 | 46.99 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 295 | 56 | ES | | 22 8 | 15.91 | 0.100 | | | | | | | 1.0 |
| MESJ | HN | 295 | 56 | IAML | | 22 8 | 19.09 | | | 9 | 0.1 | | | | |

March 22 2023 Hour: 2:7 8.5 Lat: 38.14N Lon: 8.68W Depth: 13F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

E MELIDES, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 10 | 108 | EP | | 2 7 | 11.03 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 10 | 108 | ES | | 2 7 | 13.08 | 0.040 | | | | | | | 1.0 |
| GRNL | CN | 10 | 108 | IAML | | 2 7 | 13.20 | | | 50 | 0.1 | | | | |
| MESJ | HZ | 52 | 129 | EP | | 2 7 | 17.08 | 0.070 | | | | | | | 1.0 |
| MESJ | HE | 52 | 129 | ES | | 2 7 | 23.21 | -.030 | | | | | | | 1.0 |
| MESJ | HE | 52 | 129 | IAML | | 2 7 | 24.52 | | | 2 | 0.1 | | | | |

March 22 2023 Hour: 15:18 49.4 Lat: 23.59S Lon: 66.52W Depth:200F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

JUJUY, ARGENTINA Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9060 | 43 | EP | | 1530 | 44.10 | -.110 | | | | | | | 1.0 |
| MORF | BZ | 9060 | 43 | I Amb | | 1530 | 46.28 | | | 21 | 0.7 | | | | |
| GRNL | BZ | 9121 | 42 | EP | | 1530 | 47.02 | 0.030 | | | | | | | 1.0 |
| GRNL | BZ | 9121 | 42 | I Amb | | 1530 | 49.36 | | | 17 | 0.8 | | | | |
| MESJ | BZ | 9127 | 43 | EP | | 1530 | 47.35 | 0.080 | | | | | | | 1.0 |
| MESJ | BZ | 9127 | 43 | I Amb | | 1530 | 49.66 | | | 37 | 0.9 | | | | |

March 22 2023 Hour: 15:19 21.3 Lat: 36.83N Lon: 8.57W 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 | 54 | 352 | EP | | 1519 | 30.06 | -.070 | | | | | | | 1.0 |
| MORF | HN | 54 | 352 | ES | | 1519 | 36.66 | 0.070 | | | | | | | 1.0 |
| MORF | HN | 54 | 352 | I AML | | 1519 | 37.29 | | | 4 | 0.2 | | | | |

March 22 2023 Hour: 16: 0 33.7 Lat: 23.56S Lon: 66.64W Depth:220F Agency: IGL Distant
Magnitudes: 6.0Mb IGL Rms: 0.1 secs

JUJUY, ARGENTINA Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9066 | 43 | EP | | 1612 | 26.48 | -.060 | | | | | | | 1.0 |
| MORF | BZ | 9066 | 43 | I Amb | | 1612 | 27.90 | | | 442 | 1.3 | | | | |
| MORF | BZ | 9066 | 43 | EpP | | 1613 | 19.21 | -.150 | | | | | | | 1.0 |
| MORF | BN | 9066 | 43 | ES | | 1622 | 19.69 | -.180 | | | | | | | 1.0 |
| GRNL | BZ | 9127 | 43 | EP | | 1612 | 29.34 | 0.020 | | | | | | | 1.0 |
| GRNL | BZ | 9127 | 43 | I Amb | | 1612 | 32.10 | | | 245 | 1.1 | | | | |
| GRNL | BN | 9127 | 43 | ES | | 1622 | 25.33 | 0.020 | | | | | | | 1.0 |
| GGNV | BZ | 9129 | 42 | EP | | 1612 | 29.54 | 0.150 | | | | | | | 1.0 |
| GGNV | BZ | 9129 | 42 | I Amb | | 1612 | 30.82 | | | 396 | 1.3 | | | | |
| GGNV | BN | 9129 | 42 | ES | | 1622 | 25.74 | 0.270 | | | | | | | 0.9 |
| MESJ | BZ | 9133 | 43 | EP | | 1612 | 29.61 | 0.010 | | | | | | | 1.0 |
| MESJ | BZ | 9133 | 43 | I Amb | | 1612 | 32.53 | | | 332 | 1.0 | | | | |
| MESJ | BZ | 9133 | 43 | EpP | | 1613 | 22.45 | -.060 | | | | | | | 1.0 |
| MESJ | BN | 9133 | 43 | ES | | 1622 | 25.88 | 0.010 | | | | | | | 1.0 |

March 22 2023 Hour: 19: 5 31.1 Lat: 35.29N Lon: 3.65W Depth: 41F 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 | 497 | 306 | EP | | 19 6 | 35.04 | 0.040 | | | | | | | 1.0 |
| MORF | HZ | 502 | 298 | EP | | 19 6 | 35.67 | 0.090 | | | | | | | 1.0 |
| GRNL | CZ | 539 | 307 | EP | | 19 6 | 39.95 | -.140 | | | | | | | 1.0 |

March 22 2023 Hour: 19:23 7.4 Lat: 36.56N Lon: 7.18W Depth: 15F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 156 | 303 | EP | | 1923 | 30.45 | -.310 | | | | | | | 1.0 |
| MORF | HN | 156 | 303 | ES | | 1923 | 47.65 | -.140 | | | | | | | 1.0 |
| MORF | HN | 156 | 303 | I AML | | 1923 | 48.44 | | | 10 | 0.2 | | | | |
| MESJ | HZ | 170 | 327 | EP | | 1923 | 32.77 | 0.260 | | | | | | | 1.0 |
| MESJ | HN | 170 | 327 | ES | | 1923 | 50.86 | 0.050 | | | | | | | 1.0 |
| MESJ | HE | 170 | 327 | I AML | | 1923 | 52.65 | | | 7 | 0.2 | | | | |
| GRNL | CZ | 212 | 325 | EP | | 1923 | 37.88 | 0.160 | | | | | | | 1.0 |

March 22 2023 Hour: 20: 7 44.2 Lat: 39.45N Lon: 69.95E Depth: 6F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.1 secs
TAJKISTAN Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6580 | 296 | EP | | 2017 | 45.98 | -.010 | | | | | | | 1.0 |
| MESJ | BZ | 6580 | 296 | IAMB | | 2017 | 47.26 | | | 47 | 1.0 | | | | |
| MESJ | BN | 6580 | 296 | ES | | 2025 | 55.050 | .090 | | | | | | | 1.0 |
| GRNL | BZ | 6593 | 296 | EP | | 2017 | 46.71 | -.070 | | | | | | | 1.0 |
| GRNL | BZ | 6593 | 296 | IAMB | | 2017 | 49.80 | | | 117 | 1.6 | | | | |

March 22 2023 Hour: 21:23 5.7 Lat: 37.24N Lon: 8.58W Depth: 16F Agency: IGL Regional
Magnitudes: 0.5ML 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 | 10 | 320 | EP | | 2123 | 8.59 | -.110 | | | | | | | 1.0 |
| MORF | HE | 10 | 320 | ES | | 2123 | 10.970 | .040 | | | | | | | 1.0 |
| MORF | HE | 10 | 320 | IAML | | 2123 | 12.08 | | | 9 | 0.1 | | | | |
| GRNL | CN | 97 | 1 | ES | | 2123 | 32.270 | .070 | | | | | | | 1.0 |
| GRNL | CE | 97 | 1 | IAML | | 2123 | 32.88 | | | 2 | 0.1 | | | | |

March 23 2023 Hour: 10:31 35.1 Lat: 39.25N Lon: 11.68W Depth: 33F Agency: IGL Regional
Magnitudes: 1.7ML 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 298 | 114 | EP | | 1032 | 12.650 | .080 | | | | | | | 1.0 |
| GRNL | CE | 298 | 114 | ES | | 1032 | 39.950 | .010 | | | | | | | 1.0 |
| GRNL | CE | 298 | 114 | IAML | | 1032 | 41.57 | | | 3 | 0.1 | | | | |
| MORF | HZ | 341 | 128 | EP | | 1032 | 17.970 | .100 | | | | | | | 1.0 |
| MORF | HE | 341 | 128 | ES | | 1032 | 48.91 | -.200 | | | | | | | 1.0 |
| MORF | HN | 341 | 128 | IAML | | 1032 | 50.67 | | | 2 | 0.2 | | | | |

March 23 2023 Hour: 15: 0 19.7 Lat: 39.01N Lon: 9.02W Depth: 5F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs
SW ALENQUER, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | HN | 34 | 199 | ES | | 15 0 | 29.380 | .080 | | | | | | | 1.0 |
| GGNV | HN | 34 | 199 | IAML | | 15 0 | 32.86 | | | 1457 | 0.4 | | | | |
| GRNL | CZ | 107 | 158 | EP | | 15 0 | 36.82 | -.160 | | | | | | | 1.0 |
| GRNL | CE | 107 | 158 | ES | | 15 0 | 49.690 | .070 | | | | | | | 1.0 |
| GRNL | CN | 107 | 158 | IAML | | 15 0 | 52.97 | | | 114 | 0.2 | | | | |
| MESJ | HZ | 147 | 151 | EP | | 15 0 | 42.82 | -.090 | | | | | | | 1.0 |
| MESJ | HE | 147 | 151 | ES | | 15 0 | 59.950 | .070 | | | | | | | 1.0 |
| MESJ | HE | 147 | 151 | IAML | | 15 1 | 1.56 | | | 20 | 0.2 | | | | |
| MORF | HZ | 192 | 170 | EP | | 15 0 | 48.490 | .030 | | | | | | | 0.9 |

March 23 2023 Hour: 21:43 37.3 Lat: 37.34N Lon: 8.56W Depth: 13F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
N MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 9 | 244 | EP | | 2143 | 39.65 | -.210 | | | | | | | 1.0 |
| MORF | HE | 9 | 244 | ES | | 2143 | 41.900 | .140 | | | | | | | 1.0 |
| MORF | HE | 9 | 244 | IAML | | 2143 | 42.14 | | | 28 | 0.2 | | | | |
| MESJ | HN | 63 | 29 | ES | | 2143 | 55.060 | .070 | | | | | | | 1.0 |
| MESJ | HE | 63 | 29 | IAML | | 2143 | 56.11 | | | 1 | 0.1 | | | | |

March 24 2023 Hour: 8:27 16.3 Lat: 34.35N Lon: 9.40W Depth: 28F Agency: IGL Regional
Magnitudes: 2.7ML 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 | 335 | 11 | EP | | 828 | 0.88 | -.030 | | | | | | | 1.0 |
| MORF | HN | 335 | 11 | ES | | 828 | 33.470 | .040 | | | | | | | 1.0 |
| MORF | HN | 335 | 11 | IAML | | 828 | 36.94 | | | 33 | 0.3 | | | | |
| MESJ | HZ | 402 | 15 | EP | | 828 | 9.260 | .110 | | | | | | | 1.0 |

| | | | | | | | | | | | | | | | | | | | |
|---------|-----|----|------|-----|--------|------|--|--|----|-----|--|--|--|--|--|--|--|--|-----|
| MESJ HE | 402 | 15 | ES | 828 | 47.65- | .040 | | | | | | | | | | | | | 1.0 |
| MESJ HN | 402 | 15 | IAML | 828 | 51.25 | | | | 14 | 0.4 | | | | | | | | | |
| GRNL CZ | 424 | 10 | EP | 828 | 11.74- | .090 | | | | | | | | | | | | | 1.0 |

March 24 2023 Hour: 23:11 24.1 Lat: 35.43N Lon: 3.60W Depth: 24F 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 | 492 | 304 | EP | | 2312 | 28.14- | .000 | | | | | | | 1.0 |

March 24 2023 Hour: 23:27 57.1 Lat: 36.60N Lon: 7.33W Depth: 34F 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 | 141 | 304 | EP | | 2328 | 17.23- | .200 | | | | | | | 1.0 |
| MORF HE | 141 | 304 | ES | | 2328 | 32.370 | .090 | | | | | | | 1.0 |
| MORF HE | 141 | 304 | IAML | | 2328 | 33.60 | | | 22 | 0.2 | | | | |
| MESJ HZ | 159 | 330 | EP | | 2328 | 19.650 | .100 | | | | | | | 1.0 |
| MESJ HN | 159 | 330 | ES | | 2328 | 35.88- | .080 | | | | | | | 1.0 |
| MESJ HN | 159 | 330 | IAML | | 2328 | 37.92 | | | 16 | 0.2 | | | | |
| GRNL CZ | 200 | 327 | EP | | 2328 | 24.810 | .100 | | | | | | | 1.0 |
| GRNL CN | 200 | 327 | ES | | 2328 | 44.86- | .010 | | | | | | | 1.0 |
| GRNL CE | 200 | 327 | IAML | | 2328 | 46.72 | | | 8 | 0.2 | | | | |

March 24 2023 Hour: 23:52 12.9 Lat: 39.21N Lon: 10.56W Depth: 43F Agency: IGL Regional 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 |
| GRNL CZ | 212 | 125 | EP | | 2352 | 41.82- | .150 | | | | | | | 1.0 |
| GRNL CN | 212 | 125 | ES | | 2353 | 3.350 | .140 | | | | | | | 1.0 |
| GRNL CN | 212 | 125 | IAML | | 2353 | 4.40 | | | 2 | 0.1 | | | | |
| MESJ HZ | 254 | 126 | EP | | 2352 | 47.250 | .010 | | | | | | | 1.0 |

March 25 2023 Hour: 3:34 7.2 Lat: 37.33N Lon: 8.55W Depth: 12F Agency: IGL Regional 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 | 250 | EP | | 334 | 9.57- | .180 | | | | | | | 1.0 |
| MORF HN | 9 | 250 | ES | | 334 | 11.710 | .120 | | | | | | | 1.0 |
| MORF HN | 9 | 250 | IAML | | 334 | 12.05 | | | 57 | 0.1 | | | | |
| MESJ HE | 63 | 28 | ES | | 334 | 25.050 | .060 | | | | | | | 1.0 |
| MESJ HN | 63 | 28 | IAML | | 334 | 26.06 | | | 3 | 0.2 | | | | |

March 25 2023 Hour: 9:42 6.1 Lat: 36.83N Lon: 9.00W Depth: 32F 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 | 62 | 30 | EP | | 942 | 16.550 | .050 | | | | | | | 1.0 |
| MORF HN | 62 | 30 | ES | | 942 | 24.270 | .140 | | | | | | | 1.0 |
| MORF HN | 62 | 30 | IAML | | 942 | 25.20 | | | 93 | 0.2 | | | | |
| MESJ HZ | 132 | 31 | EP | | 942 | 25.250 | .010 | | | | | | | 1.0 |
| GRNL CZ | 148 | 15 | EP | | 942 | 26.84- | .290 | | | | | | | 1.0 |
| GRNL CN | 148 | 15 | ES | | 942 | 42.570 | .070 | | | | | | | 1.0 |
| GRNL CN | 148 | 15 | IAML | | 942 | 42.76 | | | 9 | 0.1 | | | | |

March 25 2023 Hour: 11: 3 8.4 Lat: 36.15N Lon: 10.51W Depth: 38F Agency: IGL Regional 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 | 209 | 52 | EP | | 11 3 | 37.400 | .210 | | | | | | | 1.0 |
| MORF HN | 209 | 52 | ES | | 11 3 | 58.20- | .010 | | | | | | | 1.0 |
| MORF HN | 209 | 52 | IAML | | 11 3 | 59.26 | | | 7 | 0.1 | | | | |
| GRNL CZ | 277 | 38 | EP | | 11 3 | 45.54- | .030 | | | | | | | 1.0 |
| GRNL CN | 277 | 38 | ES | | 11 4 | 12.52- | .190 | | | | | | | 1.0 |

GRNL CN 277 38 IAML 11 4 14.51 6 0.1

March 25 2023 Hour: 14:22 57.4 Lat: 36.78N Lon: 8.18W Depth: 24F Agency: IGL Regional
Magnitudes: 0.7ML 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 72 | 324 | EP | | 1423 | 9.06 | -.040 | | | | | | | 1.0 |
| MORF | HN | 72 | 324 | ES | | 1423 | 17.660 | .040 | | | | | | | 1.0 |
| MORF | HN | 72 | 324 | IAML | | 1423 | 18.96 | | | 3 | 0.2 | | | | |

March 25 2023 Hour: 19:13 32.4 Lat: 32.62N Lon: 47.68E Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs
IRAN-IRAQ BORDER REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 5048 | 293 | EP | | 1921 | 51.160 | .140 | | | | | | | 1.0 |
| MESJ | BZ | 5048 | 293 | IAMB | | 1921 | 55.59 | | | 22 | 1.4 | | | | |
| GRNL | BZ | 5072 | 293 | EP | | 1921 | 52.60 | -.140 | | | | | | | 1.0 |
| GRNL | BZ | 5072 | 293 | IAMB | | 1921 | 54.77 | | | 44 | 1.6 | | | | |

March 26 2023 Hour: 0:2 44.2 Lat: 21.03S Lon: 68.62W Depth:105FAgency: IGL Distant
Magnitudes: 5.3Mb 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9006 | 44 | EP | | 014 | 47.150 | .030 | | | | | | | 1.0 |
| MORF | BZ | 9006 | 44 | IAMB | | 014 | 49.08 | | | 49 | 0.9 | | | | |
| GRNL | BZ | 9063 | 44 | EP | | 014 | 49.800 | .030 | | | | | | | 1.0 |
| GRNL | BZ | 9063 | 44 | IAMB | | 014 | 51.24 | | | 34 | 0.9 | | | | |
| MESJ | BZ | 9071 | 44 | EP | | 014 | 50.11 | -.060 | | | | | | | 1.0 |
| MESJ | BZ | 9071 | 44 | IAMB | | 014 | 51.74 | | | 51 | 1.0 | | | | |

March 26 2023 Hour: 0:39 52.9 Lat: 22.41S Lon: 66.20W Depth:268FAgency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.1 secs
JUJUY, ARGENTINA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9003 | 42 | EP | | 051 | 37.35 | -.150 | | | | | | | 1.0 |
| GRNL | BZ | 9003 | 42 | IAMB | | 051 | 38.22 | | | 14 | 1.4 | | | | |
| MESJ | BZ | 9009 | 43 | EP | | 051 | 37.950 | .150 | | | | | | | 1.0 |
| MESJ | BZ | 9009 | 43 | IAMB | | 051 | 39.02 | | | 56 | 1.9 | | | | |

March 26 2023 Hour: 9:47 23.1 Lat: 37.17N Lon: 14.75W Depth: 68F Agency: IGL Regional
Magnitudes: 2.2ML 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 | 541 | 87 | EP | | 948 | 30.770 | .030 | | | | | | | 1.0 |
| GRNL | CZ | 555 | 77 | EP | | 948 | 32.420 | .020 | | | | | | | 1.0 |
| GRNL | CE | 555 | 77 | ES | | 949 | 22.94 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 555 | 77 | IAML | | 949 | 25.39 | | | 4 | 0.2 | | | | |

March 26 2023 Hour: 19: 5 2.7 Lat: 36.50N Lon: 2.84W Depth: 1F 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 | 500 | 289 | EP | | 19 6 | 9.77 | -.180 | | | | | | | 1.0 |
| MORF | HZ | 525 | 281 | EP | | 19 6 | 13.180 | .130 | | | | | | | 1.0 |
| GRNL | CZ | 538 | 291 | EP | | 19 6 | 14.600 | .060 | | | | | | | 1.0 |

March 26 2023 Hour: 19:20 18.0 Lat: 37.33N Lon: 8.49W Depth: 1F 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 | 15 | 257 | EP | | 1920 | 20.21 | -.170 | | | | | | | 1.0 |
| MORF | HE | 15 | 257 | ES | | 1920 | 22.280 | .170 | | | | | | | 1.0 |
| MORF | HN | 15 | 257 | IAML | | 1920 | 22.88 | | | 60 | 0.2 | | | | |

March 27 2023 Hour: 9:41 51.8 Lat: 35.78N Lon: 10.19W Depth: 24F 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 | 218 | 39 | EP | | 942 | 22.200 | .020 | | | | | | | 1.0 |
| MORF | HN | 218 | 39 | ES | | 942 | 44.18 | -.170 | | | | | | | 1.0 |
| MORF | HN | 218 | 39 | IAML | | 942 | 45.53 | | | 13 | 0.1 | | | | |
| MESJ | HN | 289 | 37 | ES | | 942 | 59.480 | .100 | | | | | | | 1.0 |
| MESJ | HN | 289 | 37 | IAML | | 943 | 1.61 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 296 | 29 | EP | | 942 | 31.80 | -.010 | | | | | | | 1.0 |
| GRNL | CN | 296 | 29 | ES | | 943 | 1.090 | .080 | | | | | | | 1.0 |
| GRNL | CN | 296 | 29 | IAML | | 943 | 2.35 | | | 12 | 0.2 | | | | |

March 27 2023 Hour: 22:19 16.9 Lat: 8.21S Lon: 158.93E Depth: 86F Agency: IGL Distant
Rms: 0.8 secs

SOLOMON ISLANDS Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|--------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ16451 | 342 | | EPKP | | 2238 | 48.99 | 0.91 | | | | | | | 1.0 |
| GGNV | BZ16451 | 342 | | EPKiKP | | 2238 | 52.72 | -0.90 | | | | | | | 1.0 |
| GRNL | BZ16493 | 341 | | EPKP | | 2238 | 49.54 | 0.83 | | | | | | | 1.0 |
| GRNL | BZ16493 | 341 | | EPKiKP | | 2238 | 53.58 | -0.84 | | | | | | | 1.0 |
| MESJ | BZ16507 | 340 | | EPKP | | 2238 | 49.80 | 0.86 | | | | | | | 1.0 |
| MESJ | BZ16507 | 340 | | EPKiKP | | 2238 | 53.93 | -0.78 | | | | | | | 1.0 |
| MORF | BZ16577 | 341 | | EPKP | | 2238 | 50.73 | 0.73 | | | | | | | 1.0 |
| MORF | BZ16577 | 341 | | EPKiKP | | 2238 | 55.25 | -0.81 | | | | | | | 1.0 |

March 28 2023 Hour: 9:18 27.8 Lat: 41.15N Lon: 142.81E Depth: 34F Agency: IGL Distant
Magnitudes: 6.2Ms 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 |
|------|---------|------|-----|---------|---|------|--------|-------|------|-------|------|-----|------|------|-----|
| GGNV | BZ10726 | 338 | | EPP | | 935 | 47.770 | .130 | | | | | | | 1.0 |
| GGNV | BN10726 | 338 | | IAMs_20 | | 1020 | 44.11 | | | 11669 | 17.8 | | | | |
| GRNL | BZ10771 | 338 | | EP | | 931 | 55.270 | .140 | | | | | | | 1.0 |
| GRNL | BZ10771 | 338 | | EPP | | 935 | 50.69 | -.070 | | | | | | | 1.0 |
| GRNL | BE10771 | 338 | | IAMs_20 | | 1018 | 56.47 | | | 8860 | 23.5 | | | | |
| MESJ | BZ10788 | 337 | | EP | | 931 | 55.870 | .050 | | | | | | | 1.0 |
| MESJ | BZ10788 | 337 | | EPP | | 935 | 51.77 | -.150 | | | | | | | 1.0 |
| MESJ | BN10788 | 337 | | ESKSac | | 942 | 30.230 | .050 | | | | | | | 1.0 |
| MESJ | BZ10788 | 337 | | IAMs_20 | | 1018 | 52.69 | | | 6456 | 19.2 | | | | |
| MORF | BZ10857 | 337 | | EPP | | 935 | 56.60 | -.160 | | | | | | | 1.0 |
| MORF | BZ10857 | 337 | | IAMs_20 | | 1019 | 21.21 | | | 10113 | 21.6 | | | | |

March 28 2023 Hour: 21:10 0.2 Lat: 36.62N Lon: 11.18W Depth: 25F 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 | 237 | 70 | EP | | 2110 | 32.89 | -.010 | | | | | | | 1.0 |
| MORF | HN | 237 | 70 | ES | | 2110 | 56.70 | -.030 | | | | | | | 1.0 |
| MORF | HN | 237 | 70 | IAML | | 2110 | 58.69 | | | 5 | 0.2 | | | | |
| GRNL | CZ | 284 | 54 | EP | | 2110 | 38.52 | -.160 | | | | | | | 1.0 |
| MESJ | HZ | 295 | 62 | EP | | 2110 | 40.280 | .200 | | | | | | | 1.0 |

March 29 2023 Hour: 0:12 33.4 Lat: 36.44N Lon: 11.18W Depth: 31F Agency: IGL Regional
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 | 245 | 66 | EP | | 013 | 5.790 | .000 | | | | | | | 1.0 |
| GRNL | CZ | 296 | 51 | EP | | 013 | 12.210 | .070 | | | | | | | 1.0 |
| MESJ | HZ | 305 | 59 | EP | | 013 | 13.19 | -.070 | | | | | | | 1.0 |

March 29 2023 Hour: 22:25 16.2 Lat: 42.30N Lon: 8.42W Depth: 17F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 465 | 182 | EP | | 2226 | 17.630 | .070 | | | | | | | 1.0 |
| MESJ | HZ | 495 | 178 | EP | | 2226 | 21.20 | -.000 | | | | | | | 1.0 |
| MORF | HZ | 554 | 182 | EP | | 2226 | 28.37 | -.070 | | | | | | | 1.0 |

March 30 2023 Hour: 3: 2 14.0 Lat: 35.86N Lon: 6.33W Depth: 41F Agency: IGL Regional
Magnitudes: 1.4ML 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 | 277 | 323 | EP | | 3 2 | 51.03 | -.080 | | | | | | | 1.0 |
| MESJ | HN | 277 | 323 | ES | | 3 3 | 18.290 | .080 | | | | | | | 1.0 |
| MESJ | HE | 277 | 323 | IAML | | 3 3 | 20.62 | | | 2 | 0.4 | | | | |

March 30 2023 Hour: 3:58 1.5 Lat: 37.23N Lon: 8.58W Depth: 15F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SW MONCHIQUÉ, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 11 | 321 | EP | | 358 | 4.24 | -.290 | | | | | | | 1.0 |
| MORF | HE | 11 | 321 | ES | | 358 | 6.820 | .100 | | | | | | | 1.0 |
| MORF | HE | 11 | 321 | IAML | | 358 | 6.99 | | | 48 | 0.2 | | | | |
| MESJ | HZ | 75 | 25 | EP | | 358 | 13.530 | .020 | | | | | | | 1.0 |
| GRNL | CZ | 98 | 0 | EP | | 358 | 17.130 | .160 | | | | | | | 1.0 |
| GRNL | CN | 98 | 0 | ES | | 358 | 28.280 | .030 | | | | | | | 1.0 |
| GRNL | CN | 98 | 0 | IAML | | 358 | 29.29 | | | 7 | 0.2 | | | | |

March 30 2023 Hour: 3:59 22.5 Lat: 38.72N Lon: 7.84W Depth: 19F Agency: IGL Regional
Magnitudes: 0.9ML 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 | 93 | 224 | EP | | 359 | 37.440 | .070 | | | | | | | 1.0 |
| GRNL | CN | 93 | 224 | ES | | 359 | 48.250 | .030 | | | | | | | 1.0 |
| GRNL | CN | 93 | 224 | IAML | | 359 | 48.89 | | | 3 | 0.1 | | | | |
| MESJ | HN | 103 | 199 | ES | | 359 | 50.69 | -.100 | | | | | | | 1.0 |
| MESJ | HN | 103 | 199 | IAML | | 359 | 51.40 | | | 4 | 0.4 | | | | |

March 30 2023 Hour: 4:32 59.2 Lat: 36.52N Lon: 9.72W Depth: 39F Agency: IGL Regional
Magnitudes: 2.6ML 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 | 129 | 47 | EP | | 433 | 18.150 | .170 | | | | | | | 1.0 |
| MESJ | HZ | 198 | 42 | EP | | 433 | 26.520 | .010 | | | | | | | 1.0 |
| GRNL | CZ | 204 | 30 | EP | | 433 | 27.03 | -.190 | | | | | | | 1.0 |
| MORF | HN | 129 | 47 | ES | | 433 | 31.62 | | | | | | | | |
| MORF | HN | 129 | 47 | IAML | | 433 | 33.52 | | | 157 | 0.1 | | | | |
| GRNL | CN | 204 | 30 | ES | | 433 | 47.79 | | | | | | | | |
| GRNL | CN | | | IAML | | 433 | 48.47 | | | 59 | 0.2 | | | | |

March 30 2023 Hour: 14:44 44.6 Lat: 36.50N Lon: 9.73W Depth: 12F 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 | 131 | 47 | EP | | 1445 | 5.210 | .100 | | | | | | | 1.0 |
| MORF | HN | 131 | 47 | ES | | 1445 | 19.96 | -.140 | | | | | | | 1.0 |
| MORF | HN | 131 | 47 | IAML | | 1445 | 20.94 | | | 9 | 0.1 | | | | |
| MESJ | HZ | 200 | 42 | EP | | 1445 | 13.62 | -.030 | | | | | | | 1.0 |
| MESJ | HN | 200 | 42 | ES | | 1445 | 35.060 | .170 | | | | | | | 1.0 |
| MESJ | HE | 200 | 42 | IAML | | 1445 | 36.14 | | | 1 | 0.1 | | | | |
| GRNL | CZ | 206 | 30 | EP | | 1445 | 14.13 | -.230 | | | | | | | 1.0 |
| GRNL | CN | 206 | 30 | ES | | 1445 | 36.250 | .140 | | | | | | | 1.0 |
| GRNL | CN | 206 | 30 | IAML | | 1445 | 37.97 | | | 4 | 0.1 | | | | |

March 30 2023 Hour: 17:33 7.6 Lat: 35.66S Lon: 73.54W Depth: 12F Agency: IGL Distant
Magnitudes: 6.6Ms IGL Rms: 0.1 secs

MAULE, CHILE Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|-------|------|------|-----|------|------|-----|
| MORF | BZ10483 | 46 | EP | | | 1746 | 26.52 | -.030 | | | | | | | 1.0 |
| MORF | BZ10483 | 46 | EPP | | | 1750 | 13.39 | -.060 | | | | | | | 1.0 |
| MORF | BN10483 | 46 | ESKSac | | | 1757 | 1.420 | .040 | | | | | | | 1.0 |
| MORF | BZ10483 | 46 | IAMs_20 | | | 1826 | 48.60 | | 18728 | 15.5 | | | | | |
| GRNL | BZ10549 | 46 | EP | | | 1746 | 29.230 | .080 | | | | | | | 1.0 |
| GRNL | BE10549 | 46 | ESKSac | | | 1757 | 4.460 | .010 | | | | | | | 1.0 |
| GRNL | BZ10549 | 46 | IAMs_20 | | | 1827 | 35.04 | | 20921 | 14.4 | | | | | |
| MESJ | BZ10551 | 46 | EP | | | 1746 | 29.350 | .070 | | | | | | | 1.0 |
| MESJ | BZ10551 | 46 | EPP | | | 1750 | 17.99 | -.190 | | | | | | | 0.9 |
| MESJ | BZ10551 | 46 | IAMs_20 | | | 1827 | 17.12 | | 16777 | 19.2 | | | | | |
| GGNV | BE10557 | 45 | ESKSac | | | 1757 | 4.880 | .070 | | | | | | | 1.0 |
| GGNV | BZ10557 | 45 | IAMs_20 | | | 1829 | 53.56 | | 17015 | 18.0 | | | | | |

March 31 2023 Hour: 4:4 5.1 Lat: 36.73N Lon: 8.50W Depth: 27F Agency: IGL Regional
Magnitudes: 2.4ML 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 | 65 | 348 | EP | | 4 | 4 | 15.90 | -.010 | | | | | | 1.0 |
| MORF | HE | 65 | 348 | ES | | 4 | 4 | 23.820 | .040 | | | | | | 1.0 |
| MORF | HE | 65 | 348 | IAML | | 4 | 4 | 24.58 | | 141 | 0.2 | | | | |
| MESJ | HZ | 125 | 11 | EP | | 4 | 4 | 23.700 | .010 | | | | | | 1.0 |
| GRNL | CZ | 153 | 358 | EP | | 4 | 4 | 27.06 | -.040 | | | | | | 1.0 |

March 31 2023 Hour: 4:21 13.3 Lat: 37.01N Lon: 8.81W Depth: 20F Agency: IGL Regional
Magnitudes: 0.6ML 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 | 36 | 23 | EP | | 421 | 19.65 | -.100 | | | | | | | 1.0 |
| MORF | HE | 36 | 23 | ES | | 421 | 24.570 | .100 | | | | | | | 1.0 |
| MORF | HE | 36 | 23 | IAML | | 421 | 25.22 | | | 5 | 0.1 | | | | |

March 31 2023 Hour: 16:5 18.0 Lat: 37.25N Lon: 24.08E Depth: 135F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

SOUTHERN GREECE Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 2841 | 281 | EP | | 1610 | 34.23 | -.010 | | | | | | | 1.0 |
| MESJ | BZ | 2841 | 281 | IAMB | | 1610 | 36.88 | | | 42 | 0.6 | | | | |
| GRNL | BZ | 2867 | 282 | EP | | 1610 | 36.350 | .010 | | | | | | | 1.0 |
| GRNL | BZ | 2867 | 282 | IAMB | | 1610 | 39.48 | | | 55 | 1.2 | | | | |

April 1 2023 Hour: 5:46 0.3 Lat: 38.72N Lon: 7.84W Depth: 17F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

E ARRAIOSLOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 93 | 224 | EP | | 546 | 15.120 | .070 | | | | | | | 1.0 |
| GRNL | CE | 93 | 224 | ES | | 546 | 25.79 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 93 | 224 | IAML | | 546 | 26.25 | | | 1 | 0.1 | | | | |
| MESJ | HN | 103 | 199 | ES | | 546 | 28.42 | -.030 | | | | | | | 1.0 |
| MESJ | HN | 103 | 199 | IAML | | 546 | 29.51 | | | 1 | 0.1 | | | | |

April 1 2023 Hour: 18:47 34.8 Lat: 36.13N Lon: 7.96W Depth: 32F Agency: IGL Regional
Magnitudes: 2.1ML 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 | 144 | 335 | EP | | 1847 | 55.40 | -.140 | | | | | | | 1.0 |
| MORF | HE | 144 | 335 | ES | | 1848 | 10.57 | -.080 | | | | | | | 1.0 |
| MORF | HE | 144 | 335 | IAML | | 1848 | 11.72 | | | 16 | 0.2 | | | | |
| MESJ | HZ | 191 | 353 | EP | | 1848 | 1.470 | .140 | | | | | | | 1.0 |
| MESJ | HN | 191 | 353 | ES | | 1848 | 20.790 | .110 | | | | | | | 1.0 |

| | | | | | | | | | | | | | | | | | | |
|---------|-----|-----|------|------|--------|-------|--|--|----|-----|--|--|--|--|--|--|--|-----|
| MESJ HN | 191 | 353 | IAML | 1848 | 22.07 | | | | 13 | 0.2 | | | | | | | | |
| GRNL CZ | 226 | 346 | EP | 1848 | 5.62 | -.050 | | | | | | | | | | | | 1.0 |
| GRNL CN | 226 | 346 | ES | 1848 | 28.210 | .030 | | | | | | | | | | | | 1.0 |
| GRNL CN | 226 | 346 | IAML | 1848 | 29.13 | | | | 19 | 0.2 | | | | | | | | |

April 1 2023 Hour: 19:13 58.8 Lat: 36.53N Lon: 4.68W Depth: 90F Agency: IGL Regional
Magnitudes: 2.0ML 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 | 346 | 296 | EP | | | 1914 | 44.12 | -.180 | | | | | | | 1.0 |
| MESJ HN | 346 | 296 | ES | | | 1915 | 17.660 | .180 | | | | | | | 1.0 |
| MESJ HN | 346 | 296 | IAML | | | 1915 | 18.64 | | 5 | 0.2 | | | | | |
| GRNL CZ | 387 | 298 | EP | | | 1914 | 49.02 | -.000 | | | | | | | 1.0 |

April 2 2023 Hour: 12: 6 41.2 Lat: 37.19N Lon: 8.39W Depth: 19F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

NE SILVES, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|---------|----|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF HZ | 27 | 298 | EP | | | 12 6 | 46.32 | -.100 | | | | | | | 1.0 |
| MORF HE | 27 | 298 | ES | | | 12 6 | 50.270 | .060 | | | | | | | 1.0 |
| MORF HN | 27 | 298 | IAML | | | 12 6 | 50.76 | | 6 | 0.2 | | | | | |
| MESJ HE | 74 | 12 | ES | | | 12 7 | 1.860 | .030 | | | | | | | 1.0 |
| MESJ HE | 74 | 12 | IAML | | | 12 7 | 2.66 | | 1 | 0.1 | | | | | |

April 2 2023 Hour: 15: 5 10.4 Lat: 36.68N Lon: 4.57W Depth: 76F Agency: IGL Regional
Magnitudes: 1.6ML 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 | 348 | 293 | EP | | | 15 5 | 55.95 | -.170 | | | | | | | 1.0 |
| MESJ HE | 348 | 293 | ES | | | 15 6 | 29.740 | .210 | | | | | | | 1.0 |
| MESJ HE | 348 | 293 | IAML | | | 15 6 | 31.89 | | 2 | 0.1 | | | | | |
| GRNL CZ | 388 | 295 | EP | | | 15 6 | 0.73 | -.040 | | | | | | | 1.0 |

April 2 2023 Hour: 18: 4 10.7 Lat: 4.29S Lon: 143.16E Depth: 63F Agency: IGL Distant
Magnitudes: 7.2Ms IGL Rms: 0.1 secs

NEW GUINEA, PAPUA NEW GUINEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|--------------|-----|---------|------|--------|-------|------|-------|------|-------|------|------|-----|------|------|-----|
| GGNV BZ15304 | 327 | EPKPdf | 1823 | 26.900 | .110 | | | | | | | | | | 1.0 |
| GGNV BZ15304 | 327 | EPP | 1826 | 13.630 | .130 | | | | | | | | | | 1.0 |
| GGNV BZ15304 | 327 | IAMs_20 | 1922 | 6.57 | | | | | 69498 | 20.4 | | | | | |
| GRNL BZ15318 | 326 | EPKPdf | 1823 | 27.02 | -.020 | | | | | | | | | | 1.0 |
| GRNL BZ15318 | 326 | EPP | 1826 | 14.300 | .030 | | | | | | | | | | 1.0 |
| MESJ BZ15318 | 326 | EPKPdf | 1823 | 27.02 | -.020 | | | | | | | | | | 1.0 |
| MESJ BZ15318 | 326 | EPP | 1826 | 14.17 | -.090 | | | | | | | | | | 1.0 |
| GRNL BZ15318 | 326 | IAMs_20 | 1920 | 39.44 | | | | | 69397 | 31.8 | | | | | |
| MESJ BZ15318 | 326 | IAMs_20 | 1920 | 14.01 | | | | | 53685 | 29.3 | | | | | |
| MORF BZ15387 | 326 | EPKPdf | 1823 | 28.09 | -.140 | | | | | | | | | | 1.0 |
| MORF BZ15387 | 326 | EPP | 1826 | 18.17 | -.000 | | | | | | | | | | 1.0 |
| MORF BE15387 | 326 | IAMs_20 | 1915 | 35.66 | | | | | 83821 | 39.9 | | | | | |

April 2 2023 Hour: 18:45 47.7 Lat: 36.56N Lon: 8.09W 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 | 97 | 329 | EP | | | 1846 | 2.39 | -.130 | | | | | | | 1.0 |
| MORF HN | 97 | 329 | ES | | | 1846 | 13.360 | .020 | | | | | | | 1.0 |
| MORF HN | 97 | 329 | IAML | | | 1846 | 14.48 | | 33 | 0.2 | | | | | |
| MESJ HZ | 143 | 355 | EP | | | 1846 | 8.310 | .150 | | | | | | | 1.0 |
| GRNL CZ | 177 | 346 | EP | | | 1846 | 12.43 | -.020 | | | | | | | 1.0 |
| GRNL CE | 177 | 346 | ES | | | 1846 | 30.52 | -.010 | | | | | | | 1.0 |
| GRNL CE | 177 | 346 | IAML | | | 1846 | 30.87 | | 7 | 0.1 | | | | | |

April 2 2023 Hour: 20:12 13.8 Lat: 37.14N Lon: 7.81W Depth: 8F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

E SAO BRAS DE ALPORTEL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 77 | 284 | EP | | 2012 | 26.18 | -.120 | | | | | | | 1.0 |
| MORF | HE | 77 | 284 | ES | | 2012 | 35.530 | .080 | | | | | | | 1.0 |
| MORF | HN | 77 | 284 | IAML | | 2012 | 36.50 | | 6 | 0.2 | | | | | |
| MESJ | HZ | 86 | 335 | EP | | 2012 | 27.50 | -.180 | | | | | | | 1.0 |
| MESJ | HN | 86 | 335 | ES | | 2012 | 38.070 | .220 | | | | | | | 1.0 |
| MESJ | HN | 86 | 335 | IAML | | 2012 | 39.97 | | 2 | 0.2 | | | | | |

April 3 2023 Hour: 3: 6 58.1 Lat: 52.78N Lon: 158.48E Depth:106F Agency: IGL Distant
Magnitudes: 6.1Mb IGL Rms: 0.1 secs

NEAR EAST COAST OF KAMCHATKA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|--------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ | 9803 | 350 | EP | | 319 | 36.910 | .150 | | | | | | | 1.0 |
| GGNV | BZ | 9803 | 350 | IAMB | | 319 | 43.51 | | 405 | 1.4 | | | | | |
| GGNV | BZ | 9803 | 350 | EPP | | 323 | 5.760 | .010 | | | | | | | 1.0 |
| GGNV | BN | 9803 | 350 | ESKSac | | 329 | 55.54 | -.000 | | | | | | | 1.0 |
| GRNL | BZ | 9863 | 350 | EP | | 319 | 39.23 | -.100 | | | | | | | 1.0 |
| GRNL | BZ | 9863 | 350 | IAMB | | 319 | 42.93 | | 138 | 1.4 | | | | | |
| GRNL | BZ | 9863 | 350 | EPP | | 323 | 10.01 | -.080 | | | | | | | 1.0 |
| GRNL | BN | 9863 | 350 | ESKSac | | 329 | 58.830 | .010 | | | | | | | 1.0 |
| MESJ | BZ | 9888 | 350 | EP | | 319 | 40.33 | -.090 | | | | | | | 1.0 |
| MESJ | BZ | 9888 | 350 | IAMB | | 319 | 44.10 | | 134 | 1.2 | | | | | |
| MESJ | BZ | 9888 | 350 | EPP | | 323 | 11.90 | -.020 | | | | | | | 1.0 |
| MESJ | BN | 9888 | 350 | ESKSac | | 330 | 0.230 | .030 | | | | | | | 1.0 |
| MORF | BZ | 9952 | 350 | EP | | 319 | 43.230 | .060 | | | | | | | 1.0 |
| MORF | BZ | 9952 | 350 | IAMB | | 319 | 47.46 | | 291 | 1.3 | | | | | |
| MORF | BZ | 9952 | 350 | EPP | | 323 | 16.45 | -.110 | | | | | | | 1.0 |
| MORF | BN | 9952 | 350 | ESKSac | | 330 | 3.870 | .160 | | | | | | | 0.9 |

April 3 2023 Hour: 3:11 25.9 Lat: 37.35N Lon: 8.75W Depth: 1 Agency: IGL Regional
Magnitudes: 0.5ML 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 | 10 | 118 | EP | | 311 | 27.54 | -.040 | | | | | | | 1.0 |
| MORF | HE | 10 | 118 | ES | | 311 | 28.850 | .070 | | | | | | | 1.0 |
| MORF | HE | 10 | 118 | IAML | | 311 | 29.09 | | 78 | 0.1 | | | | | |
| MESJ | HZ | 72 | 40 | EP | | 311 | 37.730 | .170 | | | | | | | 1.0 |
| MESJ | HE | 72 | 40 | ES | | 311 | 45.85 | -.200 | | | | | | | 1.0 |
| MESJ | HE | 72 | 40 | IAML | | 311 | 46.34 | | 0.80 | 0.1 | | | | | |

April 3 2023 Hour: 9:37 47.9 Lat: 38.83N Lon: 8.59W Depth: 0 Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW CORUCHE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 80 | 179 | EP | | 938 | 0.810 | .100 | | | | | | | 1.0 |
| GRNL | CN | 80 | 179 | ES | | 938 | 9.97 | -.100 | | | | | | | 1.0 |
| GRNL | CN | 80 | 179 | IAML | | 938 | 12.53 | | 6 | 0.1 | | | | | |

April 3 2023 Hour: 12: 5 6.3 Lat: 35.74N Lon: 10.07W Depth: 28F 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 | 215 | 36 | EP | | 12 5 | 35.95 | -.080 | | | | | | | 1.0 |
| MORF | HN | 215 | 36 | ES | | 12 5 | 57.64 | -.080 | | | | | | | 1.0 |
| MORF | HN | 215 | 36 | IAML | | 12 6 | 0.19 | | 5 | 0.2 | | | | | |
| MESJ | HZ | 286 | 35 | EP | | 12 5 | 44.870 | .110 | | | | | | | 1.0 |
| GRNL | CN | 295 | 26 | ES | | 12 6 | 14.890 | .060 | | | | | | | 1.0 |
| GRNL | CN | 295 | 26 | IAML | | 12 6 | 17.40 | | 2 | 0.1 | | | | | |

April 3 2023 Hour: 12:40 26.6 Lat: 36.47N Lon: 11.15W Depth: 35F 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 | 241 | 67 | EP | | 1240 | 59.21 | -.110 | | | | | | | 1.0 |
| GRNL | CZ | 292 | 51 | EP | | 1241 | 5.59 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 292 | 51 | ES | | 1241 | 34.260 | .150 | | | | | | | 1.0 |
| GRNL | CN | 292 | 51 | IAML | | 1241 | 35.26 | | | 4 | 0.2 | | | | |

April 3 2023 Hour: 14:59 42.5 Lat: 0.89N Lon: 98.84E Depth: 85F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

NIAS REGION, INDONESIA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ11452 | 309 | EPP | | | 1517 | 45.630 | .090 | | | | | | | 1.0 |
| MESJ | BE11452 | 309 | ESKSac | | | 1524 | 2.27 | -.060 | | | | | | | 1.0 |
| MESJ | BZ11452 | 309 | IAMs_20 | | | 1551 | 50.66 | | | 4602 | 61.3 | | | | |
| GRNL | BZ11476 | 309 | EPdif | | | 1513 | 31.51 | -.020 | | | | | | | 1.0 |
| GRNL | BZ11476 | 309 | EPP | | | 1517 | 47.360 | .210 | | | | | | | 0.9 |
| GRNL | BE11476 | 309 | ESKSac | | | 1524 | 3.26 | -.060 | | | | | | | 1.0 |
| GRNL | BZ11476 | 309 | IAMs_20 | | | 1551 | 57.17 | | | 4362 | 59.6 | | | | |
| MORF | BZ11501 | 309 | EPdif | | | 1513 | 32.610 | .020 | | | | | | | 1.0 |
| MORF | BZ11501 | 309 | EPP | | | 1517 | 48.930 | .030 | | | | | | | 1.0 |
| MORF | BE11501 | 309 | ESKSac | | | 1524 | 4.27 | -.210 | | | | | | | 0.9 |
| MORF | BE11501 | 309 | IAMs_20 | | | 1552 | 2.15 | | | 1830 | 37.6 | | | | |

April 3 2023 Hour: 21:34 46.4 Lat: 14.52N Lon: 56.29E Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

OWEN FRACTURE ZONE REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6808 | 305 | EP | | 2145 | 1.26 | -.070 | | | | | | | 1.0 |
| MESJ | BZ | 6808 | 305 | IAMB | | 2145 | 7.73 | | | 14 | 0.9 | | | | |
| GRNL | BZ | 6841 | 306 | EP | | 2145 | 3.460 | .160 | | | | | | | 1.0 |
| GRNL | BZ | 6841 | 306 | IAMB | | 2145 | 8.99 | | | 47 | 1.8 | | | | |
| MORF | BZ | 6843 | 305 | EP | | 2145 | 3.40 | -.090 | | | | | | | 1.0 |
| MORF | BZ | 6843 | 305 | IAMB | | 2145 | 7.22 | | | 38 | 1.3 | | | | |

April 3 2023 Hour: 21:44 14.3 Lat: 14.42N Lon: 56.31E Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.0 secs

OWEN FRACTURE ZONE REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6817 | 305 | EP | | 2154 | 29.750 | .000 | | | | | | | 1.0 |
| MESJ | BZ | 6817 | 305 | IAMB | | 2154 | 37.27 | | | 43 | 1.4 | | | | |

April 3 2023 Hour: 21:46 42.7 Lat: 21.51S Lon: 66.77W Depth: 219F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.1 secs

POTOSI, BOLIVIA Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 8970 | 43 | EP | | 2158 | 30.95 | -.060 | | | | | | | 1.0 |
| GRNL | BZ | 8970 | 43 | IAMB | | 2158 | 35.79 | | | 17 | 1.0 | | | | |
| MESJ | BZ | 8977 | 43 | EP | | 2158 | 31.410 | .060 | | | | | | | 1.0 |
| MESJ | BZ | 8977 | 43 | IAMB | | 2158 | 32.72 | | | 9 | 0.5 | | | | |

April 4 2023 Hour: 2:11 57.5 Lat: 16.16N Lon: 96.95W Depth: 30F Agency: IGL Distant
Magnitudes: 5.2Ms IGL Rms: 0.1 secs

OAXACA, MEXICO Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8799 | 54 | EP | | 223 | 59.12 | -.120 | | | | | | | 1.0 |
| MORF | BE | 8799 | 54 | IAMs_20 | | 253 | 50.04 | | | 1916 | 30.9 | | | | |
| MESJ | BZ | 8824 | 54 | EP | | 224 | 0.530 | .120 | | | | | | | 1.0 |
| MESJ | BZ | 8824 | 54 | IAMs_20 | | 255 | 52.87 | | | 1266 | 25.4 | | | | |

April 4 2023 Hour: 12:54 32.9 Lat: 13.75N Lon: 125.54E Depth: 15F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs

PHILIPPINE ISLANDS REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ12555 | 323 | EPP | | | 1313 | 56.700 | .100 | | | | | | | 1.0 |
| GGNV | BN12555 | 323 | IAMs_20 | | | 1357 | 34.48 | | 6869 | 30.5 | | | | | |
| MESJ | BZ12557 | 322 | EPP | | | 1313 | 56.66 | -.120 | | | | | | | 1.0 |
| MESJ | BN12557 | 322 | ESS | | | 1329 | 40.48 | -.020 | | | | | | | 1.0 |
| MESJ | BZ12557 | 322 | IAMs_20 | | | 14 | 3 | 50.71 | 4549 | 28.7 | | | | | |
| GRNL | BZ12561 | 322 | EPP | | | 1313 | 56.98 | -.040 | | | | | | | 1.0 |
| GRNL | BE12561 | 322 | IAMs_20 | | | 1357 | 18.80 | | 7679 | 21.4 | | | | | |
| MORF | BZ12625 | 321 | EPP | | | 1314 | 1.240 | .070 | | | | | | | 1.0 |
| MORF | BE12625 | 321 | IAMs_20 | | | 1357 | 28.93 | | 7898 | 20.7 | | | | | |

April 4 2023 Hour: 16:27 7.8 Lat: 34.29N Lon: 7.97E Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

NORTHERN ALGERIA Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 1509 | 290 | EP | | 1630 | 20.36 | -.000 | | | | | | | 1.0 |
| MESJ | BZ | 1509 | 290 | IAMB | | 1630 | 26.60 | | 39 | 1.3 | | | | | |

April 4 2023 Hour: 21: 6 8.3 Lat: 34.98N Lon: 3.90W Depth: 0 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 | 499 | 302 | EP | | 21 | 7 | 15.46 | -.070 | | | | | | 1.0 |
| MESJ | HZ | 501 | 311 | EP | | 21 | 7 | 15.58 | -.070 | | | | | | 1.0 |
| GRNL | CZ | 543 | 311 | EP | | 21 | 7 | 20.940 | .140 | | | | | | 1.0 |

April 4 2023 Hour: 22:18 13.7 Lat: 7.58N Lon: 82.32W Depth: 13F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs

SOUTH OF PANAMA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|--------|-------|-------|------|------|-----|------|------|-----|
| GGNV | BZ | 8034 | 52 | EP | | 2229 | 38.480 | .070 | | | | | | | 1.0 |
| GGNV | BE | 8034 | 52 | ES | | 2239 | 1.23 | -.180 | | | | | | | 1.0 |
| GGNV | BE | 8034 | 52 | IAMs_20 | | 2252 | 31.07 | | 21889 | 39.0 | | | | | |
| MORF | BZ | 8066 | 53 | EP | | 2229 | 40.410 | .200 | | | | | | | 1.0 |
| MORF | BE | 8066 | 53 | IAMs_20 | | 2252 | 37.94 | | 17901 | 41.4 | | | | | |
| GRNL | BZ | 8079 | 53 | EP | | 2229 | 40.900 | .030 | | | | | | | 1.0 |
| GRNL | BE | 8079 | 53 | ES | | 2239 | 6.180 | .060 | | | | | | | 1.0 |
| GRNL | BZ | 8079 | 53 | IAMs_20 | | 2252 | 34.54 | | 14467 | 32.3 | | | | | |
| MESJ | BZ | 8108 | 53 | EP | | 2229 | 42.25 | -.160 | | | | | | | 1.0 |
| MESJ | BE | 8108 | 53 | ES | | 2239 | 9.04 | -.030 | | | | | | | 1.0 |
| MESJ | BZ | 8108 | 53 | IAMs_20 | | 2257 | 32.40 | | 11930 | 24.5 | | | | | |

April 4 2023 Hour: 23:19 30.3 Lat: 39.79N Lon: 8.78W Depth: 26F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

NE LEIRIA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 188 | 174 | EP | | 2319 | 56.57 | -.160 | | | | | | | 1.0 |
| GRNL | CE | 188 | 174 | ES | | 2320 | 16.050 | .040 | | | | | | | 1.0 |
| GRNL | CE | 188 | 174 | IAML | | 2320 | 24.35 | | 55 | 0.2 | | | | | |
| MESJ | HZ | 222 | 167 | EP | | 2320 | 1.030 | .030 | | | | | | | 1.0 |
| MORF | HZ | 276 | 178 | EP | | 2320 | 7.870 | .100 | | | | | | | 1.0 |

April 5 2023 Hour: 6:19 29.6 Lat: 9.41S Lon: 71.45W Depth: 554F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.0 secs

PERU-BRAZIL BORDER REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8329 | 47 | EP | | 630 | 13.95 | -.040 | | | | | | | 1.0 |
| MORF | BZ | 8329 | 47 | IAMB | | 630 | 16.19 | | 104 | 1.0 | | | | | |
| GRNL | BZ | 8373 | 47 | EP | | 630 | 16.130 | .000 | | | | | | | 1.0 |
| GRNL | BZ | 8373 | 47 | IAMB | | 630 | 17.59 | | 29 | 0.9 | | | | | |

MESJ BZ 8389 47 EP 630 16.950.040 1.0
 MESJ BZ 8389 47 IAmb 630 18.45 16 0.7

April 5 2023 Hour: 15:34 57.6 Lat: 36.34N Lon: 8.16W Depth: 38F 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 | 116 | 338 | EP | | 1535 | 14.75 | -.020 | | | | | | | 1.0 |
| MESJ | HZ | 167 | 358 | EP | | 1535 | 20.96 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 167 | 358 | ES | | 1535 | 38.360 | .200 | | | | | | | 1.0 |
| MESJ | HN | 167 | 358 | IAML | | 1535 | 39.60 | | 1 | 0.1 | | | | | |
| GRNL | CE | 200 | 350 | ES | | 1535 | 45.14 | -.110 | | | | | | | 1.0 |
| GRNL | CE | 200 | 350 | IAML | | 1535 | 45.87 | | 1 | 0.1 | | | | | |

April 5 2023 Hour: 23:12 52.5 Lat: 36.65N Lon: 11.26W Depth: 30F 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 | 243 | 72 | EP | | 2313 | 25.41 | -.060 | | | | | | | 1.0 |
| MORF | HN | 243 | 72 | ES | | 2313 | 49.630 | .060 | | | | | | | 1.0 |
| MORF | HN | 243 | 72 | IAML | | 2313 | 51.33 | | 4 | 0.1 | | | | | |

April 6 2023 Hour: 20:26 31.1 Lat: 37.83N Lon: 8.40W Depth: 9F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.2 secs

SW ALJUSTREL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 16 | 85 | EP | | 2026 | 34.270 | .150 | | | | | | | 1.0 |
| MESJ | HN | 16 | 85 | ES | | 2026 | 36.340 | .030 | | | | | | | 1.0 |
| MESJ | HN | 16 | 85 | IAML | | 2026 | 36.68 | | 9 | 0.1 | | | | | |
| GRNL | CZ | 35 | 335 | EP | | 2026 | 36.63 | -.230 | | | | | | | 1.0 |
| GRNL | CN | 35 | 335 | ES | | 2026 | 40.94 | -.120 | | | | | | | 1.0 |
| GRNL | CN | 35 | 335 | IAML | | 2026 | 42.06 | | 11 | 0.1 | | | | | |
| MORF | HZ | 62 | 201 | EP | | 2026 | 41.470 | .230 | | | | | | | 1.0 |
| MORF | HE | 62 | 201 | ES | | 2026 | 48.58 | -.050 | | | | | | | 1.0 |
| MORF | HN | 62 | 201 | IAML | | 2026 | 49.13 | | 3 | 0.1 | | | | | |

April 6 2023 Hour: 21:38 33.4 Lat: 36.74N Lon: 9.68W Depth: 20F 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 | 111 | 55 | EP | | 2138 | 50.77 | -.050 | | | | | | | 1.0 |
| MORF | HN | 111 | 55 | ES | | 2139 | 3.640 | .120 | | | | | | | 1.0 |
| MORF | HN | 111 | 55 | IAML | | 2139 | 5.28 | | 7 | 0.1 | | | | | |
| MESJ | HZ | 178 | 46 | EP | | 2138 | 59.02 | -.100 | | | | | | | 1.0 |
| MESJ | HE | 178 | 46 | ES | | 2139 | 17.920 | .030 | | | | | | | 1.0 |
| MESJ | HE | 178 | 46 | IAML | | 2139 | 19.00 | | 1.00 | 0.1 | | | | | |

April 7 2023 Hour: 2:22 40.7 Lat: 49.86N Lon: 155.26E Depth: 86F Agency: IGL Distant
Magnitudes: 5.6Mb 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 |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ10138 | 347 | EP | | | 235 | 35.900 | .060 | | | | | | | 1.0 |
| GRNL | BZ10138 | 347 | IAMB | | | 235 | 36.85 | | 28 | 1.1 | | | | | |
| MESJ | BZ10162 | 347 | EP | | | 235 | 36.78 | -.060 | | | | | | | 1.0 |
| MESJ | BZ10162 | 347 | IAMB | | | 235 | 39.06 | | 21 | 0.5 | | | | | |

April 7 2023 Hour: 10:14 34.2 Lat: 38.96N Lon: 8.87W Depth: 12F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs

SW BENAVENTE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 98 | 164 | EP | | 1014 | 49.740 | .050 | | | | | | | 1.0 |
| GRNL | CN | 98 | 164 | ES | | 1015 | 0.99 | -.020 | | | | | | | 1.0 |
| GRNL | CE | 98 | 164 | IAML | | 1015 | 2.48 | | 10 | 0.1 | | | | | |
| MESJ | HZ | 137 | 155 | EP | | 1014 | 55.35 | -.030 | | | | | | | 1.0 |

April 7 2023 Hour: 21:28 41.8 Lat: 36.81N Lon: 10.63W Depth: 26F Agency: IGL Regional
Magnitudes: 1.2ML 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 | 184 | 72 | EP | | 2129 | 7.67 | -.040 | | | | | | | 1.0 |
| MORF | HN | 184 | 72 | ES | | 2129 | 26.690 | .040 | | | | | | | 1.0 |
| MORF | HN | 184 | 72 | IAML | | 2129 | 27.40 | | | 6 | 0.1 | | | | |
| MESJ | HN | 242 | 61 | ES | | 2129 | 39.060 | .000 | | | | | | | 1.0 |
| MESJ | HE | 242 | 61 | IAML | | 2129 | 40.58 | | | 0.60 | 0.1 | | | | |

April 8 2023 Hour: 2: 8 23.1 Lat: 36.59N 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 | 152 | 336 | EP | | 2 8 | 45.82 | -.070 | | | | | | | 1.0 |
| GRNL | CZ | 192 | 331 | EP | | 2 8 | 50.990 | .080 | | | | | | | 1.0 |

April 8 2023 Hour: 16: 8 2.8 Lat: 36.19N Lon: 8.55W Depth: 10F Agency: IGL Regional
Magnitudes: 1.3ML 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 | 124 | 356 | EP | | 16 8 | 22.440 | .010 | | | | | | | 1.0 |
| MORF | HN | 124 | 356 | ES | | 16 8 | 36.780 | .010 | | | | | | | 1.0 |
| MORF | HE | 124 | 356 | IAML | | 16 8 | 37.49 | | | 5 | 0.1 | | | | |
| GRNL | CN | 213 | 360 | ES | | 16 8 | 56.24 | -.030 | | | | | | | 1.0 |
| GRNL | CE | 213 | 360 | IAML | | 16 8 | 56.98 | | | 2 | 0.1 | | | | |

April 8 2023 Hour: 17:36 57.4 Lat: 37.32N Lon: 8.54W Depth: 11F Agency: IGL Regional
Magnitudes: 0.5ML 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 | 259 | EP | | 1736 | 59.80 | -.090 | | | | | | | 1.0 |
| MORF | HE | 10 | 259 | ES | | 1737 | 1.810 | .090 | | | | | | | 1.0 |
| MORF | HE | 10 | 259 | IAML | | 1737 | 2.17 | | | 19 | 0.1 | | | | |

April 8 2023 Hour: 18:56 18.7 Lat: 36.21N Lon: 8.16W Depth: 33F Agency: IGL Regional
Magnitudes: 2.6ML 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 | 129 | 340 | EP | | 1856 | 37.41 | -.160 | | | | | | | 1.0 |
| MORF | HN | 129 | 340 | ES | | 1856 | 51.27 | -.040 | | | | | | | 1.0 |
| MORF | HN | 129 | 340 | IAML | | 1856 | 53.41 | | | 98 | 0.3 | | | | |
| MESJ | HZ | 181 | 358 | EP | | 1856 | 44.140 | .160 | | | | | | | 1.0 |
| MESJ | HE | 181 | 358 | ES | | 1857 | 2.570 | .170 | | | | | | | 1.0 |
| MESJ | HE | 181 | 358 | IAML | | 1857 | 3.80 | | | 59 | 0.2 | | | | |
| GRNL | CZ | 214 | 350 | EP | | 1856 | 47.98 | -.070 | | | | | | | 1.0 |
| GRNL | CN | 214 | 350 | ES | | 1857 | 9.39 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 214 | 350 | IAML | | 1857 | 10.12 | | | 40 | 0.2 | | | | |

April 8 2023 Hour: 21: 9 1.6 Lat: 37.02N Lon: 13.49W Depth: 25F 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 431 | 84 | EP | | 21 9 | 55.19 | -.120 | | | | | | | 1.0 |
| MORF | HN | 431 | 84 | ES | | 2110 | 34.660 | .160 | | | | | | | 1.0 |
| MORF | HN | 431 | 84 | IAML | | 2110 | 37.35 | | | 12 | 0.1 | | | | |
| GRNL | CZ | 451 | 73 | EP | | 21 9 | 57.68 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 451 | 73 | ES | | 2110 | 38.910 | .170 | | | | | | | 1.0 |
| GRNL | CN | 451 | 73 | IAML | | 2110 | 42.69 | | | 15 | 0.2 | | | | |
| MESJ | HZ | 475 | 77 | EP | | 2110 | 0.56 | -.140 | | | | | | | 1.0 |

April 8 2023 Hour: 22:43 45.4 Lat: 36.56N Lon: 8.70W Depth: 28F 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 | 83 | 3 | EP | | 2243 | 58.60 | -.040 | | | | | | | 1.0 |
| MORF | HN | 83 | 3 | ES | | 2244 | 8.28 | -.040 | | | | | | | 1.0 |
| MORF | HE | 83 | 3 | IAML | | 2244 | 9.00 | | | 2 | 0.1 | | | | |
| MESJ | HN | 148 | 16 | ES | | 2244 | 22.42 | 0.080 | | | | | | | 1.0 |
| MESJ | HE | 148 | 16 | IAML | | 2244 | 23.25 | | | 0.70 | 0.2 | | | | |

April 9 2023 Hour: 0:19 12.6 Lat: 36.95N Lon: 8.75W Depth: 27F 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 | 40 | 13 | EP | | 019 | 20.03 | -.100 | | | | | | | 1.0 |
| MORF | HE | 40 | 13 | ES | | 019 | 25.74 | 0.100 | | | | | | | 1.0 |
| MORF | HE | 40 | 13 | IAML | | 019 | 26.14 | | | 6 | 0.2 | | | | |

April 9 2023 Hour: 1:21 13.5 Lat: 0.91N Lon: 28.33W Depth: 10F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs
CENTRAL MID-ATLANTIC RIDGE Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 4510 | 24 | EP | | 128 | 52.89 | 0.000 | | | | | | | 1.0 |
| MORF | BZ | 4510 | 24 | IAMB | | 128 | 54.42 | | | 17 | 1.0 | | | | |

April 9 2023 Hour: 12:17 34.0 Lat: 8.97N Lon: 93.97E Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Ms IGL Rms: 0.0 secs
NICOBAR ISLANDS, INDIA REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|----|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ10468 | 309 | | EP | | 1230 | 52.65 | 0.000 | | | | | | | 1.0 |
| MESJ | BZ10468 | 309 | | IAMS_20 | 13 | 9 | 58.49 | | | 1389 | 34.6 | | | | |

April 9 2023 Hour: 14:54 36.4 Lat: 38.00N Lon: 8.58W Depth: 8F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 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 | 12 | 6 | EP | | 1454 | 38.72 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 12 | 6 | ES | | 1454 | 40.37 | -.060 | | | | | | | 1.0 |
| GRNL | CE | 12 | 6 | IAML | | 1454 | 40.47 | | | 51 | 0.1 | | | | |
| MESJ | HZ | 37 | 120 | EP | | 1454 | 42.56 | 0.070 | | | | | | | 1.0 |
| MESJ | HE | 37 | 120 | ES | | 1454 | 46.94 | 0.020 | | | | | | | 1.0 |
| MESJ | HN | 37 | 120 | IAML | | 1454 | 47.82 | | | 5 | 0.2 | | | | |

April 9 2023 Hour: 14:56 38.0 Lat: 38.01N Lon: 8.58W Depth: 7F Agency: IGL Regional
Magnitudes: 1.1ML 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 | 11 | 6 | EP | | 1456 | 40.03 | -.030 | | | | | | | 1.0 |
| GRNL | CN | 11 | 6 | ES | | 1456 | 41.68 | 0.090 | | | | | | | 1.0 |
| GRNL | CE | 11 | 6 | IAML | | 1456 | 41.78 | | | 130 | 0.1 | | | | |
| MESJ | HZ | 37 | 121 | EP | | 1456 | 43.88 | -.160 | | | | | | | 1.0 |
| MESJ | HN | 37 | 121 | ES | | 1456 | 48.41 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 37 | 121 | IAML | | 1456 | 49.18 | | | 10 | 0.1 | | | | |
| MORF | HZ | 79 | 185 | EP | | 1456 | 50.87 | 0.160 | | | | | | | 1.0 |
| MORF | HN | 79 | 185 | ES | | 1457 | 0.02 | 0.010 | | | | | | | 1.0 |
| MORF | HN | 79 | 185 | IAML | | 1457 | 2.70 | | | 12 | 0.2 | | | | |

April 9 2023 Hour: 19:31 23.2 Lat: 37.60N Lon: 8.39W Depth: 19F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

SW OURIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 30 | 30 | EP | | 1931 | 29.130 | .210 | | | | | | | 1.0 |
| MESJ | HE | 30 | 30 | ES | | 1931 | 33.120 | .060 | | | | | | | 1.0 |
| MORF | HZ | 40 | 215 | EP | | 1931 | 30.25 | -.050 | | | | | | | 1.0 |
| MORF | HE | 40 | 215 | ES | | 1931 | 35.470 | .020 | | | | | | | 1.0 |
| MORF | HN | 40 | 215 | IAML | | 1931 | 36.49 | | 4 | 0.1 | | | | | |
| GRNL | CZ | 58 | 345 | EP | | 1931 | 32.77 | -.100 | | | | | | | 1.0 |
| GRNL | CE | 58 | 345 | ES | | 1931 | 39.73 | -.160 | | | | | | | 1.0 |
| GRNL | CN | 58 | 345 | IAML | | 1931 | 40.17 | | 2 | 0.1 | | | | | |

April 9 2023 Hour: 22:11 20.9 Lat: 48.38S Lon: 9.91W Depth: 2F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs

SOUTEHRN MID-ATLANTIC RIDGE Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 9479 | 1 | EP | | 2223 | 58.69 | 0.16 | | | | | | | 1.0 |
| MORF | BZ | 9479 | 1 | IAMB | | 2224 | 2.08 | | 62 | 1.4 | | | | | |
| MESJ | BZ | 9539 | 1 | EP | | 2224 | 1.15 | 0.00 | | | | | | | 1.0 |
| MESJ | BZ | 9539 | 1 | IAMB | | 2224 | 5.64 | | 177 | 2.2 | | | | | |
| GRNL | BZ | 9568 | 1 | EP | | 2224 | 2.27 | -0.16 | | | | | | | 1.0 |
| GRNL | BZ | 9568 | 1 | IAMB | | 2224 | 7.00 | | 338 | 2.5 | | | | | |

April 10 2023 Hour: 4:13 33.4 Lat: 37.31N Lon: 8.58W Depth: 12F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.2 secs

W MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 7 | 261 | EP | | 413 | 35.30 | -.400 | | | | | | | 1.0 |
| MORF | HN | 7 | 261 | ES | | 413 | 37.490 | .120 | | | | | | | 1.0 |
| MORF | HN | 7 | 261 | IAML | | 413 | 37.62 | | 126 | 0.2 | | | | | |
| MESJ | HZ | 66 | 28 | EP | | 413 | 44.190 | .030 | | | | | | | 1.0 |
| MESJ | HN | 66 | 28 | ES | | 413 | 52.080 | .080 | | | | | | | 1.0 |
| MESJ | HN | 66 | 28 | IAML | | 413 | 52.73 | | 18 | 0.2 | | | | | |
| GRNL | CZ | 88 | 1 | EP | | 413 | 47.630 | .180 | | | | | | | 1.0 |
| GRNL | CN | 88 | 1 | ES | | 413 | 57.700 | .010 | | | | | | | 1.0 |
| GRNL | CN | 88 | 1 | IAML | | 413 | 58.70 | | 39 | 0.1 | | | | | |

April 10 2023 Hour: 9:24 34.5 Lat: 36.35N Lon: 7.80W Depth: 24F 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 170 | 347 | EP | | 924 | 58.930 | .140 | | | | | | | 1.0 |
| GRNL | CZ | 207 | 341 | EP | | 925 | 3.40 | -.000 | | | | | | | 1.0 |
| GRNL | CE | 207 | 341 | ES | | 925 | 24.37 | -.150 | | | | | | | 1.0 |
| GRNL | CN | 207 | 341 | IAML | | 925 | 24.81 | | 1 | 0.1 | | | | | |

April 10 2023 Hour: 14:58 12.2 Lat: 38.09N Lon: 8.32W Depth: 1F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 22 | 275 | EP | | 1458 | 15.690 | .010 | | | | | | | 1.0 |
| GRNL | CN | 22 | 275 | ES | | 1458 | 18.21 | -.010 | | | | | | | 1.0 |
| GRNL | CE | 22 | 275 | IAML | | 1458 | 18.62 | | 8 | 0.1 | | | | | |
| MESJ | HZ | 29 | 162 | EP | | 1458 | 16.980 | .020 | | | | | | | 1.0 |
| MESJ | HN | 29 | 162 | ES | | 1458 | 20.40 | -.020 | | | | | | | 1.0 |

April 10 2023 Hour: 18:56 37.0 Lat: 37.20N Lon: 7.31W Depth: 14F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs
SPAIN Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 107 | 312 | EP | | 1856 | 53.86 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 107 | 312 | ES | | 1857 | 6.300 | .060 | | | | | | | 1.0 |
| MESJ | HN | 107 | 312 | IAML | | 1857 | 8.22 | | | 7 | 0.2 | | | | |
| MORF | HZ | 120 | 276 | EP | | 1856 | 55.780 | .020 | | | | | | | 1.0 |
| MORF | HN | 120 | 276 | ES | | 1857 | 9.43 | -.060 | | | | | | | 1.0 |
| MORF | HN | 120 | 276 | IAML | | 1857 | 11.68 | | | 14 | 0.2 | | | | |

April 10 2023 Hour: 19:144.3 Lat: 37.31N Lon: 8.61W Depth: 12F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.2 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 | 259 | EP | | 19 1 | 46.09 | -.310 | | | | | | | 1.0 |
| MORF | HE | 4 | 259 | ES | | 19 1 | 48.090 | .140 | | | | | | | 1.0 |
| MORF | HN | 4 | 259 | IAML | | 19 1 | 48.71 | | | 129 | 0.1 | | | | |
| MESJ | HZ | 68 | 30 | EP | | 19 1 | 55.320 | .080 | | | | | | | 1.0 |
| MESJ | HN | 68 | 30 | ES | | 19 2 | 3.24 | -.010 | | | | | | | 1.0 |
| MESJ | HN | 68 | 30 | IAML | | 19 2 | 4.43 | | | 4 | 0.3 | | | | |
| GRNL | CZ | 89 | 2 | EP | | 19 1 | 58.550 | .190 | | | | | | | 1.0 |
| GRNL | CN | 89 | 2 | ES | | 19 2 | 8.57 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 89 | 2 | IAML | | 19 2 | 9.35 | | | 5 | 0.2 | | | | |

April 10 2023 Hour: 19:29 16.5 Lat: 38.94N Lon: 8.83W Depth: 4F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs
SW BENAVENTE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 96 | 166 | EP | | 1929 | 31.81 | -.090 | | | | | | | 1.0 |
| GRNL | CN | 96 | 166 | ES | | 1929 | 43.240 | .090 | | | | | | | 1.0 |
| GRNL | CE | 96 | 166 | IAML | | 1929 | 44.83 | | | 14 | 0.2 | | | | |
| MESJ | HZ | 134 | 156 | EP | | 1929 | 37.890 | .030 | | | | | | | 1.0 |
| MESJ | HE | 134 | 156 | ES | | 1929 | 53.43 | -.030 | | | | | | | 1.0 |
| MESJ | HE | 134 | 156 | IAML | | 1929 | 55.41 | | | 5 | 0.2 | | | | |

April 10 2023 Hour: 21:47 27.7 Lat: 38.46N Lon: 8.10W Depth: 11F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs
NW VIANA DO ALENTEJO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 57 | 227 | EP | | 2147 | 37.050 | .010 | | | | | | | 1.0 |
| MESJ | HZ | 70 | 189 | EP | | 2147 | 39.170 | .140 | | | | | | | 1.0 |
| MESJ | HN | 70 | 189 | ES | | 2147 | 47.12 | -.150 | | | | | | | 1.0 |
| MESJ | HN | 70 | 189 | IAML | | 2147 | 48.57 | | | 4 | 0.1 | | | | |

April 11 2023 Hour: 0:47 40.0 Lat: 38.78N Lon: 7.98W Depth: 10F Agency: IGL Regional
Magnitudes: 0.5ML 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 | 90 | 215 | EP | | 047 | 54.530 | .030 | | | | | | | 1.0 |
| GRNL | CN | 90 | 215 | ES | | 048 | 5.160 | .100 | | | | | | | 1.0 |
| GRNL | CN | 90 | 215 | IAML | | 048 | 6.44 | | | 2 | 0.2 | | | | |
| MESJ | HZ | 106 | 191 | EP | | 047 | 56.89 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 106 | 191 | ES | | 048 | 9.12 | -.120 | | | | | | | 1.0 |
| MESJ | HN | 106 | 191 | IAML | | 048 | 10.33 | | | 0.60 | 0.0 | | | | |

April 12 2023 Hour: 3:21 20.4 Lat: 38.13N Lon: 8.40W Depth: 15F Agency: IGL Regional
Magnitudes: 0.5ML 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 | 15 | 262 | EP | | 321 | 23.81 | -.020 | | | | | | | 1.0 |
| GRNL | CN | 15 | 262 | ES | | 321 | 26.320 | .020 | | | | | | | 1.0 |

April 12 2023 Hour: 9:51 56.5 Lat: 38.43N Lon: 6.88W Depth: 3F Agency: IGL Regional
Magnitudes: 1.0ML 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 | 134 | 241 | EP | | 952 | 17.960 | .010 | | | | | | | 1.0 |
| MESJ | HE | 134 | 241 | ES | | 952 | 33.59 | -.050 | | | | | | | 1.0 |
| MESJ | HE | 134 | 241 | IAML | | 952 | 33.70 | | | 1 | 0.2 | | | | |
| GRNL | CZ | 152 | 257 | EP | | 952 | 20.600 | .150 | | | | | | | 1.0 |
| GRNL | CE | 152 | 257 | ES | | 952 | 37.85 | -.110 | | | | | | | 1.0 |
| GRNL | CE | 152 | 257 | IAML | | 952 | 39.89 | | | 3 | 0.1 | | | | |

April 12 2023 Hour: 18:15 18.9 Lat: 36.47N Lon: 9.70W Depth: 10F 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 | 132 | 45 | EP | | 1815 | 39.710 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 208 | 29 | EP | | 1815 | 49.01 | -.140 | | | | | | | 1.0 |
| GRNL | CN | 208 | 29 | ES | | 1816 | 11.310 | .100 | | | | | | | 1.0 |
| GRNL | CN | 208 | 29 | IAML | | 1816 | 12.42 | | | 3 | 0.1 | | | | |

April 12 2023 Hour: 21:36 10.8 Lat: 37.31N Lon: 8.57W Depth: 6F Agency: IGL Regional
Magnitudes: 0.7ML 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 | 7 | 261 | EP | | 2136 | 12.19 | -.140 | | | | | | | 1.0 |
| MORF | HN | 7 | 261 | ES | | 2136 | 13.650 | .170 | | | | | | | 1.0 |
| MORF | HE | 7 | 261 | IAML | | 2136 | 14.24 | | | 40 | 0.1 | | | | |
| GRNL | CZ | 88 | 0 | EP | | 2136 | 25.150 | .140 | | | | | | | 1.0 |
| GRNL | CN | 88 | 0 | ES | | 2136 | 35.26 | -.160 | | | | | | | 1.0 |
| GRNL | CN | 88 | 0 | IAML | | 2136 | 35.86 | | | 3 | 0.1 | | | | |

April 13 2023 Hour: 3:24 8.5 Lat: 17.59N Lon: 60.07E Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.1 secs
OWEN FRACTURE ZONE REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 6948 | 304 | EP | | 334 | 31.76 | -.090 | | | | | | | 1.0 |
| MESJ | BZ | 6948 | 304 | IAMB | | 334 | 32.63 | | | 33 | 0.8 | | | | |
| GRNL | BZ | 6978 | 304 | EP | | 334 | 33.63 | -.010 | | | | | | | 1.0 |
| GRNL | BZ | 6978 | 304 | IAMB | | 334 | 34.08 | | | 19 | 0.5 | | | | |
| GGNV | BZ | 7027 | 305 | EP | | 334 | 36.650 | .110 | | | | | | | 1.0 |
| GGNV | BZ | 7027 | 305 | IAMB | | 334 | 37.84 | | | 65 | 0.8 | | | | |

April 13 2023 Hour: 4:15 58.4 Lat: 37.31N Lon: 7.77W Depth: 10F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs
NE 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 | 71 | 326 | EP | | 416 | 9.81 | -.080 | | | | | | | 1.0 |
| MESJ | HE | 71 | 326 | ES | | 416 | 18.290 | .030 | | | | | | | 1.0 |
| MESJ | HN | 71 | 326 | IAML | | 416 | 23.63 | | | 25 | 0.2 | | | | |
| MORF | HZ | 78 | 270 | EP | | 416 | 11.140 | .100 | | | | | | | 1.0 |
| MORF | HE | 78 | 270 | ES | | 416 | 20.19 | -.060 | | | | | | | 1.0 |
| MORF | HN | 78 | 270 | IAML | | 416 | 23.29 | | | 43 | 0.1 | | | | |
| GRNL | CZ | 113 | 322 | EP | | 416 | 16.290 | .010 | | | | | | | 1.0 |

April 13 2023 Hour: 15:54 55.5 Lat: 49.19N Lon: 129.64W Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs
VANCOUVER ISLAND, CANADA REGION Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|---------|---|------|--------|--------|------|------|------|-----|------|------|-----|
| GGNV | BE | 8655 | 44 | ES | | 1616 | 47.090 | .190 | | | | | | | 1.0 |
| GGNV | BZ | 8655 | 44 | IAMs_20 | | 1634 | 57.32 | | | 7859 | 20.2 | | | | |
| GRNL | BZ | 8739 | 44 | EP | | 16 | 6 | 57.560 | .030 | | | | | | 1.0 |
| GRNL | BN | 8739 | 44 | ES | | 1616 | 54.99 | -.100 | | | | | | | 1.0 |
| GRNL | BZ | 8739 | 44 | IAMs_20 | | 1641 | 14.19 | | | 9728 | 16.1 | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------|----|------|----|---------|--|------|---|--------|-------|--|------|------|--|--|--|--|--|--|-----|
| MESJ | BZ | 8781 | 43 | EP | | 16 | 6 | 59.50 | -.120 | | | | | | | | | | 1.0 |
| MESJ | BE | 8781 | 43 | ES | | 1616 | | 59.210 | .070 | | | | | | | | | | 1.0 |
| MESJ | BZ | 8781 | 43 | IAMs_20 | | 1641 | | 25.88 | | | 9658 | 20.6 | | | | | | | |
| MORF | BZ | 8808 | 44 | EP | | 16 | 7 | 0.94 | -.070 | | | | | | | | | | 1.0 |
| MORF | BE | 8808 | 44 | IAMs_20 | | 1635 | | 28.96 | | | 6957 | 21.2 | | | | | | | |

April 13 2023 Hour: 19:43 4.1 Lat: 36.47N Lon: 9.86W Depth: 43F 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 | 143 | 49 | EP | | 1943 | | 24.60 | -.040 | | | | | | 1.0 |
| MESJ | HZ | 211 | 43 | EP | | 1943 | | 33.09 | -.000 | | | | | | 1.0 |
| GRNL | CZ | 216 | 32 | EP | | 1943 | | 33.55 | -.070 | | | | | | 1.0 |
| GRNL | CN | 216 | 32 | ES | | 1943 | | 55.330 | .120 | | | | | | 1.0 |
| GRNL | CE | 216 | 32 | IAML | | 1943 | | 55.99 | | | 3 | 0.1 | | | |

April 13 2023 Hour: 22:54 49.1 Lat: 35.38N Lon: 3.57W Depth: 30F 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 | 497 | 305 | EP | | 2255 | | 53.38 | -.010 | | | | | | 1.0 |
| MORF | HZ | 503 | 297 | EP | | 2255 | | 54.16 | -.010 | | | | | | 1.0 |
| GRNL | CZ | 539 | 306 | EP | | 2255 | | 58.470 | .020 | | | | | | 1.0 |

April 14 2023 Hour: 0:23 20.4 Lat: 33.43N Lon: 4.09W Depth: 29F 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 |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MESJ | HZ | 616 | 324 | EP | | 024 | | 39.11 | -.020 | | | | | | 1.0 |
| GRNL | CZ | 658 | 323 | EP | | 024 | | 44.300 | .020 | | | | | | 1.0 |

April 14 2023 Hour: 9:55 47.3 Lat: 6.05S Lon: 112.02E Depth:614FAgency: IGL Distant
Rms: 0.1 secs

JAVA SEA Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|--------|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MESJ | BZ13071 | 310 | EPdif | | | 10 | 9 | 44.83 | -.020 | | | | | | 1.0 |
| MESJ | BZ13071 | 310 | EpPdif | | | 1011 | | 58.170 | .240 | | | | | | 0.9 |
| MESJ | BZ13071 | 310 | EPKPdf | | | 1013 | | 24.140 | .030 | | | | | | 1.0 |
| MESJ | BZ13071 | 310 | EPP | | | 1014 | | 47.03 | -.180 | | | | | | 1.0 |
| GRNL | BZ13093 | 310 | EPdif | | | 10 | 9 | 45.780 | .060 | | | | | | 1.0 |
| GRNL | BZ13093 | 310 | EPKPdf | | | 1013 | | 24.48 | -.000 | | | | | | 1.0 |
| GRNL | BZ13093 | 310 | EPP | | | 1014 | | 48.44 | -.120 | | | | | | 1.0 |
| MORF | BZ13123 | 309 | EPdif | | | 10 | 9 | 46.92 | -.060 | | | | | | 1.0 |
| MORF | BZ13123 | 309 | EpPdif | | | 1012 | | 0.230 | .170 | | | | | | 1.0 |
| MORF | BZ13123 | 309 | EPKPdf | | | 1013 | | 25.230 | .170 | | | | | | 1.0 |
| GGNV | BZ13124 | 311 | EPKPdf | | | 1013 | | 24.87 | -.130 | | | | | | 1.0 |
| GGNV | BZ13124 | 311 | EPP | | | 1014 | | 50.31 | -.130 | | | | | | 1.0 |

April 14 2023 Hour: 20: 0 35.0 Lat: 36.53N Lon: 9.79W Depth: 32F 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 | 133 | 49 | EP | | 20 | 0 | 54.410 | .140 | | | | | | 1.0 |
| MESJ | HZ | 201 | 43 | EP | | 20 | 1 | 2.770 | .020 | | | | | | 1.0 |
| GRNL | CZ | 206 | 31 | EP | | 20 | 1 | 3.09 | -.220 | | | | | | 1.0 |
| GRNL | CE | 206 | 31 | ES | | 20 | 1 | 24.000 | .050 | | | | | | 1.0 |

April 15 2023 Hour: 21:47 44.0 Lat: 36.65N Lon: 12.70W Depth: 41F 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 |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| GRNL | CZ | 401 | 65 | EP | | 2148 | | 33.90 | -.190 | | | | | | 1.0 |
| GRNL | CN | 401 | 65 | ES | | 2149 | | 10.770 | .130 | | | | | | 1.0 |
| GRNL | CN | 401 | 65 | IAML | | 2149 | | 12.70 | | | 5 | 0.2 | | | |

MESJ HE 419 70 ES 2149 14.680.060 1.0
 MESJ HE 419 70 IAML 2149 17.59 1 0.1

April 16 2023 Hour: 8:18 4.8 Lat: 36.33N Lon: 9.65W Depth: 10F 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 |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 140 | 39 | EP | | 818 | 26.730 | .050 | | | | | | | 1.0 |
| MORF | HE | 140 | 39 | ES | | 818 | 42.63- | .010 | | | | | | | 1.0 |
| MORF | HN | 140 | 39 | IAML | | 818 | 44.26 | | 7 | 0.2 | | | | | |
| GRNL | CN | 219 | 26 | ES | | 818 | 59.58- | .040 | | | | | | | 1.0 |
| GRNL | CN | 219 | 26 | IAML | | 819 | 2.07 | | 8 | 0.1 | | | | | |

April 16 2023 Hour: 9:49 51.7 Lat: 17.80N Lon: 61.51W Depth: 26F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

ANTIGUA AND BARBUDA REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 5590 | 55 | EP | | 958 | 45.700 | .120 | | | | | | | 1.0 |
| GRNL | BZ | 5590 | 55 | IAMB | | 958 | 47.30 | | 94 | 1.6 | | | | | |
| MESJ | BZ | 5616 | 55 | EP | | 958 | 47.25- | .120 | | | | | | | 1.0 |
| MESJ | BZ | 5616 | 55 | IAMB | | 958 | 50.38 | | 42 | 1.3 | | | | | |

April 16 2023 Hour: 14:36 15.7 Lat: 36.93N Lon: 8.72W Depth: 20F Agency: IGL Regional
Magnitudes: 2.7ML 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 | 42 | 8 | EP | | 1436 | 23.340 | .300 | | | | | | | 1.0 |
| MORF | HE | 42 | 8 | ES | | 1436 | 28.33- | .080 | | | | | | | 1.0 |
| MORF | HN | 42 | 8 | IAML | | 1436 | 29.05 | | 421 | 0.1 | | | | | |
| MESJ | HZ | 110 | 24 | EP | | 1436 | 33.040 | .110 | | | | | | | 1.0 |
| GRNL | CZ | 131 | 6 | EP | | 1436 | 35.26- | .290 | | | | | | | 1.0 |
| GRNL | CE | 131 | 6 | ESg | | 1436 | 51.34- | .060 | | | | | | | 1.0 |
| GRNL | CN | 131 | 6 | IAML | | 1436 | 53.95 | | 130 | 0.1 | | | | | |

April 16 2023 Hour: 15:55 22.2 Lat: 37.33N Lon: 8.56W Depth: 12F Agency: IGL Regional
Magnitudes: 1.1ML 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 | 8 | 249 | EP | | 1555 | 24.35- | .300 | | | | | | | 1.0 |
| MORF | HE | 8 | 249 | ES | | 1555 | 26.490 | .070 | | | | | | | 1.0 |
| MORF | HE | 8 | 249 | IAML | | 1555 | 26.85 | | 161 | 0.1 | | | | | |
| MESJ | HZ | 64 | 28 | EP | | 1555 | 32.720 | .110 | | | | | | | 1.0 |
| MESJ | HE | 64 | 28 | ES | | 1555 | 40.18- | .020 | | | | | | | 1.0 |
| MESJ | HN | 64 | 28 | IAML | | 1555 | 42.61 | | 4 | 0.1 | | | | | |
| GRNL | CZ | 86 | 360 | EP | | 1555 | 36.090 | .130 | | | | | | | 1.0 |
| GRNL | CN | 86 | 360 | ES | | 1555 | 46.020 | .020 | | | | | | | 1.0 |
| GRNL | CN | 86 | 360 | IAML | | 1555 | 47.46 | | 5 | 0.1 | | | | | |

April 16 2023 Hour: 18:26 45.7 Lat: 36.49N Lon: 8.07W Depth: 21F 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 |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 104 | 330 | EP | | 1827 | 2.040 | .000 | | | | | | | 1.0 |
| MORF | HE | 104 | 330 | ES | | 1827 | 13.98- | .000 | | | | | | | 1.0 |
| MORF | HE | 104 | 330 | IAML | | 1827 | 15.99 | | 2 | 0.1 | | | | | |

April 16 2023 Hour: 19:58 35.6 Lat: 35.79N Lon: 7.40W Depth: 32F 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 |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 202 | 327 | EP | | 1959 | 3.35- | .140 | | | | | | | 1.0 |
| MESJ | HZ | 239 | 342 | EP | | 1959 | 8.220 | .190 | | | | | | | 1.0 |
| GRNL | CZ | 278 | 338 | EP | | 1959 | 12.910 | .080 | | | | | | | 1.0 |
| GRNL | CN | 278 | 338 | ES | | 1959 | 39.87- | .120 | | | | | | | 1.0 |

GRNL CN 278 338 IAML 1959 41.70 3 0.2

**April 16 2023 Hour: 21:11 26.3 Lat: 35.46N Lon: 3.65W Depth: 2F Agency: IGL Regional
Magnitudes: 1.8ML 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 | 487 | 304 | EP | | 2112 | 31.920 | .120 | | | | | | | 1.0 |
| MESJ | HN | 487 | 304 | ES | | 2113 | 19.61- | .020 | | | | | | | 1.0 |
| MESJ | HN | 487 | 304 | IAML | | 2113 | 20.85 | | | 2 | 0.2 | | | | |
| GRNL | CZ | 528 | 305 | EP | | 2112 | 36.75- | .110 | | | | | | | 1.0 |

**April 16 2023 Hour: 21:50 46.6 Lat: 39.11N Lon: 10.62W Depth: 38F Agency: IGL Regional
Magnitudes: 3.6ML 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 |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 210 | 121 | EP | | 2151 | 15.640 | .130 | | | | | | | 1.0 |
| GRNL | CN | 210 | 121 | ES | | 2151 | 36.43- | .170 | | | | | | | 1.0 |
| GRNL | CN | 210 | 121 | IAML | | 2151 | 40.31 | | | 257 | 0.1 | | | | |
| MESJ | HZ | 252 | 123 | EP | | 2151 | 20.850 | .110 | | | | | | | 1.0 |
| MESJ | HN | 252 | 123 | ES | | 2151 | 45.830 | .190 | | | | | | | 1.0 |
| MESJ | HN | 252 | 123 | IAML | | 2151 | 49.31 | | | 271 | 0.1 | | | | |
| MORF | HZ | 264 | 139 | EP | | 2151 | 22.06- | .160 | | | | | | | 1.0 |
| MORF | HN | 264 | 139 | ES | | 2151 | 48.12- | .090 | | | | | | | 1.0 |
| MORF | HN | 264 | 139 | IAML | | 2151 | 51.23 | | | 483 | 0.3 | | | | |

**April 16 2023 Hour: 22:31 56.6 Lat: 37.03N Lon: 8.33W Depth: 4F 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 |
|------|----|------|-----|-------|---|------|--------|------|------|------|------|-----|------|------|-----|
| MORF | HZ | 42 | 318 | EP | | 2232 | 3.16- | .230 | | | | | | | 1.0 |
| MORF | HE | 42 | 318 | ES | | 2232 | 8.620 | .250 | | | | | | | 1.0 |
| MORF | HE | 42 | 318 | IAML | | 2232 | 10.29 | | | 26 | 0.1 | | | | |
| MESJ | HZ | 91 | 6 | EP | | 2232 | 11.370 | .110 | | | | | | | 1.0 |
| MESJ | HN | 91 | 6 | ES | | 2232 | 21.92- | .060 | | | | | | | 1.0 |
| MESJ | HN | 91 | 6 | IAML | | 2232 | 23.64 | | | 10 | 0.2 | | | | |
| GRNL | CZ | 122 | 350 | EP | | 2232 | 16.08- | .100 | | | | | | | 1.0 |
| GRNL | CN | 122 | 350 | ES | | 2232 | 30.500 | .010 | | | | | | | 1.0 |
| GRNL | CN | 122 | 350 | IAML | | 2232 | 31.87 | | | 18 | 0.1 | | | | |

**April 16 2023 Hour: 23:47 50.8 Lat: 37.33N Lon: 8.51W Depth: 9F 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 | 13 | 258 | EP | | 2347 | 53.44- | .030 | | | | | | | 1.0 |
| MORF | HN | 13 | 258 | ES | | 2347 | 55.520 | .120 | | | | | | | 1.0 |
| MORF | HE | 13 | 258 | IAML | | 2347 | 55.99 | | | 42 | 0.2 | | | | |
| GRNL | CN | 87 | 356 | ES | | 2348 | 14.91- | .090 | | | | | | | 1.0 |
| GRNL | CN | 87 | 356 | IAML | | 2348 | 17.18 | | | 5 | 0.1 | | | | |

**April 17 2023 Hour: 2:48 32.3 Lat: 36.78N Lon: 8.78W Depth: 28F 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 | 59 | 11 | EP | | 248 | 42.25- | .070 | | | | | | | 1.0 |
| MORF | HE | 59 | 11 | ES | | 248 | 49.670 | .020 | | | | | | | 1.0 |
| MORF | HE | 59 | 11 | IAML | | 248 | 51.04 | | | 5 | 0.1 | | | | |
| GRNL | CN | 148 | 7 | ES | | 249 | 9.300 | .060 | | | | | | | 1.0 |
| GRNL | CN | 148 | 7 | IAML | | 249 | 10.48 | | | 0.90 | 0.0 | | | | |

April 17 2023 Hour: 4:44 53.5 Lat: 36.67N Lon: 9.72W Depth: 30F Agency: IGL Regional
Magnitudes: 2.0ML 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 | 118 | 53 | EP | | 445 | 11.080 | .050 | | | | | | | 1.0 |
| MESJ | HZ | 186 | 45 | EP | | 445 | 19.37 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 186 | 45 | ES | | 445 | 38.410 | .130 | | | | | | | 1.0 |
| MESJ | HE | 186 | 45 | IAML | | 445 | 39.96 | | | 7 | 0.2 | | | | |
| GRNL | CZ | 189 | 32 | EP | | 445 | 19.61 | -.200 | | | | | | | 1.0 |
| GRNL | CN | 189 | 32 | ES | | 445 | 39.050 | .040 | | | | | | | 1.0 |
| GRNL | CE | 189 | 32 | IAML | | 445 | 40.92 | | | 22 | 0.1 | | | | |

April 17 2023 Hour: 13:28 58.9 Lat: 42.93N Lon: 0.27E Depth: 1F Agency: IGL Regional
Rms: 0.1 secs

PYRENEES Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 915 | 235 | EP | | 1330 | 55.730 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 920 | 237 | EP | | 1330 | 56.340 | .120 | | | | | | | 1.0 |
| MORF | HZ | 983 | 234 | EP | | 1331 | 3.54 | -.180 | | | | | | | 1.0 |

April 17 2023 Hour: 19:57 45.0 Lat: 36.87N Lon: 11.03W Depth: 23F 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 217 | 76 | EP | | 1958 | 15.500 | .020 | | | | | | | 1.0 |
| MORF | HN | 217 | 76 | ES | | 1958 | 37.770 | .030 | | | | | | | 1.0 |
| MORF | HN | 217 | 76 | IAML | | 1958 | 40.32 | | | 6 | 0.2 | | | | |
| GRNL | CZ | 257 | 57 | EP | | 1958 | 20.32 | -.170 | | | | | | | 1.0 |
| MESJ | HN | 271 | 66 | ES | | 1958 | 49.490 | .110 | | | | | | | 1.0 |
| MESJ | HN | 271 | 66 | IAML | | 1958 | 51.48 | | | 2 | 0.2 | | | | |

April 18 2023 Hour: 2:40 53.9 Lat: 54.16N Lon: 159.92E Depth:111F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs

NEAR EAST COAST OF KAMCHATKA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|--------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ | 9666 | 351 | EP | | 253 | 26.360 | .240 | | | | | | | 1.0 |
| GGNV | BZ | 9666 | 351 | IAMB | | 253 | 28.57 | | | 145 | 1.1 | | | | |
| GRNL | BZ | 9727 | 351 | EP | | 253 | 28.74 | -.040 | | | | | | | 1.0 |
| GRNL | BZ | 9727 | 351 | IAMB | | 253 | 30.54 | | | 74 | 0.2 | | | | |
| GRNL | BN | 9727 | 351 | ESKSac | | 3 3 | 46.10 | -.090 | | | | | | | 1.0 |
| MESJ | BZ | 9753 | 351 | EP | | 253 | 29.950 | .050 | | | | | | | 1.0 |
| MESJ | BZ | 9753 | 351 | IAMB | | 253 | 31.98 | | | 12 | 0.6 | | | | |
| MORF | BZ | 9816 | 351 | EP | | 253 | 32.51 | -.150 | | | | | | | 1.0 |
| MORF | BZ | 9816 | 351 | IAMB | | 253 | 34.60 | | | 146 | 1.4 | | | | |

April 18 2023 Hour: 4:31 43.0 Lat: 22.37S Lon: 179.42E Depth:564F Agency: IGL Distant
Rms: 0.1 secs

SOUTH OF FIJI ISLANDS Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|-------|-----|--------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 18123 | 22 | EPKPdf | | 450 | 40.14 | -.130 | | | | | | | 1.0 |
| GRNL | BZ | 18123 | 22 | EPKPab | | 451 | 33.87 | -.020 | | | | | | | 1.0 |
| MESJ | BZ | 18163 | 21 | EPKPdf | | 450 | 40.58 | -.050 | | | | | | | 1.0 |
| MESJ | BZ | 18163 | 21 | EPKPab | | 451 | 35.570 | .070 | | | | | | | 1.0 |
| MORF | BZ | 18199 | 23 | EPKPdf | | 450 | 41.120 | .130 | | | | | | | 1.0 |

April 19 2023 Hour: 0:53 15.5 Lat: 36.38N Lon: 9.69W Depth: 27F 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 | 138 | 42 | EP | | 053 | 35.640 | .030 | | | | | | | 1.0 |
| MORF | HE | 138 | 42 | ES | | 053 | 50.370 | .050 | | | | | | | 1.0 |
| MORF | HN | 138 | 42 | IAML | | 053 | 51.72 | | | 6 | 0.1 | | | | |
| MESJ | HE | 208 | 38 | ES | | 054 | 5.490 | .190 | | | | | | | 1.0 |

| | | | | | | | | | | | | | | | |
|---------|-----|----|------|-----|-------|---|------|--|------|-----|-----|--|--|--|-----|
| MESJ HN | 208 | 38 | IAML | 054 | 7.14 | | | | 0.70 | 0.2 | | | | | |
| GRNL CZ | 216 | 27 | EP | 053 | 45.02 | - | .230 | | | | | | | | 1.0 |
| GRNL CN | 216 | 27 | ES | 054 | 6.95 | - | .050 | | | | | | | | 1.0 |
| GRNL CN | 216 | 27 | IAML | 054 | 7.30 | | | | | 2 | 0.1 | | | | |

April 19 2023 Hour: 4:55 27.3 Lat: 17.30N Lon: 101.07W Depth: 11F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

GUERRERO, MEXICO Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | BZ | 9064 | 53 | EP | | 5 7 | 44.750 | .020 | | | | | | | 1.0 |
| GRNL | BZ | 9064 | 53 | IAMB | | 5 7 | 47.41 | | | 60 | 1.6 | | | | |
| MORF | BZ | 9080 | 54 | EP | | 5 7 | 45.46 | -.120 | | | | | | | 1.0 |
| MORF | BZ | 9080 | 54 | IAMB | | 5 7 | 49.44 | | | 24 | 1.0 | | | | |
| MESJ | BZ | 9101 | 53 | EP | | 5 7 | 46.620 | .090 | | | | | | | 1.0 |
| MESJ | BZ | 9101 | 53 | IAMB | | 5 7 | 48.62 | | | 110 | 1.6 | | | | |

April 19 2023 Hour: 9:6 3.2 Lat: 6.00S Lon: 149.61E Depth: 56F Agency: IGL Distant
Magnitudes: 6.2Ms IGL 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 |
|------|---------|------|------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ15827 | 332 | EP | KPdf | | 925 | 28.43 | -.090 | | | | | | | 1.0 |
| GGNV | BZ15827 | 332 | IAMS | 20 | | 1032 | 56.47 | | | 8061 | 25.0 | | | | |
| GRNL | BZ15851 | 331 | EP | KPdf | | 925 | 28.940 | .020 | | | | | | | 1.0 |
| GRNL | BZ15851 | 331 | IAMS | 20 | | 1029 | 4.47 | | | 5533 | 30.2 | | | | |
| MESJ | BZ15855 | 331 | EP | KPdf | | 925 | 29.080 | .070 | | | | | | | 1.0 |
| MESJ | BZ15855 | 331 | IAMS | 20 | | 1023 | 14.15 | | | 2840 | 22.3 | | | | |
| MORF | BZ15926 | 331 | EP | KPdf | | 925 | 30.17 | -.000 | | | | | | | 1.0 |
| MORF | BZ15926 | 331 | IAMS | 20 | | 1029 | 54.31 | | | 5744 | 30.8 | | | | |

April 19 2023 Hour: 15:59 25.2 Lat: 36.94N Lon: 8.84W Depth: 30F 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 | 44 | 22 | EP | | 1559 | 33.470 | .080 | | | | | | | 1.0 |
| MORF | HN | 44 | 22 | ES | | 1559 | 39.29 | -.080 | | | | | | | 1.0 |
| MORF | HN | 44 | 22 | IAML | | 1559 | 40.23 | | | 28 | 0.2 | | | | |
| GRNL | CN | 132 | 10 | ES | | 1559 | 58.47 | -.010 | | | | | | | 1.0 |
| GRNL | CN | 132 | 10 | IAML | | 1559 | 58.99 | | | 4 | 0.2 | | | | |

April 19 2023 Hour: 19:33 21.5 Lat: 36.69N Lon: 11.61W Depth: 22F 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 | 272 | 75 | EP | | 1933 | 58.46 | -.190 | | | | | | | 1.0 |
| MORF | HN | 272 | 75 | ES | | 1934 | 25.66 | -.110 | | | | | | | 1.0 |
| MORF | HN | 272 | 75 | IAML | | 1934 | 27.46 | | | 14 | 0.2 | | | | |
| GRNL | CZ | 312 | 59 | EP | | 1934 | 3.740 | .180 | | | | | | | 1.0 |
| GRNL | CN | 312 | 59 | ES | | 1934 | 34.320 | .050 | | | | | | | 1.0 |
| GRNL | CN | 312 | 59 | IAML | | 1934 | 35.87 | | | 5 | 0.2 | | | | |
| MESJ | HZ | 326 | 66 | EP | | 1934 | 5.480 | .080 | | | | | | | 1.0 |

April 20 2023 Hour: 6:14 0.1 Lat: 37.10N Lon: 9.28W Depth: 16F 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 | 60 | 68 | EP | | 6 1 | 49.94 | -.000 | | | | | | | 1.0 |
| MORF | HN | 60 | 68 | ES | | 6 1 | 56.97 | -.160 | | | | | | | 1.0 |
| MORF | HE | 60 | 68 | IAML | | 6 1 | 58.48 | | | 13 | 0.2 | | | | |
| MESJ | HE | 124 | 49 | ES | | 6 2 | 13.740 | .170 | | | | | | | 1.0 |
| MESJ | HE | 124 | 49 | IAML | | 6 2 | 17.32 | | | 1 | 0.1 | | | | |

April 20 2023 Hour: 10:55 32.1 Lat: 2.69N Lon: 84.40W Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.0 secs
OFF COAST OF CENTRAL AMERICA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8576 | 52 | EP | | 11 7 | 25.65 | -.040 | | | | | | | 1.0 |
| MORF | BZ | 8576 | 52 | IAMB | | 11 7 | 34.96 | | | 149 | 1.2 | | | | |
| GRNL | BZ | 8594 | 52 | EP | | 11 7 | 26.56 | 0.040 | | | | | | | 1.0 |
| GRNL | BZ | 8594 | 52 | IAMB | | 11 7 | 34.96 | | | 64 | 1.3 | | | | |

April 20 2023 Hour: 13:14 44.4 Lat: 36.85N Lon: 8.48W Depth: 8F 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 | 53 | 343 | EP | | 1314 | 52.90 | -.150 | | | | | | | 1.0 |
| MORF | HN | 53 | 343 | ES | | 1314 | 59.52 | 0.150 | | | | | | | 1.0 |
| MORF | HN | 53 | 343 | IAML | | 1315 | 2.01 | | | 5 | 0.1 | | | | |

April 20 2023 Hour: 15:33 59.1 Lat: 38.76N Lon: 10.53W Depth: 21F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs
NORTH ATLANTIC OCEAN Net: MAD

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 186 | 112 | EP | | 1534 | 25.64 | 0.010 | | | | | | | 1.0 |
| GRNL | CE | 186 | 112 | ES | | 1534 | 45.01 | -.010 | | | | | | | 1.0 |
| GRNL | CE | 186 | 112 | IAML | | 1534 | 51.50 | | | 28 | 0.2 | | | | |

April 20 2023 Hour: 23:29 59.1 Lat: 36.23N Lon: 8.55W Depth: 16F 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 | 119 | 356 | EP | | 2330 | 17.65 | -.140 | | | | | | | 1.0 |
| MORF | HE | 119 | 356 | ES | | 2330 | 31.64 | 0.170 | | | | | | | 1.0 |
| MORF | HN | 119 | 356 | IAML | | 2330 | 32.91 | | | 7 | 0.2 | | | | |
| MESJ | HZ | 181 | 9 | EP | | 2330 | 25.43 | 0.030 | | | | | | | 1.0 |
| GRNL | CZ | 208 | 360 | EP | | 2330 | 28.68 | -.120 | | | | | | | 1.0 |
| GRNL | CE | 208 | 360 | ES | | 2330 | 50.56 | 0.050 | | | | | | | 1.0 |
| GRNL | CN | 208 | 360 | IAML | | 2330 | 51.64 | | | 4 | 0.2 | | | | |

April 21 2023 Hour: 0:13 28.5 Lat: 37.07N Lon: 7.99W Depth: 28F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs
NW FARO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 64 | 294 | EP | | 013 | 39.21 | -.040 | | | | | | | 1.0 |
| MESJ | HZ | 88 | 347 | EP | | 013 | 42.46 | 0.110 | | | | | | | 1.0 |
| MESJ | HN | 88 | 347 | ES | | 013 | 52.40 | -.070 | | | | | | | 1.0 |
| MESJ | HN | 88 | 347 | IAML | | 013 | 53.52 | | | 13 | 0.2 | | | | |
| GRNL | CZ | 126 | 336 | EP | | 013 | 47.10 | 0.000 | | | | | | | 1.0 |

April 21 2023 Hour: 2:24 14.1 Lat: 38.77N Lon: 9.50W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs
SW SINTRA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 109 | 132 | EP | | 224 | 31.59 | 0.130 | | | | | | | 1.0 |
| GRNL | CN | 109 | 132 | ES | | 224 | 43.96 | -.130 | | | | | | | 1.0 |
| GRNL | CN | 109 | 132 | IAML | | 224 | 46.32 | | | 2 | 0.1 | | | | |

April 21 2023 Hour: 3:7 44.0 Lat: 36.75N Lon: 8.30W Depth: 25F Agency: IGL Regional
Magnitudes: 0.6ML 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 |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 69 | 333 | EP | | 3 7 | 55.39 | -.000 | | | | | | | 1.0 |
| MESJ | HN | 121 | 3 | ES | | 3 8 | 15.51 | 0.000 | | | | | | | 1.0 |
| MESJ | HN | 121 | 3 | IAML | | 3 8 | 16.44 | | | 1 | 0.1 | | | | |

April 21 2023 Hour: 4:43 38.2 Lat: 37.20N Lon: 8.54W Depth: 17F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs
N PORTIMAO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 15 | 319 | EP | | 443 | 41.72 | -.150 | | | | | | | 1.0 |
| MORF | HN | 15 | 319 | ES | | 443 | 44.690 | .150 | | | | | | | 1.0 |
| MORF | HN | 15 | 319 | IAML | | 443 | 45.06 | | | 5 | 0.1 | | | | |

April 21 2023 Hour: 10:21 13.6 Lat: 2.79N Lon: 127.05E Depth: 25F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs
MOLUCCA SEA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ13599 | 319 | EPP | | | 1041 | 41.120 | .010 | | | | | | | 1.0 |
| MESJ | BE13599 | 319 | ESS | | | 1058 | 20.01 | -.150 | | | | | | | 1.0 |
| MESJ | BN13599 | 319 | IAMs_20 | | | 1125 | 46.89 | | | 1928 | 28.7 | | | | |
| GRNL | BZ13608 | 319 | EPP | | | 1041 | 41.810 | .180 | | | | | | | 1.0 |
| GRNL | BE13608 | 319 | ESS | | | 1058 | 21.00 | -.140 | | | | | | | 1.0 |
| GRNL | BE13608 | 319 | IAMs_20 | | | 1126 | 1.35 | | | 2287 | 24.8 | | | | |
| MORF | BZ13664 | 319 | EPP | | | 1041 | 45.220 | .100 | | | | | | | 1.0 |
| MORF | BE13664 | 319 | IAMs_20 | | | 1135 | 19.49 | | | 2780 | 28.4 | | | | |

April 21 2023 Hour: 19:15 13.5 Lat: 37.34N Lon: 8.54W Depth: 9F Agency: IGL Regional
Magnitudes: 0.7ML 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 | 11 | 248 | EP | | 1915 | 15.70 | -.120 | | | | | | | 1.0 |
| MORF | HN | 11 | 248 | ES | | 1915 | 17.630 | .120 | | | | | | | 1.0 |
| MORF | HN | 11 | 248 | IAML | | 1915 | 17.82 | | | 31 | 0.2 | | | | |

April 21 2023 Hour: 22:19 49.6 Lat: 35.01N Lon: 15.22E Depth: 13F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.1 secs
CENTRAL MEDITERRANEAN SEA Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|---------|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ 2120 | 285 | EP | | | 2224 | 11.64 | -.020 | | | | | | | 1.0 |
| MESJ | BN 2120 | 285 | ES | | | 2227 | 46.880 | .110 | | | | | | | 1.0 |
| MESJ | BZ 2120 | 285 | IAMs_20 | | | 2234 | 38.01 | | | 5521 | 10.7 | | | | |
| GRNL | BZ 2151 | 286 | EP | | | 2224 | 14.56 | -.200 | | | | | | | 1.0 |
| GRNL | BN 2151 | 286 | ES | | | 2227 | 53.750 | .160 | | | | | | | 1.0 |
| GRNL | BZ 2151 | 286 | IAMs_20 | | | 2234 | 25.12 | | | 7800 | 10.6 | | | | |
| MORF | BZ 2158 | 284 | EP | | | 2224 | 15.31 | -.120 | | | | | | | 1.0 |
| MORF | BN 2158 | 284 | ES | | | 2227 | 55.090 | .070 | | | | | | | 1.0 |
| MORF | BZ 2158 | 284 | IAMs_20 | | | 2234 | 37.80 | | | 4037 | 19.7 | | | | |

April 22 2023 Hour: 8:23 42.6 Lat: 5.27S Lon: 125.59E Depth: 7F Agency: IGL Distant
Magnitudes: 6.2Ms 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 | BZ14135 | 314 | EPP | | | 844 | 45.02 | -.200 | | | | | | | 1.0 |
| MESJ | BZ14135 | 314 | IAMs_20 | | | 943 | 32.71 | | | 3065 | 21.3 | | | | |
| GRNL | BZ14150 | 315 | EPKPdf | | | 842 | 47.320 | .020 | | | | | | | 1.0 |
| GRNL | BZ14150 | 315 | EPP | | | 844 | 46.150 | .080 | | | | | | | 1.0 |
| GRNL | BN14150 | 315 | IAMs_20 | | | 929 | 40.60 | | | 6355 | 29.4 | | | | |
| GGNV | BZ14164 | 316 | EPP | | | 844 | 47.090 | .170 | | | | | | | 1.0 |
| GGNV | BN14164 | 316 | IAMs_20 | | | 929 | 59.47 | | | 8660 | 29.0 | | | | |
| MORF | BZ14196 | 314 | EPP | | | 844 | 48.79 | -.070 | | | | | | | 1.0 |
| MORF | BE14196 | 314 | IAMs_20 | | | 942 | 30.11 | | | 4385 | 15.3 | | | | |

April 22 2023 Hour: 21:17 44.9 Lat: 0.96S Lon: 98.48E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

KEPULAUAN BATU, INDONESIA Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ11549 | 309 | | EPP | | 2136 | 3.31 | -.050 | | | | | | | 1.0 |
| MESJ | BZ11549 | 309 | | IAMs_20 | | 2231 | 52.37 | | | 1655 | 20.1 | | | | |
| GRNL | BZ11574 | 309 | | EP | | 2131 | 47.59 | -.060 | | | | | | | 1.0 |
| GRNL | BZ11574 | 309 | | EPP | | 2136 | 5.190 | .150 | | | | | | | 1.0 |
| GRNL | BN11574 | 309 | | IAMs_20 | | 2224 | 15.27 | | | 1913 | 20.7 | | | | |
| MORF | BZ11597 | 308 | | EPP | | 2136 | 6.57 | -.040 | | | | | | | 1.0 |
| MORF | BE11597 | 308 | | IAMs_20 | | 2225 | 38.73 | | | 2064 | 26.5 | | | | |

April 23 2023 Hour: 11:15 53.0 Lat: 36.23N Lon: 8.51W Depth: 4F 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 | 120 | 354 | EP | | 11 | 2 | 12.330 | .030 | | | | | | 1.0 |
| MORF | HN | 120 | 354 | ES | | 11 | 2 | 26.480 | .120 | | | | | | 1.0 |
| MORF | HE | 120 | 354 | IAML | | 11 | 2 | 28.64 | | | 6 | 0.1 | | | |
| MESJ | HZ | 180 | 8 | EP | | 11 | 2 | 20.32 | -.160 | | | | | | 1.0 |

April 24 2023 Hour: 0:41 55.9 Lat: 29.97S Lon: 177.83W Depth: 43F Agency: IGL Distant
Magnitudes: 7.6Ms IGL Rms: 0.1 secs

KERMADEC ISLANDS, NEW ZEALAND Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|--------|--------|-------|--------|------|-----|------|------|-----|
| GGNV | BZ18599 | 44 | | EPKpdf | | 1 | 1 | 56.46 | -.030 | | | | | | 1.0 |
| GGNV | BZ18599 | 44 | | EPP | | 1 | 6 | 49.84 | -.140 | | | | | | 1.0 |
| GGNV | BE18599 | 44 | | ESS | | 127 | 33.380 | .080 | | | | | | | 1.0 |
| GGNV | BZ18599 | 44 | | IAMs_20 | | 214 | 2.27 | | | 101000 | 23.0 | | | | |
| GRNL | BZ18681 | 45 | | EPKpdf | | 1 | 1 | 56.97 | -.080 | | | | | | 1.0 |
| GRNL | BZ18681 | 45 | | EPP | | 1 | 6 | 53.780 | .020 | | | | | | 1.0 |
| GRNL | BE18681 | 45 | | ESS | | 127 | 40.910 | .180 | | | | | | | 0.9 |
| GRNL | BZ18681 | 45 | | IAMs_20 | | 214 | 32.19 | | | 85387 | 19.5 | | | | |
| MESJ | BZ18724 | 45 | | EPKpdf | | 1 | 1 | 57.24 | -.080 | | | | | | 1.0 |
| MESJ | BZ18724 | 45 | | EPP | | 1 | 6 | 55.800 | .080 | | | | | | 1.0 |
| MESJ | BE18724 | 45 | | ESS | | 127 | 44.640 | .060 | | | | | | | 1.0 |
| MESJ | BZ18724 | 45 | | IAMs_20 | | 221 | 30.35 | | | 62710 | 18.1 | | | | |
| MORF | BZ18730 | 48 | | EPKpdf | | 1 | 1 | 57.38 | -.040 | | | | | | 1.0 |
| MORF | BZ18730 | 48 | | EPP | | 1 | 6 | 56.130 | .090 | | | | | | 1.0 |
| MORF | BE18730 | 48 | | ESS | | 127 | 45.07 | -.130 | | | | | | | 1.0 |
| MORF | BZ18730 | 48 | | IAMs_20 | | 213 | 45.31 | | | 64811 | 20.5 | | | | |

April 24 2023 Hour: 5:28 24.0 Lat: 36.55N Lon: 9.81W Depth: 31F 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 | 132 | 51 | EP | | 528 | 42.590 | .100 | | | | | | | 1.0 |
| MORF | HE | 132 | 51 | ES | | 528 | 55.93 | -.070 | | | | | | | 1.0 |
| MORF | HN | 132 | 51 | IAML | | 528 | 58.44 | | | | 6 | 0.2 | | | |
| MESJ | HZ | 201 | 44 | EP | | 528 | 50.90 | -.030 | | | | | | | 1.0 |

April 24 2023 Hour: 8:55 59.8 Lat: 37.36N Lon: 8.56W Depth: 14F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

N MONCHIQUE, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 10 | 237 | EP | | 856 | 2.47 | -.150 | | | | | | | 1.0 |
| MORF | HE | 10 | 237 | ES | | 856 | 4.820 | .110 | | | | | | | 1.0 |
| MORF | HN | 10 | 237 | IAML | | 856 | 5.42 | | | | 66 | 0.1 | | | |
| MESJ | HZ | 61 | 29 | EP | | 856 | 9.810 | .080 | | | | | | | 1.0 |
| MESJ | HE | 61 | 29 | ES | | 856 | 16.89 | -.120 | | | | | | | 1.0 |
| MESJ | HN | 61 | 29 | IAML | | 856 | 17.74 | | | | 6 | 0.1 | | | |
| GRNL | CZ | 84 | 359 | EP | | 856 | 13.340 | .250 | | | | | | | 1.0 |
| GRNL | CN | 84 | 359 | ES | | 856 | 22.67 | -.160 | | | | | | | 1.0 |

GRNL CN 84 359 IAML 856 25.29 11 0.1

April 24 2023 Hour: 17:25 42.8 Lat: 37.33N Lon: 8.57W Depth: 8F Agency: IGL Regional
Magnitudes: 2.0ML 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 | 8 | 246 | EP | | 1725 | 44.52 | -.230 | | | | | | | 1.0 |
| MORF | HE | 8 | 246 | ES | | 1725 | 46.32 | 0.160 | | | | | | | 1.0 |
| MORF | HN | 8 | 246 | IAML | | 1725 | 46.67 | | 1687 | 0.2 | | | | | |
| MESJ | HZ | 64 | 29 | EP | | 1725 | 53.24 | 0.050 | | | | | | | 1.0 |
| MESJ | HE | 64 | 29 | ES | | 1726 | 0.82 | 0.060 | | | | | | | 1.0 |
| MESJ | HN | 64 | 29 | IAML | | 1726 | 4.63 | | 31 | 0.1 | | | | | |
| GRNL | CZ | 86 | 360 | EP | | 1725 | 56.81 | 0.100 | | | | | | | 1.0 |
| GRNL | CN | 86 | 360 | ES | | 1726 | 6.71 | -.150 | | | | | | | 1.0 |
| GRNL | CN | 86 | 360 | IAML | | 1726 | 10.04 | | 49 | 0.2 | | | | | |

April 24 2023 Hour: 19: 0 29.9 Lat: 36.62N Lon: 11.20W Depth: 30F 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 | 239 | 71 | EP | | 19 1 | 2.51 | 0.070 | | | | | | | 1.0 |
| MORF | HN | 239 | 71 | ES | | 19 1 | 26.01 | -.180 | | | | | | | 1.0 |
| MORF | HE | 239 | 71 | IAML | | 19 1 | 28.44 | | 15 | 0.2 | | | | | |
| GRNL | CZ | 286 | 54 | EP | | 19 1 | 8.27 | 0.090 | | | | | | | 1.0 |
| GRNL | CE | 286 | 54 | ES | | 19 1 | 36.26 | 0.130 | | | | | | | 1.0 |
| GRNL | CN | 286 | 54 | IAML | | 19 1 | 37.75 | | 9 | 0.1 | | | | | |
| MESJ | HZ | 297 | 62 | EP | | 19 1 | 9.57 | -.030 | | | | | | | 1.0 |
| MESJ | HE | 297 | 62 | ES | | 19 1 | 38.50 | -.080 | | | | | | | 1.0 |
| MESJ | HE | 297 | 62 | IAML | | 19 1 | 40.74 | | 3 | 0.1 | | | | | |

April 24 2023 Hour: 20: 1 0.7 Lat: 0.75S Lon: 98.62E Depth: 36F Agency: IGL Distant
Magnitudes: 6.9Ms IGL Rms: 0.1 secs

KEPULAUAN BATU, INDONESIA Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|---------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| MESJ | BZ11547 | 309 | | EPdif | | 2014 | 58.33 | 0.010 | | | | | | | 1.0 |
| MESJ | BZ11547 | 309 | | EPP | | 2019 | 15.38 | 0.180 | | | | | | | 1.0 |
| MESJ | BN11547 | 309 | | ESS | | 2034 | 0.34 | 0.020 | | | | | | | 1.0 |
| MESJ | BZ11547 | 309 | | IAMs_20 | | 2120 | 10.08 | | 26263 | 15.0 | | | | | |
| GRNL | BZ11572 | 309 | | EPdif | | 2014 | 59.17 | -.130 | | | | | | | 1.0 |
| GRNL | BZ11572 | 309 | | EPP | | 2019 | 17.07 | 0.200 | | | | | | | 1.0 |
| GRNL | BZ11572 | 309 | | IAMs_20 | | 2121 | 7.02 | | 23109 | 18.5 | | | | | |
| MORF | BZ11595 | 308 | | EPdif | | 2015 | 0.35 | 0.070 | | | | | | | 1.0 |
| MORF | BZ11595 | 308 | | EPP | | 2019 | 18.35 | -.120 | | | | | | | 1.0 |
| MORF | BE11595 | 308 | | IAMs_20 | | 2114 | 45.96 | | 40777 | 14.3 | | | | | |
| GGNV | BZ11610 | 310 | | EPdif | | 2015 | 0.74 | -.050 | | | | | | | 1.0 |
| GGNV | BZ11610 | 310 | | EPP | | 2019 | 19.20 | -.170 | | | | | | | 1.0 |
| GGNV | BE11610 | 310 | | IAMs_20 | | 2113 | 41.03 | | 34226 | 22.2 | | | | | |

April 24 2023 Hour: 23:18 50.2 Lat: 35.98N Lon: 10.28W Depth: 32F Agency: IGL Regional
Magnitudes: 2.2ML 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 | 207 | 44 | EP | | 2319 | 18.74 | 0.070 | | | | | | | 1.0 |
| MORF | HN | 207 | 44 | ES | | 2319 | 39.35 | -.090 | | | | | | | 1.0 |
| MORF | HE | 207 | 44 | IAML | | 2319 | 42.50 | | 36 | 0.2 | | | | | |
| MESJ | HE | 276 | 41 | ES | | 2319 | 54.28 | -.010 | | | | | | | 1.0 |
| MESJ | HN | 276 | 41 | IAML | | 2319 | 55.96 | | 5 | 0.2 | | | | | |
| GRNL | CZ | 281 | 32 | EP | | 2319 | 27.73 | -.110 | | | | | | | 1.0 |
| GRNL | CE | 281 | 32 | ES | | 2319 | 55.43 | 0.140 | | | | | | | 1.0 |
| GRNL | CN | 281 | 32 | IAML | | 2319 | 57.10 | | 13 | 0.0 | | | | | |

April 25 2023 Hour: 3:42 56.6 Lat: 37.32N Lon: 8.63W Depth: 12F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.2 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 | 241 | EP | | 342 | 58.32 | -.350 | | | | | | | 1.0 |
| MORF | HE | 3 | 241 | ES | | 343 | 0.230 | .050 | | | | | | | 1.0 |
| MORF | HE | 3 | 241 | IAML | | 343 | 0.76 | | | 33 | 0.1 | | | | |
| MESJ | HZ | 68 | 32 | EP | | 343 | 7.780 | .160 | | | | | | | 1.0 |
| MESJ | HN | 68 | 32 | ES | | 343 | 15.62 | -.040 | | | | | | | 1.0 |
| MESJ | HN | 68 | 32 | IAML | | 343 | 16.39 | | | 2 | 0.2 | | | | |
| GRNL | CZ | 88 | 3 | EP | | 343 | 10.850 | .240 | | | | | | | 1.0 |
| GRNL | CN | 88 | 3 | ES | | 343 | 20.81 | -.040 | | | | | | | 1.0 |
| GRNL | CN | 88 | 3 | IAML | | 343 | 21.94 | | | 3 | 0.1 | | | | |

April 25 2023 Hour: 5:35 59.9 Lat: 2.82S Lon: 79.84W Depth: 61F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

NEAR COAST OF ECUADOR Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | BZ | 8556 | 51 | EP | | 547 | 45.880 | .170 | | | | | | | 1.0 |
| MORF | BZ | 8556 | 51 | IAMB | | 547 | 47.01 | | | 24 | 0.9 | | | | |
| GRNL | BZ | 8585 | 50 | EP | | 547 | 47.08 | -.020 | | | | | | | 1.0 |
| GRNL | BZ | 8585 | 50 | IAMB | | 547 | 48.35 | | | 18 | 0.7 | | | | |
| MESJ | BZ | 8607 | 50 | EP | | 547 | 48.10 | -.150 | | | | | | | 1.0 |
| MESJ | BZ | 8607 | 50 | IAMB | | 547 | 48.63 | | | 7 | 0.7 | | | | |

April 25 2023 Hour: 20:53 46.4 Lat: 35.44N Lon: 3.63W Depth: 18F 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 | 489 | 304 | EP | | 2054 | 50.650 | .030 | | | | | | | 1.0 |
| MORF | HZ | 496 | 296 | EP | | 2054 | 51.33 | -.130 | | | | | | | 1.0 |
| GRNL | CZ | 531 | 305 | EP | | 2054 | 55.780 | .100 | | | | | | | 1.0 |

April 26 2023 Hour: 0:46 50.6 Lat: 36.74N Lon: 7.12W Depth: 20F Agency: IGL Regional
Magnitudes: 0.8ML 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 | 156 | 321 | EP | | 047 | 13.50 | -.050 | | | | | | | 1.0 |
| MESJ | HN | 156 | 321 | ES | | 047 | 30.25 | -.030 | | | | | | | 1.0 |
| MESJ | HN | 156 | 321 | IAML | | 047 | 31.97 | | | 1 | 0.1 | | | | |
| GRNL | CZ | 199 | 320 | EP | | 047 | 18.920 | .090 | | | | | | | 1.0 |

April 26 2023 Hour: 8:1 35.9 Lat: 37.23N Lon: 16.36W Depth: 26F 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 | 684 | 87 | EP | | 8 3 | 0.40 | -.280 | | | | | | | 1.0 |
| GRNL | CN | 694 | 80 | ES | | 8 4 | 4.950 | .280 | | | | | | | 1.0 |
| GRNL | CN | 694 | 80 | IAML | | 8 4 | 6.23 | | | 2 | 0.3 | | | | |

April 26 2023 Hour: 8:59 5.0 Lat: 38.16N Lon: 8.35W Depth: 3F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

E GRANDOLA, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GRNL | CZ | 20 | 254 | EP | | 859 | 8.13 | -.080 | | | | | | | 1.0 |
| GRNL | CN | 20 | 254 | ES | | 859 | 10.670 | .080 | | | | | | | 1.0 |
| GRNL | CE | 20 | 254 | IAML | | 859 | 11.16 | | | 10 | 0.1 | | | | |

April 26 2023 Hour: 12:30 37.8 Lat: 37.45N Lon: 7.95W Depth: 1F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs
SE ALMODOVAR, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 49 | 331 | EP | | 1230 | 45.950 | .190 | | | | | | | 1.0 |
| MESJ | HN | 49 | 331 | ES | | 1230 | 51.630 | .080 | | | | | | | 1.0 |
| MESJ | HN | 49 | 331 | IAML | | 1230 | 53.85 | | | 10 | 0.0 | | | | |
| MORF | HZ | 65 | 255 | EP | | 1230 | 48.16 | -.080 | | | | | | | 1.0 |
| MORF | HE | 65 | 255 | ES | | 1230 | 55.76 | -.080 | | | | | | | 1.0 |
| MORF | HN | 65 | 255 | IAML | | 1230 | 58.41 | | | 16 | 0.2 | | | | |
| GRNL | CZ | 91 | 323 | EP | | 1230 | 52.31 | -.200 | | | | | | | 1.0 |
| GRNL | CN | 91 | 323 | ES | | 1231 | 3.300 | .080 | | | | | | | 1.0 |
| GRNL | CN | 91 | 323 | IAML | | 1231 | 5.14 | | | 8 | 0.2 | | | | |

April 26 2023 Hour: 20: 0 35.2 Lat: 36.34N Lon: 26.39E Depth:122FAgency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs
DODECANESE ISLANDS, GREECE Net: CSEM

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 3064 | 284 | EP | | 20 6 | 10.730 | .070 | | | | | | | 1.0 |
| MESJ | BZ | 3064 | 284 | IAMB | | 20 6 | 11.90 | | | 49 | 1.0 | | | | |
| GRNL | BZ | 3091 | 284 | EP | | 20 6 | 12.880 | .110 | | | | | | | 1.0 |
| GRNL | BZ | 3091 | 284 | IAMB | | 20 6 | 16.51 | | | 30 | 1.1 | | | | |
| GRNL | BE | 3091 | 284 | ES | | 2010 | 47.33 | -.190 | | | | | | | 1.0 |

April 27 2023 Hour: 3: 1 58.0 Lat: 36.92N Lon: 8.47W Depth: 6F 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 | 339 | EP | | 3 2 | 5.460 | .010 | | | | | | | 1.0 |
| MORF | HN | 46 | 339 | ES | | 3 2 | 10.980 | .110 | | | | | | | 1.0 |
| MORF | HN | 46 | 339 | IAML | | 3 2 | 12.27 | | | 5 | 0.1 | | | | |
| MESJ | HN | 104 | 12 | ES | | 3 2 | 26.88 | -.190 | | | | | | | 1.0 |
| MESJ | HN | 104 | 12 | IAML | | 3 2 | 27.72 | | | 1.00 | 0.1 | | | | |
| GRNL | CN | 132 | 356 | ES | | 3 2 | 34.420 | .060 | | | | | | | 1.0 |
| GRNL | CE | 132 | 356 | IAML | | 3 2 | 34.96 | | | 2 | 0.3 | | | | |

April 27 2023 Hour: 3:39 43.3 Lat: 36.66N Lon: 11.10W Depth: 23F 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 | 230 | 71 | EP | | 340 | 15.31 | -.080 | | | | | | | 1.0 |
| MORF | HE | 230 | 71 | ES | | 340 | 38.82 | -.010 | | | | | | | 1.0 |
| MORF | HE | 230 | 71 | IAML | | 340 | 39.55 | | | 2 | 0.2 | | | | |
| GRNL | CN | 276 | 54 | ES | | 340 | 48.830 | .090 | | | | | | | 1.0 |
| GRNL | CN | 276 | 54 | IAML | | 340 | 50.80 | | | 2 | 0.1 | | | | |

April 27 2023 Hour: 7: 5 59.5 Lat: 36.63N Lon: 9.71W Depth: 32F 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 | 121 | 51 | EP | | 7 6 | 17.340 | .070 | | | | | | | 1.0 |
| MORF | HE | 121 | 51 | ES | | 7 6 | 30.21 | -.030 | | | | | | | 1.0 |
| MORF | HE | 121 | 51 | IAML | | 7 6 | 31.98 | | | 28 | 0.2 | | | | |
| MESJ | HZ | 189 | 44 | EP | | 7 6 | 25.710 | .010 | | | | | | | 1.0 |
| MESJ | HE | 189 | 44 | ES | | 7 6 | 44.900 | .080 | | | | | | | 1.0 |
| MESJ | HN | 189 | 44 | IAML | | 7 6 | 46.28 | | | 6 | 0.1 | | | | |
| GRNL | CZ | 193 | 31 | EP | | 7 6 | 26.06 | -.160 | | | | | | | 1.0 |
| GRNL | CE | 193 | 31 | ES | | 7 6 | 45.740 | .020 | | | | | | | 1.0 |
| GRNL | CN | 193 | 31 | IAML | | 7 6 | 48.40 | | | 17 | 0.1 | | | | |

April 27 2023 Hour: 7:43 37.7 Lat: 26.08N Lon: 128.55E Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Ms IGL 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 | BZ11631 | 326 | | EPP | | 8 | 2 | 2.11 | - | | | | | | 1.0 |
| GRNL | BN11631 | 326 | | IAMs_20 | | 852 | | 2.68 | | 1079 | 15.0 | | | | |
| MESJ | BZ11634 | 326 | | EPP | | 8 | 2 | 2.37 | 0.000 | | | | | | 1.0 |
| MESJ | BZ11634 | 326 | | IAMs_20 | | 851 | 31.01 | | | 1260 | 16.5 | | | | |

April 27 2023 Hour: 11: 5 16.5 Lat: 37.32N Lon: 8.52W Depth: 15F Agency: IGL Regional
Magnitudes: 1.3ML 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 | 12 | 260 | EP | | 11 | 5 | 19.68 | 0.000 | | | | | | 1.0 |
| MORF | HN | 12 | 260 | ES | | 11 | 5 | 21.97 | - | | | | | | 1.0 |
| MORF | HN | 12 | 260 | IAML | | 11 | 5 | 22.74 | | | 77 | 0.1 | | | |

April 27 2023 Hour: 15:16 51.9 Lat: 37.39N Lon: 8.40W Depth: 12F Agency: IGL Regional
Magnitudes: 2.6ML 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 |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 25 | 247 | EP | | 1516 | | 56.15 | - | | | | | | 1.0 |
| MORF | HE | 25 | 247 | ES | | 1516 | | 59.53 | - | | | | | | 1.0 |
| MORF | HE | 25 | 247 | IAML | | 1517 | | 0.19 | | 2232 | 0.2 | | | | |
| MESJ | HZ | 52 | 17 | EP | | 1517 | | 0.61 | 0.140 | | | | | | 1.0 |
| MESJ | HN | 52 | 17 | ES | | 1517 | | 6.76 | 0.050 | | | | | | 1.0 |
| MESJ | HE | 52 | 17 | IAML | | 1517 | | 7.42 | | 89 | 0.2 | | | | |
| GRNL | CZ | 81 | 349 | EP | | 1517 | | 5.01 | 0.170 | | | | | | 1.0 |
| GRNL | CN | 81 | 349 | ES | | 1517 | | 14.27 | 0.000 | | | | | | 1.0 |
| GRNL | CN | 81 | 349 | IAML | | 1517 | | 16.03 | | 320 | 0.2 | | | | |

April 27 2023 Hour: 15:27 31.5 Lat: 38.96N Lon: 9.14W Depth: 4F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs
SW ARRUDA DOS VINHOS, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| GRNL | CZ | 107 | 152 | EP | | 1527 | | 48.80 | 0.040 | | | | | | 1.0 |
| GRNL | CN | 107 | 152 | ES | | 1528 | | 1.24 | - | | | | | | 1.0 |
| GRNL | CN | 107 | 152 | IAML | | 1528 | | 3.26 | | 9 | 0.1 | | | | |
| MESJ | HN | 148 | 147 | ES | | 1528 | | 12.15 | 0.080 | | | | | | 1.0 |
| MESJ | HN | 148 | 147 | IAML | | 1528 | | 13.38 | | 2 | 0.1 | | | | |

April 27 2023 Hour: 19:15 42.2 Lat: 42.31N Lon: 7.47W Depth: 13F Agency: IGL Regional
Magnitudes: 2.1ML 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 | 476 | 192 | EP | | 1916 | | 45.25 | - | | | | | | 1.0 |
| GRNL | CN | 476 | 192 | ES | | 1917 | | 31.25 | - | | | | | | 1.0 |
| GRNL | CN | 476 | 192 | IAML | | 1917 | | 33.67 | | 6 | 0.2 | | | | |
| MESJ | HZ | 500 | 188 | EP | | 1916 | | 48.32 | 0.050 | | | | | | 1.0 |
| MESJ | HN | 500 | 188 | ES | | 1917 | | 36.56 | 0.070 | | | | | | 1.0 |
| MESJ | HE | 500 | 188 | IAML | | 1917 | | 38.15 | | 2 | 0.2 | | | | |
| MORF | HZ | 565 | 191 | EP | | 1916 | | 56.06 | - | | | | | | 1.0 |

April 27 2023 Hour: 19:45 53.7 Lat: 29.60N Lon: 81.57E Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs
NEPAL Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ | 8051 | 304 | EP | | 1957 | | 20.11 | - | | | | | | 1.0 |
| MESJ | BZ | 8051 | 304 | IAMB | | 1957 | | 21.68 | | 13 | 0.8 | | | | |

April 27 2023 Hour: 20: 3 33.6 Lat: 36.58N Lon: 11.14W Depth: 21F 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 |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| MORF | HZ | 236 | 69 | EP | | 20 | 4 | 6.490 | .090 | | | | | | 1.0 |
| MORF | HN | 236 | 69 | ES | | 20 | 4 | 30.19 | -.140 | | | | | | 1.0 |
| MORF | HE | 236 | 69 | IAML | | 20 | 4 | 32.26 | | 4 | 0.2 | | | | |
| GRNL | CZ | 284 | 53 | EP | | 20 | 4 | 12.450 | .110 | | | | | | 1.0 |
| GRNL | CN | 284 | 53 | ES | | 20 | 4 | 40.61 | -.010 | | | | | | 1.0 |
| GRNL | CN | 284 | 53 | IAML | | 20 | 4 | 41.54 | | 2 | 0.1 | | | | |
| MESJ | HE | 295 | 61 | ES | | 20 | 4 | 42.84 | -.050 | | | | | | 1.0 |
| MESJ | HN | 295 | 61 | IAML | | 20 | 4 | 44.49 | | 1 | 0.2 | | | | |

April 28 2023 Hour: 1: 2 54.3 Lat: 38.41N Lon: 8.82W Depth: 1 Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

SE SETUBAL, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| GRNL | CZ | 40 | 147 | EP | | 1 | 3 | 0.900 | .200 | | | | | | 1.0 |
| MESJ | HZ | 82 | 140 | EP | | 1 | 3 | 7.36 | -.150 | | | | | | 1.0 |
| MORF | HN | 123 | 173 | ES | | 1 | 3 | 28.67 | -.060 | | | | | | 1.0 |
| MORF | HN | 123 | 173 | IAML | | 1 | 3 | 32.17 | | 15 | 0.2 | | | | |

April 28 2023 Hour: 1: 7 48.3 Lat: 59.96S Lon: 27.94W Depth:101F Agency: IGL Distant
Rms: 0.1 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | BZ10970 | | 16 | EPdif | | 121 | 16.35 | -.080 | | | | | | | 1.0 |
| GRNL | BZ10994 | | 15 | EPdif | | 121 | 17.420 | .040 | | | | | | | 1.0 |
| GRNL | BZ10994 | | 15 | EPP | | 125 | 20.590 | .040 | | | | | | | 1.0 |

April 28 2023 Hour: 3:13 46.5 Lat: 25.17S Lon: 178.39E Depth:603F Agency: IGL Distant
Rms: 0.3 secs

SOUTH OF FIJI ISLANDS Net: GFZ

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|---------|------|-----|--------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| GGNV | BZ18364 | | 23 | EPKPdf | | 332 | 42.020 | .130 | | | | | | | 1.0 |
| GGNV | BZ18364 | | 23 | EPKPab | | 333 | 43.24 | -.220 | | | | | | | 1.0 |
| GRNL | BZ18447 | | 23 | EPKPdf | | 332 | 42.630 | .110 | | | | | | | 1.0 |
| GRNL | BZ18447 | | 23 | EPKPab | | 333 | 46.34 | -.450 | | | | | | | 0.8 |
| GRNL | BN18447 | | 23 | ESS | | 357 | 26.620 | .120 | | | | | | | 1.0 |
| MESJ | BZ18487 | | 22 | EPKPdf | | 332 | 42.930 | .100 | | | | | | | 1.0 |
| MESJ | BN18487 | | 22 | ESS | | 357 | 30.420 | .280 | | | | | | | 0.9 |
| MORF | BZ18523 | | 25 | EPKPdf | | 332 | 43.270 | .140 | | | | | | | 1.0 |
| MORF | BZ18523 | | 25 | EPKPab | | 333 | 49.30 | -.600 | | | | | | | 0.7 |

April 28 2023 Hour: 8: 7 44.4 Lat: 39.10N Lon: 11.09W Depth: 18F Agency: IGL Regional
Magnitudes: 1.8ML 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 |
|------|----|------|-----|-------|---|------|-------|--------|-------|------|------|-----|------|------|-----|
| GRNL | CZ | 245 | 116 | EP | | 8 | 8 | 15.15 | -.120 | | | | | | 1.0 |
| GRNL | CN | 245 | 116 | ES | | 8 | 8 | 37.870 | .080 | | | | | | 1.0 |
| GRNL | CN | 245 | 116 | IAML | | 8 | 8 | 39.43 | | 6 | 0.2 | | | | |
| MESJ | HN | 286 | 118 | ES | | 8 | 8 | 46.630 | .070 | | | | | | 1.0 |
| MESJ | HN | 286 | 118 | IAML | | 8 | 8 | 48.75 | | 2 | 0.2 | | | | |
| MORF | HZ | 292 | 132 | EP | | 8 | 8 | 21.020 | .000 | | | | | | 1.0 |
| MORF | HE | 292 | 132 | ES | | 8 | 8 | 47.72 | -.020 | | | | | | 1.0 |
| MORF | HE | 292 | 132 | IAML | | 8 | 8 | 50.54 | | 8 | 0.1 | | | | |

April 28 2023 Hour: 18:24 53.6 Lat: 37.21N Lon: 8.53W Depth: 19F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs

NW SILVES, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 15 | 314 | EP | | 1824 | 57.36 | -.170 | | | | | | | 1.0 |
| MORF | HN | 15 | 314 | ES | | 1825 | 0.530 | .170 | | | | | | | 1.0 |
| MORF | HE | 15 | 314 | IAML | | 1825 | 0.86 | | | 5 | 0.1 | | | | |

April 28 2023 Hour: 23:58 14.6 Lat: 35.30N Lon: 3.62W Depth: 28F 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 | 499 | 306 | EP | | 2359 | 19.260 | .040 | | | | | | | 1.0 |
| GRNL | CZ | 541 | 307 | EP | | 2359 | 24.27 | -.040 | | | | | | | 1.0 |

April 29 2023 Hour: 0:37 30.8 Lat: 36.09N Lon: 8.59W Depth: 31F 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 | HE | 135 | 358 | ES | | 038 | 3.20 | -.070 | | | | | | | 1.0 |
| MORF | HN | 135 | 358 | IAML | | 038 | 4.58 | | | 6 | 0.1 | | | | |
| MESJ | HZ | 197 | 10 | EP | | 037 | 57.21 | -.020 | | | | | | | 1.0 |
| MESJ | HN | 197 | 10 | ES | | 038 | 16.640 | .090 | | | | | | | 1.0 |
| MESJ | HE | 197 | 10 | IAML | | 038 | 18.48 | | | 2 | 0.1 | | | | |

April 29 2023 Hour: 6:16 7.5 Lat: 36.87N Lon: 8.73W Depth: 27F 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 | 49 | 8 | EP | | 616 | 16.170 | .060 | | | | | | | 1.0 |
| MORF | HE | 49 | 8 | ES | | 616 | 22.38 | -.030 | | | | | | | 1.0 |
| MORF | HE | 49 | 8 | IAML | | 616 | 23.39 | | | 15 | 0.1 | | | | |
| MESJ | HZ | 117 | 23 | EP | | 616 | 25.090 | .090 | | | | | | | 1.0 |
| MESJ | HE | 117 | 23 | ES | | 616 | 37.920 | .120 | | | | | | | 1.0 |
| MESJ | HN | 117 | 23 | IAML | | 616 | 38.97 | | | 3 | 0.1 | | | | |
| GRNL | CZ | 138 | 6 | EP | | 616 | 27.40 | -.270 | | | | | | | 1.0 |
| GRNL | CN | 138 | 6 | ES | | 616 | 42.420 | .010 | | | | | | | 1.0 |
| GRNL | CN | 138 | 6 | IAML | | 616 | 44.75 | | | 4 | 0.1 | | | | |

April 29 2023 Hour: 12:25 22.3 Lat: 36.90N Lon: 8.36W Depth: 13F 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 | 52 | 330 | EP | | 1225 | 30.81 | -.150 | | | | | | | 1.0 |
| MORF | HN | 52 | 330 | ES | | 1225 | 37.350 | .100 | | | | | | | 1.0 |
| MORF | HN | 52 | 330 | IAML | | 1225 | 38.40 | | | 12 | 0.1 | | | | |
| MESJ | HZ | 106 | 7 | EP | | 1225 | 39.180 | .160 | | | | | | | 1.0 |
| MESJ | HE | 106 | 7 | ES | | 1225 | 51.16 | -.030 | | | | | | | 1.0 |
| MESJ | HN | 106 | 7 | IAML | | 1225 | 52.46 | | | 10 | 0.1 | | | | |
| GRNL | CN | 136 | 352 | ES | | 1225 | 58.64 | -.070 | | | | | | | 1.0 |
| GRNL | CN | 136 | 352 | IAML | | 1226 | 0.23 | | | 11 | 0.1 | | | | |

April 29 2023 Hour: 20:17 13.4 Lat: 37.21N Lon: 14.20W Depth: 25F 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 |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MORF | HZ | 493 | 87 | EP | | 2018 | 14.66 | -.010 | | | | | | | 1.0 |
| MORF | HN | 493 | 87 | ES | | 2018 | 59.37 | -.050 | | | | | | | 1.0 |
| MORF | HE | 493 | 87 | IAML | | 2019 | 3.39 | | | 7 | 0.2 | | | | |
| GRNL | CZ | 507 | 77 | EP | | 2018 | 16.460 | .050 | | | | | | | 1.0 |
| MESJ | HZ | 534 | 81 | EP | | 2018 | 19.660 | .010 | | | | | | | 1.0 |

April 29 2023 Hour: 22:21 56.6 Lat: 38.26N Lon: 7.26W Depth: 14F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.2 secs

SE MOURAO, PORTUGAL Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|--------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 96 | 241 | EP | | 2222 | 12.110 | .190 | | | | | | | 1.0 |
| MESJ | HN | 96 | 241 | ES | | 2222 | 23.130 | .040 | | | | | | | 1.0 |
| MESJ | HN | 96 | 241 | IAML | | 2222 | 24.89 | | | 91 | 0.0 | | | | |
| GRNL | CZ | 116 | 262 | EP | | 2222 | 14.82 | -.080 | | | | | | | 1.0 |
| GRNL | CE | 116 | 262 | ES | | 2222 | 28.18 | -.050 | | | | | | | 1.0 |
| GRNL | CN | 116 | 262 | IAML | | 2222 | 30.27 | | | 196 | 0.2 | | | | |
| MORF | HZ | 162 | 230 | EP | | 2222 | 20.60 | -.270 | | | | | | | 1.0 |
| MORF | HE | 162 | 230 | ES | | 2222 | 38.730 | .160 | | | | | | | 1.0 |
| MORF | HN | 162 | 230 | IAML | | 2222 | 43.61 | | | 63 | 0.2 | | | | |

April 30 2023 Hour: 10: 7 11.8 Lat: 35.07N Lon: 11.36W Depth: 29F Agency: IGL Regional
Magnitudes: 2.4ML 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 | 348 | 44 | EP | | 10 7 | 57.920 | .020 | | | | | | | 1.0 |
| MORF | HE | 348 | 44 | ES | | 10 8 | 31.53 | -.020 | | | | | | | 1.0 |
| MORF | HN | 348 | 44 | IAML | | 10 8 | 33.98 | | | 26 | 0.2 | | | | |
| MESJ | HZ | 417 | 42 | EP | | 10 8 | 6.470 | .090 | | | | | | | 1.0 |
| MESJ | HN | 417 | 42 | ES | | 10 8 | 46.310 | .080 | | | | | | | 1.0 |
| MESJ | HN | 417 | 42 | IAML | | 10 8 | 48.98 | | | 5 | 0.2 | | | | |
| GRNL | CZ | 420 | 36 | EP | | 10 8 | 6.56 | -.160 | | | | | | | 1.0 |

April 30 2023 Hour: 10:56 39.9 Lat: 37.90N Lon: 6.46W Depth: 2F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

SPAIN Net: IMP

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| MESJ | HZ | 155 | 268 | EP | | 1057 | 4.450 | .030 | | | | | | | 1.0 |
| MESJ | HN | 155 | 268 | ES | | 1057 | 22.27 | -.030 | | | | | | | 1.0 |
| MESJ | HE | 155 | 268 | IAML | | 1057 | 24.30 | | | 2 | 0.1 | | | | |

April 30 2023 Hour: 23: 2 58.6 Lat: 36.42N Lon: 7.72W Depth: 19F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 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 | 320 | EP | | 23 3 | 17.96 | -.240 | | | | | | | 1.0 |
| MORF | HE | 129 | 320 | ES | | 23 3 | 32.37 | -.160 | | | | | | | 1.0 |
| MORF | HE | 129 | 320 | IAML | | 23 3 | 32.94 | | | 15 | 0.2 | | | | |
| MESJ | HZ | 164 | 345 | EP | | 23 3 | 22.820 | .280 | | | | | | | 1.0 |
| MESJ | HN | 164 | 345 | ES | | 23 3 | 40.070 | .030 | | | | | | | 1.0 |
| MESJ | HE | 164 | 345 | IAML | | 23 3 | 41.84 | | | 7 | 0.1 | | | | |
| GRNL | CZ | 202 | 338 | EP | | 23 3 | 27.310 | .030 | | | | | | | 1.0 |
| GRNL | CN | 202 | 338 | ES | | 23 3 | 48.300 | .060 | | | | | | | 1.0 |
| GRNL | CN | 202 | 338 | IAML | | 23 3 | 48.99 | | | 18 | 0.2 | | | | |