

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

July to August

2023

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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

July 1 2023 Hour: 5: 6 10.5 Lat: 36.39N Lon: 7.82W Depth: 12F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	126	324	EP		5 6	30.11	-.080							1.0
MORF	HE	126	324	ES		5 6	44.49	-.090							1.0
MORF	HE	126	324	IAML		5 6	48.40			15	0.3				
MESJ	HZ	165	348	EP		5 6	35.390	.250							1.0
MESJ	HE	165	348	ES		5 6	53.08	-.070							1.0
MESJ	HN	165	348	IAML		5 6	54.66			3	0.1				
GRNL	CZ	202	341	EP		5 6	39.75	-.000							1.0

July 1 2023 Hour: 5:38 47.6 Lat: 36.93N Lon: 5.51W Depth: 10F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	260	294	EP		539	24.36	-.020							1.0
MORF	HZ	282	279	EP		539	27.210	.080							1.0
GRNL	CZ	300	297	EP		539	29.28	-.060							1.0

July 1 2023 Hour: 9:15 1.6 Lat: 49.85N Lon: 155.00E Depth:137F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

KURIL ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10159	347	EP			927	51.61	-.000							1.0
MESJ	BZ10159	347	IAMB			927	53.08			25	1.0				

July 1 2023 Hour: 21:32 24.6 Lat: 38.20N Lon: 8.28W Depth: 1F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 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	28	248	EP		2132	29.01	-.020							1.0
GRNL	CN	28	248	ES		2132	32.470	.190							1.0
GRNL	CN	28	248	IAML		2132	32.77			3	0.2				
MESJ	HZ	41	173	EP		2132	31.09	-.040							1.0
MESJ	HE	41	173	ES		2132	35.78	-.130							1.0
MESJ	HN	41	173	IAML		2132	36.04			2	0.2				

July 2 2023 Hour: 2:41 18.3 Lat: 23.54S Lon: 175.59W Depth: 10F Agency: IGL Distant
Rms: 0.1 secs

TONGA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ17994	34	EPKpdf			3 1	19.050	.110							1.0
MESJ	BZ18036	34	EPKpdf			3 1	19.33	-.020							1.0
MORF	BZ18055	36	EPKpdf			3 1	19.48	-.090							1.0

July 2 2023 Hour: 4:26 22.7 Lat: 38.28N Lon: 7.96W Depth: 2F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NE ALVITO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	54	205	EP		426	31.390	.040							1.0
MESJ	HE	54	205	ES		426	37.42	-.250							1.0
MESJ	HE	54	205	IAML		426	37.93			7	0.1				
GRNL	CZ	57	251	EP		426	31.960	.120							1.0
GRNL	CN	57	251	ES		426	38.47	-.030							1.0
GRNL	CE	57	251	IAML		426	39.08			17	0.2				
MORF	HZ	124	210	EP		426	42.740	.040							1.0
MORF	HE	124	210	ES		426	57.380	.090							1.0
MORF	HN	124	210	IAML		426	59.68			21	0.3				

July 2 2023 Hour: 7:38 52.4 Lat: 37.78N Lon: 8.53W Depth: 2F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs
NE ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	28	77	EP		738	56.980	.060							1.0
MESJ	HN	28	77	ES		739	0.280	.060							1.0
MESJ	HN	28	77	IAML		739	0.76			12	0.1				
GRNL	CZ	36	355	EP		738	58.18-	.040							1.0
GRNL	CN	36	355	ES		739	2.35-	.120							1.0
GRNL	CN	36	355	IAML		739	2.72			19	0.1				
MORF	HZ	54	192	EP		739	1.210	.030							1.0
MORF	HN	54	192	ES		739	7.600	.000							1.0
MORF	HN	54	192	IAML		739	8.10			9	0.1				

July 2 2023 Hour: 10:27 44.4 Lat: 17.88S Lon: 174.94W Depth: 229F Agency: IGL Distant
Rms: 0.1 secs
TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ17425	28	EPK	pdf		1047	10.95-	.210							0.9
GRNL	BZ17425	28	EPK	Pab		1047	42.150	.100							1.0
GRNL	BZ17425	28	EPP			1051	20.91-	.020							1.0
MESJ	BZ17467	28	EPK	pdf		1047	11.51-	.150							1.0
MESJ	BZ17467	28	EPK	Pab		1047	43.710	.010							1.0
MESJ	BZ17467	28	EPP			1051	23.020	.010							1.0
MORF	BZ17494	29	EPK	pdf		1047	12.060	.040							1.0
MORF	BZ17494	29	EPK	Pab		1047	44.980	.170							0.9
MORF	BZ17494	29	EPP			1051	24.430	.030							1.0

July 2 2023 Hour: 11:55 12.3 Lat: 36.54N Lon: 9.85W 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	136	51	EP		1155	32.140	.100							1.0
MORF	HN	136	51	ES		1155	46.38-	.100							1.0
MORF	HE	136	51	IAML		1155	48.20			43	0.2				
MESJ	HZ	204	45	EP		1155	40.44-	.020							1.0
MESJ	HN	204	45	ES		1156	1.130	.080							1.0
MESJ	HN	204	45	IAML		1156	3.23			5	0.2				
GRNL	CZ	208	33	EP		1155	40.72-	.170							1.0
GRNL	CN	208	33	ES		1156	1.920	.120							1.0
GRNL	CN	208	33	IAML		1156	4.11			13	0.1				

July 2 2023 Hour: 13:22 14.3 Lat: 36.58N Lon: 11.11W Depth: 20F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	233	69	EP		1322	46.76-	.080							1.0
GRNL	CZ	282	52	EP		1322	52.79-	.080							1.0
GRNL	CE	282	52	ES		1323	21.220	.230							1.0
GRNL	CE	282	52	IAML		1323	22.96			2	0.1				
MESJ	HZ	292	60	EP		1322	54.07-	.070							1.0

July 3 2023 Hour: 1:7 20.5 Lat: 38.30N Lon: 9.29W Depth: 28F Agency: IGL Regional
Magnitudes: 1.5ML 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	66	109	EP		1 7	31.38-	.160							1.0
GRNL	CN	66	109	ES		1 7	39.810	.240							1.0
GRNL	CN	66	109	IAML		1 7	40.21			28	0.2				
MESJ	HZ	107	118	EP		1 7	36.67-	.060							1.0
MORF	HZ	124	153	EP		1 7	38.83-	.070							1.0
MORF	HN	124	153	ES		1 7	52.360	.050							1.0
MORF	HN	124	153	IAML		1 7	53.35			5	0.2				

July 3 2023 Hour: 4:19 50.8 Lat: 36.74N Lon: 7.47W Depth: 24F 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	122	301	EP		420	9.01	-.250							1.0
MORF	HE	122	301	ES		420	22.69	-.040							1.0
MORF	HN	122	301	IAML		420	23.40			7	0.2				
MESJ	HZ	139	332	EP		420	11.540	.220							1.0
MESJ	HN	139	332	ES		420	26.28	-.000							1.0
MESJ	HN	139	332	IAML		420	27.69			6	0.1				
GRNL	CZ	181	328	EP		420	16.530	.090							1.0
GRNL	CN	181	328	ES		420	35.14	-.010							1.0
GRNL	CE	181	328	IAML		420	36.87			2	0.1				

July 3 2023 Hour: 7:35 42.3 Lat: 38.33N Lon: 9.29W Depth: 6F Agency: IGL Regional
Magnitudes: 1.1ML 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	68	111	EP		735	53.18	-.130							1.0
GRNL	CN	68	111	ES		736	1.490	.130							1.0
GRNL	CN	68	111	IAML		736	2.00			8	0.1				

July 3 2023 Hour: 14:10 28.8 Lat: 36.62N Lon: 9.80W Depth: 14F 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	127	53	EP		1410	48.55	-.090							1.0
MORF	HE	127	53	ES		1411	3.220	.070							1.0
MORF	HE	127	53	IAML		1411	5.37			7	0.1				
MESJ	HZ	195	45	EP		1410	56.96	-.050							1.0
MESJ	HN	195	45	ES		1411	17.730	.110							1.0
MESJ	HN	195	45	IAML		1411	18.95			1	0.2				
GRNL	CZ	198	33	EP		1410	57.33	-.060							1.0
GRNL	CE	198	33	ES		1411	18.290	.020							1.0
GRNL	CN	198	33	IAML		1411	20.37			4	0.2				

July 3 2023 Hour: 20:1 47.8 Lat: 41.71N Lon: 49.26E Depth: 35F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

CASPIAN SEA, OFFSHORE AZERBAIJAN Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4852	285	EP		20 9	48.71	-.160							1.0
MESJ	BZ	4852	285	IAMB		20 9	49.69			35	0.8				
GRNL	BZ	4868	285	EP		20 9	50.100	.080							1.0
GRNL	BZ	4868	285	IAMB		20 9	51.29			55	0.9				
GRNL	BE	4868	285	ES		2016	18.85	-.110							1.0
GGNV	BZ	4887	286	EP		20 9	51.460	.050							1.0
GGNV	BZ	4887	286	IAMB		20 9	53.59			160	0.8				
MORF	BZ	4911	284	EP		20 9	53.340	.140							1.0
MORF	BZ	4911	284	IAMB		20 9	54.71			45	1.1				

July 3 2023 Hour: 20:57 45.7 Lat: 13.33S Lon: 166.29E Depth: 7F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ17241	350	EPKp \bar{d} f			2117	38.540	.050							1.0
GRNL	BZ17241	350	EPP			2121	38.77	-.180							0.9
GRNL	BZ17241	350	IAMs_20			2239	57.03			897	15.1				
MESJ	BZ17263	350	EPKp \bar{d} f			2117	38.820	.030							1.0
MESJ	BZ17263	350	EPP			2121	40.160	.060							1.0
MESJ	BZ17263	350	IAMs_20			2241	47.57			922	16.2				
MORF	BZ17329	350	EPKp \bar{d} f			2117	39.58	-.070							1.0
MORF	BZ17329	350	EPP			2121	43.570	.090							1.0
MORF	BZ17329	350	IAMs_20			2240	30.36			995	23.1				

July 4 2023 Hour: 2:19 38.6 Lat: 38.13N Lon: 8.37W Depth: 13F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	18	264	EP		219	42.230	.050							1.0
GRNL	CN	18	264	ES		219	44.780	.020							1.0
GRNL	CE	18	264	IAML		219	45.27			10	0.1				
MESJ	HZ	34	158	EP		219	44.580	.030							1.0
MESJ	HE	34	158	ES		219	48.76	-.100							1.0
MESJ	HN	34	158	IAML		219	49.65			6	0.1				

July 4 2023 Hour: 22:50 6.6 Lat: 36.56N Lon: 9.70W Depth: 14F 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	124	48	EP		2250	26.08	-.090							1.0
MORF	HN	124	48	ES		2250	40.650	.230							1.0
MORF	HE	124	48	IAML		2250	43.52			6	0.3				
MESJ	HZ	193	42	EP		2250	34.66	-.020							1.0
MESJ	HE	193	42	ES		2250	55.230	.080							1.0
MESJ	HN	193	42	IAML		2250	57.42			1	0.1				
GRNL	CZ	198	30	EP		2250	35.16	-.190							1.0
GRNL	CN	198	30	ES		2250	56.27	-.030							1.0
GRNL	CN	198	30	IAML		2250	57.48			3	0.1				

July 4 2023 Hour: 23: 8 44.4 Lat: 36.31N Lon: 7.87W Depth: 17F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	210	343	EP		23 9	14.14	-.110							1.0
GRNL	CN	210	343	ES		23 9	36.130	.110							1.0
GRNL	CN	210	343	IAML		23 9	37.01			2	0.2				

July 5 2023 Hour: 12:58 18.5 Lat: 36.47N Lon: 7.48W Depth: 17F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	165	337	EP		1258	43.010	.140							1.0
GRNL	CZ	206	332	EP		1258	47.73	-.140							1.0

July 5 2023 Hour: 18:17 14.5 Lat: 36.68N Lon: 8.87W Depth: 19F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	72	15	EP		1817	26.370	.220							1.0
MORF	HE	72	15	ES		1817	34.670	.010							1.0
MORF	HN	72	15	IAML		1817	36.78			16	0.2				
MESJ	HN	141	24	ES		1817	50.81	-.200							1.0
MESJ	HN	141	24	IAML		1817	52.60			2	0.2				
GRNL	CZ	161	9	EP		1817	38.02	-.040							1.0

July 5 2023 Hour: 18:27 17.4 Lat: 36.98N Lon: 5.49W Depth: 6F Agency: IGL Regional
Magnitudes: 1.2ML IGL 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	260	292	EP		1827	54.500	.040							1.0
GRNL	CZ	299	296	EP		1827	59.34	-.040							1.0

July 5 2023 Hour: 18:57 15.8 Lat: 36.95N Lon: 5.49W Depth: 9F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	261	293	EP		1857	52.900	.070							1.0
MORF	HZ	284	279	EP		1857	55.66-	.020							1.0
GRNL	CZ	301	296	EP		1857	57.72-	.050							1.0

July 5 2023 Hour: 20:27 54.8 Lat: 37.23N Lon: 8.16W Depth: 1F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

NW LOULE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	281	EP		2028	1.84-	.060							1.0
MORF	HN	44	281	ES		2028	7.160	.040							1.0
MORF	HN	44	281	IAML		2028	7.99			6	0.1				
GRNL	CE	104	340	ES		2028	23.850	.020							1.0
GRNL	CN	104	340	IAML		2028	25.78			7	0.2				

July 5 2023 Hour: 22:20 31.0 Lat: 36.91N Lon: 11.05W Depth: 32F Agency: IGL Regional
Magnitudes: 2.7ML 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	218	78	EP		2221	0.880	.020							1.0
MORF	HN	218	78	ES		2221	22.47-	.190							1.0
MORF	HN	218	78	IAML		2221	25.77			123	0.1				
GRNL	CZ	257	58	EP		2221	5.850	.170							1.0
GRNL	CE	257	58	ES		2221	31.160	.170							1.0
GRNL	CN	257	58	IAML		2221	32.60			50	0.1				
MESJ	HZ	272	67	EP		2221	7.47-	.020							1.0
MESJ	HE	272	67	ES		2221	33.96-	.160							1.0
MESJ	HE	272	67	IAML		2221	38.96			16	0.2				

July 6 2023 Hour: 0:31 56.8 Lat: 23.93S Lon: 67.91W Depth: 132F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9184	44	EP		044	5.06-	.030							1.0
MORF	BZ	9184	44	IAmb		044	9.15			28	0.8				
MORF	BZ	9184	44	EpP		044	38.540	.210							0.9
MORF	BE	9184	44	ES		054	11.29-	.230							0.9
GRNL	BZ	9245	43	EP		044	7.80-	.000							1.0
GRNL	BZ	9245	43	IAmb		044	8.76			38	0.8				
GRNL	BZ	9245	43	EpP		044	41.210	.120							1.0
GRNL	BE	9245	43	ES		054	16.230	.090							1.0
GGNV	BZ	9246	42	EP		044	7.73-	.110							1.0
GGNV	BZ	9246	42	IAmb		044	11.38			47	1.2				
MESJ	BZ	9251	44	EP		044	8.07-	.040							1.0
MESJ	BZ	9251	44	IAmb		044	9.23			44	0.8				
MESJ	BZ	9251	44	EpP		044	41.32-	.080							1.0
MESJ	BE	9251	44	ES		054	16.600	.070							1.0

July 6 2023 Hour: 10:31 10.9 Lat: 61.08S Lon: 154.21E Depth: 10F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

BALLENY ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17127	213		EPP		1055	0.140	.070							1.0
MESJ	BZ17127	213		IAMs_20		1159	6.20			1283	16.2				
GRNL	BZ17166	213		EPKp \bar{f}		1051	2.72-	.060							1.0
GRNL	BZ17166	213		EPP		1055	1.98-	.010							1.0
GRNL	BZ17166	213		IAMs_20		1158	52.75			2018	22.0				

July 6 2023 Hour: 11:43 29.4 Lat: 36.42N Lon: 7.99W Depth: 22F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	115	329	EP		1143	47.04	-.090							1.0
GRNL	CZ	195	345	EP		1143	56.96	-.040							1.0
GRNL	CN	195	345	ES		1144	17.250	.130							1.0
GRNL	CN	195	345	IAML		1144	17.85			2	0.2				

July 6 2023 Hour: 15:38 28.7 Lat: 35.34N Lon: 3.58W Depth: 15F Agency: IGL Regional
Magnitudes: 2.7ML 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	499	305	EP		1539	34.37	-.040							1.0
GRNL	CZ	541	306	EP		1539	39.540	.060							1.0
GRNL	CE	541	306	ES		1540	31.15	-.020							1.0
GRNL	CE	541	306	IAML		1540	32.69			11	0.3				

July 6 2023 Hour: 16: 3 20.9 Lat: 38.38N Lon: 9.58W Depth: 12F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

SW CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	93	108	EP		16 3	35.61	-.090							1.0
GRNL	CN	93	108	ES		16 3	46.49	-.010							1.0
GRNL	CE	93	108	IAML		16 3	48.20			32	0.1				
MESJ	HZ	133	116	EP		16 3	41.740	.060							1.0
MORF	HE	144	145	ES		16 3	59.300	.050							1.0
MORF	HE	144	145	IAML		16 4	2.38			8	0.1				

July 6 2023 Hour: 16:21 28.3 Lat: 36.13N Lon: 6.97W Depth: 38F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	199	311	EP		1621	55.70	-.110							1.0
MESJ	HZ	220	330	EP		1621	58.450	.070							1.0
MESJ	HN	220	330	ES		1622	20.29	-.030							1.0
MESJ	HN	220	330	IAML		1622	21.97			18	0.3				
GRNL	CZ	261	328	EP		1622	3.600	.070							1.0

July 6 2023 Hour: 17:13 19.4 Lat: 7.03S Lon: 129.48E Depth: 125F Agency: IGL Distant
Rms: 0.1 secs

KEPULAUAN BABAR, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14578	315	EPP			1734	33.94	-.060							1.0
GRNL	BZ14591	316	EPP			1734	34.800	.060							1.0

July 6 2023 Hour: 20: 4 9.0 Lat: 9.48S Lon: 148.78E Depth: 59F Agency: IGL Distant
Rms: 0.0 secs

EASTERN NEW GUINEA REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ16136	328	EPKP			2023	38.58	-.050							1.0
MESJ	BZ16138	327	EPKP			2023	38.740	.050							1.0

July 6 2023 Hour: 23:10 27.6 Lat: 37.62N Lon: 7.68W Depth: 21F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SW MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	54	297	EP		2310	36.62	-.020							1.0
MESJ	HN	54	297	ES		2310	43.18	-.040							1.0
MESJ	HN	54	297	IAML		2310	43.78			4	0.1				
MORF	HN	93	248	ES		2310	53.240	.010							1.0
MORF	HN	93	248	IAML		2310	54.22			13	0.4				
GRNL	CZ	95	305	EP		2310	42.56	-.150							1.0

GRNL CE 95 305 ES 2310 53.940.210 1.0
 GRNL CN 95 305 IAML 2310 55.36 2 0.1

July 7 2023 Hour: 4:38 14.1 Lat: 37.25N Lon: 8.64W Depth: 20F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	345	EP		438	17.29	-.230							1.0
MORF	HE	6	345	ES		438	20.120	.130							1.0
MORF	HE	6	345	IAML		438	20.43		52	0.1					
MESJ	HZ	75	29	EP		438	26.420	.150							1.0
MESJ	HE	75	29	ES		438	35.150	.030							1.0
MESJ	HE	75	29	IAML		438	36.09		5	0.1					
GRNL	CZ	95	3	EP		438	29.22	-.080							1.0
GRNL	CN	95	3	ES		438	40.370	.010							1.0
GRNL	CN	95	3	IAML		438	41.20		4	0.2					

July 7 2023 Hour: 10:29 40.0 Lat: 36.78N Lon: 10.85W Depth: 20F 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	204	73	EP		1030	8.81	-.120							1.0
MORF	HN	204	73	ES		1030	30.090	.020							1.0
MORF	HE	204	73	IAML		1030	31.93		22	0.2					
GRNL	CZ	250	53	EP		1030	14.640	.020							1.0
GRNL	CN	250	53	ES		1030	39.970	.060							1.0
GRNL	CN	250	53	IAML		1030	41.83		23	0.2					
MESJ	HZ	262	62	EP		1030	15.88	-.130							1.0
MESJ	HN	262	62	ES		1030	42.450	.140							1.0
MESJ	HN	262	62	IAML		1030	43.98		6	0.1					

July 7 2023 Hour: 12: 7 59.3 Lat: 38.18N Lon: 8.05W Depth: 6F Agency: IGL Regional
Magnitudes: 0.7ML 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	41	201	EP		12 8	5.990	.080							1.0
MESJ	HN	41	201	ES		12 8	10.790	.030							1.0
MESJ	HN	41	201	IAML		12 8	11.37		3	0.1					
GRNL	CZ	46	260	EP		12 8	6.820	.080							1.0
GRNL	CN	46	260	ES		12 8	11.94	-.260							1.0
GRNL	CN	46	260	IAML		12 8	12.65		8	0.2					
MORF	HN	111	209	ES		12 8	30.150	.070							1.0
MORF	HE	111	209	IAML		12 8	31.32		2	0.0					

July 7 2023 Hour: 21: 6 25.5 Lat: 37.38N Lon: 7.82W Depth: 3F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs

SE ALMODOVAR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	62	325	EP		21 6	35.43	-.030							1.0
MESJ	HN	62	325	ES		21 6	42.74	-.030							1.0
MESJ	HN	62	325	IAML		21 6	44.17		2	0.2					
GRNL	CN	104	321	ES		21 6	54.650	.070							1.0
GRNL	CN	104	321	IAML		21 6	55.91		1	0.2					

July 7 2023 Hour: 21:22 24.5 Lat: 36.53N Lon: 11.27W Depth: 24F 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	248	69	EP		2122	58.45	-.110							1.0
GRNL	CZ	296	53	EP		2123	4.520	.040							1.0
GRNL	CE	296	53	ES		2123	33.750	.050							1.0
GRNL	CE	296	53	IAML		2123	36.69		5	0.2					
MESJ	HZ	307	61	EP		2123	5.81	-.010							1.0
MESJ	HN	307	61	ES		2123	36.050	.030							1.0

MESJ HN 307 61 IAML 2123 37.05 0.90 0.1

July 8 2023 Hour: 13:48 28.6 Lat: 38.12N Lon: 8.45W Depth: 6F Agency: IGL Regional Rms: 0.1 secs

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	10	265	EP		1348	30.35	-.160							1.0
GRNL	CN	10	265	ES		1348	32.060	.160							1.0

July 8 2023 Hour: 13:56 59.4 Lat: 34.87N Lon: 12.19W Depth: 32F Agency: IGL Regional Rms: 0.1 secs

MADEIRA ISLANDS, PORTUGAL REGION Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	418	49	EP		1357	53.72	-.200							1.0
MORF	HE	418	49	ES		1358	33.68	-.070							1.0
MORF	HE	418	49	IAML		1358	37.23			35	0.2				
GRNL	CZ	484	41	EP		1358	1.91	-.030							1.0
GRNL	CE	484	41	ES		1358	47.690	.060							1.0
GRNL	CN	484	41	IAML		1358	49.54			17	0.1				
MESJ	HZ	486	46	EP		1358	2.140	.050							1.0
MESJ	HN	486	46	ES		1358	48.100	.220							1.0
MESJ	HN	486	46	IAML		1358	50.56			8	0.1				

July 8 2023 Hour: 14: 2 48.7 Lat: 38.57N Lon: 21.79E Depth: 5F Agency: IGL Distant 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	2618	278	EP		14 8	0.180	.090							1.0
MESJ	BZ	2618	278	IAMB		14 8	5.15			23	1.1				
GRNL	BZ	2643	278	EP		14 8	2.03	-.090							1.0
GRNL	BZ	2643	278	IAMB		14 8	4.00			11	0.9				

July 8 2023 Hour: 18:16 21.6 Lat: 36.52N Lon: 11.26W Depth: 29F 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	248	69	EP		1816	55.31	-.020							1.0
MORF	HN	248	69	ES		1817	19.97	-.020							1.0
MORF	HN	248	69	IAML		1817	21.98			8	0.2				
GRNL	CZ	297	53	EP		1817	1.12	-.200							1.0
GRNL	CN	297	53	ES		1817	30.500	.150							1.0
GRNL	CE	297	53	IAML		1817	32.81			7	0.2				
MESJ	HN	308	61	ES		1817	32.720	.100							1.0
MESJ	HN	308	61	IAML		1817	33.99			2	0.2				

July 9 2023 Hour: 0: 6 26.3 Lat: 7.43S Lon: 156.09E Depth: 35F Agency: IGL Distant Rms: 0.3 secs

SOLOMON ISLANDS Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ16302	338	EP	KPab		026	4.830	.150							1.0
MESJ	BZ16314	337	EP	KPab		026	5.280	.180							1.0
MORF	BZ16384	337	EP	KPab		026	7.28	-.380							0.9

July 9 2023 Hour: 7:16 49.1 Lat: 38.48N Lon: 7.89W Depth: 14F Agency: IGL Regional Rms: 0.1 secs

SE EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	73	235	EP		717	0.75	-.070							1.0
GRNL	CN	73	235	ES		717	9.430	.070							1.0
GRNL	CE	73	235	IAML		717	9.81			1	0.1				

July 9 2023 Hour: 22:23 0.7 Lat: 64.09N Lon: 22.15W Depth: 6F Agency: IGL Distant
Magnitudes: 4.9Ms IGL Rms: 0.1 secs

ICELAND Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	3026	156	EP		2228	45.32	-.050							1.0
GRNL	BE	3026	156	ES		2233	25.64	-.140							1.0
GRNL	BE	3026	156	IAMs_20		2237	14.42			2707	12.1				
MESJ	BE	3062	156	ES		2233	30.89	-.010							1.0
MESJ	BE	3062	156	IAMs_20		2237	26.56			1498	17.5				
MORF	BZ	3111	157	EP		2228	52.52	0.210							1.0
MORF	BE	3111	157	IAMs_20		2238	36.57			2278	12.3				

July 10 2023 Hour: 1: 8 29.6 Lat: 36.08N Lon: 7.99W Depth: 32F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	148	337	EP		1 8	50.69	-.080							1.0
MESJ	HZ	196	354	EP		1 8	56.75	0.050							1.0
GRNL	CZ	231	347	EP		1 9	0.89	-.110							1.0
GRNL	CN	231	347	ES		1 9	24.05	0.140							1.0
GRNL	CN	231	347	IAML		1 9	25.08			4	0.1				

July 10 2023 Hour: 5:35 13.5 Lat: 35.33N Lon: 3.58W Depth: 23F 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	500	305	EP		536	18.85	-.000							1.0
GRNL	CZ	542	306	EP		536	23.93	0.000							1.0

July 10 2023 Hour: 7:42 40.1 Lat: 36.71N Lon: 9.70W Depth: 17F 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	114	54	EP		742	58.05	-.010							1.0
MORF	HN	114	54	ES		743	11.20	-.000							1.0
MORF	HN	114	54	IAML		743	12.53			22	0.1				
MESJ	HZ	181	46	EP		743	6.29	-.110							1.0
MESJ	HN	181	46	ES		743	25.78	0.160							1.0
MESJ	HN	181	46	IAML		743	27.10			3	0.2				
GRNL	CZ	185	32	EP		743	6.76	-.040							1.0

July 10 2023 Hour: 10: 3 23.6 Lat: 37.10N Lon: 5.48W Depth: 2F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	256	290	EP		10 4	0.73	0.080							1.0
GRNL	CZ	295	293	EP		10 4	5.39	-.090							1.0

July 10 2023 Hour: 14:40 12.8 Lat: 36.77N Lon: 7.45W Depth: 26F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	137	330	EP		1440	32.82	0.000							1.0

July 10 2023 Hour: 20:28 25.7 Lat: 20.04N Lon: 61.08W Depth: 10F Agency: IGL Distant
Magnitudes: 6.3Ms IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	5371	56	EP		2037	7.09	0.260							0.9
GGNV	BN	5371	56	ES		2044	7.23	-.150							1.0
GGNV	BE	5371	56	IAMs_20		2051	3.42			40679	22.8				
MORF	BZ	5396	58	EP		2037	8.63	-.080							1.0
MORF	BN	5396	58	ES		2044	10.75	-.040							1.0

MORF	BZ	5396	58	IAMs_20	2052	37.71			27491	17.7							
GRNL	BZ	5413	57	EP	2037	9.810	.020										1.0
GRNL	BN	5413	57	ES	2044	12.930	.140										1.0
GRNL	BZ	5413	57	IAMs_20	2051	28.36			33074	15.3							
MESJ	BZ	5440	57	EP	2037	11.66	-.040										1.0
MESJ	BN	5440	57	ES	2044	16.20	-.080										1.0
MESJ	BZ	5440	57	IAMs_20	2051	13.91			40316	27.2							

July 10 2023 Hour: 22:32 52.2 Lat: 38.09N Lon: 9.67W Depth: 1F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	96	89	EP		2233	7.72	-.040							1.0
GRNL	CN	96	89	ES		2233	19.150	.040							1.0
GRNL	CN	96	89	IAML		2233	20.62			2	0.1				

July 11 2023 Hour: 10:1 6.7 Lat: 36.16N Lon: 7.29W 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
MESJ	HZ	204	336	EP		10	1	34.76	-.020						1.0
MESJ	HN	204	336	ES		10	1	55.370	.100						1.0
MESJ	HN	204	336	IAML		10	1	58.43			3	0.1			
GRNL	CZ	244	333	EP		10	1	39.71	-.080						1.0

July 12 2023 Hour: 5:31 32.6 Lat: 36.91N Lon: 8.61W Depth: 27F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	355	EP		531	40.700	.140							1.0
MORF	HN	44	355	ES		531	46.530	.140							1.0
MORF	HE	44	355	IAML		531	47.32			45	0.1				
MESJ	HZ	109	18	EP		531	49.05	-.050							1.0
MESJ	HE	109	18	ES		532	1.11	-.050							1.0
MESJ	HN	109	18	IAML		532	3.31			12	0.1				
GRNL	CZ	133	2	EP		531	51.92	-.190							1.0
GRNL	CN	133	2	ES		532	6.36	-.010							1.0
GRNL	CN	133	2	IAML		532	7.09			14	0.1				

July 12 2023 Hour: 7:12 53.4 Lat: 36.63N Lon: 9.80W Depth: 8F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	194	46	EP		713	22.160	.010							1.0
MESJ	HE	194	46	ES		713	43.170	.000							1.0
MESJ	HE	194	46	IAML		713	44.63				2	0.2			
GRNL	CZ	197	33	EP		713	22.49	-.020							1.0

July 12 2023 Hour: 18:5 50.0 Lat: 36.64N Lon: 8.11W Depth: 5F 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	88	327	EP		18	6	4.17	-.040						1.0
MORF	HN	88	327	ES		18	6	14.690	.120						1.0
MORF	HN	88	327	IAML		18	6	15.54			7	0.3			
MESJ	HE	133	356	ES		18	6	26.68	-.080						1.0
MESJ	HE	133	356	IAML		18	6	26.95			1	0.1			

July 13 2023 Hour: 0:51 0.5 Lat: 36.96N Lon: 8.60W Depth: 4F 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	38	352	EP		051	6.50	-.230							1.0
MORF	HN	38	352	ES		051	11.450	.190							1.0
MORF	HE	38	352	IAML		051	12.55			10	0.2				
MESJ	HZ	103	19	EP		051	17.10	-.020							1.0
MESJ	HN	103	19	ES		051	29.320	.080							1.0
MESJ	HN	103	19	IAML		051	31.36			5	0.2				
GRNL	CZ	127	1	EP		051	20.970	.070							1.0
GRNL	CN	127	1	ES		051	35.70	-.080							1.0
GRNL	CN	127	1	IAML		051	37.23			6	0.2				

July 13 2023 Hour: 3:29 41.5 Lat: 36.29N Lon: 9.96W Depth: 40F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	163	46	EP		330	4.39	-.090							1.0
MORF	HN	163	46	ES		330	21.400	.120							1.0
MORF	HE	163	46	IAML		330	21.87			19	0.2				
MESJ	HZ	232	41	EP		330	12.83	-.200							1.0
MESJ	HE	232	41	ES		330	36.190	.110							1.0
MESJ	HN	232	41	IAML		330	36.83			4	0.1				
GRNL	CZ	237	31	EP		330	13.59	-.080							1.0
GRNL	CN	237	31	ES		330	37.320	.130							1.0
GRNL	CN	237	31	IAML		330	39.04			15	0.2				

July 13 2023 Hour: 6:51 30.7 Lat: 38.38N Lon: 8.73W Depth: 1 Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.2 secs
W ALCACER DO SAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	33	155	EP		651	36.050	.050							1.0
GRNL	CN	33	155	ES		651	39.940	.040							1.0
GRNL	CN	33	155	IAML		651	41.61			58	0.2				
MESJ	HZ	75	143	EP		651	42.24	-.450							1.0
MESJ	HE	75	143	ES		651	51.750	.260							1.0
MESJ	HN	75	143	IAML		651	54.39			11	0.1				
MORF	HZ	119	177	EP		651	50.010	.090							1.0
MORF	HN	119	177	ES		652	4.010	.020							1.0
MORF	HN	119	177	IAML		652	5.17			50	0.4				

July 13 2023 Hour: 13: 6 26.6 Lat: 75.19N Lon: 135.82E Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs
NEW SIBERIAN ISLANDS, RUSSIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	7168	329	EP		1317	3.47	-.080							1.0
GRNL	BZ	7168	329	IAMB		1317	4.88			49	1.7				
MESJ	BZ	7193	329	EP		1317	5.070	.080							1.0
MESJ	BZ	7193	329	IAMB		1317	8.70			7	0.9				

July 13 2023 Hour: 23:16 35.0 Lat: 38.29N Lon: 9.34W Depth: 14F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs
SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	71	107	EP		2316	46.40	-.010							1.0
GRNL	CE	71	107	ES		2316	54.730	.010							1.0
GRNL	CN	71	107	IAML		2316	56.74			6	0.1				

July 14 2023 Hour: 2:149.6 Lat: 28.65N Lon: 143.48E Depth: 18F Agency: IGL Distant
Magnitudes: 4.9Ms IGL Rms: 0.0 secs

BONIN ISLANDS, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ12083	337		EPP		220	42.84	0.030							1.0
GRNL	BE12083	337		IAMs_20		3 3	6.38			427	17.5				
MESJ	BZ12097	337		EPP		220	43.68	-.030							1.0
MESJ	BE12097	337		IAMs_20		3 4	35.25			294	30.1				

July 14 2023 Hour: 7:517.3 Lat: 36.97N Lon: 8.39W Depth: 14F 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	44	328	EP		7 5	24.67	-.030							1.0
MORF	HE	44	328	ES		7 5	30.21	0.090							1.0
MORF	HN	44	328	IAML		7 5	31.83			5	0.2				
MESJ	HE	98	9	ES		7 5	43.96	-.160							1.0
MESJ	HN	98	9	IAML		7 5	45.37			3	0.1				
GRNL	CE	128	353	ES		7 5	51.81	0.100							1.0
GRNL	CN	128	353	IAML		7 5	53.43			4	0.2				

July 14 2023 Hour: 9:29 0.7 Lat: 15.06N Lon: 93.77W Depth: 40F Agency: IGL Distant
Magnitudes: 6.3Ms IGL Rms: 0.1 secs

OFFSHORE CHIAPAS, MEXICO Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8526	53	EP		940	47.18	-.180							1.0
GGNV	BZ	8526	53	IAMs_20		10 8	54.72			15969	19.9				
GRNL	BZ	8586	54	EP		940	50.40	-.040							1.0
GRNL	BE	8586	54	ES		950	37.36	0.010							1.0
GRNL	BZ	8586	54	IAMs_20		1011	44.57			15067	14.3				
MORF	BZ	8593	55	EP		940	50.98	0.120							1.0
MORF	BN	8593	55	ES		950	38.25	0.100							1.0
MORF	BZ	8593	55	IAMs_20		10 8	1.77			16615	27.2				
MESJ	BZ	8621	54	EP		940	52.19	-.030							1.0
MESJ	BE	8621	54	ES		950	40.82	0.020							1.0
MESJ	BZ	8621	54	IAMs_20		10 8	21.76			14678	23.4				

July 14 2023 Hour: 11:26 11.6 Lat: 36.38N Lon: 4.63W Depth: 93F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	358	298	EP		1126	58.27	-.130							1.0
GRNL	CZ	399	300	EP		1127	3.21	0.030							1.0
GRNL	CE	399	300	ES		1127	40.97	0.110							1.0
GRNL	CE	399	300	IAML		1127	42.76			3	0.2				

July 14 2023 Hour: 14:27 19.8 Lat: 37.37N Lon: 8.53W Depth: 1 Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.2 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	238	EP		1427	21.63	-.320							1.0
MORF	HN	13	238	ES		1427	23.74	0.240							1.0
MORF	HN	13	238	IAML		1427	24.21			27	0.2				
GRNL	CZ	82	357	EP		1427	33.01	-.090							1.0
GRNL	CN	82	357	ES		1427	42.97	0.170							1.0
GRNL	CN	82	357	IAML		1427	44.59			9	0.2				

July 15 2023 Hour: 0:58 51.2 Lat: 36.55N Lon: 9.80W Depth: 14F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	201	44	EP		059	20.210	.090							1.0
MESJ	HE	201	44	ES		059	41.18	-.080							1.0
MESJ	HE	201	44	IAML		059	42.05			0.30	0.1				
GRNL	CZ	205	32	EP		059	20.62	-.010							1.0

July 15 2023 Hour: 7:26 44.2 Lat: 39.08N Lon: 10.36W Depth: 31F Agency: IGL Regional
Magnitudes: 1.4ML 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	190	124	EP		727	9.71	-.050							1.0
GRNL	CN	190	124	ES		727	28.550	.120							1.0
GRNL	CE	190	124	IAML		727	33.85			4	0.2				
MESJ	HZ	232	126	EP		727	14.95	-.080							1.0

July 15 2023 Hour: 7:43 23.1 Lat: 36.39N Lon: 7.83W Depth: 26F Agency: IGL Regional
Magnitudes: 2.2ML 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	125	324	EP		743	41.50	-.270							1.0
MORF	HE	125	324	ES		743	55.40	-.010							1.0
MORF	HE	125	324	IAML		743	55.90			33	0.1				
MESJ	HZ	165	348	EP		743	46.790	.160							1.0
MESJ	HN	165	348	ES		744	4.020	.190							1.0
MESJ	HN	165	348	IAML		744	5.08			16	0.2				
GRNL	CZ	202	341	EP		743	51.21	-.020							1.0
GRNL	CN	202	341	ES		744	11.75	-.040							1.0
GRNL	CN	202	341	IAML		744	12.39			47	0.2				

July 15 2023 Hour: 15:17 19.3 Lat: 38.28N Lon: 8.85W Depth: 11F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs

NW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	31	127	EP		1517	24.46	-.150							1.0
GRNL	CN	31	127	ES		1517	28.620	.150							1.0
GRNL	CN	31	127	IAML		1517	28.75			3	0.1				

July 15 2023 Hour: 19:57 35.3 Lat: 36.87N Lon: 8.89W Depth: 11F 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	52	23	EP		1957	43.78	-.140							1.0
MORF	HE	52	23	ES		1957	50.230	.020							1.0
MORF	HE	52	23	IAML		1957	53.00			24	0.1				
MESJ	HZ	122	29	EP		1957	54.680	.100							1.0
MESJ	HE	122	29	ES		1958	8.56	-.100							1.0
MESJ	HN	122	29	IAML		1958	10.14			10	0.2				
GRNL	CZ	140	11	EP		1957	57.130	.130							1.0

July 15 2023 Hour: 23:1 18.9 Lat: 37.32N Lon: 8.59W Depth: 15F Agency: IGL Regional
Magnitudes: 0.3ML 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	6	256	EP		23	1	21.32	-.180						1.0
MORF	HN	6	256	ES		23	1	23.470	.050						1.0
MORF	HN	6	256	IAML		23	1	23.78		5	0.0				
GRNL	CN	88	1	ES		23	1	43.240	.130						1.0
GRNL	CN	88	1	IAML		23	1	44.26		2	0.1				

July 16 2023 Hour: 2:43 55.5 Lat: 36.70N Lon: 9.67W Depth: 16F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	180	45	EP		244	21.900	.100							1.0
GRNL	CZ	184	32	EP		244	22.14	-.130							1.0
GRNL	CN	184	32	ES		244	41.820	.020							1.0
GRNL	CN	184	32	IAML		244	43.58			3	0.1				

July 16 2023 Hour: 4:10 19.6 Lat: 36.49N Lon: 11.67W Depth: 30F 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	329	56	EP		411	3.10	-.160							1.0
GRNL	CN	329	56	ES		411	35.290	.190							1.0
GRNL	CN	329	56	IAML		411	37.19			5	0.3				
MESJ	HZ	341	63	EP		411	4.75	-.090							1.0
MESJ	HN	341	63	ES		411	37.910	.070							1.0
MESJ	HN	341	63	IAML		411	39.75			3	0.3				

July 16 2023 Hour: 6:48 23.5 Lat: 54.46N Lon: 160.76W Depth: 33F Agency: IGL Distant
Magnitudes: 7.8Ms IGL Rms: 0.1 secs

ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9335	22	EP		7 0	50.410	.280							0.9
GGNV	BN	9335	22	ESKSac		711	10.470	.110							1.0
GGNV	BZ	9335	22	IAMs_20		735	48.90		415000		22.9				
GRNL	BZ	9413	22	EP		7 0	53.790	.050							1.0
GRNL	BZ	9413	22	EPP		7 4	10.14	-.190							1.0
GRNL	BN	9413	22	ESKSac		711	15.060	.070							1.0
GRNL	BZ	9413	22	IAMs_20		736	22.25		349000		17.7				
MESJ	BZ	9450	21	EP		7 0	55.34	-.080							1.0
MESJ	BN	9450	21	ESKSac		711	17.01	-.140							1.0
MESJ	BZ	9450	21	IAMs_20		736	6.98		279000		17.5				
MORF	BZ	9497	22	EP		7 0	57.54	-.050							1.0
MORF	BN	9497	22	ESKSac		711	19.89	-.030							1.0
MORF	BZ	9497	22	IAMs_20		736	53.56		410000		20.9				

July 16 2023 Hour: 8:58 4.8 Lat: 35.48N Lon: 3.63W Depth: 9F 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
GRNL	CZ	529	305	EP		859	14.700	.000							1.0

July 16 2023 Hour: 11:22 56.9 Lat: 54.57N Lon: 161.02W Depth: 39F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9408	21	EP		1135	26.090	.000							1.0
GRNL	BZ	9408	21	IAMB		1135	27.45			21	0.9				

July 16 2023 Hour: 13:44 34.8 Lat: 18.47N Lon: 100.85W Depth: 57F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.1 secs

GUERRERO, MEXICO Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	8967	53	EP		1356	41.490	.140							1.0
GRNL	BZ	8967	53	IAMB		1356	42.85			29	0.7				
MORF	BZ	8984	54	EP		1356	42.18	-.080							1.0
MORF	BZ	8984	54	IAMB		1356	43.56			25	0.8				
MESJ	BZ	9005	53	EP		1356	43.12	-.050							1.0
MESJ	BZ	9005	53	IAMB		1356	44.00			18	0.5				

July 16 2023 Hour: 19:29 15.4 Lat: 36.68N Lon: 7.27W 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	HN	141	300	ES		1929	50.32	-.260							1.0
MORF	HN	141	300	IAML		1929	51.25			9	0.2				
MESJ	HZ	154	327	EP		1929	37.42	0.140							1.0
MESJ	HN	154	327	ES		1929	53.18	-.070							1.0
MESJ	HE	154	327	IAML		1929	54.16			2	0.1				
GRNL	CZ	196	324	EP		1929	42.59	0.100							1.0
GRNL	CN	196	324	ES		1930	2.37	0.100							1.0
GRNL	CN	196	324	IAML		1930	3.96			4	0.1				

July 17 2023 Hour: 1:27 2.2 Lat: 38.39N Lon: 8.02W Depth: 0 Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.2 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	237	EP		127	11.58	0.170							1.0
GRNL	CN	57	237	ES		127	18.07	-.080							1.0
GRNL	CE	57	237	IAML		127	19.59			6	0.1				
MESJ	HZ	64	196	EP		127	12.56	0.140							1.0
MESJ	HE	64	196	ES		127	19.68	-.230							1.0
MESJ	HE	64	196	IAML		127	20.24			7	0.2				

July 17 2023 Hour: 3: 5 12.4 Lat: 38.19S Lon: 70.47W Depth:186FAgency: IGL Distant
Magnitudes: 6.1Mb IGL Rms: 0.1 secs
NEUQUEN, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10483		45	EP		318	10.27	0.070							1.0
MORF	BZ10483		45	IAMB		318	12.54			131	1.6				
MORF	BZ10483		45	EP		318	56.66	-.060							1.0
MORF	BN10483		45	ESKSac		328	27.22	0.030							1.0
MESJ	BZ10552		45	EP		318	12.92	-.040							1.0
MESJ	BZ10552		45	IAMB		318	16.23			434	2.2				
MESJ	BZ10552		45	EP		318	59.46	-.060							1.0
GRNL	BZ10552		44	EP		318	12.78	-.150							1.0
GRNL	BZ10552		44	IAMB		318	16.18			183	1.8				
GRNL	BZ10552		44	EP		318	59.52	0.020							1.0
GRNL	BN10552		44	ESKSac		328	30.45	0.030							1.0
MESJ	BN10552		45	ESKSac		328	30.51	0.060							1.0
GGNV	BZ10565		44	EP		318	13.48	0.050							1.0
GGNV	BZ10565		44	IAMB		318	15.96			220	1.4				
GGNV	BN10565		44	ESKSac		328	31.07	0.040							1.0

July 17 2023 Hour: 3:10 22.6 Lat: 37.28N Lon: 9.16W Depth: 29F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs
NW VILA DO BISPO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	45	87	ES		310	36.97	-.020							1.0
MORF	HN	45	87	IAML		310	37.30			4	0.1				
MESJ	HZ	104	53	EP		310	38.47	0.040							1.0
GRNL	CZ	106	30	EP		310	38.64	-.010							1.0
GRNL	CE	106	30	ES		310	50.32	-.020							1.0
GRNL	CE	106	30	IAML		310	51.19			1	0.1				

July 17 2023 Hour: 10: 3 50.0 Lat: 37.35N Lon: 8.83W Depth: 6F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs
NW ALJEZUR, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	110	EP		10	3	52.81	-.070						1.0
MORF	HE	16	110	ES		10	3	54.96	-.010						1.0
MORF	HN	16	110	IAML		10	3	55.84		21	0.2				
GRNL	CZ	87	15	EP		10	4	4.23	0.190						1.0

GRNL CN 87 15 ES 10 4 14.17-.100 1.0
 GRNL CN 87 15 IAML 10 4 15.16 3 0.2

July 17 2023 Hour: 18:42 24.1 Lat: 35.23N Lon: 6.10W Depth: 32F Agency: IGL Regional
Magnitudes: 2.3ML 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	325	316	EP		1843	6.83	-.370							1.0
MORF	HE	325	316	ES		1843	38.64	-.020							1.0
MORF	HE	325	316	IAML		1843	40.17			13	0.1				
MESJ	HZ	346	327	EP		1843	10.000	.180							1.0
MESJ	HE	346	327	ES		1843	43.200	.010							1.0
MESJ	HE	346	327	IAML		1843	45.13			11	0.1				
GRNL	CZ	388	326	EP		1843	15.060	.070							1.0
GRNL	CE	388	326	ES		1843	52.290	.140							1.0
GRNL	CN	388	326	IAML		1843	53.70			9	0.1				

July 17 2023 Hour: 20: 9 17.4 Lat: 37.31N Lon: 8.58W Depth: 6F Agency: IGL Regional
Magnitudes: 0.8ML 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	7	264	EP		20 9	18.83	-.110							1.0
MORF	HN	7	264	ES		20 9	20.220	.170							1.0
MORF	HN	7	264	IAML		20 9	20.98			87	0.1				
MESJ	HZ	67	28	EP		20 9	28.19	-.020							1.0
GRNL	CZ	89	0	EP		20 9	31.890	.160							1.0
GRNL	CN	89	0	ES		20 9	41.98	-.200							1.0
GRNL	CN	89	0	IAML		20 9	44.09			3	0.3				

July 17 2023 Hour: 22:24 9.6 Lat: 37.02N Lon: 10.72W Depth: 0 Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	186	80	ES		2224	59.300	.140							1.0
MORF	HE	186	80	IAML		2225	0.77			3	0.1				
GRNL	CZ	225	57	EP		2224	42.87	-.140							1.0

July 18 2023 Hour: 5:54 40.6 Lat: 38.48N Lon: 7.80W Depth: 7F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SE EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	79	239	EP		554	53.470	.100							1.0
GRNL	CN	79	239	ES		555	2.66	-.030							1.0
GRNL	CN	79	239	IAML		555	3.91			9	0.2				
MESJ	HZ	80	208	EP		554	53.34	-.180							1.0
MESJ	HE	80	208	ES		555	3.050	.110							1.0
MESJ	HN	80	208	IAML		555	3.74			7	0.1				

July 18 2023 Hour: 8:47 31.0 Lat: 38.75N Lon: 9.52W Depth: 3F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NW CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	109	131	EP		847	48.46	-.130							1.0
GRNL	CE	109	131	ES		848	1.600	.130							1.0
GRNL	CN	109	131	IAML		848	2.70			5	0.2				

July 18 2023 Hour: 10:13 48.0 Lat: 17.97N Lon: 105.77W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Ms IGL Rms: 0.1 secs

OFF COAST OF JALISCO, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9413	52	EP		1026	21.78	-.050							1.0
GRNL	BN	9413	52	ESKsac		1036	44.950	.210							1.0
GRNL	BZ	9413	52	IAMs_20		11 3	11.59			1183	21.9				
MESJ	BZ	9451	52	EP		1026	23.54	-.050							1.0

MESJ BE 9451 52 ESKSac 1036 46.89-.100 1.0
 MESJ BZ 9451 52 IAMs_20 11 5 22.91 1509 21.0

July 18 2023 Hour: 21:53 18.7 Lat: 37.32N Lon: 8.57W Depth: 9F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.2 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	256	EP		2153	20.50	-.200							1.0
MORF	HE	8	256	ES		2153	22.280	.110							1.0
MORF	HN	8	256	IAML		2153	22.63		222	0.2					
MESJ	HZ	65	28	EP		2153	29.340	.040							1.0
MESJ	HN	65	28	ES		2153	37.050	.010							1.0
MESJ	HE	65	28	IAML		2153	38.00		2	0.2					
GRNL	CZ	87	360	EP		2153	33.060	.300							1.0
GRNL	CE	87	360	ES		2153	42.78	-.250							1.0
GRNL	CN	87	360	IAML		2153	45.15		16	0.1					

July 19 2023 Hour: 0:22 6.0 Lat: 12.81N Lon: 88.13W Depth: 70F Agency: IGL Distant
Magnitudes: 6.5Ms IGL Rms: 0.1 secs

OFFSHORE EL SALVADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8186	53	EP		033	31.60	-.070							1.0
GGNV	BE	8186	53	ES		042	56.890	.080							1.0
GGNV	BE	8186	53	IAMs_20		057	30.05		49230	32.8					
MORF	BZ	8240	55	EP		033	34.630	.040							1.0
MORF	BE	8240	55	ES		043	2.530	.140							1.0
MORF	BZ	8240	55	IAMs_20		057	20.64		56003	35.8					
GRNL	BZ	8241	54	EP		033	34.580	.000							1.0
GRNL	BE	8241	54	ES		043	2.33	-.060							1.0
GRNL	BZ	8241	54	IAMs_20		057	36.82		40993	33.2					
MESJ	BZ	8274	54	EP		033	36.19	-.120							1.0
MESJ	BE	8274	54	ES		043	5.70	-.010							1.0
MESJ	BZ	8274	54	IAMs_20		057	45.61		45570	37.2					

July 19 2023 Hour: 4: 2 59.3 Lat: 36.57N Lon: 7.71W Depth: 20F 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	117	314	EP		4 3	17.17	-.200							1.0
MESJ	HZ	148	342	EP		4 3	21.280	.120							1.0
GRNL	CZ	187	336	EP		4 3	26.070	.080							1.0

July 19 2023 Hour: 10:12 28.5 Lat: 7.97S Lon: 74.31W Depth:138F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

NORTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8456	48	EP		1024	1.68	1.13							1.0
MORF	BZ	8456	48	IAMB		1024	4.50		50	1.1					
GRNL	BZ	8496	48	EP		1024	3.310	.810							1.0
GRNL	BZ	8496	48	IAMB		1024	5.30		20	0.8					

July 19 2023 Hour: 21:57 55.1 Lat: 36.93N Lon: 8.70W Depth: 27F 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	42	5	EP		2158	2.870	.100							1.0
MORF	HE	42	5	ES		2158	8.29	-.090							1.0
MORF	HE	42	5	IAML		2158	9.21		25	0.1					
GRNL	CN	131	5	ES		2158	28.44	-.020							1.0
GRNL	CN	131	5	IAML		2158	30.12		4	0.1					

July 20 2023 Hour: 1:36 46.6 Lat: 36.88N Lon: 5.43W Depth: 4F Agency: IGL Regional
Magnitudes: 1.9ML IGL 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	269	294	EP		137	25.00	-.050							1.0
MESJ	HE	269	294	ES		137	53.14	0.010							1.0
MESJ	HN	269	294	IAML		137	55.37			5	0.3				
GRNL	CZ	309	297	EP		137	30.11	0.080							1.0
GRNL	CN	309	297	ES		138	1.70	-.040							1.0
GRNL	CN	309	297	IAML		138	3.83			6	0.2				

July 20 2023 Hour: 3:44 38.9 Lat: 36.86N Lon: 5.41W Depth: 1F Agency: IGL Regional
Magnitudes: 3.2ML 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	271	294	EP		345	18.00	0.040							1.0
MESJ	HN	271	294	ES		345	46.36	-.140							1.0
MESJ	HN	271	294	IAML		345	48.54			113	0.3				
MORF	HZ	292	281	EP		345	20.45	-.150							1.0
MORF	HE	292	281	ES		345	51.18	0.130							1.0
MORF	HN	292	281	IAML		345	55.38			143	0.4				
GRNL	CZ	312	297	EP		345	23.12	0.170							1.0
GRNL	CN	312	297	ES		345	55.07	-.050							1.0
GRNL	CN	312	297	IAML		345	57.30			93	0.4				

July 20 2023 Hour: 3:51 42.3 Lat: 36.87N Lon: 5.45W Depth: 4F Agency: IGL Regional
Magnitudes: 2.5ML IGL 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	268	294	EP		352	20.71	-.010							1.0
MESJ	HE	268	294	ES		352	48.77	0.040							1.0
MESJ	HN	268	294	IAML		352	51.03			17	0.3				
GRNL	CZ	308	297	EP		352	25.72	0.020							1.0
GRNL	CN	308	297	ES		352	57.31	-.050							1.0
GRNL	CN	308	297	IAML		352	59.49			22	0.2				

July 20 2023 Hour: 4: 4 33.2 Lat: 36.88N Lon: 5.45W Depth: 7F 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	268	294	EP		4	5	11.17	-.010						1.0
GRNL	CZ	308	297	EP		4	5	16.17	0.010						1.0

July 20 2023 Hour: 4:17 23.0 Lat: 36.87N Lon: 5.47W Depth: 4F Agency: IGL Regional
Magnitudes: 2.6ML 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	267	295	EP		418	1.03	-.120							1.0
MESJ	HE	267	295	ES		418	29.03	0.020							1.0
MESJ	HN	267	295	IAML		418	31.45			28	0.3				
GRNL	CZ	307	297	EP		418	6.13	-.010							1.0
GRNL	CN	307	297	ES		418	37.76	0.110							1.0
GRNL	CN	307	297	IAML		418	39.93			31	0.2				

July 20 2023 Hour: 7:52 10.5 Lat: 36.87N Lon: 5.46W Depth: 10F 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	268	295	EP		752	48.08	-.050							1.0
GRNL	CZ	308	297	EP		752	53.17	0.050							1.0

July 20 2023 Hour: 9:18 55.8 Lat: 35.42N Lon: 3.62W Depth: 5F Agency: IGL Regional
Magnitudes: 2.5ML 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	491	304	EP		920	1.55	-.020							1.0
MESJ	HN	491	304	ES		920	49.770	.200							1.0
MESJ	HN	491	304	IAML		920	51.43			9	0.3				
MORF	HZ	498	296	EP		920	2.21	-.170							1.0
GRNL	CZ	533	305	EP		920	6.62	-.010							1.0

July 20 2023 Hour: 23: 0 2.4 Lat: 37.28N Lon: 8.00W Depth: 4F Agency: IGL Regional
Rms: 0.0 secs

NE LOULE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	65	343	EP		23 0	12.930	.030							1.0
GRNL	CZ	105	332	EP		23 0	19.27	-.030							1.0

July 21 2023 Hour: 5:40 9.7 Lat: 36.56N Lon: 12.85W Depth: 0 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	416	64	EP		541	2.06	-.240							1.0
GRNL	CN	416	64	ES		541	40.940	.260							1.0
GRNL	CN	416	64	IAML		541	43.29			5	0.2				
MESJ	HZ	435	70	EP		541	4.42	-.140							1.0
MESJ	HN	435	70	ES		541	44.710	.110							1.0
MESJ	HE	435	70	IAML		541	47.48			2	0.1				

July 21 2023 Hour: 19: 1 44.0 Lat: 22.73S Lon: 175.12W Depth: 14F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

TONGA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17809		34	EPKP		1921	42.260	.110							1.0
GGNV	BZ17809		34	IAMs_20		2040	12.24			2948	22.2				
GRNL	BZ17893		34	EPKP		1921	43.040	.030							1.0
GRNL	BZ17893		34	IAMs_20		2043	54.17			1697	12.8				
MESJ	BZ17936		34	EPKP		1921	43.35	-.090							1.0
MESJ	BN17936		34	ESS		1946	26.63	-.180							1.0
MESJ	BZ17936		34	IAMs_20		2028	34.21			1432	21.4				
MORF	BZ17955		36	EPKP		1921	43.810	.130							1.0
MORF	BZ17955		36	IAMs_20		2031	53.69			2207	16.5				

July 22 2023 Hour: 9:35 8.5 Lat: 37.33N Lon: 8.55W Depth: 10F 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	9	254	EP		935	10.69	-.100							1.0
MORF	HN	9	254	ES		935	12.590	.160							1.0
MORF	HN	9	254	IAML		935	13.04			91	0.1				
GRNL	CE	87	359	ES		935	32.57	-.060							1.0
GRNL	CN	87	359	IAML		935	33.33			5	0.1				

July 22 2023 Hour: 10:28 23.1 Lat: 30.57N Lon: 41.85W Depth: 12F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

NORTHERN MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	3142	67	EP		1034	16.190	.040							1.0
MORF	BZ	3142	67	IAMB		1034	17.16			27	1.1				
MESJ	BZ	3184	66	EP		1034	19.47	-.040							1.0
MESJ	BZ	3184	66	IAMB		1034	19.98			14	0.8				

July 22 2023 Hour: 11:28 26.6 Lat: 37.73N Lon: 8.33W Depth: 7F Agency: IGL Regional
Magnitudes: 0.1ML 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	16	40	EP		1128	29.530	.160							1.0
MESJ	HN	16	40	ES		1128	31.36	-.040							1.0
MESJ	HE	16	40	IAML		1128	31.51			7	0.1				
GRNL	CZ	47	334	EP		1128	34.18	-.020							1.0
GRNL	CN	47	334	ES		1128	39.65	-.100							1.0
GRNL	CN	47	334	IAML		1128	40.21			2	0.1				

July 22 2023 Hour: 12:31 37.3 Lat: 37.08N Lon: 8.35W Depth: 10F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

W ALBUFEIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	37	312	EP		1231	43.10	-.280							1.0
MORF	HN	37	312	ES		1231	48.000	.150							1.0
MORF	HE	37	312	IAML		1231	48.74			24	0.3				
MESJ	HZ	85	8	EP		1231	50.960	.090							1.0
MESJ	HN	85	8	ES		1232	0.810	.010							1.0
MESJ	HN	85	8	IAML		1232	2.36			3	0.1				
GRNL	CN	115	350	ES		1232	8.900	.050							1.0
GRNL	CN	115	350	IAML		1232	10.09			4	0.2				

July 22 2023 Hour: 15:17 37.6 Lat: 36.56N Lon: 9.74W Depth: 48F Agency: IGL Regional
Magnitudes: 0.9ML 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	128	49	EP		1517	56.460	.000							1.0
MORF	HN	128	49	ES		1518	10.18	-.030							1.0
MORF	HN	128	49	IAML		1518	10.43			2	0.1				
GRNL	CN	201	31	ES		1518	25.770	.030							1.0
GRNL	CN	201	31	IAML		1518	26.51			1	0.1				

July 22 2023 Hour: 17:33 1.1 Lat: 37.31N Lon: 8.55W Depth: 13F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.2 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	269	EP		1733	3.43	-.280							1.0
MORF	HN	9	269	ES		1733	5.700	.060							1.0
MORF	HE	9	269	IAML		1733	6.04			39	0.1				
MESJ	HZ	66	26	EP		1733	11.63	-.080							1.0
MESJ	HN	66	26	ES		1733	19.43	-.060							1.0
MESJ	HN	66	26	IAML		1733	20.74			2	0.0				
GRNL	CZ	89	359	EP		1733	15.590	.370							1.0
GRNL	CN	89	359	ES		1733	25.580	.010							1.0
GRNL	CN	89	359	IAML		1733	26.07			9	0.1				

July 22 2023 Hour: 22: 3 29.5 Lat: 35.39N Lon: 3.63W Depth: 19F 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	493	305	EP		22 4	34.210	.150							1.0
GRNL	CZ	535	306	EP		22 4	38.98	-.150							1.0

July 23 2023 Hour: 1:18 59.5 Lat: 36.79N Lon: 9.68W Depth: 21F 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	107	58	EP		119	16.460	.150							1.0
MORF	HN	107	58	ES		119	28.750	.160							1.0
MORF	HN	107	58	IAML		119	29.52			22	0.2				
MESJ	HZ	174	48	EP		119	24.38	-.130							1.0

MESJ HN	174	48	ES	119	42.74	-.040											1.0
MESJ HN	174	48	IAML	119	43.76					3	0.1						
GRNL CZ	176	34	EP	119	24.55	-.210											1.0
GRNL CE	176	34	ES	119	43.260	.050											1.0
GRNL CN	176	34	IAML	119	46.12					9	0.0						

July 23 2023 Hour: 1:33 53.2 Lat: 37.73N Lon: 8.34W Depth: 3F Agency: IGL Regional
Magnitudes: 0.5ML 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		16	43	EP		133	55.920	.100							1.0
MESJ HN		16	43	ES		133	57.780	.020							1.0
MESJ HE		16	43	IAML		133	57.97			13	0.1				
GRNL CZ		46	335	EP		134	0.55	-.080							1.0
GRNL CE		46	335	ES		134	6.03	-.040							1.0
GRNL CN		46	335	IAML		134	6.12			4	0.2				

July 23 2023 Hour: 1:53 35.1 Lat: 37.73N Lon: 8.35W Depth: 3F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs

NW OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ		16	44	EP		153	37.830	.050							1.0
MESJ HE		16	44	ES		153	39.73	-.010							1.0
MESJ HE		16	44	IAML		153	39.86			31	0.1				
GRNL CZ		46	335	EP		153	42.48	-.040							1.0
GRNL CN		46	335	ES		153	47.94	-.010							1.0

July 23 2023 Hour: 1:53 35.7 Lat: 37.75N Lon: 8.31W Depth: 10F Agency: IGL Regional
Magnitudes: 1.4ML 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		13	39	EP		153	38.560	.240							1.0
MESJ HN		13	39	ES		153	40.240	.010							1.0
MESJ HN		13	39	IAML		153	40.55			141	0.1				
GRNL CZ		46	330	EP		153	43.14	-.110							1.0
GRNL CE		46	330	ES		153	48.63	-.140							1.0
GRNL CN		46	330	IAML		153	49.25			31	0.1				

July 23 2023 Hour: 1:54 56.2 Lat: 37.74N Lon: 8.34W Depth: 5F 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		15	42	EP		154	58.970	.140							1.0
MESJ HN		15	42	ES		155	0.800	.060							1.0
MESJ HN		15	42	IAML		155	0.97			12	0.1				
GRNL CZ		46	334	EP		155	3.62	-.040							1.0
GRNL CN		46	334	ES		155	8.94	-.160							1.0
GRNL CN		46	334	IAML		155	9.34			3	0.2				

July 23 2023 Hour: 1:57 15.3 Lat: 37.73N Lon: 8.34W Depth: 6F Agency: IGL Regional
Magnitudes: 0.6ML 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		16	41	EP		157	18.140	.170							1.0
MESJ HN		16	41	ES		157	19.980	.040							1.0
MESJ HN		16	41	IAML		157	20.15			19	0.1				
GRNL CZ		46	334	EP		157	22.77	-.040							1.0
GRNL CN		46	334	ES		157	28.14	-.170							1.0
GRNL CN		46	334	IAML		157	28.84			6	0.1				

July 23 2023 Hour: 2:120.5 Lat: 37.75N Lon: 8.31W Depth: 12F Agency: IGL Regional
 Magnitudes: 0.8ML 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	13	39	EP		2	1	23.570	.160						1.0
MESJ	HE	13	39	ES		2	1	25.40	-.110						1.0
MESJ	HN	13	39	IAML		2	1	25.58		29	0.1				
GRNL	CZ	46	331	EP		2	1	28.190	.060						1.0
GRNL	CN	46	331	ES		2	1	33.58	-.100						1.0
GRNL	CN	46	331	IAML		2	1	34.25		8	0.1				

July 23 2023 Hour: 3:28 28.5 Lat: 37.74N Lon: 8.31W Depth: 13F Agency: IGL Regional
 Magnitudes: 0.7ML 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	14	36	EP		328	31.690	.170							1.0
MESJ	HN	14	36	ES		328	33.56	-.190							1.0
MESJ	HN	14	36	IAML		328	33.72			17	0.1				
GRNL	CZ	47	331	EP		328	36.320	.100							1.0
GRNL	CN	47	331	ES		328	41.80	-.080							1.0
GRNL	CN	47	331	IAML		328	42.39			6	0.2				

July 23 2023 Hour: 3:29 15.1 Lat: 37.74N Lon: 8.33W Depth: 9F 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	15	41	EP		329	18.100	.140							1.0
MESJ	HN	15	41	ES		329	19.96	-.070							1.0
MESJ	HN	15	41	IAML		329	20.11			16	0.1				
GRNL	CZ	46	333	EP		329	22.750	.040							1.0
GRNL	CN	46	333	ES		329	28.14	-.110							1.0
GRNL	CN	46	333	IAML		329	28.30			3	0.1				

July 23 2023 Hour: 8:52 20.5 Lat: 37.76N Lon: 8.31W Depth: 12F Agency: IGL Regional
 Magnitudes: 0.6ML 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	40	EP		852	23.310	.130							1.0
MESJ	HN	12	40	ES		852	25.13	-.050							1.0
MESJ	HN	12	40	IAML		852	25.31			20	0.1				
GRNL	CZ	45	329	EP		852	27.93	-.030							1.0
GRNL	CN	45	329	ES		852	33.40	-.050							1.0
GRNL	CN	45	329	IAML		852	34.00			5	0.1				

July 23 2023 Hour: 10:55 59.9 Lat: 12.67N Lon: 44.56W Depth: 10F Agency: IGL Distant
 Magnitudes: 4.8Mb IGL Rms: 0.1 secs
 NORTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	4543	45	EP		11	3	41.56	-.010						1.0
GRNL	BZ	4543	45	IAMB		11	3	47.78		14	1.2				
GRNL	BE	4543	45	ES		11	9	53.48	-.040						1.0
MESJ	BZ	4555	46	EP		11	3	42.40	-.130						1.0
MESJ	BZ	4555	46	IAMB		11	3	45.87		61	1.7				
MESJ	BN	4555	46	ES		11	9	55.440	.180						1.0

July 23 2023 Hour: 15:29 48.8 Lat: 38.71N Lon: 7.85W Depth: 18F Agency: IGL Regional
 Magnitudes: 0.5ML IGL Rms: 0.0 secs
 E ARRAILOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	92	223	EP		1530	3.41	-.020							1.0
GRNL	CN	92	223	ES		1530	14.160	.020							1.0
GRNL	CN	92	223	IAML		1530	14.83			1	0.1				

July 23 2023 Hour: 17:24 19.2 Lat: 38.18N Lon: 13.54W Depth: 93F 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
GRNL	CZ	436	90	EP		1725	13.94	-.170							1.0
GRNL	CN	436	90	ES		1725	54.280	.100							1.0
GRNL	CN	436	90	IAML		1725	56.40			5	0.2				
MORF	HZ	441	101	EP		1725	14.70	-.150							1.0
MORF	HE	441	101	ES		1725	55.680	.220							1.0
MORF	HN	441	101	IAML		1725	56.60			4	0.3				

July 23 2023 Hour: 18:52 50.1 Lat: 36.70N Lon: 9.70W Depth: 16F 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	114	54	EP		1853	8.330	.130							1.0
MORF	HN	114	54	ES		1853	21.440	.060							1.0
MORF	HN	114	54	IAML		1853	22.52			8	0.1				
MESJ	HZ	182	46	EP		1853	16.62	-.010							1.0
MESJ	HE	182	46	ES		1853	35.96	-.000							1.0
MESJ	HE	182	46	IAML		1853	36.71			1	0.1				
GRNL	CN	185	32	ES		1853	36.49	-.190							1.0
GRNL	CN	185	32	IAML		1853	37.67			4	0.1				

July 24 2023 Hour: 2:50 0.5 Lat: 24.11S Lon: 178.70E Depth: 546F Agency: IGL Distant
Rms: 0.1 secs

SOUTH OF FIJI ISLANDS Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18245	23	EPK	Pdf		3 9	0.57	-.040							1.0
GGNV	BZ18245	23	EPK	Pab		3 9	57.82	-.040							1.0
GRNL	BZ18328	22	EPK	Pdf		3 9	1.450	.160							1.0
GRNL	BZ18328	22	EPK	Pab		310	1.310	.130							1.0
MESJ	BZ18368	22	EPK	Pdf		3 9	1.50	-.110							1.0
MESJ	BZ18368	22	EPK	Pab		310	2.70	-.100							1.0
MORF	BZ18404	24	EPK	Pdf		3 9	1.76	-.180							1.0
MORF	BZ18404	24	EPK	Pab		310	4.490	.190							1.0

July 24 2023 Hour: 8:12 38.9 Lat: 36.80N Lon: 8.19W Depth: 17F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	69	324	EP		812	50.420	.280							1.0
MORF	HN	69	324	ES		812	58.14	-.210							1.0
MORF	HN	69	324	IAML		812	59.64			36	0.1				
MESJ	HE	115	359	ES		813	10.17	-.070							1.0
MESJ	HE	115	359	IAML		813	12.68			6	0.1				

July 24 2023 Hour: 16:34 50.1 Lat: 39.30N Lon: 11.85W Depth: 10F Agency: IGL Regional
Magnitudes: 2.5ML 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	315	114	EP		1635	29.39	-.150							1.0
GRNL	CN	315	114	ES		1635	58.610	.320							1.0
GRNL	CN	315	114	IAML		1636	0.88			35	0.1				
MESJ	HZ	356	116	EP		1635	34.54	-.020							1.0
MESJ	HN	356	116	ES		1636	7.030	.030							1.0
MESJ	HN	356	116	IAML		1636	8.73			8	0.1				
MORF	HZ	357	127	EP		1635	34.59	-.190							1.0

July 25 2023 Hour: 0:16 51.4 Lat: 37.31N Lon: 8.56W Depth: 7F 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	269	EP		016	53.06	-.180							1.0
MORF	HN	9	269	ES		016	54.770	.180							1.0
MORF	HN	9	269	IAML		016	55.21			57	0.1				
MESJ	HN	66	26	ES		017	9.86	-.100							1.0
MESJ	HE	66	26	IAML		017	12.12			1	0.0				
GRNL	CZ	89	359	EP		017	5.920	.130							1.0
GRNL	CN	89	359	ES		017	16.29	-.020							1.0
GRNL	CN	89	359	IAML		017	17.36			4	0.2				

July 25 2023 Hour: 1:14 27.5 Lat: 36.89N Lon: 8.65W Depth: 28F 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	46	360	EP		114	35.74	-.050							1.0
MORF	HE	46	360	ES		114	42.070	.220							1.0
MORF	HE	46	360	IAML		114	42.81			22	0.2				
MESJ	HE	112	20	ES		114	56.55	-.120							1.0
MESJ	HN	112	20	IAML		114	59.65			2	0.1				
GRNL	CN	135	3	ES		115	1.60	-.070							1.0
GRNL	CN	135	3	IAML		115	1.92			2	0.1				

July 25 2023 Hour: 5:44 50.9 Lat: 37.58N Lon: 35.96E Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Ms IGL Rms: 0.1 secs
CENTRAL TURKEY Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3858	284	EP		551	40.950	.080							1.0
MESJ	BN	3858	284	ES		557	11.71	-.070							1.0
MESJ	BZ	3858	284	IAMs_20		611	17.06			2152	20.8				
GRNL	BZ	3881	285	EP		551	42.890	.260							1.0
GRNL	BN	3881	285	ES		557	14.940	.010							1.0
GRNL	BZ	3881	285	IAMs_20		6	8	49.75		2132	15.9				
GGNV	BN	3916	286	ES		557	19.920	.290							1.0
GGNV	BZ	3916	286	IAMs_20		6	7	48.56		2487	18.2				

July 25 2023 Hour: 17:19 28.5 Lat: 36.66N Lon: 8.24W Depth: 21F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	81	333	EP		1719	41.540	.040							1.0
MORF	HE	81	333	ES		1719	50.98	-.040							1.0
MORF	HE	81	333	IAML		1719	51.22			15	0.2				

July 25 2023 Hour: 18:37 55.8 Lat: 36.02N Lon: 7.39W Depth: 30F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	215	340	EP		1838	25.30	-.020							1.0
MESJ	HN	215	340	ES		1838	46.910	.070							1.0
MESJ	HN	215	340	IAML		1838	49.83			4	0.1				
GRNL	CZ	254	336	EP		1838	30.200	.010							1.0
GRNL	CN	254	336	ES		1838	55.21	-.070							1.0
GRNL	CN	254	336	IAML		1838	59.88			5	0.2				

July 26 2023 Hour: 0:28 21.1 Lat: 38.63N Lon: 9.22W Depth: 1 Agency: IGL Regional
 Magnitudes: 0.9ML IGL Rms: 0.1 secs
 SW ALMADA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	82	136	EP		028	34.17	-.110							1.0
GRNL	CE	82	136	ES		028	44.000	.110							1.0
GRNL	CN	82	136	IAML		028	45.83			4	0.1				

July 26 2023 Hour: 8: 5 29.8 Lat: 36.83N Lon: 8.90W Depth: 29F Agency: IGL Regional
 Magnitudes: 2.5ML 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	58	23	EP		8 5	39.880	.210							1.0
MORF	HN	58	23	ES		8 5	46.85	-.050							1.0
MORF	HN	58	23	IAML		8 5	47.59			437	0.2				
MESJ	HZ	128	28	EP		8 5	48.52	-.010							1.0
MESJ	HN	128	28	ES		8 6	2.280	.050							1.0
MESJ	HN	128	28	IAML		8 6	4.14			60	0.1				
GRNL	CZ	146	12	EP		8 5	50.46	-.250							1.0
GRNL	CE	146	12	ES		8 6	6.030	.030							1.0
GRNL	CN	146	12	IAML		8 6	7.30			50	0.2				

July 26 2023 Hour: 12:44 36.0 Lat: 14.76S Lon: 167.93E Depth: 10F Agency: IGL Distant
 Magnitudes: 6.4Ms 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	BZ17362	354	EPKp \bar{d} f			13 4	29.830	.090							1.0
GGNV	BZ17362	354	IAMs_20			1415	17.97			6781	22.0				
GRNL	BZ17422	353	EPKp \bar{d} f			13 4	30.30	-.170							1.0
GRNL	BZ17422	353	EPP			13 8	37.970	.120							1.0
GRNL	BZ17422	353	IAMs_20			14 6	58.46			6794	26.9				
MESJ	BZ17447	352	EPKp \bar{d} f			13 4	30.820	.050							1.0
MESJ	BZ17447	352	EPP			13 8	39.180	.090							1.0
MESJ	BE17447	352	ESS			1328	32.79	-.090							1.0
MESJ	BZ17447	352	IAMs_20			1414	47.46			6557	24.2				
MORF	BZ17511	353	EPKp \bar{d} f			13 4	31.640	.070							1.0
MORF	BZ17511	353	EPP			13 8	42.16	-.190							1.0
MORF	BZ17511	353	IAMs_20			1411	27.03			7993	24.7				

July 26 2023 Hour: 15:29 18.9 Lat: 54.65N Lon: 160.99W Depth: 40F Agency: IGL Distant
 Magnitudes: 5.2Mb IGL Rms: 0.1 secs
 ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9399	22	EP		1541	47.650	.070							1.0
GRNL	BZ	9399	22	IAMB		1541	49.24			19	0.5				
MESJ	BZ	9436	21	EP		1541	49.20	-.070							1.0
MESJ	BZ	9436	21	IAMB		1541	50.67			9	0.9				

July 26 2023 Hour: 17:52 51.7 Lat: 38.65N Lon: 3.33W Depth: 22F Agency: IGL Regional
 Magnitudes: 2.4ML IGL Rms: 0.1 secs
 SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	438	260	EP		1753	49.500	.120							1.0
MESJ	HN	438	260	ES		1754	31.25	-.190							1.0
MESJ	HN	438	260	IAML		1754	33.86			5	0.1				
MORF	HZ	491	254	EP		1753	55.900	.010							1.0
MORF	HN	491	254	ES		1754	42.790	.070							1.0
MORF	HN	491	254	IAML		1754	45.81			12	0.3				

July 27 2023 Hour: 1:51 40.0 Lat: 36.62N Lon: 9.75W Depth: 17F 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	124	52	EP		151	59.220	.020							1.0
MORF	HN	124	52	ES		152	13.390	.180							1.0
MORF	HN	124	52	IAML		152	14.17			3	0.1				
GRNL	CZ	195	32	EP		152	7.96	-.100							1.0
GRNL	CN	195	32	ES		152	28.43	-.120							1.0
GRNL	CN	195	32	IAML		152	31.22			3	0.1				

July 27 2023 Hour: 5:19 20.2 Lat: 36.66N Lon: 7.57W Depth: 31F 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	120	307	EP		519	36.91	-.220							1.0
MORF	HN	120	307	ES		519	49.39	-.100							1.0
MORF	HN	120	307	IAML		519	51.32			31	0.2				
MESJ	HZ	143	336	EP		519	39.91	-.030							1.0
MESJ	HE	143	336	ES		519	54.570	.220							1.0
MESJ	HE	143	336	IAML		519	56.61			6	0.1				
GRNL	CZ	183	331	EP		519	44.93	-.030							1.0
GRNL	CN	183	331	ES		520	3.200	.170							1.0
GRNL	CN	183	331	IAML		520	3.81			5	0.1				

July 27 2023 Hour: 11:18 23.4 Lat: 39.63N Lon: 8.23W Depth: 8F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.1 secs

SW VILA DE REI, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	171	190	EP		1118	49.26	-.030							1.0
MESJ	HZ	198	180	EP		1118	52.690	.000							1.0
MESJ	HE	198	180	ES		1119	14.200	.130							1.0
MESJ	HE	198	180	IAML		1119	18.75			122	0.4				
MORF	HZ	260	188	EP		1119	0.31	-.110							1.0

July 27 2023 Hour: 12:23 16.0 Lat: 37.30N Lon: 8.54W Depth: 9F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	273	EP		1223	18.17	-.140							1.0
MORF	HN	10	273	ES		1223	20.000	.040							1.0
MORF	HE	10	273	IAML		1223	20.28			70	0.1				
GRNL	CZ	90	358	EP		1223	30.580	.110							1.0

July 27 2023 Hour: 19:58 11.3 Lat: 36.29N Lon: 11.34W Depth: 30F 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	264	64	EP		1958	46.95	-.030							1.0
MORF	HE	264	64	ES		1959	13.100	.060							1.0
MORF	HE	264	64	IAML		1959	13.45			3	0.1				
GRNL	CZ	318	50	EP		1958	53.550	.000							1.0
GRNL	CN	318	50	ES		1959	24.480	.080							1.0
GRNL	CN	318	50	IAML		1959	25.40			3	0.1				
MESJ	HN	326	57	ES		1959	26.08	-.110							1.0
MESJ	HE	326	57	IAML		1959	27.41			1	0.1				

July 27 2023 Hour: 20:17 17.3 Lat: 38.27N Lon: 7.98W Depth: 1F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs
NE ALVITO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	52	204	EP		2017	25.73	-.040							1.0
MESJ	HE	52	204	ES		2017	31.76	-.180							1.0
MESJ	HN	52	204	IAML		2017	32.25			1	0.1				
GRNL	CZ	55	251	EP		2017	26.280	.150							1.0
GRNL	CE	55	251	ES		2017	32.650	.080							1.0
GRNL	CN	55	251	IAML		2017	33.38			3	0.2				

July 27 2023 Hour: 20:50 16.8 Lat: 36.54N Lon: 9.79W Depth: 12F 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	132	50	EP		2050	37.570	.070							1.0
MORF	HE	132	50	ES		2050	52.50	-.100							1.0
MORF	HE	132	50	IAML		2050	55.01			28	0.2				
MESJ	HZ	201	43	EP		2050	46.020	.050							1.0
MESJ	HE	201	43	ES		2051	7.440	.190							1.0
MESJ	HE	201	43	IAML		2051	10.03			7	0.1				
GRNL	CZ	205	31	EP		2050	46.37	-.150							1.0
GRNL	CE	205	31	ES		2051	8.13	-.060							1.0
GRNL	CN	205	31	IAML		2051	10.60			20	0.2				

July 27 2023 Hour: 21:34 46.2 Lat: 35.57N Lon: 9.58W Depth: 1 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	210	23	EP		2135	17.650	.110							1.0
MORF	HN	210	23	ES		2135	40.29	-.140							1.0
MORF	HE	210	23	IAML		2135	41.71			12	0.2				
MESJ	HZ	280	25	EP		2135	26.390	.190							1.0
GRNL	CZ	296	18	EP		2135	28.05	-.140							1.0
GRNL	CN	296	18	ES		2135	58.84	-.030							1.0
GRNL	CN	296	18	IAML		2136	0.63			4	0.1				

July 28 2023 Hour: 1:38 25.0 Lat: 1.94S Lon: 78.04W Depth: 140F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.1 secs
ECUADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8340	51	EP		149	50.870	.050							1.0
MORF	BZ	8340	51	IAMB		149	53.34			57	1.4				
GRNL	BZ	8369	50	EP		149	52.300	.030							1.0
GRNL	BZ	8369	50	IAMB		149	53.72			34	1.4				
MESJ	BZ	8391	50	EP		149	53.34	-.090							1.0
MESJ	BZ	8391	50	IAMB		149	53.80			4	0.7				

July 28 2023 Hour: 7:58 56.0 Lat: 30.48S Lon: 59.76E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.1 secs
SOUTHWEST INDIAN RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10342	313	313	EP		812	9.41	-.080							1.0
MESJ	BZ10342	313	313	IAMB		812	22.79			62	1.9				
GRNL	BZ10385	313	313	EP		812	11.310	.080							1.0
GRNL	BZ10385	313	313	IAMB		812	24.51			32	1.6				

July 28 2023 Hour: 17:38 1.1 Lat: 18.01S Lon: 178.44W Depth:599F Agency: IGL Distant
Rms: 0.0 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ17594	22	EP	KPab		1757	28.080	.020							1.0
MESJ	BZ17635	21	EP	KPab		1757	29.64-	.020							1.0

July 28 2023 Hour: 19:11 21.4 Lat: 59.01N Lon: 153.98W Depth:114F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

SOUTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ 8779	27	EP			1923	12.450	.020							1.0
GRNL	BZ 8779	27	I	Amb		1923	13.82			45	0.8				
MESJ	BZ 8816	27	EP			1923	14.25-	.030							1.0
MESJ	BZ 8816	27	I	Amb		1923	15.58			30	1.2				
MORF	BZ 8862	27	EP			1923	16.550	.000							1.0
MORF	BZ 8862	27	I	Amb		1923	17.43			49	1.1				

July 28 2023 Hour: 19:23 48.0 Lat: 10.53N Lon: 93.54E Depth:102F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs

ANDAMAN ISLANDS, INDIA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10323	309	EP			1936	49.000	.020							1.0
MESJ	BZ10323	309	I	Amb		1936	50.55			66	1.2				
MESJ	BZ10323	309	E	P		1940	31.63-	.040							1.0
MESJ	BN10323	309	E	S	Sac	1947	12.430	.010							1.0
GRNL	BZ10344	309	EP			1936	49.910	.060							1.0
GRNL	BZ10344	309	I	Amb		1936	51.56			73	1.3				
GRNL	BZ10344	309	E	P		1940	33.290	.120							1.0
GRNL	BN10344	309	E	S	Sac	1947	13.44-	.030							1.0
GGNV	BE10374	310	E	S	Sac	1947	15.060	.110							1.0
MORF	BZ10375	309	EP			1936	50.98-	.230							0.9
MORF	BZ10375	309	I	Amb		1936	53.47			36	1.0				
MORF	BZ10375	309	E	P		1940	35.450	.020							1.0
MORF	BN10375	309	E	S	Sac	1947	15.07-	.070							1.0

July 28 2023 Hour: 22:47 7.0 Lat: 35.77N Lon: 4.64W Depth: 72F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ 393	307	EP			2247	58.03-	.180							1.0
MESJ	HN 393	307	ES			2248	36.020	.460							1.0
MESJ	HE 393	307	I	A	M	2248	38.95			6	0.1				
MORF	HZ 398	296	EP			2247	58.52-	.230							1.0
GRNL	CZ 436	308	EP			2248	3.10-	.070							1.0
GRNL	CN 436	308	ES			2248	44.160	.020							1.0
GRNL	CN 436	308	I	A	M	2248	46.73			6	0.1				

July 29 2023 Hour: 5:39 55.9 Lat: 36.58N Lon: 7.50W Depth: 14F 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 154	336	EP			540	19.150	.060							1.0
GRNL	CZ 195	331	EP			540	24.05-	.070							1.0

July 29 2023 Hour: 12:24 11.5 Lat: 35.79N Lon: 9.97W Depth: 31F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ 206	35	EP			1224	39.090	.010							1.0
MORF	HE 206	35	ES			1224	59.290	.080							1.0
MORF	HE 206	35	I	A	M	1224	59.79			22	0.1				
MESJ	HZ 276	34	EP			1224	47.910	.090							1.0

MESJ	HN	276	34	ES		1225	14.510	.180										1.0
MESJ	HE	276	34	IAML		1225	15.88			2	0.2							
GRNL	CZ	286	25	EP		1224	48.69	-.370										1.0
GRNL	CE	286	25	ES		1225	16.490	.010										1.0
GRNL	CN	286	25	IAML		1225	18.49			10	0.1							

July 30 2023 Hour: 1:10 29.2 Lat: 12.81N Lon: 90.84W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Ms IGL Rms: 0.1 secs

OFF THE COAST OF GUATEMALA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8422	53	EP		122	14.88	-.020							1.0
GGNV	BZ	8422	53	IAMs_20		151	54.64			1810	25.3				
GRNL	BZ	8479	54	EP		122	17.880	.050							1.0
GRNL	BZ	8479	54	IAMs_20		146	43.10			2138	29.4				
MORF	BZ	8480	54	EP		122	17.88	-.090							1.0
MORF	BZ	8480	54	IAMs_20		146	32.16			2436	33.3				
MESJ	BZ	8513	54	EP		122	19.48	-.070							1.0
MESJ	BE	8513	54	ES		132	6.240	.130							1.0
MESJ	BZ	8513	54	IAMs_20		146	59.25			3120	47.0				

July 30 2023 Hour: 4:11 4.8 Lat: 38.68N Lon: 0.66W Depth: 2F Agency: IGL Regional
Magnitudes: 0.0secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	668	264	EP		412	32.380	.030							1.0
GRNL	CZ	694	267	EP		412	35.41	-.030							1.0

July 30 2023 Hour: 8:39 5.5 Lat: 36.69N Lon: 7.55W Depth: 22F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	141	335	EP		839	26.520	.190							1.0
MESJ	HE	141	335	ES		839	41.48	-.070							1.0
MESJ	HN	141	335	IAML		839	43.94			1	0.1				
GRNL	CN	182	330	ES		839	50.17	-.120							1.0
GRNL	CN	182	330	IAML		839	50.45			2	0.2				

July 30 2023 Hour: 12:54 58.9 Lat: 38.04N Lon: 8.59W Depth: 6F Agency: IGL Regional
Magnitudes: 0.1secs

NE SANTIAGO DO CACEM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	8	14	EP		1255	0.41	-.100							1.0
GRNL	CN	8	14	ES		1255	1.800	.100							1.0

July 30 2023 Hour: 15:42 51.1 Lat: 35.71N Lon: 8.86W Depth: 32F 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	178	6	EP		1543	16.01	-.020							1.0
MORF	HN	178	6	ES		1543	34.250	.040							1.0
MORF	HN	178	6	IAML		1543	35.83			5	0.1				
GRNL	CN	268	5	ES		1543	53.36	-.020							1.0
GRNL	CN	268	5	IAML		1543	54.58			1.00	0.1				

July 30 2023 Hour: 16:17 42.7 Lat: 38.26N Lon: 8.66W Depth: 11F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 secs

NW GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	18	154	EP		1617	45.95	-.130							1.0
GRNL	CN	18	154	ES		1617	48.720	.130							1.0
GRNL	CE	18	154	IAML		1617	49.07			5	0.1				

July 30 2023 Hour: 16:25 22.2 Lat: 36.54N Lon: 9.75W Depth: 32F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	130	49	EP		1625	41.250	.120							1.0
MESJ	HZ	198	43	EP		1625	49.60	-.020							1.0
MESJ	HN	198	43	ES		1626	9.670	.060							1.0
MESJ	HN	198	43	IAML		1626	10.98		14	0.1					
GRNL	CZ	203	31	EP		1625	50.09	-.140							1.0
GRNL	CN	203	31	ES		1626	10.63	-.030							1.0
GRNL	CN	203	31	IAML		1626	11.13		40	0.1					

July 30 2023 Hour: 16:53 3.9 Lat: 35.50N Lon: 3.62W Depth: 9F 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	486	304	EP		1654	8.58	-.010							1.0
GRNL	CZ	528	305	EP		1654	13.640	.010							1.0

July 31 2023 Hour: 3:42 37.1 Lat: 35.45N Lon: 3.63W Depth: 4F 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	488	304	EP		343	42.49	-.090							1.0
GRNL	CZ	530	305	EP		343	47.740	.100							1.0

July 31 2023 Hour: 14:12 21.1 Lat: 35.59N Lon: 6.87W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	277	335	EP		1412	57.49	-.050							1.0
GRNL	CZ	318	332	EP		1413	2.50	-.080							1.0
GRNL	CN	318	332	ES		1413	33.030	.130							1.0
GRNL	CN	318	332	IAML		1413	35.02		3	0.2					

August 1 2023 Hour: 4:39 37.0 Lat: 35.35N Lon: 3.62W Depth: 26F Agency: IGL Regional
Magnitudes: 2.9ML 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	495	305	EP		440	41.16	-.140							1.0
MESJ	HN	495	305	ES		441	28.460	.220							1.0
MESJ	HN	495	305	IAML		441	31.71		23	0.3					
MORF	HZ	501	297	EP		440	41.97	-.040							1.0
GRNL	CZ	537	306	EP		440	46.33	-.050							1.0

August 1 2023 Hour: 7:24 57.5 Lat: 36.33N Lon: 7.79W Depth: 17F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	209	341	EP		725	27.28	-.000							1.0

August 1 2023 Hour: 9:39 35.8 Lat: 10.14S Lon: 161.15E Depth: 90F Agency: IGL Distant
Rms: 0.0 secs

SOLOMON ISLANDS Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ16770	343	EPKP			959	17.65	-.060							1.0
MESJ	BZ16787	343	EPKP			959	18.150	.060							1.0

August 1 2023 Hour: 17:15 25.5 Lat: 15.20N Lon: 39.53E Depth: 10F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs
ERITREA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5308	308	EP		1724	2.25	-.000							1.0
MESJ	BZ	5308	308	IAmb		1724	3.28			95	1.0				
MESJ	BZ	5308	308	EPP		1725	53.980	.180							1.0
MORF	BZ	5330	307	EP		1724	3.67	-.180							1.0
MORF	BZ	5330	307	IAmb		1724	3.98			114	1.9				
MORF	BZ	5330	307	EPP		1725	55.690	.020							1.0
GRNL	BZ	5345	308	EP		1724	4.860	.020							1.0
GRNL	BZ	5345	308	IAmb		1724	6.01			90	0.9				
GRNL	BZ	5345	308	EPP		1725	56.83	-.030							1.0

August 2 2023 Hour: 1:32 35.6 Lat: 21.61S Lon: 179.31W Depth: 621F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs
FIJI REGION Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	17911	24	EPKPab		152	13.100	.150							1.0
GRNL	BZ	17995	24	EPKPdf		151	26.01	-.020							1.0
GRNL	BZ	17995	24	EPKPab		152	16.310	.030							1.0
MESJ	BZ	18035	23	EPKPdf		151	26.460	.050							1.0
MESJ	BZ	18035	23	EPKPab		152	17.81	-.100							1.0
MORF	BZ	18069	25	EPKPdf		151	26.74	-.030							1.0
MORF	BZ	18069	25	EPKPab		152	19.24	-.070							1.0

August 2 2023 Hour: 2:58 35.4 Lat: 35.14N Lon: 9.23W Depth: 31F Agency: IGL Regional
Magnitudes: 2.4ML 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	245	12	EP		259	7.970	.040							1.0
MORF	HE	245	12	ES		259	31.50	-.180							1.0
MORF	HN	245	12	IAML		259	33.38			18	0.1				
MESJ	HZ	313	16	EP		259	16.420	.170							1.0
GRNL	CZ	334	10	EP		259	18.89	-.060							1.0
GRNL	CN	334	10	ES		259	50.780	.040							1.0
GRNL	CN	334	10	IAML		259	52.77			18	0.1				

August 2 2023 Hour: 3:36 22.6 Lat: 15.14N Lon: 39.36E Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs
ERITREA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	5334	308	EP		345	1.190	.000							1.0
GRNL	BZ	5334	308	IAmb		345	3.45			21	1.2				

August 2 2023 Hour: 5:13 31.5 Lat: 15.21N Lon: 39.33E Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs
ERITREA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5290	308	EP		522	7.00	-.040							1.0
MESJ	BZ	5290	308	IAmb		522	9.07			7	0.7				
GRNL	BZ	5327	308	EP		522	9.670	.040							1.0
GRNL	BZ	5327	308	IAmb		522	10.68			15	0.9				

August 2 2023 Hour: 22:17 35.1 Lat: 35.87N Lon: 4.60W Depth: 23F 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	390	305	EP		2218	27.180	.100							1.0
MESJ	HN	390	305	ES		2219	4.99	-.040							1.0
MESJ	HN	390	305	IAML		2219	6.70			4	0.2				
GRNL	CZ	432	306	EP		2218	32.16	-.060							1.0

August 3 2023 Hour: 1:25 21.1 Lat: 5.64N Lon: 82.62W Depth: 8F Agency: IGL Distant
Magnitudes: 5.5Ms 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
GRNL	BZ	8237	52	EP		136	57.31	-.130							1.0
GRNL	BE	8237	52	ES		146	31.190	.220							1.0
GRNL	BZ	8237	52	IAMs_20		2 0	58.99			5117	39.4				
MESJ	BZ	8265	52	EP		136	58.84	-.080							1.0
MESJ	BZ	8265	52	IAMs_20		2 1	3.45			3483	31.0				

August 3 2023 Hour: 12: 6 50.1 Lat: 37.19N Lon: 5.51W Depth: 2F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	250	288	EP		12 7	26.29	-.070							1.0
MORF	HZ	279	274	EP		12 7	29.94	-.040							1.0
GRNL	CZ	288	292	EP		12 7	31.240	.120							1.0

August 3 2023 Hour: 19:33 52.2 Lat: 54.66N Lon: 161.04W Depth: 42F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9399	21	EP		1946	20.54	-0.13							1.0
GRNL	BE	9399	21	ESKSac		1956	40.89	0.08							1.0
GRNL	BZ	9399	21	IAMs_20		2022	4.49			2337	24.1				
MESJ	BZ	9436	21	EP		1946	22.32	-0.03							1.0
MESJ	BE	9436	21	ESKSac		1956	43.03	0.06							1.0
MESJ	BZ	9436	21	IAMs_20		2022	14.65			1613	22.6				
MORF	BZ	9483	22	EP		1946	24.53	0.01							1.0
MORF	BZ	9483	22	IAMs_20		2022	13.14			2348	19.9				

August 3 2023 Hour: 21: 0 45.0 Lat: 38.28N Lon: 7.86W Depth: 6F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

NW VIDIGUEIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	58	213	EP		21 0	54.510	.170							1.0
MESJ	HE	58	213	ES		21 1	1.210	.050							1.0
MESJ	HE	58	213	IAML		21 1	1.71			0.90	0.1				
GRNL	CZ	65	254	EP		21 0	55.27	-.180							1.0
GRNL	CN	65	254	ES		21 1	3.05	-.040							1.0
GRNL	CN	65	254	IAML		21 1	3.47			4	0.1				

August 3 2023 Hour: 22:47 6.8 Lat: 36.64N Lon: 9.78W Depth: 17F 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	125	53	EP		2247	25.94	-.160							1.0
MORF	HN	125	53	ES		2247	40.420	.220							1.0
MORF	HN	125	53	IAML		2247	41.43			13	0.2				
MESJ	HZ	192	46	EP		2247	34.35	-.100							1.0
MESJ	HE	192	46	ES		2247	54.61	-.030							1.0
MESJ	HN	192	46	IAML		2247	55.77			2	0.1				
GRNL	CZ	195	33	EP		2247	34.71	-.110							1.0
GRNL	CE	195	33	ES		2247	55.450	.180							1.0
GRNL	CN	195	33	IAML		2247	57.73			9	0.2				

August 4 2023 Hour: 1:15 12.2 Lat: 38.76N Lon: 7.94W Depth: 8F Agency: IGL Regional
Magnitudes: 1.3ML 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	217	EP		115	26.81	-.020							1.0
GRNL	CN	91	217	ES		115	37.520	.030							1.0
GRNL	CN	91	217	IAML		115	38.60			12	0.2				

MESJ HZ	105	193	EP	115	28.86	-.140											1.0
MESJ HE	105	193	ES	115	41.380	.130											1.0
MESJ HE	105	193	IAML	115	42.80				5	0.2							

August 4 2023 Hour: 1:15 27.5 Lat: 38.76N Lon: 7.95W Depth: 5F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 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	217	EP		115	42.080	.020							1.0
GRNL	CN	90	217	ES		115	52.69	-.030							1.0
GRNL	CN	90	217	IAML		115	54.16			40	0.2				
MESJ	HN	105	193	ES		115	56.760	.010							1.0
MESJ	HN	105	193	IAML		115	58.00			13	0.1				

August 4 2023 Hour: 8:27 32.8 Lat: 36.36N Lon: 9.61W Depth: 11F 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	135	39	EP		827	53.82	-.120							1.0
MORF	HN	135	39	ES		828	9.500	.160							1.0
MORF	HE	135	39	IAML		828	9.99			5	0.2				
GRNL	CN	214	25	ES		828	26.36	-.040							1.0
GRNL	CN	214	25	IAML		828	27.70			3	0.1				

August 4 2023 Hour: 9:52 45.3 Lat: 38.87N Lon: 9.24W Depth: 18F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.2 secs

NW LOURES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	18	155	EP		952	49.29	-.050							1.0
GRNL	CZ	102	145	EP		953	1.30	-.190							1.0
GRNL	CE	102	145	ES		953	13.560	.240							1.0
GRNL	CN	102	145	IAML		953	15.42			9	0.1				

August 4 2023 Hour: 11:48 37.4 Lat: 0.22S Lon: 124.99E Depth: 25F 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	BZ13690	317	EPP			12	9	10.480	.060						1.0
GRNL	BZ13702	317	EPP			12	9	11.06	-.060						1.0

August 4 2023 Hour: 19:39 50.2 Lat: 36.88N Lon: 8.99W Depth: 25F 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	56	32	EP		1939	59.870	.140							1.0
MORF	HN	56	32	ES		1940	6.50	-.140							1.0
MORF	HE	56	32	IAML		1940	7.21			10	0.1				

August 5 2023 Hour: 1:37 4.6 Lat: 39.80N Lon: 8.64W Depth: 11F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.2 secs

S POMBAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HE	128	200	ES		137	39.540	.080							1.0
GGNV	HE	128	200	IAML		137	43.53			639	0.4				
GRNL	CZ	188	178	EP		137	32.12	-.180							1.0
GRNL	CE	188	178	ES		137	52.660	.150							1.0
GRNL	CN	188	178	IAML		137	57.88			48	0.2				
MESJ	HZ	221	170	EP		137	36.27	-.110							1.0
MESJ	HE	221	170	ES		137	59.800	.240							1.0
MESJ	HN	221	170	IAML		138	8.75			29	0.2				
MORF	HZ	277	180	EP		137	43.22	-.190							0.9

August 5 2023 Hour: 7:20 7.3 Lat: 28.21S Lon: 63.19W Depth:598F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.1 secs

SANTIAGO DEL ESTERO, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9215	41	EP		731	30.10	0.03							1.0
MORF	BZ	9215	41	I Amb		731	34.05			207	1.5				
MORF	BZ	9215	41	EsP		734	37.28	-0.07							1.0
GRNL	BZ	9282	40	EP		731	32.99	0.02							1.0
GRNL	BZ	9282	40	I Amb		731	37.40			206	0.3				
GRNL	BZ	9282	40	EsP		734	40.21	-0.19							1.0
MESJ	BZ	9284	41	EP		731	33.10	0.04							1.0
MESJ	BZ	9284	41	I Amb		731	37.69			151	0.9				
MESJ	BZ	9284	41	EsP		734	40.45	-0.06							1.0
GGNV	BZ	9293	40	EP		731	33.62	0.23							1.0
GGNV	BZ	9293	40	I Amb		731	36.67			164	1.1				

August 5 2023 Hour: 14:10 22.1 Lat: 52.39N Lon: 31.82W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2314	122	EP		1415	3.700	0.040							1.0
GGNV	BZ	2314	122	I Amb		1415	5.93			391	1.4				
GGNV	BN	2314	122	ES		1418	57.040	0.110							1.0
GRNL	BZ	2398	122	EP		1415	11.59	-.240							1.0
GRNL	BZ	2398	122	I Amb		1415	17.16			208	1.2				
GRNL	BN	2398	122	ES		1419	12.050	0.140							1.0
MESJ	BZ	2441	122	EP		1415	15.77	-.190							1.0
MESJ	BZ	2441	122	I Amb		1415	20.68			119	0.8				
MESJ	BN	2441	122	ES		1419	19.31	-.130							1.0
MORF	BZ	2461	124	EP		1415	18.100	0.130							1.0
MORF	BZ	2461	124	I Amb		1415	21.88			448	1.4				
MORF	BN	2461	124	ES		1419	23.250	0.130							1.0

August 5 2023 Hour: 16: 1 49.7 Lat: 36.45N Lon: 70.70E Depth:207F Agency: IGL Distant
Magnitudes: 5.9Mb IGL Rms: 0.2 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	6788	297	EP		1611	41.680	0.000							1.0
MESJ	BZ	6788	297	I Amb		1611	43.75			236	1.0				
MESJ	BN	6788	297	ES		1619	44.37	-.110							1.0
GRNL	BZ	6803	298	EP		1611	42.790	0.230							1.0
GRNL	BZ	6803	298	I Amb		1611	44.92			210	1.0				
GRNL	BE	6803	298	ES		1619	45.99	-.160							1.0
GGNV	BZ	6820	299	EP		1611	43.800	0.240							1.0
GGNV	BZ	6820	299	I Amb		1611	45.53			295	0.9				
MORF	BZ	6848	297	EP		1611	45.17	-.190							1.0
MORF	BZ	6848	297	I Amb		1611	46.93			533	2.0				

August 6 2023 Hour: 1:35 49.4 Lat: 37.37N Lon: 8.46W Depth: 9F 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	19	246	EP		135	52.71	-.080							1.0
MORF	HN	19	246	ES		135	55.340	0.080							1.0
MORF	HE	19	246	IAML		135	55.97			11	0.1				

August 6 2023 Hour: 8: 2 32.8 Lat: 34.35N Lon: 5.62W Depth: 1 Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	427	321	EP		8	3	31.300	0.140						1.0
MORF	HN	427	321	ES		8	4	13.77	-.000						1.0
MORF	HN	427	321	IAML		8	4	17.56		20	0.3				

MESJ HZ	452	330	EP	8	3	34.11	-.090										1.0
MESJ HN	452	330	ES	8	4	19.14	0.120										1.0
MESJ HN	452	330	IAML	8	4	21.32				9	0.3						
GRNL CZ	493	328	EP	8	3	39.15	-.090										1.0
GRNL CN	493	328	ES	8	4	27.66	-.090										1.0
GRNL CN	493	328	IAML	8	4	29.39				3	0.3						

August 6 2023 Hour: 11:30 15.3 Lat: 38.86N Lon: 8.24W Depth: 1 Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

SW MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL CZ		88	199	EP		1130	29.48	-.110							1.0
GRNL CE		88	199	ES		1130	40.21	0.220							1.0
GRNL CE		88	199	IAML		1130	42.60			74	0.2				
MESJ HZ		113	179	EP		1130	33.59	-.030							1.0
MESJ HE		113	179	ES		1130	46.81	-.150							1.0
MESJ HN		113	179	IAML		1130	49.06			40	0.2				
MORF HZ		176	192	EPg		1130	43.87	0.060							1.0

August 6 2023 Hour: 14:31 56.8 Lat: 36.63N Lon: 7.74W Depth: 1F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ		110	313	EP		1432	14.54	-.090							1.0
MORF HN		110	313	ES		1432	27.71	0.090							1.0
MORF HE		110	313	IAML		1432	29.70			14	0.1				

August 6 2023 Hour: 20:22 5.7 Lat: 61.31N Lon: 139.95W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

SOUTHERN YUKON TERRITORY, CANADA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL BZ		8144	38	EP		2033	37.34	0.150							1.0
GRNL BZ		8144	38	IAMB		2033	42.01			41	1.3				
MESJ BZ		8183	38	EP		2033	39.13	-.150							1.0
MESJ BZ		8183	38	IAMB		2033	40.87			62	1.6				

August 6 2023 Hour: 21:29 9.2 Lat: 38.16N Lon: 8.73W Depth: 11F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

N MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL CZ		16	112	EP		2129	12.14	-.150							1.0
GRNL CN		16	112	ES		2129	14.69	0.150							1.0
GRNL CN		16	112	IAML		2129	14.98			10	0.1				

August 6 2023 Hour: 23:14 29.1 Lat: 36.48N Lon: 11.03W Depth: 21F Agency: IGL Regional
Magnitudes: 1.2ML 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
GRNL CZ		284	50	EP		2315	7.65	-.170							1.0
GRNL CN		284	50	ES		2315	36.22	0.170							1.0
GRNL CN		284	50	IAML		2315	37.13			1.00	0.1				

August 7 2023 Hour: 0:39 5.0 Lat: 42.83N Lon: 11.91W Depth: 27F Agency: IGL Regional
Magnitudes: 2.8ML 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		596	151	EP		040	18.91	-.080							1.0
GRNL CN		596	151	ES		041	12.96	-.020							1.0
GRNL CN		596	151	IAML		041	17.50			13	0.2				
MESJ HN		637	149	ES		041	21.50	-.130							1.0
MESJ HE		637	149	IAML		041	27.27			11	0.2				
MORF HN		674	155	ES		041	29.77	0.240							1.0
MORF HE		674	155	IAML		041	34.01			11	0.1				

August 7 2023 Hour: 8:43 8.5 Lat: 32.32N Lon: 5.94W Depth: 0 Agency: IGL Regional
Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	606	337	EP		844	28.52	-.140							1.0
MESJ	HZ	647	342	EP		844	33.620	.070							1.0
GRNL	CZ	685	340	EP		844	38.310	.080							1.0

August 7 2023 Hour: 14:10 42.9 Lat: 32.34N Lon: 5.93W Depth: 1F Agency: IGL Regional
Rms: 0.0 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	683	340	EP		1412	12.35	-.000							1.0

August 7 2023 Hour: 14:57 48.4 Lat: 37.35N Lon: 8.53W Depth: 9F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	246	EP		1457	50.68	-.180							1.0
MORF	HE	12	246	ES		1457	52.660	.030							1.0
MORF	HE	12	246	IAML		1457	53.16		68	0.2					
GRNL	CE	85	358	ES		1458	12.220	.160							1.0
GRNL	CE	85	358	IAML		1458	13.47		3	0.1					

August 7 2023 Hour: 15:46 11.3 Lat: 36.52N Lon: 9.80W 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
GRNL	CZ	207	31	EP		1546	41.570	.050							1.0
GRNL	CN	207	31	ES		1547	3.52	-.050							1.0
GRNL	CN	207	31	IAML		1547	6.22		3	0.1					

August 7 2023 Hour: 19:13 33.2 Lat: 35.44N Lon: 3.61W Depth: 7F 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
GRNL	CZ	532	305	EP		1914	43.75	-.000							1.0

August 7 2023 Hour: 20:57 45.6 Lat: 35.19N Lon: 3.62W Depth: 21F 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	506	307	EP		2058	51.61	-.030							1.0
MORF	HZ	510	299	EP		2058	52.02	-.060							1.0
GRNL	CZ	548	308	EP		2058	56.830	.090							1.0

August 7 2023 Hour: 23:56 29.9 Lat: 35.56N Lon: 3.64W Depth: 8F 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	481	303	EP		2357	34.200	.030							1.0
GRNL	CZ	523	304	EP		2357	39.17	-.030							1.0

August 8 2023 Hour: 15:31 19.2 Lat: 5.37S Lon: 34.99E Depth: 6F Agency: IGL Distant
Magnitudes: 5.2Ms IGL Rms: 0.0 secs

TANZANIA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6542	320	EP		1541	18.30	-.040							1.0
MORF	BE	6542	320	IAMs_20		1610	28.25		1208	13.5					
MESJ	BZ	6547	321	EP		1541	18.620	.010							1.0
MESJ	BN	6547	321	ES		1549	25.48	-.030							1.0
MESJ	BZ	6547	321	IAMs_20		1611	58.69		1329	12.1					
GRNL	BZ	6589	321	EP		1541	21.310	.060							1.0

**August 8 2023 Hour: 17:12 49.6 Lat: 35.34N Lon: 3.66W Depth: 13F 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	494	306	EP		1713	54.890	.060							1.0
MORF	HZ	499	297	EP		1713	55.35-	.130							1.0
GRNL	CZ	536	306	EP		1713	59.980	.070							1.0

**August 8 2023 Hour: 22:30 21.5 Lat: 36.32N Lon: 8.07W Depth: 30F Agency: IGL Regional
Magnitudes: 1.2ML 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	121	335	EP		2230	39.25-	.060							1.0
GRNL	CZ	203	348	EP		2230	49.49-	.010							1.0
GRNL	CN	203	348	ES		2231	10.040	.070							1.0
GRNL	CN	203	348	IAML		2231	10.70			2	0.2				

**August 9 2023 Hour: 7:53 27.8 Lat: 21.97S Lon: 65.93W Depth:261FAgency: IGL Distant
Magnitudes: 4.9Mb 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
MORF	BZ	8888	43	EP		8 5	7.62-	.160							1.0
MORF	BZ	8888	43	IAMB		8 5	8.62			23	1.1				
GRNL	BZ	8948	42	EP		8 5	10.650	.070							1.0
GRNL	BZ	8948	42	IAMB		8 5	11.01			13	0.7				
MESJ	BZ	8954	43	EP		8 5	10.970	.080							1.0
MESJ	BZ	8954	43	IAMB		8 5	11.46			21	0.6				

**August 9 2023 Hour: 9:20 29.6 Lat: 13.43N Lon: 144.09E Depth:450FAgency: IGL Distant
Rms: 0.8 secs**

GUAM REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ13655	335	EP	KP		938	33.650	.630							1.0
GRNL	BZ13655	335	EPP			940	17.02-	.900							1.0
MESJ	BZ13664	334	EP	KP		938	33.840	.650							1.0
MESJ	BZ13664	334	EPP			940	17.48-	.990							1.0
MORF	BZ13734	334	EP	KP		938	34.960	.510							1.0

**August 9 2023 Hour: 20: 4 39.8 Lat: 36.62N Lon: 10.99W Depth: 25F Agency: IGL Regional
Magnitudes: 1.1ML 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
GRNL	CZ	271	52	EP		20 5	16.37-	.170							1.0
GRNL	CE	271	52	ES		20 5	43.570	.200							1.0
GRNL	CN	271	52	IAML		20 5	45.14			2	0.1				
MESJ	HN	280	60	ES		20 5	45.48-	.030							1.0
MESJ	HE	280	60	IAML		20 5	46.17			0.50	0.1				

**August 10 2023 Hour: 4:41 7.8 Lat: 36.42N Lon: 9.90W Depth: 38F 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	148	48	EP		441	29.130	.050							1.0
MESJ	HZ	217	43	EP		441	37.49-	.080							1.0
MESJ	HN	217	43	ES		441	59.490	.220							1.0
MESJ	HN	217	43	IAML		442	0.40			3	0.1				
GRNL	CZ	222	32	EP		441	38.01-	.100							1.0
GRNL	CN	222	32	ES		442	0.11-	.100							1.0
GRNL	CE	222	32	IAML		442	1.25			6	0.2				

August 10 2023 Hour: 6:0 1.8 Lat: 35.26N Lon: 3.61W Depth: 18F 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
MESJ	HZ	502	306	EP		6 1	7.38	-.190							1.0
MESJ	HN	502	306	ES		6 1	55.680	.090							1.0
MESJ	HN	502	306	IAML		6 1	57.88			5	0.4				
GRNL	CZ	544	307	EP		6 1	12.770	.110							1.0

August 10 2023 Hour: 8:22 13.5 Lat: 36.70N Lon: 7.63W Depth: 23F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	137	338	EP		822	34.110	.050							1.0
MESJ	HE	137	338	ES		822	48.98	-.070							1.0
MESJ	HE	137	338	IAML		822	49.31			2	0.1				
GRNL	CN	177	332	ES		822	57.700	.020							1.0
GRNL	CN	177	332	IAML		822	58.42			2	0.1				

August 10 2023 Hour: 10:6 42.7 Lat: 36.00N Lon: 10.06W Depth: 36F 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	192	40	EP		10 7	9.390	.120							1.0
MORF	HN	192	40	ES		10 7	28.70	-.000							1.0
MORF	HE	192	40	IAML		10 7	32.40			15	0.1				
GRNL	CZ	269	29	EP		10 7	18.68	-.140							1.0
GRNL	CE	269	29	ES		10 7	45.240	.020							1.0
GRNL	CE	269	29	IAML		10 7	46.64			5	0.1				

August 10 2023 Hour: 17:48 0.5 Lat: 38.27N Lon: 38.26E Depth: 11F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4036	284	EP		1755	4.100	.060							1.0
MESJ	BZ	4036	284	IAMB		1755	10.94			48	1.5				
MESJ	BN	4036	284	ES		18 0	45.47	-.180							1.0
GRNL	BZ	4058	285	EP		1755	5.730	.040							1.0
GRNL	BZ	4058	285	IAMB		1755	12.77			31	1.5				
GRNL	BN	4058	285	ES		18 0	48.53	-.080							1.0
MORF	BZ	4089	283	EP		1755	8.310	.150							1.0
MORF	BZ	4089	283	IAMB		1755	14.19			65	1.5				

August 11 2023 Hour: 0:14 33.3 Lat: 41.12N Lon: 142.82E 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	BZ10730	338	EP			027	59.080	.110							1.0
GGNV	BZ10730	338	EPP			031	53.440	.020							1.0
GGNV	BZ10730	338	IAMs_20			117	7.58			12643	19.3				
GRNL	BZ10775	338	EP			028	0.860	.050							1.0
GRNL	BZ10775	338	EPP			031	56.44	-.100							1.0
GRNL	BN10775	338	ESKSac			038	35.06	-.030							1.0
GRNL	BE10775	338	IAMs_20			110	42.21			6705	18.3				
MESJ	BZ10791	337	EP			028	1.540	.040							1.0
MESJ	BZ10791	337	EPP			031	57.60	-.090							1.0
MESJ	BN10791	337	ESKSac			038	35.84	-.040							1.0
MESJ	BZ10791	337	IAMs_20			116	1.81			7027	23.5				
MORF	BZ10860	337	EP			028	4.650	.300							0.8
MORF	BZ10860	337	EPP			032	2.35	-.190							0.9
MORF	BZ10860	337	IAMs_20			115	27.81			8361	24.0				

August 11 2023 Hour: 6:53 5.1 Lat: 36.64N Lon: 7.24W Depth: 18F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	146	301	EP		653	27.170	.170							1.0
MORF	HN	146	301	ES		653	42.82	-.140							1.0
MORF	HE	146	301	IAML		653	43.26			22	0.2				
MESJ	HZ	159	327	EP		653	28.690	.080							1.0
MESJ	HE	159	327	ES		653	45.53	-.210							1.0
MESJ	HE	159	327	IAML		653	46.85			2	0.1				
GRNL	CZ	201	325	EP		653	33.930	.110							1.0
GRNL	CN	201	325	ES		653	54.75	-.010							1.0
GRNL	CE	201	325	IAML		653	56.66			2	0.1				

August 11 2023 Hour: 9:50 23.6 Lat: 35.25N Lon: 6.11W Depth: 30F Agency: IGL Regional
Magnitudes: 1.4ML 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	344	327	EP		951	9.02	-.100							1.0
GRNL	CZ	386	326	EP		951	14.390	.060							1.0
GRNL	CE	386	326	ES		951	51.430	.050							1.0
GRNL	CN	386	326	IAML		951	52.83			1.00	0.1				

August 11 2023 Hour: 13:37 23.4 Lat: 38.49N Lon: 8.24W Depth: 8F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

S MONTEMOR-O-NOVO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	51	214	EP		1337	31.900	.170							1.0
GRNL	CN	51	214	ES		1337	37.73	-.090							1.0
GRNL	CE	51	214	IAML		1337	38.37			43	0.2				
MESJ	HZ	72	179	EP		1337	35.220	.120							1.0
MESJ	HE	72	179	ES		1337	43.52	-.120							1.0
MESJ	HN	72	179	IAML		1337	45.36			24	0.1				
MORF	HZ	136	196	EP		1337	44.93	-.040							1.0
MORF	HN	136	196	ES		1338	0.69	-.030							1.0
MORF	HN	136	196	IAML		1338	2.90			28	0.2				

August 11 2023 Hour: 18:36 16.1 Lat: 36.35N Lon: 7.53W Depth: 11F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	216	335	EP		1836	47.370	.000							1.0
GRNL	CN	216	335	ES		1837	10.15	-.000							1.0
GRNL	CN	216	335	IAML		1837	12.37			3	0.2				

August 13 2023 Hour: 7:49 32.5 Lat: 35.25N Lon: 23.88E Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

CRETE, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2875	285	EP		755	4.270	.060							1.0
MESJ	BZ	2875	285	IAMB		755	6.58			98	1.6				
GRNL	BZ	2903	286	EP		755	6.47	-.060							1.0
GRNL	BZ	2903	286	IAMB		755	9.59			170	1.9				

August 13 2023 Hour: 11:47 36.9 Lat: 36.69N Lon: 7.82W Depth: 25F 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	101	313	EP		1147	52.49	-.160							1.0
MESJ	HZ	133	345	EP		1147	56.570	.020							1.0
MESJ	HN	133	345	ES		1148	11.030	.130							1.0
MESJ	HN	133	345	IAML		1148	12.49			5	0.1				
GRNL	CZ	171	337	EP		1148	1.510	.190							1.0

GRNL CN 171 337 ES 1148 18.97-.170 1.0
 GRNL CN 171 337 IAML 1148 20.01 3 0.2

August 13 2023 Hour: 21: 7 29.3 Lat: 36.34N Lon: 4.66W Depth:106F Agency: IGL Regional
Magnitudes: 2.1ML 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	358	299	EP		21 8	16.15-	.120							1.0
MESJ	HN	358	299	ES		21 8	50.800-	.230							1.0
MESJ	HN	358	299	IAML		21 8	52.26		6	0.2					
GRNL	CZ	399	301	EP		21 8	20.93-	.110							1.0

August 13 2023 Hour: 21:16 46.8 Lat: 38.65N Lon: 8.23W Depth: 2F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.1 secs

N MONTEMOR-O-NOVO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	67	207	EP		2116	57.880-	.180							1.0
GRNL	CN	67	207	ES		2117	5.53-	.080							1.0
GRNL	CN	67	207	IAML		2117	6.64		366	0.2					
GGNV	HZ	81	276	EP		2116	59.79-	.080							1.0
GGNV	HN	81	276	ES		2117	9.570-	.190							1.0
GGNV	HN	81	276	IAML		2117	14.33		292	0.2					
MESJ	HZ	90	180	EP		2117	1.29-	.070							1.0
MESJ	HN	90	180	ES		2117	11.93-	.030							1.0
MESJ	HN	90	180	IAML		2117	15.79		98	0.2					
MORF	HN	154	194	ES		2117	28.99-	.110							1.0
MORF	HE	154	194	IAML		2117	32.53		133	0.2					

August 13 2023 Hour: 21:24 32.8 Lat: 38.65N Lon: 8.21W Depth: 2F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

NE MONTEMOR-O-NOVO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	68	207	EP		2124	44.030-	.190							1.0
GRNL	CN	68	207	ES		2124	51.71-	.160							1.0
GRNL	CN	68	207	IAML		2124	52.79		578	0.2					
GGNV	HN	82	275	ES		2124	55.59-	.040							1.0
GGNV	HN	82	275	IAML		2125	0.50		432	0.2					
MESJ	HZ	91	180	EP		2124	47.43-	.020							1.0
MESJ	HN	91	180	ES		2124	58.130-	.020							1.0
MESJ	HN	91	180	IAML		2125	1.97		189	0.3					
MORF	HN	155	195	ES		2125	15.26-	.000							1.0
MORF	HN	155	195	IAML		2125	18.27		215	0.1					

August 14 2023 Hour: 0:44 39.8 Lat: 39.33N Lon: 9.71W Depth: 16F Agency: IGL Regional
Magnitudes: 3.1ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	83	144	EP		044	53.270-	.150							1.0
GGNV	HE	83	144	ES		045	2.830-	.010							1.0
GGNV	HE	83	144	IAML		045	5.48		1521	0.2					
GRNL	CZ	167	143	EP		045	4.610-	.090							1.0
GRNL	CN	167	143	ES		045	22.30-	.240							1.0
GRNL	CN	167	143	IAML		045	26.56		119	0.3					
MESJ	HZ	210	141	EP		045	9.880-	.100							0.9
MESJ	HN	210	141	ES		045	31.50-	.130							0.9
MESJ	HN	210	141	IAML		045	41.00		68	0.2					

August 14 2023 Hour: 5:30 12.8 Lat: 37.19N Lon: 8.55W Depth: 15F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

NW PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	326	EP		530	16.28-	.110							1.0
MORF	HE	16	326	ES		530	18.98-	.010							1.0
MORF	HE	16	326	IAML		530	19.38		895	0.2					

MESJ	HZ	78	22	EP	530	25.600	.210										1.0
MESJ	HN	78	22	ES	530	34.710	.150										1.0
MESJ	HN	78	22	IAML	530	36.90				86	0.1						
GRNL	CZ	102	359	EP	530	28.85	-.190										1.0
GRNL	CE	102	359	ES	530	40.82	-.060										1.0
GRNL	CN	102	359	IAML	530	42.04				96	0.1						

August 14 2023 Hour: 5:31 24.7 Lat: 37.19N Lon: 8.56W Depth: 16F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

NW PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	327	EP		531	28.21	-.130							1.0
MORF	HE	16	327	ES		531	31.030	.060							1.0
MORF	HE	16	327	IAML		531	31.31			76	0.2				
MESJ	HN	78	22	ES		531	46.560	.060							1.0
MESJ	HN	78	22	IAML		531	47.80			6	0.2				
GRNL	CN	102	359	ES		531	52.770	.020							1.0
GRNL	CN	102	359	IAML		531	53.94			8	0.1				

August 14 2023 Hour: 10:39 59.3 Lat: 43.50S Lon: 39.03E Depth: 10F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

PRINCE EDWARD ISLAND REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10151	324	EP			1053	4.70	-.080							1.0
MORF	BZ10151	324	EPP			1056	42.450	.080							1.0
MORF	BE10151	324	IAMs_20			1135	30.30			7615	22.9				
MESJ	BZ10180	324	EP			1053	5.89	-.050							1.0
MESJ	BZ10180	324	EPP			1056	44.28	-.150							1.0
MESJ	BZ10180	324	IAMs_20			1136	6.29			8632	20.6				
GRNL	BZ10222	324	EP			1053	7.59	-.060							1.0
GRNL	BZ10222	324	EPP			1056	47.450	.080							1.0
GRNL	BE10222	324	ESKSac			11 3	41.150	.330							0.9
GRNL	BZ10222	324	IAMs_20			1135	59.87			7131	21.2				
GGNV	BZ10306	324	EPP			1056	53.22	-.100							1.0
GGNV	BZ10306	324	IAMs_20			1136	11.66			8631	15.9				

August 14 2023 Hour: 11:48 37.4 Lat: 35.31N Lon: 11.52W Depth: 27F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	339	49	EP		1149	22.750	.110							1.0
MORF	HN	339	49	ES		1149	55.51	-.120							1.0
MORF	HN	339	49	IAML		1149	59.26			26	0.3				
GRNL	CN	407	39	ES		1150	9.96	-.100							1.0
GRNL	CN	407	39	IAML		1150	12.64			8	0.1				
MESJ	HZ	407	46	EP		1149	31.070	.070							1.0
GRNL	CZ	407	39	EP		1149	31.010	.030							1.0

August 14 2023 Hour: 13:51 54.8 Lat: 13.38N Lon: 147.54E Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

MARIANA ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ13813	337	EPKpdf			1410	53.13	-.110							1.0
GRNL	BN13813	337	IAMs_20			15 2	6.70			4823	25.2				
MESJ	BZ13824	337	EPP			1412	38.510	.130							1.0
MESJ	BZ13824	337	IAMs_20			15 5	13.81			4030	22.5				
MORF	BZ13895	337	EPP			1412	42.67	-.020							1.0
MORF	BZ13895	337	IAMs_20			15 3	58.53			5149	27.8				

August 14 2023 Hour: 14:49 48.7 Lat: 24.93N Lon: 92.23E Depth: 35F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

INDIA-BANGLADESH BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9210	308	EP		15	2	9.29-.080							1.0
MESJ	BZ	9210	308	IAmb		15	2	11.47		31	1.1				
MESJ	BZ	9210	308	EpP		15	2	20.270.090							1.0
GRNL	BZ	9224	309	EP		15	2	9.98-.050							1.0
GRNL	BZ	9224	309	IAmb		15	2	12.14		21	0.6				
GRNL	BZ	9224	309	EpP		15	2	20.82-.030							1.0
MORF	BZ	9270	308	EP		15	2	12.310.070							1.0
MORF	BZ	9270	308	IAmb		15	2	13.83		60	1.5				

August 14 2023 Hour: 15:55 11.5 Lat: 7.32N Lon: 75.56W Depth: 48F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

NORTHERN COLOMBIA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7487	53	EP		16	6	1.260.000							1.0
MORF	BZ	7487	53	IAmb		16	6	3.08		20	1.0				
GRNL	BZ	7507	52	EP		16	6	2.34-.020							1.0
GRNL	BZ	7507	52	IAmb		16	6	3.46		15	0.9				
GRNL	BZ	7507	52	EpP		16	6	15.940.130							1.0
MESJ	BZ	7533	52	EP		16	6	3.74-.110							1.0
MESJ	BZ	7533	52	IAmb		16	6	4.88		9	0.8				

August 14 2023 Hour: 21:20 41.1 Lat: 37.10N Lon: 8.72W Depth: 24F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	23	14	EP		2120		46.27-.090							1.0
MORF	HN	23	14	ES		2120		50.280.090							1.0
MORF	HN	23	14	IAML		2120		52.44		126	0.1				

August 15 2023 Hour: 3:52 30.8 Lat: 36.66N Lon: 9.66W Depth: 19F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	115	51	EP		352		48.69-.050							1.0
MORF	HN	115	51	ES		353		1.900.060							1.0
MORF	HN	115	51	IAML		353		3.65		27	0.1				
MESJ	HZ	183	44	EP		352		57.10-.080							1.0
MESJ	HN	183	44	ES		353		16.38-.050							1.0
MESJ	HN	183	44	IAML		353		18.56		4	0.1				
GRNL	CZ	188	31	EP		352		57.68-.060							1.0
GRNL	CN	188	31	ES		353		17.570.170							1.0
GRNL	CN	188	31	IAML		353		18.22		12	0.1				

August 15 2023 Hour: 7: 6 33.7 Lat: 10.44S Lon: 74.84W Depth: 130F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.1 secs

CENTRAL PERU Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	8723	48	EP		718		19.81-.150							1.0
GRNL	BZ	8723	48	IAmb		718		21.95		25	1.2				
MESJ	BZ	8740	48	EP		718		20.930.150							1.0
MESJ	BZ	8740	48	IAmb		718		22.57		36	1.6				

August 16 2023 Hour: 1:37 31.9 Lat: 40.28N Lon: 53.13E Depth: 50F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.1 secs

TURKMENISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5209	288	EP		145		56.82-.100							1.0
MESJ	BZ	5209	288	IAmb		145		57.72		10	0.9				
MESJ	BZ	5209	288	EpP		146		10.31-.010							1.0

GRNL BZ 5226 288 EP	145 58.220.150														1.0
GRNL BZ 5226 288 IAMB	146 0.23							15	1.0						
GRNL BZ 5226 288 EpP	146 11.43-.040														1.0

August 16 2023 Hour: 2:25 12.1 Lat: 37.53N Lon: 7.61W Depth: 11F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	64	303	EP			225	22.41-	.150							1.0
MESJ HE	64	303	ES			225	30.360.	.190							1.0
MESJ HN	64	303	IAML			225	31.78		6	0.3					
GRNL CN	106	308	ES			225	41.19-	.040							1.0
GRNL CN	106	308	IAML			225	42.82		5	0.2					

August 16 2023 Hour: 4:22 41.6 Lat: 37.49N Lon: 7.60W Depth: 24F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

W ALCOUTIM, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	67	305	EP			422	52.650.	.060							1.0
MESJ HE	67	305	ES			423	0.52-	.060							1.0
MESJ HN	67	305	IAML			423	1.93		2	0.2					

August 16 2023 Hour: 4:23 36.7 Lat: 37.51N Lon: 7.59W Depth: 19F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs

NW ALCOUTIM, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	66	303	EP			423	47.560.	.000							1.0
MESJ HE	66	303	ES			423	55.490.	.020							1.0
MESJ HN	66	303	IAML			423	56.94		3	0.1					
GRNL CE	109	308	ES			424	6.28-	.020							1.0
GRNL CE	109	308	IAML			424	7.81		3	0.3					

August 16 2023 Hour: 4:35 54.0 Lat: 37.52N Lon: 7.59W Depth: 18F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	66	303	EP			436	4.73-	.020							1.0
MESJ HE	66	303	ES			436	12.750.	.130							1.0
MESJ HN	66	303	IAML			436	13.58		3	0.1					
GRNL CE	108	307	ES			436	23.46-	.120							1.0
GRNL CE	108	307	IAML			436	24.95		4	0.2					

August 16 2023 Hour: 5:1 55.8 Lat: 37.52N Lon: 7.61W Depth: 11F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SE MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	64	303	EP			5 2	6.22-	.060							1.0
MESJ HE	64	303	ES			5 2	14.080.	.140							1.0
MESJ HN	64	303	IAML			5 2	15.24		3	0.1					
GRNL CZ	107	308	EP			5 2	12.710.	.030							1.0
GRNL CE	107	308	ES			5 2	24.90-	.110							1.0
GRNL CE	107	308	IAML			5 2	26.62		5	0.2					

August 16 2023 Hour: 6:35 34.1 Lat: 37.52N Lon: 7.61W Depth: 17F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SE MERTOLA, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	64	303	EP			635	44.35-	.200							1.0
MESJ HN	64	303	ES			635	52.280.	.060							1.0
MESJ HN	64	303	IAML			635	53.76		6	0.2					
GRNL CE	107	308	ES			636	3.380.	.150							1.0
GRNL CN	107	308	IAML			636	4.95		8	0.1					

August 16 2023 Hour: 11:27 13.9 Lat: 37.51N Lon: 7.60W Depth: 19F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	66	303	EP		1127	24.54	-.150							1.0
MESJ	HE	66	303	ES		1127	32.50	-.030							1.0
MESJ	HN	66	303	IAML		1127	34.00			9	0.1				
GRNL	CN	108	308	ES		1127	43.560	.190							1.0
GRNL	CN	108	308	IAML		1127	44.86			7	0.2				

August 16 2023 Hour: 12:47 41.1 Lat: 13.88S Lon: 167.16E Depth: 193F Agency: IGL Distant
Rms: 0.1 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17257	353	EPKPdf			13 7	10.240	.120							1.0
GGNV	BZ17257	353	EPKPab			13 7	36.26	-.070							1.0
GGNV	BZ17257	353	EPP			1311	13.100	.040							1.0
GRNL	BZ17315	352	EPKPdf			13 7	10.81	-.040							1.0
GRNL	BZ17315	352	EPKPab			13 7	38.39	-.230							0.9
GRNL	BZ17315	352	EPP			1311	16.040	.040							1.0
MESJ	BZ17339	351	EPKPdf			13 7	11.280	.130							1.0
MESJ	BZ17339	351	EPKPab			13 7	39.38	-.180							0.9
MESJ	BZ17339	351	EPP			1311	17.280	.090							1.0
MORF	BZ17405	352	EPKPdf			13 7	12.080	.100							1.0
MORF	BZ17405	352	EPKPab			13 7	42.09	-.060							1.0
MORF	BZ17405	352	EPP			1311	20.510	.020							1.0

August 16 2023 Hour: 12:54 21.3 Lat: 37.53N Lon: 7.59W Depth: 14F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	65	302	EP		1254	31.61	-.210							1.0
MESJ	HE	65	302	ES		1254	39.740	.210							1.0
MESJ	HN	65	302	IAML		1254	40.91			7	0.1				
MORF	HN	97	255	ES		1254	47.89	-.020							1.0
MORF	HE	97	255	IAML		1254	48.81			12	0.3				
GRNL	CE	107	307	ES		1254	50.580	.020							1.0
GRNL	CN	107	307	IAML		1254	52.32			10	0.2				

August 16 2023 Hour: 19:15 42.2 Lat: 36.72N Lon: 7.53W Depth: 24F 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	HN	119	304	ES		1916	13.31	-.110							1.0
MORF	HE	119	304	IAML		1916	14.42			15	0.2				
MESJ	HN	139	334	ES		1916	17.55	-.040							1.0
MESJ	HE	139	334	IAML		1916	20.02			3	0.1				
GRNL	CZ	180	330	EP		1916	7.840	.090							1.0
GRNL	CE	180	330	ES		1916	26.430	.060							1.0
GRNL	CE	180	330	IAML		1916	27.66			2	0.1				

August 16 2023 Hour: 20: 9 40.2 Lat: 37.52N Lon: 7.61W Depth: 16F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SE MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	303	EP		20 9	50.59	-.080							1.0
MESJ	HN	64	303	ES		20 9	58.400	.080							1.0
MESJ	HN	64	303	IAML		20 9	59.78			2	0.1				
GRNL	CE	107	308	ES		2010	9.360	.000							1.0
GRNL	CE	107	308	IAML		2010	10.95			3	0.2				

August 17 2023 Hour: 2:46 39.0 Lat: 37.53N Lon: 7.60W Depth: 17F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	65	302	EP		246	49.48	-.110							1.0
MESJ	HE	65	302	ES		246	57.46	0.140							1.0
MESJ	HN	65	302	IAML		246	58.42			9	0.1				
GRNL	CE	107	307	ES		247	8.29	-.030							1.0
GRNL	CN	107	307	IAML		247	10.03			13	0.2				

August 17 2023 Hour: 6:42 42.8 Lat: 37.32N Lon: 8.58W Depth: 11F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.2 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	254	EP		642	44.70	-.330							1.0
MORF	HE	7	254	ES		642	46.91	0.280							1.0
MORF	HN	7	254	IAML		642	47.59			97	0.1				
MESJ	HZ	66	29	EP		642	53.59	0.090							1.0
MESJ	HN	66	29	ES		643	1.09	-.180							1.0
MESJ	HN	66	29	IAML		643	1.89			10	0.2				
GRNL	CZ	87	0	EP		642	57.02	0.220							1.0
GRNL	CN	87	0	ES		643	6.90	-.080							1.0
GRNL	CN	87	0	IAML		643	7.48			22	0.2				

August 17 2023 Hour: 11:27 45.1 Lat: 36.43N Lon: 9.60W Depth: 36F 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	41	EP		1128	3.80	-.050							1.0
MORF	HN	129	41	ES		1128	17.51	-.040							1.0
MORF	HN	129	41	IAML		1128	18.80			12	0.1				
MESJ	HZ	199	38	EP		1128	12.47	-.040							1.0
MESJ	HN	199	38	ES		1128	32.61	0.070							1.0
MESJ	HN	199	38	IAML		1128	34.14			3	0.2				
GRNL	CN	207	26	ES		1128	34.46	0.060							1.0
GRNL	CN	207	26	IAML		1128	35.71			3	0.1				

August 17 2023 Hour: 13:28 36.7 Lat: 7.28N Lon: 75.61W Depth: 51F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.1 secs

NORTHERN COLOMBIA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	7514	52	EP		1339	27.21	-.400							1.0
GRNL	BZ	7514	52	IAMB		1339	28.69			11	1.1				
MESJ	BZ	7540	52	EP		1339	28.84	-.250							1.0
MESJ	BZ	7540	52	IAMB		1339	30.09			5	0.8				

August 17 2023 Hour: 16:41 2.9 Lat: 0.41S Lon: 19.60W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.1 secs

CENTRAL MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4327	14	EP		1648	28.51	-.080							1.0
MORF	BE	4327	14	ES		1654	28.01	0.240							1.0
MORF	BE	4327	14	IAMs_20		1657	45.33			13418	39.6				
MESJ	BZ	4395	14	EP		1648	33.58	-.090							1.0
MESJ	BN	4395	14	ES		1654	36.77	-.140							1.0
MESJ	BE	4395	14	IAMs_20		1657	55.09			5152	31.6				
GRNL	BZ	4414	14	EP		1648	34.95	-.140							1.0
GRNL	BN	4414	14	ES		1654	39.62	0.160							1.0
GRNL	BE	4414	14	IAMs_20		1657	58.54			11610	32.1				
GGNV	BE	4464	13	ES		1654	46.21	0.070							1.0
GGNV	BE	4464	13	IAMs_20		1657	52.54			11375	26.8				

August 17 2023 Hour: 17: 4 50.5 Lat: 4.42N Lon: 73.51W Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.1 secs

COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7505	51	EP		1715	46.590	.100							1.0
MORF	BZ	7505	51	IAmb		1715	59.52			87	1.1				
GRNL	BZ	7531	51	EP		1715	47.83	-.090							1.0
GRNL	BZ	7531	51	IAmb		1716	0.21			39	0.6				
MESJ	BZ	7555	51	EP		1715	49.26	-.010							1.0
MESJ	BZ	7555	51	IAmb		1716	1.53			29	1.1				

August 17 2023 Hour: 17:17 17.6 Lat: 4.21N Lon: 73.61W Depth: 8F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7527	51	EP		1728	15.290	.050							1.0
MORF	BZ	7527	51	IAmb		1728	17.59			134	1.6				
GRNL	BZ	7554	51	EP		1728	16.56	-.120							1.0
GRNL	BZ	7554	51	IAmb		1728	19.32			33	1.0				
MESJ	BZ	7577	51	EP		1728	18.090	.070							1.0
MESJ	BZ	7577	51	IAmb		1728	19.27			22	1.3				

August 17 2023 Hour: 19:35 41.0 Lat: 38.69N Lon: 9.75W Depth: 30F Agency: IGL Regional
Rms: 0.0 secs

W CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	122	122	EP		1935	58.90	-.000							1.0

August 18 2023 Hour: 7:57 58.2 Lat: 0.45S Lon: 19.64W Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.3 secs

CENTRAL MID-ATLANTIC RIDGE Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4333	14	EP		8 5	24.490	.170							1.0
MORF	BZ	4333	14	EPP		8 6	52.71	-.510							0.9
MORF	BE	4333	14	ES		811	23.900	.050							1.0
MORF	BZ	4333	14	IAMs_20		821	51.31			2564	16.2				
MESJ	BZ	4401	14	EP		8 5	29.710	.310							1.0
MESJ	BZ	4401	14	EPP		8 6	59.61	-.280							1.0
MESJ	BE	4401	14	ES		811	33.080	.090							1.0
MESJ	BZ	4401	14	IAMs_20		820	45.12			1876	20.9				
GRNL	BZ	4420	14	EP		8 5	31.070	.260							1.0
GRNL	BZ	4420	14	EPP		8 7	1.28	-.460							1.0
GRNL	BE	4420	14	ES		811	35.720	.190							1.0
GRNL	BN	4420	14	IAMs_20		822	48.69			2691	10.2				
GGNV	BZ	4470	13	EP		8 5	34.610	.090							1.0
GGNV	BZ	4470	13	IAMs_20		823	13.31			3285	21.8				

August 18 2023 Hour: 8:17 57.1 Lat: 52.22N Lon: 151.18E Depth:599F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.1 secs

SEA OF OKHOTSK Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9812	344	EP		829	45.560	.060							1.0
GRNL	BZ	9812	344	IAmb		829	46.12			6	0.9				
MESJ	BZ	9835	344	EP		829	46.500	.040							1.0
MESJ	BZ	9835	344	IAmb		829	46.94			14	1.3				
MORF	BZ	9901	344	EP		829	49.17	-.110							1.0
MORF	BZ	9901	344	IAmb		829	50.49			11	0.8				

August 18 2023 Hour: 10:27 55.4 Lat: 16.11S Lon: 75.08W Depth: 18F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.1 secs

OFF COAST OF SOUTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9120	48	EP		1040	14.300	.010							1.0
MORF	BE	9120	48	IAMs_20		1118	34.74			1114	19.8				
GRNL	BZ	9167	47	EP		1040	16.30	-.150							1.0
GRNL	BN	9167	47	ES		1050	32.520	.200							1.0
GRNL	BE	9167	47	IAMs_20		1116	22.14			866	23.7				
MESJ	BZ	9181	47	EP		1040	16.95	-.160							1.0
MESJ	BN	9181	47	ES		1050	33.710	.100							1.0
MESJ	BZ	9181	47	IAMs_20		1117	39.24			883	17.9				

August 18 2023 Hour: 11:21 36.6 Lat: 37.36N Lon: 8.49W Depth: 8F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	247	EP		1121	39.27	-.150							1.0
MORF	HE	16	247	ES		1121	41.580	.070							1.0
MORF	HE	16	247	IAML		1121	41.75			42	0.2				
MESJ	HN	59	24	ES		1121	53.140	.080							1.0
MESJ	HN	59	24	IAML		1121	53.74			1	0.1				

August 18 2023 Hour: 18:33 4.8 Lat: 42.31N Lon: 143.06E Depth: 61F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

HOKKAIDO, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10676	338		EP		1846	25.110	.000							1.0
MESJ	BZ10676	338		IAMB		1846	25.96			7	0.8				

August 19 2023 Hour: 1:45 4.0 Lat: 36.50N Lon: 11.24W Depth: 32F 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	248	68	EP		145	37.40	-.100							1.0
MORF	HN	248	68	ES		146	1.92	-.050							1.0
MORF	HN	248	68	IAML		146	2.94			5	0.2				
GRNL	CZ	297	52	EP		145	43.51	-.050							1.0
GRNL	CE	297	52	ES		146	12.650	.200							1.0
GRNL	CN	297	52	IAML		146	14.42			4	0.1				
MESJ	HE	307	60	ES		146	14.670	.010							1.0
MESJ	HE	307	60	IAML		146	16.18			1	0.1				

August 19 2023 Hour: 11:49 41.8 Lat: 36.86N Lon: 7.68W Depth: 12F 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	99	300	EP		1149	57.44	-.140							1.0
MORF	HN	99	300	ES		1150	9.05	-.030							1.0
MORF	HN	99	300	IAML		1150	11.86			10	0.1				
MESJ	HZ	119	337	EP		1150	0.660	.160							1.0

August 19 2023 Hour: 13:30 3.4 Lat: 36.53N Lon: 9.92W Depth: 36F 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	HE	142	52	ES		1330	38.49	-.220							1.0
MORF	HE	142	52	IAML		1330	39.76			4	0.1				
MESJ	HZ	210	45	EP		1330	32.180	.020							1.0
GRNL	CZ	212	34	EP		1330	32.610	.120							1.0
GRNL	CN	212	34	ES		1330	53.840	.090							1.0
GRNL	CE	212	34	IAML		1330	55.69			0.80	0.0				

August 19 2023 Hour: 21:14 27.5 Lat: 36.33N Lon: 8.11W Depth: 24F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	336	EP		2114	45.450	.050							1.0
MESJ	HZ	167	357	EP		2114	51.630	.130							1.0
GRNL	CZ	201	348	EP		2114	55.60	-.080							1.0
GRNL	CN	201	348	ES		2115	16.13	-.110							1.0
GRNL	CN	201	348	IAML		2115	17.01			19	0.2				

August 20 2023 Hour: 1:48 55.0 Lat: 51.65N Lon: 167.30W Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9854	17	EP		2 1	48.07	-.000							1.0
GRNL	BZ	9854	17	IAMB		2 1	49.31			6	0.8				

August 20 2023 Hour: 3:18 14.8 Lat: 37.65N Lon: 8.41W Depth: 16F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

W OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	27	39	EP		318	19.890	.130							1.0
MESJ	HE	27	39	ES		318	23.40	-.010							1.0
MESJ	HN	27	39	IAML		318	24.05			4	0.1				
MORF	HZ	44	209	EP		318	22.210	.020							1.0
MORF	HN	44	209	ES		318	27.52	-.090							1.0
MORF	HN	44	209	IAML		318	28.55			9	0.2				
GRNL	CZ	53	345	EP		318	23.25	-.200							1.0
GRNL	CN	53	345	ES		318	29.940	.150							1.0
GRNL	CN	53	345	IAML		318	30.59			4	0.1				

August 20 2023 Hour: 13:23 5.0 Lat: 8.56S Lon: 159.42E Depth: 79F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ16546	342	EPKiKP			1342	44.36	-.080							1.0
MESJ	BZ16561	341	EPKiKP			1342	44.760	.030							1.0
MORF	BZ16631	341	EPKiKP			1342	46.120	.040							1.0

August 20 2023 Hour: 14:55 7.0 Lat: 36.52N Lon: 8.15W Depth: 16F Agency: IGL Regional
Magnitudes: 0.6ML 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	98	333	EP		1455	22.620	.060							1.0
MESJ	HZ	146	357	EP		1455	29.250	.180							1.0
GRNL	CZ	180	348	EP		1455	33.00	-.250							1.0

August 20 2023 Hour: 17:49 59.0 Lat: 43.11N Lon: 14.65W Depth: 29F Agency: IGL Regional
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	757	135	EP		1751	34.46	-.000							1.0

August 20 2023 Hour: 19:40 3.0 Lat: 35.89N Lon: 10.37W Depth: 38F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	219	44	EP		1940	32.91	-.090							1.0
MORF	HN	219	44	ES		1940	54.85	-.060							1.0
MORF	HN	219	44	IAML		1940	55.87			18	0.2				
MESJ	HZ	289	41	EP		1940	41.57	-.010							1.0
MESJ	HN	289	41	ES		1941	10.010	.250							1.0
MESJ	HN	289	41	IAML		1941	11.43			2	0.1				

GRNL CZ 293 33 EP 1940 42.08-.080 1.0

**August 20 2023 Hour: 22:20 2.9 Lat: 37.27N Lon: 8.58W Depth: 9F Agency: IGL Regional
Magnitudes: 0.2ML 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	7	298	EP		2220	4.72	-.140							1.0
MORF	HE	7	298	ES		2220	6.42	0.140							1.0
MORF	HE	7	298	IAML		2220	6.68			15	0.1				

**August 21 2023 Hour: 1:36 50.5 Lat: 36.98N Lon: 11.05W Depth: 42F 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	216	80	EP		137	20.29	0.070							1.0
MORF	HN	216	80	ES		137	41.72	-.170							1.0
MORF	HE	216	80	IAML		137	44.78			25	0.2				
GRNL	CZ	253	60	EP		137	24.75	0.050							1.0
GRNL	CN	253	60	ES		137	49.80	0.160							1.0
GRNL	CN	253	60	IAML		137	51.60			17	0.1				
MESJ	HZ	268	68	EP		137	26.60	-.040							1.0
MESJ	HN	268	68	ES		137	52.95	-.060							1.0
MESJ	HN	268	68	IAML		137	54.17			5	0.1				

**August 21 2023 Hour: 10:1 19.3 Lat: 7.44S Lon: 120.48E Depth:515FAgency: IGL Distant
Rms: 0.1 secs**

FLORES SEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13882	311	EP	KPpdf		1019	20.05	0.160							1.0
GRNL	BZ13901	312	EP	KPpdf		1019	20.11	-.080							1.0
MORF	BZ13938	311	EP	KPpdf		1019	20.83	-.070							1.0

**August 21 2023 Hour: 13:23 44.9 Lat: 36.25N Lon: 8.59W Depth: 18F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	357	EP		1324	3.03	-.140							1.0
MORF	HN	117	357	ES		1324	16.49	-.060							1.0
MORF	HN	117	357	IAML		1324	17.77			14	0.1				
MESJ	HN	180	11	ES		1324	30.01	0.120							1.0
MESJ	HN	180	11	IAML		1324	30.96			4	0.1				
GRNL	CN	206	1	ES		1324	35.72	0.090							1.0
GRNL	CN	206	1	IAML		1324	36.55			9	0.1				

**August 22 2023 Hour: 6:9 34.3 Lat: 39.63N Lon: 11.98W Depth: 36F Agency: IGL Regional
Magnitudes: 3.8ML 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
GGNV	HZ	265	112	EP		610	7.71	-.030							1.0
GRNL	CZ	341	119	EP		610	17.01	-.030							1.0
GRNL	CN	341	119	ES		610	48.24	-.020							1.0
GRNL	CN	341	119	IAML		610	53.20			246	0.2				
MESJ	HZ	383	120	EP		610	22.15	-.010							0.9
MESJ	HE	383	120	ES		610	57.26	0.140							0.9
MESJ	HN	383	120	IAML		611	2.92			259	0.3				
MORF	HZ	389	131	EP		610	22.85	-.080							0.9
MORF	HE	389	131	ES		610	58.50	0.040							0.9
MORF	HE	389	131	IAML		611	3.19			506	0.3				

August 22 2023 Hour: 7:10 12.7 Lat: 39.76N Lon: 8.74W Depth: 11F Agency: IGL Regional
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	184	175	EP		710	39.910	.090							1.0
MESJ	HZ	218	168	EP		710	44.04	-.000							1.0
MORF	HZ	272	178	EP		710	50.78	-.100							1.0

August 22 2023 Hour: 19:39 3.4 Lat: 37.76N Lon: 8.26W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML 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	9	25	EP		1939	5.700	.060							1.0
MESJ	HN	9	25	ES		1939	7.25	-.020							1.0
MESJ	HE	9	25	IAML		1939	7.43			57	0.1				
GRNL	CZ	47	325	EP		1939	11.04	-.090							1.0
GRNL	CN	47	325	ES		1939	16.820	.060							1.0
GRNL	CE	47	325	IAML		1939	17.28			7	0.1				

August 22 2023 Hour: 22:36 7.9 Lat: 36.50N Lon: 5.62W Depth: 43F 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	275	304	EP		2236	44.820	.060							1.0
MESJ	HE	275	304	ES		2237	11.67	-.030							1.0
MESJ	HE	275	304	IAML		2237	13.72			2	0.2				
GRNL	CZ	317	305	EP		2236	49.990	.150							1.0
GRNL	CE	317	305	ES		2237	20.30	-.180							1.0
GRNL	CE	317	305	IAML		2237	22.18			4	0.2				

August 23 2023 Hour: 1:26 12.4 Lat: 36.58N Lon: 9.70W Depth: 18F 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	123	49	EP		126	31.460	.050							1.0
MORF	HE	123	49	ES		126	45.430	.110							1.0
MESJ	HN	192	43	ES		126	59.86	-.180							1.0
MESJ	HE	192	43	IAML		127	1.74			1.00	0.1				

August 23 2023 Hour: 2:9 6.8 Lat: 36.36N Lon: 10.03W Depth: 0 Agency: IGL Regional
Magnitudes: 1.0ML 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	161	49	EP		2 9	32.310	.070							1.0
MORF	HE	161	49	ES		2 9	50.940	.140							1.0
MESJ	HN	229	44	ES		210	5.31	-.130							1.0
MESJ	HN	229	44	IAML		210	8.36			0.60	0.1				
GRNL	CZ	233	33	EP		2 9	41.06	-.060							1.0
GRNL	CE	233	33	ES		210	6.14	-.030							1.0
GRNL	CE	233	33	IAML		210	8.06			2	0.2				

August 23 2023 Hour: 14:22 44.4 Lat: 26.92S Lon: 63.34W Depth: 569F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

SANTIAGO DEL ESTERO, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9118	41	EP		1434	5.16	-.190							1.0
MORF	BZ	9118	41	IAMB		1434	6.34			139	1.3				
GRNL	BZ	9184	41	EP		1434	8.380	.130							1.0
GRNL	BZ	9184	41	IAMB		1434	9.98			175	1.0				
MESJ	BZ	9186	41	EP		1434	8.440	.060							1.0
MESJ	BZ	9186	41	IAMB		1434	10.17			235	1.0				
GGNV	BZ	9193	40	EP		1434	8.61	-.010							1.0
GGNV	BZ	9193	40	IAMB		1434	10.90			186	1.0				

August 23 2023 Hour: 23:033.5 Lat: 36.54N Lon: 7.31W Depth: 17F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	165	331	EP		23	0	57.74	-.080						1.0
MESJ	HE	165	331	ES		23	1	15.700	.130						1.0
MESJ	HE	165	331	IAML		23	1	17.12		0.80	0.1				
GRNL	CE	207	328	ES		23	1	24.42	-.040						1.0
GRNL	CE	207	328	IAML		23	1	25.37		0.60	0.1				

August 24 2023 Hour: 5:1657.8 Lat: 36.50N Lon: 11.14W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML 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
GRNL	CZ	290	51	EP		517		38.10	-.090						1.0
GRNL	CE	290	51	ES		518		7.760	.090						1.0
GRNL	CE	290	51	IAML		518		9.87		1.00	0.1				

August 24 2023 Hour: 10:2938.7 Lat: 35.96N Lon: 10.27W Depth: 40F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.2 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	208	44	EP		1030		7.560	.140						1.0
MORF	HE	208	44	ES		1030		28.380	.020						1.0
MORF	HE	208	44	IAML		1030		29.42		17	0.2				
MESJ	HN	278	41	ES		1030		43.350	.130						1.0
MESJ	HN	278	41	IAML		1030		44.84		4	0.2				
GRNL	CZ	283	32	EP		1030		16.34	-.310						1.0
GRNL	CE	283	32	ES		1030		44.320	.000						1.0
GRNL	CN	283	32	IAML		1030		46.52		13	0.2				

August 24 2023 Hour: 14:1338.1 Lat: 42.16N Lon: 29.25W Depth: 10F Agency: IGL Distant
Magnitudes: 4.4Mb IGL Rms: 0.1 secs

AZORES ISLANDS REGION Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	1814	97	EP		1417		27.27	-.020						1.0
GRNL	BZ	1814	97	IAMB		1417		33.77		35	1.5				
MESJ	BZ	1853	98	EP		1417		31.980	.170						1.0
MESJ	BZ	1853	98	IAMB		1417		37.48		61	1.7				
MESJ	BE	1853	98	ES		1420		37.87	-.150						1.0

August 24 2023 Hour: 21:3854.4 Lat: 37.31N Lon: 8.56W Depth: 11F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	262	EP		2138		56.55	-.130						1.0
MORF	HN	9	262	ES		2138		58.36	-.010						1.0
MORF	HN	9	262	IAML		2138		58.78		1325	0.2				
MESJ	HZ	65	27	EP		2139		5.090	.100						1.0
MESJ	HN	65	27	ES		2139		12.51	-.250						1.0
MESJ	HN	65	27	IAML		2139		14.57		14	0.1				
GRNL	CZ	88	359	EP		2139		8.840	.410						1.0
GRNL	CN	88	359	ES		2139		18.59	-.110						1.0
GRNL	CN	88	359	IAML		2139		19.00		70	0.2				

August 24 2023 Hour: 22:4826.4 Lat: 39.57N Lon: 143.28E Depth: 35F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

OFF EAST COAST OF HONSHU, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ10950	338		EPdif		23	2	0.95	-.020						1.0
GRNL	BZ10950	338		EPP		23	6	1.700	.140						1.0
GRNL	BE10950	338		ESKSac		2312		36.060	.100						1.0
GRNL	BE10950	338		ESS		2320		13.58	-.040						1.0

GRNL	BZ10950	338	IAMs_20	2354	27.02				6374	16.1								
MESJ	BZ10967	338	EPdif	23	2	1.56	-.080											1.0
MESJ	BZ10967	338	EPP	23	6	2.760	.070											1.0
MESJ	BN10967	338	ESKSac	2312	36.54	-.180												0.9
MESJ	BE10967	338	ESS	2320	15.730	.030												1.0
MESJ	BZ10967	338	IAMs_20	2351	54.92				6934	20.0								
MORF	BZ11036	338	EPP	23	6	7.47	-.030											1.0
MORF	BE11036	338	IAMs_20	2350	30.03				5959	19.2								

August 25 2023 Hour: 1:7 8.2 Lat: 28.47S Lon: 12.59W Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

SOUTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	7378	3	EP		117	56.83	-.010							1.0
GRNL	BZ	7378	3	IAMB		117	57.73			16	1.1				

August 25 2023 Hour: 1:45 19.5 Lat: 36.23N Lon: 8.53W Depth: 9F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	120	355	EP		145	38.520	.050							1.0
MORF	HN	120	355	ES		145	52.26	-.070							1.0
MORF	HN	120	355	IAML		145	54.60			52	0.1				
MESJ	HN	181	9	ES		146	6.280	.120							1.0
MESJ	HN	181	9	IAML		146	11.08			13	0.2				
GRNL	CZ	208	359	EP		145	49.64	-.260							1.0
GRNL	CE	208	359	ES		146	12.260	.150							1.0
GRNL	CN	208	359	IAML		146	19.60			24	0.2				

August 25 2023 Hour: 2:2 57.0 Lat: 36.22N Lon: 8.54W Depth: 13F Agency: IGL Regional
Magnitudes: 3.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	121	355	EP		2	3	16.03	-.000						1.0
MORF	HE	121	355	ES		2	3	29.970	.060						1.0
MORF	HE	121	355	IAML		2	3	32.95		809	0.2				
GRNL	CZ	210	359	EP		2	3	27.14	-.060						1.0

August 25 2023 Hour: 2:12 37.3 Lat: 36.26N Lon: 8.60W Depth: 14F 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	116	358	EP		212	55.36	-.150							1.0
MORF	HE	116	358	ES		213	8.970	.150							1.0
MORF	HE	116	358	IAML		213	11.98			8	0.1				

August 25 2023 Hour: 2:56 2.1 Lat: 36.53N Lon: 8.04W Depth: 18F 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	102	328	EP		256	18.24	-.130							1.0
MESJ	HN	147	354	ES		256	40.310	.220							1.0
MESJ	HE	147	354	IAML		256	40.56			1	0.2				
GRNL	CZ	182	345	EP		256	28.33	-.100							1.0

August 25 2023 Hour: 3:27 41.9 Lat: 38.31N Lon: 8.45W Depth: 1F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs

SE ALCACER DO SAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	25	206	EP		327	45.83	-.060							1.0
GRNL	CN	25	206	ES		327	48.880	.060							1.0
GRNL	CN	25	206	IAML		327	49.48			5	0.2				

August 25 2023 Hour: 4:47 50.5 Lat: 36.39N Lon: 8.55W Depth: 1F Agency: IGL Regional
Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	101	355	EP		448	6.860	.000							1.0

August 25 2023 Hour: 5:25 1.0 Lat: 36.30N Lon: 8.55W Depth: 11F Agency: IGL Regional
Magnitudes: 1.2ML 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	112	355	EP		525	18.74	-.050							1.0
MORF	HN	112	355	ES		525	31.810	.050							1.0
MORF	HE	112	355	IAML		525	33.33			5	0.1				

August 25 2023 Hour: 5:40 49.2 Lat: 37.33N Lon: 8.56W Depth: 6F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.2 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	255	EP		540	50.80	-.210							1.0
MORF	HE	9	255	ES		540	52.440	.120							1.0
MORF	HE	9	255	IAML		540	52.71			37	0.1				
GRNL	CZ	87	359	EP		541	3.520	.260							1.0
GRNL	CE	87	359	ES		541	13.34	-.170							1.0
GRNL	CN	87	359	IAML		541	15.68			5	0.1				

August 25 2023 Hour: 6:24 23.0 Lat: 36.33N Lon: 8.56W Depth: 11F 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	355	EP		624	40.04	-.170							1.0
MORF	HE	109	355	ES		624	52.930	.170							1.0
MORF	HE	109	355	IAML		624	54.34			6	0.1				

August 25 2023 Hour: 17:17 51.3 Lat: 35.58N Lon: 3.64W 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
GRNL	CZ	522	304	EP		1719	1.15	-.000							1.0

August 25 2023 Hour: 17:45 37.8 Lat: 36.52N Lon: 9.60W Depth: 18F 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	121	44	EP		1745	56.52	-.110							1.0
MORF	HE	121	44	ES		1746	10.34	-.040							1.0
MORF	HE	121	44	IAML		1746	13.69			10	0.2				
GRNL	CZ	199	27	EP		1746	6.09	-.100							1.0
GRNL	CN	199	27	ES		1746	27.180	.260							1.0
GRNL	CN	199	27	IAML		1746	28.34			5	0.1				

August 25 2023 Hour: 21:25 31.0 Lat: 37.02N Lon: 8.88W Depth: 19F Agency: IGL Regional
Magnitudes: 0.9ML 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	37	33	EP		2125	37.59	-.060							1.0
MORF	HE	37	33	ES		2125	42.530	.050							1.0
MORF	HE	37	33	IAML		2125	42.82			11	0.1				
MESJ	HE	108	33	ES		2126	0.420	.010							1.0
MESJ	HN	108	33	IAML		2126	1.47			3	0.2				

**August 26 2023 Hour: 1:25 41.1 Lat: 36.28N Lon: 9.92W Depth: 40F 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	160	44	EP		126	3.880	.130							1.0
MORF	HN	160	44	ES		126	20.32	-.010							1.0
MORF	HE	160	44	IAML		126	22.67			93	0.1				
MESJ	HZ	229	41	EP		126	12.410	.080							1.0
MESJ	HN	229	41	EP		126	35.24								
MESJ	HN	229	41	IAML		126	36.26			19	0.2				
GRNL	CZ	235	30	EP		126	12.90	-.160							1.0
GRNL	CN	235	30	ES		126	36.39	-.040							1.0
GRNL	CN	235	30	IAML		126	37.73			41	0.1				

**August 26 2023 Hour: 2:33 5.7 Lat: 36.53N Lon: 7.66W Depth: 19F Agency: IGL Regional
Rms: 0.0 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	153	341	EP		233	28.360	.010							1.0
GRNL	CZ	192	335	EP		233	33.21	-.010							1.0

**August 26 2023 Hour: 8:1 53.0 Lat: 36.78N Lon: 10.85W Depth: 0 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
GRNL	CZ	250	53	EP		8 2	29.41	-.100							1.0
GRNL	CE	250	53	ES		8 2	56.240	.090							1.0
GRNL	CN	250	53	IAML		8 2	58.33			6	0.2				
MESJ	HE	261	62	ES		8 2	58.570	.010							1.0
MESJ	HN	261	62	IAML		8 3	1.54			3	0.2				

**August 26 2023 Hour: 12:34 25.3 Lat: 35.37N Lon: 3.63W Depth: 25F 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
GRNL	CZ	536	306	EP		1235	34.600	.000							1.0

**August 26 2023 Hour: 12:37 21.8 Lat: 35.38N Lon: 3.62W Depth: 26F 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	494	305	EP		1238	25.87	-.060							1.0
GRNL	CZ	536	306	EP		1238	31.060	.060							1.0

**August 26 2023 Hour: 13:11 49.5 Lat: 36.41N Lon: 8.65W Depth: 18F 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	100	360	EP		1312	5.18	-.140							1.0
MORF	HE	100	360	ES		1312	16.990	.130							1.0
MORF	HE	100	360	IAML		1312	17.82			8	0.1				
MESJ	HN	163	13	ES		1312	31.150	.120							1.0
MESJ	HN	163	13	IAML		1312	32.55			3	0.1				
GRNL	CZ	189	2	EP		1312	16.67	-.010							1.0
GRNL	CN	189	2	ES		1312	36.40	-.100							1.0
GRNL	CN	189	2	IAML		1312	38.90			3	0.1				

August 27 2023 Hour: 1:10 31.0 Lat: 36.28N Lon: 10.76W Depth: 23F 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	281	43	EP		111	9.44	-.070							1.0
GRNL	CN	281	43	ES		111	37.660	.060							1.0
GRNL	CE	281	43	IAML		111	40.71			5	0.2				
MESJ	HZ	285	52	EP		111	9.970	.020							1.0

August 27 2023 Hour: 5:13 12.2 Lat: 37.33N Lon: 8.54W Depth: 8F Agency: IGL Regional
Magnitudes: 1.3ML 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	252	EP		513	14.22	-.220							1.0
MORF	HN	11	252	ES		513	16.090	.010							1.0
MORF	HN	11	252	IAML		513	16.58			196	0.2				
MESJ	HZ	63	26	EP		513	22.480	.090							1.0
GRNL	CZ	86	358	EP		513	26.310	.190							1.0
GRNL	CN	86	358	ES		513	36.21	-.060							1.0
GRNL	CN	86	358	IAML		513	36.43			5	0.1				

August 27 2023 Hour: 17: 8 0.9 Lat: 38.43N Lon: 7.78W Depth: 7F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NW PORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	76	211	EP		17 8	13.260	.010							1.0
MESJ	HE	76	211	ES		17 8	22.16	-.100							1.0
MESJ	HN	76	211	IAML		17 8	24.21			2	0.1				
GRNL	CZ	78	243	EP		17 8	13.570	.010							1.0
GRNL	CN	78	243	ES		17 8	22.870	.080							1.0
GRNL	CN	78	243	IAML		17 8	23.95			2	0.1				

August 27 2023 Hour: 21:45 0.0 Lat: 5.34N Lon: 76.69W Depth: 15F Agency: IGL Distant
Magnitudes: 5.3Ms IGL Rms: 0.1 secs

COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7720	52	EP		2156	7.360	.060							1.0
MORF	BZ	7720	52	IAMs_20		2221	54.14			1678	28.6				
GRNL	BZ	7741	51	EP		2156	8.470	.010							1.0
GRNL	BN	7741	51	ES		22 5	16.710	.010							1.0
GRNL	BZ	7741	51	IAMs_20		2219	59.06			2138	22.4				
MESJ	BZ	7767	52	EP		2156	9.76	-.120							1.0
MESJ	BN	7767	52	ES		22 5	19.440	.030							1.0
MESJ	BZ	7767	52	IAMs_20		2220	4.77			2159	24.8				

August 28 2023 Hour: 8:52 37.0 Lat: 38.73N Lon: 7.87W Depth: 12F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

E ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	92	221	EP		852	51.850	.190							1.0
GRNL	CE	92	221	ES		853	2.30	-.070							1.0
GRNL	CN	92	221	IAML		853	3.86			10	0.2				
MESJ	HZ	104	197	EP		852	53.36	-.040							1.0
MESJ	HE	104	197	ES		853	5.32	-.070							1.0
MESJ	HN	104	197	IAML		853	6.37			5	0.1				

August 28 2023 Hour: 18:34 18.6 Lat: 38.70N Lon: 7.84W Depth: 11F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

E ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	92	224	EP		1834	33.340	.160							1.0
GRNL	CN	92	224	ES		1834	43.82	-.020							1.0
GRNL	CN	92	224	IAML		1834	44.75			7	0.1				

MESJ HE 101 199 ES 1834 46.27-.130 1.0
 MESJ HN 101 199 IAML 1834 47.31 7 0.1

**August 28 2023 Hour: 19:55 32.6 Lat: 6.79S Lon: 116.55E Depth:514FAgency: IGL Distant
 Rms: 0.0 secs**

BALI SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13507	310	EPKP			2013	26.84	-.070							1.0
MESJ	BZ13507	310	EPP			2015	6.69	-.020							1.0
GRNL	BZ13527	311	EPKP			2013	27.290	.050							1.0
GGNV	BZ13554	312	EPKP			2013	27.780	.090							1.0
GGNV	BZ13554	312	EPP			2015	9.570	.020							1.0
MORF	BZ13561	310	EPKP			2013	27.85	-.040							1.0
MORF	BZ13561	310	EPP			2015	10.01	-.020							1.0

**August 28 2023 Hour: 20: 8 6.7 Lat: 7.05S Lon: 117.21E Depth:478FAgency: IGL Distant
 Rms: 0.1 secs**

BALI SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13581	310	EPKP			2026	6.150	.190							0.9
GRNL	BZ13602	311	EPKP			2026	6.23	-.060							1.0
MORF	BZ13636	310	EPKP			2026	6.84	-.110							1.0

**August 29 2023 Hour: 0:46 35.0 Lat: 38.73N Lon: 7.93W Depth: 17F Agency: IGL Regional
 Magnitudes: 0.7ML IGL Rms: 0.1 secs**

E ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	89	219	EP		046	49.330	.180							1.0
GRNL	CN	89	219	ES		046	59.25	-.230							1.0
GRNL	CE	89	219	IAML		047	1.76				2	0.2			
MESJ	HZ	102	194	EP		046	51.12	-.040							1.0
MESJ	HE	102	194	ES		047	3.040	.080							1.0
MESJ	HN	102	194	IAML		047	3.96				2	0.2			

**August 29 2023 Hour: 4:34 45.9 Lat: 5.52S Lon: 129.98E Depth:219FAgency: IGL Distant
 Rms: 0.1 secs**

BANDA SEA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14497	316	EPP			455	45.61	-.140							1.0
GRNL	BZ14509	317	EPP			455	46.510	.090							1.0
GGNV	BZ14518	318	EPP			455	46.980	.050							1.0
MORF	BZ14560	316	EPP			455	49.42	-.010							1.0

**August 29 2023 Hour: 14:42 30.3 Lat: 38.73N Lon: 7.90W Depth: 10F Agency: IGL Regional
 Magnitudes: 0.6ML IGL Rms: 0.0 secs**

E ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	CZ	90	221	EP		1442	44.820	.030							1.0
GRNL	CE	90	221	ES		1442	55.31	-.030							1.0
GRNL	CE	90	221	IAML		1442	56.06				2	0.2			

**August 30 2023 Hour: 4:50 32.5 Lat: 36.65N Lon: 8.39W Depth: 24F Agency: IGL Regional
 Magnitudes: 3.2ML 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	76	342	EP		450	44.920	.060							1.0
MORF	HN	76	342	ES		450	53.860	.000							1.0
MORF	HN	76	342	IAML		450	57.31				840	0.3			
MESJ	HZ	133	6	EP		450	52.360	.150							1.0
GRNL	CZ	162	354	EP		450	55.81	-.090							1.0
GRNL	CN	162	354	ES		451	12.84	-.130							1.0
GRNL	CN	162	354	IAML		451	18.61				273	0.2			

August 30 2023 Hour: 18:59 26.3 Lat: 54.93N Lon: 161.35W Depth: 51F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRNL	BZ	9378	21	EP		1911	52.82	-.000							1.0
GRNL	BZ	9378	21	IAMB		1911	55.32			13	0.8				

August 31 2023 Hour: 2:44 36.2 Lat: 28.00S Lon: 13.27W Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

SOUTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7304	4	EP		255	20.60	-.000							1.0
MESJ	BZ	7304	4	IAMB		255	23.68			20	1.3				

August 31 2023 Hour: 3:43 20.6 Lat: 37.04N Lon: 8.84W 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	34	29	EP		343	26.84	-.050							1.0
MORF	HE	34	29	ES		343	31.57	0.100							1.0
MORF	HE	34	29	IAML		343	32.19			10	0.1				
MESJ	HZ	105	31	EP		343	37.15	0.030							1.0
MESJ	HN	105	31	ES		343	49.08	-.080							1.0
MESJ	HN	105	31	IAML		343	50.25			0.90	0.1				

August 31 2023 Hour: 21:39 4.9 Lat: 38.40N Lon: 8.17W Depth: 3F Agency: IGL Regional
Magnitudes: 0.5ML 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	48	227	EP		2139	12.66	0.090							1.0
GRNL	CN	48	227	ES		2139	18.18	-.010							1.0
GRNL	CN	48	227	IAML		2139	18.53			2	0.1				
MESJ	HZ	63	184	EP		2139	15.03	0.040							1.0
MESJ	HN	63	184	ES		2139	22.24	-.120							1.0
MESJ	HN	63	184	IAML		2139	23.81			2	0.1				
MORF	HZ	129	199	EP		2139	25.65	0.040							1.0
MORF	HE	129	199	ES		2139	40.70	-.040							1.0
MORF	HN	129	199	IAML		2139	42.37			3	0.1				