

# Seismological Bulletin

from the

UNIVERSITY OF LISBON  
FACULTY OF SCIENCE

## IDL Seismic Network

July to August

2020

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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	77m

Marmelete (Picos)  
MORF

Latitude	37.3043N
Longitude	8.6527W
Height	560m

Messejana  
MESJ

Latitude	37.8395N
Longitude	8.2199W
Height	250m

July 1 2020 Hour: 1:54 32.1 Lat: 36.68N Lon: 11.17W Depth: 14F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.0 secs

**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	235	72	EP		155	5.360	.050							1.0
MORF	HE	235	72	ES		155	29.580	.010							1.0
MORF	HE	235	72	IAML		155	30.90			7	0.2				
MESJ	HZ	292	63	EP		155	12.34	-.030							1.0
MESJ	HE	292	63	ES		155	41.74	-.030							1.0
MESJ	HN	292	63	IAML		155	44.26			2	0.2				

July 1 2020 Hour: 4:49 40.2 Lat: 38.38N Lon: 8.11W Depth: 6F Agency: IGL Regional  
Magnitudes: 1.2ML 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
MESJ	HZ	61	189	EP		449	50.140	.080							1.0
MESJ	HN	61	189	ES		449	57.20	-.060							1.0
MESJ	HE	61	189	IAML		449	57.94			4	0.1				
MORF	HZ	129	202	EP		450	0.810	.090							1.0
MORF	HN	129	202	ES		450	15.58	-.110							1.0
MORF	HN	129	202	IAML		450	16.92			8	0.2				

July 1 2020 Hour: 6: 6 45.3 Lat: 34.43N Lon: 5.01W Depth: 5F Agency: IGL Regional  
Magnitudes: 3.8ML 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	458	315	EP		6 7	46.83	-.230							1.0
MORF	HN	458	315	ES		6 8	32.360	.190							1.0
MORF	HN	458	315	IAML		6 8	39.21			167	0.4				
MESJ	HZ	476	324	EP		6 7	49.260	.070							1.0
MESJ	HN	476	324	ES		6 8	35.81	-.040							1.0
MESJ	HN	476	324	IAML		6 8	41.89			192	0.7				

July 1 2020 Hour: 11:46 5.5 Lat: 34.42N Lon: 5.12W Depth: 2F Agency: IGL Regional  
Rms: 0.0 secs

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	471	325	EP		1147	9.180	.000							1.0

July 1 2020 Hour: 16:38 41.7 Lat: 38.64N Lon: 9.81W Depth: 32F Agency: IGL Regional  
Magnitudes: 1.5ML 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
MESJ	HZ	165	122	EP		1639	5.110	.120							1.0
MESJ	HN	165	122	ES		1639	21.93	-.040							1.0
MESJ	HE	165	122	IAML		1639	24.58			3	0.2				
MORF	HZ	180	145	EP		1639	6.920	.080							1.0
MORF	HN	180	145	ES		1639	25.02	-.150							1.0
MORF	HN	180	145	IAML		1639	26.60			8	0.1				

July 1 2020 Hour: 18:25 49.1 Lat: 36.95N Lon: 8.78W Depth: 10F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	41	16	EP		1825	56.000	.100							1.0
MORF	HE	41	16	ES		1826	0.74	-.130							1.0
MORF	HN	41	16	IAML		1826	1.70			4	0.1				
MESJ	HN	110	27	ES		1826	19.440	.040							1.0
MESJ	HN	110	27	IAML		1826	20.99			2	0.2				

July 1 2020 Hour: 19:13 30.1 Lat: 36.45N Lon: 7.49W Depth: 9F Agency: IGL Regional  
Magnitudes: 2.4ML 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	168	337	EP		1913	55.44	-.060							1.0
MESJ	HN	168	337	ES		1914	14.080	.060							1.0
MESJ	HE	168	337	IAML		1914	20.21			39	0.4				

July 1 2020 Hour: 22:35 32.0 Lat: 36.74N Lon: 11.07W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	224	73	EP		2236	2.740	.030							1.0
MORF	HN	224	73	ES		2236	25.10	-.010							1.0
MORF	HN	224	73	IAML		2236	26.99			11	0.2				
MESJ	HZ	281	63	EP		2236	9.55	-.160							1.0
MESJ	HN	281	63	ES		2236	37.350	.140							1.0
MESJ	HE	281	63	IAML		2236	40.60			2	0.2				

July 2 2020 Hour: 0:47 50.6 Lat: 38.16N Lon: 8.17W Depth: 3F Agency: IGL Regional  
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	36	187	EP		047	56.480	.040							1.0
MESJ	HN	36	187	ES		048	0.64	-.040							1.0
MESJ	HE	36	187	IAML		048	0.77			4	0.1				

July 2 2020 Hour: 15:30 12.6 Lat: 36.65N Lon: 9.76W Depth: 32F 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	122	53	EP		1530	30.640	.050							1.0
MORF	HN	122	53	ES		1530	43.790	.070							1.0
MORF	HE	122	53	IAML		1530	44.44			140	0.2				
MESJ	HZ	190	46	EP		1530	38.81	-.130							1.0
MESJ	HE	190	46	ES		1530	58.180	.000							1.0
MESJ	HN	190	46	IAML		1531	0.38			28	0.2				

July 2 2020 Hour: 18:16 55.2 Lat: 8.06N Lon: 38.08W Depth: 10F Agency: IGL Distant  
Magnitudes: 4.6Ms IGL Rms: 0.0 secs

CENTRAL MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4395	38	EP		1824	25.96	-.030							1.0
MORF	BE	4395	38	IAMs_20		1836	6.92			991	19.7				
MESJ	BZ	4463	38	EP		1824	31.020	.030							1.0
MESJ	BZ	4463	38	IAMs_20		1837	2.81			773	19.1				

July 3 2020 Hour: 0:53 46.1 Lat: 38.31N Lon: 7.70W Depth: 2F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.0 secs

NE PORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	69	221	EP		053	57.30	-.020							1.0
MESJ	HN	69	221	ES		054	5.500	.020							1.0
MESJ	HN	69	221	IAML		054	8.24			3	0.1				

July 3 2020 Hour: 1: 4 7.0 Lat: 36.55N Lon: 7.62W Depth: 17F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	153	340	EP		1 4	29.77	-.040							1.0
MESJ	HE	153	340	ES		1 4	46.470	.040							1.0
MESJ	HN	153	340	IAML		1 4	48.89			4	0.1				

July 3 2020 Hour: 8:58 55.4 Lat: 37.33N Lon: 8.56W Depth: 17F Agency: IGL Regional  
 Magnitudes: 1.0ML IGL Rms: 0.1 secs  
 N MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	251	EP		858	58.32	-.190							1.0
MORF	HE	9	251	ES		859	0.76	-.020							1.0
MORF	HE	9	251	IAML		859	1.89		46	0.1					
MESJ	HZ	64	28	EP		859	5.890	.040							1.0
MESJ	HN	64	28	ES		859	13.650	.180							1.0
MESJ	HN	64	28	IAML		859	14.54		7	0.2					

July 3 2020 Hour: 9: 7 17.6 Lat: 36.52N Lon: 7.26W Depth: 14F 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	169	330	EP		9 7	42.61	-.060							1.0
MESJ	HE	169	330	ES		9 8	1.060	.060							1.0
MESJ	HN	169	330	IAML		9 8	3.34		3	0.1					

July 3 2020 Hour: 14:29 20.5 Lat: 36.57N Lon: 10.65W Depth: 28F 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	196	65	EP		1429	47.860	.040							1.0
MESJ	HZ	258	56	EP		1429	55.39	-.100							1.0
MESJ	HN	258	56	ES		1430	21.060	.060							1.0
MESJ	HN	258	56	IAML		1430	24.09		2	0.3					

July 3 2020 Hour: 16:17 16.2 Lat: 38.25N Lon: 9.47W Depth: 4F Agency: IGL Regional  
 Magnitudes: 0.9ML IGL Rms: 0.1 secs  
 SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	119	112	EP		1617	35.20	-.120							1.0
MESJ	HN	119	112	ES		1617	49.400	.120							1.0
MESJ	HN	119	112	IAML		1617	51.43		2	0.3					

July 3 2020 Hour: 22: 3 36.4 Lat: 32.61N Lon: 4.76W Depth: 19F Agency: IGL Regional  
 MOROCCO Net: IMP Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	631	327	EP		22 4	57.61	-.070							1.0
MESJ	HZ	660	332	EP		22 5	1.310	.070							1.0

July 4 2020 Hour: 1:34 44.3 Lat: 9.64S Lon: 154.98E Depth: 10F Agency: IGL Distant  
 Magnitudes: 5.2Ms IGL Rms: 0.0 secs  
 D-ENTRECASTEAUX ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16445	336	EPKP			154	31.710	.070							1.0
MESJ	BZ16486	334	EPKP			154	33.13	-.020							1.0
MESJ	BZ16486	334	IAMs_20			256	42.99		556	26.1					
MORF	BZ16556	334	EPKP			154	35.74	-.040							1.0

July 4 2020 Hour: 9:53 0.1 Lat: 39.06N Lon: 70.91E Depth: 10F Agency: IGL Distant  
 Magnitudes: 5.3Ms IGL Rms: 0.0 secs  
 TAJIKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6673	296	EP		10 3	7.150	.010							1.0
MESJ	BN	6673	296	ES		1011	20.64	-.070							1.0
MESJ	BZ	6673	296	IAMs_20		1032	52.52		1982	26.0					
MORF	BZ	6735	296	EP		10 3	11.010	.000							1.0
MORF	BN	6735	296	ES		1011	27.990	.050							1.0
MORF	BZ	6735	296	IAMs_20		1034	35.74		2379	14.4					

July 4 2020 Hour: 17:9 6.9 Lat: 36.45N Lon: 7.25W Depth: 36F 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
MORF	HN	157	307	ES		17 9	45.34	-.130							1.0
MORF	HN	157	307	IAML		17 9	47.67			9	0.2				
MESJ	HZ	177	331	EP		17 9	31.52	-.060							1.0
MESJ	HN	177	331	ES		17 9	49.800	.180							1.0
MESJ	HN	177	331	IAML		17 9	52.14			2	0.1				

July 4 2020 Hour: 18:43 56.4 Lat: 37.23N Lon: 4.47W Depth: 30F 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	339	283	EP		1844	41.24	-.070							1.0
MESJ	HN	339	283	ES		1845	14.260	.190							1.0
MESJ	HN	339	283	IAML		1845	18.86			2	0.1				
MORF	HZ	371	273	EP		1844	45.30	-.120							1.0

July 4 2020 Hour: 23:28 26.3 Lat: 34.24N Lon: 5.19W Depth: 1 Agency: IGL Regional  
 Magnitudes: 2.3ML IGL Rms: 0.1 secs  
 MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	484	327	EP		2329	31.660	.080							1.0
MESJ	HE	484	327	ES		2330	19.11	-.080							1.0
MESJ	HE	484	327	IAML		2330	22.22			6	0.3				

July 5 2020 Hour: 7:19 46.8 Lat: 38.16N Lon: 8.89W Depth: 1 Agency: IGL Regional  
 W MELIDES, PORTUGAL Net: IMP Rms: 0.0 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	69	121	EP		719	57.87	-.010							1.0

July 5 2020 Hour: 8:53 35.4 Lat: 53.37N Lon: 160.43W Depth: 10F Agency: IGL Distant  
 Magnitudes: 5.1Ms IGL Rms: 0.1 secs  
 SOUTH OF ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9556	22	EP		9 6	15.690	.040							1.0
MESJ	BN	9556	22	ESKsac		916	41.23	-.160							1.0
MESJ	BZ	9556	22	IAMs_20		946	26.26			547	16.3				
MORF	BZ	9602	22	EP		9 6	17.880	.120							1.0
MORF	BZ	9602	22	IAMs_20		940	57.35			812	18.9				

July 5 2020 Hour: 10:26 7.3 Lat: 36.88N Lon: 11.39W Depth: 13F Agency: IGL Regional  
 Magnitudes: 1.8ML IGL Rms: 0.1 secs  
 AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	248	78	EP		1026	42.23	-.080							1.0
MORF	HE	248	78	ES		1027	7.79	-.050							1.0
MORF	HE	248	78	IAML		1027	10.02			9	0.1				
MESJ	HZ	300	68	EP		1026	48.70	-.090							1.0
MESJ	HN	300	68	ES		1027	19.280	.230							1.0
MESJ	HE	300	68	IAML		1027	21.66			3	0.2				

July 5 2020 Hour: 11:17 28.0 Lat: 36.66N Lon: 7.32W Depth: 20F Agency: IGL Regional  
 Magnitudes: 1.1ML IGL Rms: 0.1 secs  
 STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	139	301	EP		1117	48.920	.100							1.0
MESJ	HZ	153	329	EP		1117	50.50	-.130							1.0
MESJ	HN	153	329	ES		1118	7.140	.030							1.0
MESJ	HN	153	329	IAML		1118	9.84			2	0.2				

July 5 2020 Hour: 17:23 34.1 Lat: 37.86N Lon: 8.79W Depth: 12F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

SE SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	50	92	EP		1723	42.530	.160							1.0
MESJ	HE	50	92	ES		1723	48.34	-.080							1.0
MESJ	HN	50	92	IAML		1723	49.47			24	0.2				
MORF	HZ	63	169	EP		1723	44.340	.040							1.0
MORF	HN	63	169	ES		1723	51.64	-.120							1.0
MORF	HE	63	169	IAML		1723	52.95			20	0.2				

July 5 2020 Hour: 17:43 13.1 Lat: 37.85N Lon: 8.78W Depth: 12F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

SE SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	49	91	EP		1743	21.360	.090							1.0
MESJ	HN	49	91	ES		1743	27.16	-.050							1.0
MESJ	HN	49	91	IAML		1743	28.28			103	0.2				
MORF	HZ	62	169	EP		1743	23.150	.000							1.0
MORF	HN	62	169	ES		1743	30.42	-.050							1.0
MORF	HN	62	169	IAML		1743	31.98			68	0.1				

July 5 2020 Hour: 18:50 1.0 Lat: 14.93S Lon: 167.36E Depth: 121F 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
MESJ	BZ17457	351		EP	KPab	1910	12.460	.110							1.0
MORF	BZ17522	352		EP	KPab	1910	14.85	-.110							1.0

July 6 2020 Hour: 5:18 50.8 Lat: 37.31N Lon: 8.55W Depth: 14F Agency: IGL Regional  
Magnitudes: 0.4ML 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	266	EP		518	53.26	-.260							1.0
MORF	HE	9	266	ES		518	55.670	.150							1.0
MORF	HE	9	266	IAML		518	56.31			12	0.1				
MESJ	HZ	66	26	EP		519	1.480	.090							1.0
MESJ	HN	66	26	ES		519	9.180	.030							1.0
MESJ	HE	66	26	IAML		519	9.86			1	0.1				

July 6 2020 Hour: 5:26 27.3 Lat: 36.63N Lon: 9.67W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	50	EP		526	45.70	-.150							1.0
MORF	HE	118	50	ES		526	59.550	.190							1.0
MORF	HN	118	50	IAML		527	0.92			11	0.2				
MESJ	HZ	186	43	EP		526	54.16	-.150							1.0
MESJ	HN	186	43	ES		527	14.120	.110							1.0
MESJ	HN	186	43	IAML		527	16.76			2	0.2				

July 6 2020 Hour: 9: 6 14.0 Lat: 36.83N Lon: 7.60W Depth: 26F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	107	300	EP		9 6	30.47	-.030							1.0
MESJ	HN	125	334	ES		9 6	46.210	.030							1.0
MESJ	HN	125	334	IAML		9 6	46.87			2	0.2				

July 6 2020 Hour: 14:57 36.2 Lat: 36.75N Lon: 6.96W Depth: 25F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	163	293	ES		1458	16.59	-.020							1.0
MORF	HE	163	293	IAML		1458	18.05			6	0.2				
MESJ	HZ	164	318	EP		1457	59.75	-.000							1.0
MESJ	HN	164	318	ES		1458	16.970	.020							1.0
MESJ	HN	164	318	IAML		1458	18.82			1.00	0.1				

July 6 2020 Hour: 22:54 47.0 Lat: 5.64S Lon: 110.68E Depth: 529F Agency: IGL Distant  
Rms: 0.1 secs

JAVA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12927	309	EP	KPdf		2312	29.70	-.080							1.0
MESJ	BZ12927	309	EPP			2313	44.470	.030							1.0
MORF	BZ12979	309	EP	KPdf		2312	30.770	.050							1.0
MORF	BZ12979	309	EPP			2313	47.680	.000							1.0
GGNV	BZ12982	311	EP	KPdf		2312	30.59	-.090							1.0
GGNV	BZ12982	311	EPP			2313	47.870	.090							1.0

July 7 2020 Hour: 1:55 13.3 Lat: 37.59N Lon: 7.97W Depth: 1F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

NE ALMODOVAR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	35	322	EP		155	18.98	-.040							1.0
MESJ	HN	35	322	ES		155	23.230	.040							1.0
MESJ	HN	35	322	IAML		155	25.55			27	0.3				

July 7 2020 Hour: 2:39 48.6 Lat: 36.42N Lon: 7.84W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	122	324	ES		240	21.48	-.140							1.0
MORF	HE	122	324	IAML		240	23.14			3	0.2				
MESJ	HZ	161	348	EP		240	12.540	.020							1.0
MESJ	HE	161	348	ES		240	30.090	.120							1.0
MESJ	HN	161	348	IAML		240	31.56			2	0.2				

July 7 2020 Hour: 6:29 41.9 Lat: 36.51N Lon: 7.59W Depth: 18F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	158	339	EP		630	5.14	-.080							1.0
MESJ	HN	158	339	ES		630	22.310	.080							1.0
MESJ	HN	158	339	IAML		630	25.72			1	0.1				

July 7 2020 Hour: 20:32 26.7 Lat: 5.44N Lon: 82.72W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

SOUTH OF PANAMA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8243	53	EP		2044	3.04	-.030							1.0
MORF	BZ	8243	53	IAMB		2044	3.47			28	1.0				
MESJ	BZ	8287	52	EP		2044	5.340	.030							1.0
MESJ	BZ	8287	52	IAMB		2044	5.79			10	0.9				

July 8 2020 Hour: 1:7 4.3 Lat: 56.20N Lon: 153.84W Depth: 11F Agency: IGL Distant  
Magnitudes: 5.1Ms IGL Rms: 0.1 secs

KODIAK ISLAND REGION, ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9093	27	EP		119	23.320	.090							1.0
MESJ	BE	9093	27	ES		129	36.72	-.090							1.0
MESJ	BZ	9093	27	IAMS_20		154	54.27			698	16.2				



**July 9 2020 Hour: 5:14 2.6 Lat: 45.75N Lon: 149.49E Depth:132F Agency: IGL Distant**  
**Magnitudes: 5.4Mb 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	BZ10491	342	EP			527	6.960	.010							1.0
MESJ	BZ10491	342	IAmb			527	7.44			12	0.9				
MORF	BZ10559	343	EP			527	9.75-	.010							1.0
MORF	BZ10559	343	IAmb			527	11.69			22	0.9				

**July 9 2020 Hour: 5:56 50.4 Lat: 35.45N Lon: 4.68W Depth: 25F Agency: IGL Regional**  
**Magnitudes: 2.1ML 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	412	301	EP		557	44.61-	.090							1.0
MORF	HN	412	301	ES		558	24.320	.010							1.0
MORF	HN	412	301	IAML		558	26.31			5	0.1				
MESJ	HZ	413	311	EP		557	44.840	.010							1.0
MESJ	HN	413	311	ES		558	24.620	.080							1.0

**July 9 2020 Hour: 8:11 33.6 Lat: 36.76N Lon: 9.64W Depth: 15F 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	107	55	EP		811	50.560	.140							1.0
MORF	HE	107	55	ES		812	2.54-	.190							1.0
MORF	HE	107	55	IAML		812	4.29			8	0.1				
MESJ	HN	174	46	ES		812	17.830	.050							1.0
MESJ	HE	174	46	IAML		812	19.86			0.90	0.1				

**July 9 2020 Hour: 9:43 39.7 Lat: 37.85N Lon: 9.35W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.1 secs**  
**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	86	134	EP		943	53.47-	.050							1.0
MESJ	HZ	100	90	EP		943	55.480	.140							1.0
MESJ	HN	100	90	ES		944	6.66-	.100							1.0
MESJ	HE	100	90	IAML		944	8.53			3	0.1				

**July 9 2020 Hour: 11:28 1.9 Lat: 38.43N Lon: 7.39W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**  
**NW MOURAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	98	228	EP		1128	17.750	.020							1.0
MESJ	HN	98	228	ES		1128	29.25-	.020							1.0
MESJ	HE	98	228	IAML		1128	30.98			2	0.1				

**July 9 2020 Hour: 21:53 24.8 Lat: 36.52N Lon: 7.62W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	156	340	EP		2153	48.650	.150							1.0
MESJ	HE	156	340	ES		2154	5.64-	.150							1.0
MESJ	HN	156	340	IAML		2154	11.82			2	0.3				

**July 10 2020 Hour: 6:29 43.5 Lat: 2.64S Lon: 68.16E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.6Mb IGL Rms: 0.0 secs**  
**CARLSBERG RIDGE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9005	309	EP		641	57.89-	.230							1.0
MESJ	BZ	9005	309	IAmb		641	59.56			53	1.3				
MORF	BZ	9032	308	EP		641	59.15-	.320							1.0
MORF	BZ	9032	308	IAmb		642	0.17			252	2.3				

**July 10 2020 Hour: 10:53 44.3 Lat: 38.14N Lon: 8.94W Depth: 4F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.0 secs**  
**W MELIDES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	72	118	EP		1053	55.900	.020							1.0
MESJ	HE	72	118	ES		1054	4.30-	.020							1.0
MESJ	HN	72	118	IAML		1054	8.25			4	0.1				

**July 10 2020 Hour: 13: 6 39.0 Lat: 37.32N Lon: 8.60W Depth: 9F 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	5	250	EP		13 6	40.67-	.110							1.0
MORF	HE	5	250	ES		13 6	42.160	.110							1.0
MORF	HN	5	250	IAML		13 6	42.68			145	0.2				

**July 11 2020 Hour: 0:31 40.9 Lat: 36.85N Lon: 7.84W Depth: 26F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	88	305	EP		031	54.75-	.180							1.0
MORF	HE	88	305	ES		032	5.360	.190							1.0
MORF	HN	88	305	IAML		032	6.72			40	0.1				
MESJ	HZ	115	343	EP		031	58.16-	.080							1.0
MESJ	HN	115	343	ES		032	10.970	.070							1.0
MESJ	HN	115	343	IAML		032	13.29			14	0.1				

**July 11 2020 Hour: 3:40 41.5 Lat: 37.35N Lon: 8.54W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.0 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	243	EP		340	43.87-	.010							1.0
MORF	HE	11	243	ES		340	45.620	.010							1.0
MORF	HN	11	243	IAML		340	46.20			91	0.3				

**July 11 2020 Hour: 12:45 58.0 Lat: 36.37N Lon: 9.85W Depth: 33F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	149	45	EP		1246	19.23-	.040							1.0
MORF	HN	149	45	ES		1246	34.850	.050							1.0
MORF	HN	149	45	IAML		1246	35.53			6	0.2				
MESJ	HZ	218	41	EP		1246	27.71-	.130							1.0
MESJ	HE	218	41	ES		1246	49.750	.120							1.0
MESJ	HE	218	41	IAML		1246	51.72			1	0.1				

**July 11 2020 Hour: 20: 3 12.4 Lat: 35.62N Lon: 4.77W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.1ML 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
MESJ	HZ	394	310	EP		20 4	6.72-	.120							1.0
MESJ	HE	394	310	ES		20 4	46.740	.150							1.0
MESJ	HN	394	310	IAML		20 4	49.69			3	0.3				
MORF	HZ	395	299	EP		20 4	6.70-	.240							1.0
MORF	HE	395	299	ES		20 4	46.970	.210							1.0
MORF	HN	395	299	IAML		20 4	49.58			7	0.1				

July 11 2020 Hour: 20:57 10.8 Lat: 36.60N Lon: 9.55W Depth: 18F Agency: IGL Regional  
Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	45	EP		2057	28.35	-0.06							1.0
MORF	HN	112	45	ES		2057	41.47	0.19							1.0
MESJ	HZ	181	40	EP		2057	36.87	-0.14							1.0

July 11 2020 Hour: 21:58 41.9 Lat: 38.87N Lon: 8.20W Depth: 9F Agency: IGL Regional  
Magnitudes: 1.2ML 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
MESJ	HZ	114	181	EP		2159	0.16	0.090							1.0
MESJ	HE	114	181	ES		2159	13.24	-0.090							1.0
MESJ	HN	114	181	IAML		2159	13.76			5	0.2				

July 12 2020 Hour: 4:27 57.2 Lat: 37.27N Lon: 7.33W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	101	309	EP		428	13.07	-0.130							1.0
MESJ	HE	101	309	ES		428	24.85	-0.040							1.0
MESJ	HN	101	309	IAML		428	26.81			3	0.2				
MORF	HN	117	272	ES		428	29.41	0.170							1.0
MORF	HN	117	272	IAML		428	32.06			4	0.2				

July 12 2020 Hour: 4:36 40.0 Lat: 36.76N Lon: 9.71W Depth: 17F 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	112	57	EP		436	57.76	0.060							1.0
MORF	HE	112	57	ES		437	10.53	-0.060							1.0
MORF	HE	112	57	IAML		437	11.15			12	0.2				
MESJ	HZ	178	47	EP		437	5.92	-0.070							1.0
MESJ	HE	178	47	ES		437	25.00	0.070							1.0
MESJ	HN	178	47	IAML		437	26.71			2	0.1				

July 12 2020 Hour: 6:48 25.7 Lat: 36.40N Lon: 9.96W Depth: 15F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	154	49	EP		648	48.87	0.040							1.0
MORF	HE	154	49	ES		649	5.62	-0.080							1.0
MORF	HE	154	49	IAML		649	6.40			11	0.1				
MESJ	HZ	222	44	EP		648	57.30	-0.000							1.0
MESJ	HE	222	44	ES		649	20.41	0.040							1.0
MESJ	HE	222	44	IAML		649	21.08			3	0.1				

July 12 2020 Hour: 10:12 12.2 Lat: 36.66N Lon: 9.74W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	120	53	EP		1012	31.19	0.070							1.0
MORF	HN	120	53	ES		1012	44.77	-0.120							1.0
MORF	HN	120	53	IAML		1012	46.79			5	0.1				
MESJ	HZ	188	45	EP		1012	39.52	0.040							1.0
MESJ	HN	188	45	ES		1012	59.36	0.000							1.0
MESJ	HN	188	45	IAML		1013	1.06			0.90	0.1				

July 12 2020 Hour: 12:14 13.3 Lat: 37.32N Lon: 8.58W Depth: 9F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.2 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	255	EP		1214	14.82	-.340							1.0
MORF	HE	7	255	ES		1214	16.74	0.210							1.0
MORF	HN	7	255	IAML		1214	17.40			141	0.2				
MESJ	HZ	66	29	EP		1214	24.04	0.040							1.0
MESJ	HN	66	29	ES		1214	31.92	0.090							1.0
MESJ	HN	66	29	IAML		1214	33.66			12	0.2				

July 12 2020 Hour: 15: 8 49.5 Lat: 9.49N Lon: 69.80W Depth: 10F Agency: IGL Distant  
Magnitudes: 6.0Mb IGL Rms: 0.0 secs

LARA, VENEZUELA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6836	53	EP		1519	6.16	0.030							1.0
MORF	BZ	6836	53	IAMB		1519	7.92			137	1.5				
MESJ	BZ	6885	52	EP		1519	8.97	-.030							1.0
MESJ	BZ	6885	52	IAMB		1519	11.66			296	2.4				

July 12 2020 Hour: 19:39 42.5 Lat: 37.78N Lon: 8.54W Depth: 9F Agency: IGL Regional  
Magnitudes: 0.6ML 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	29	77	EP		1939	47.29	-.090							1.0
MESJ	HE	29	77	ES		1939	50.95	-.010							1.0
MESJ	HN	29	77	IAML		1939	51.49			6	0.1				
MORF	HZ	54	191	EP		1939	51.31	0.030							1.0
MORF	HN	54	191	ES		1939	57.77	0.070							1.0
MORF	HE	54	191	IAML		1939	58.35			6	0.1				

July 13 2020 Hour: 2:25 58.0 Lat: 36.34N Lon: 7.69W Depth: 22F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	137	322	EP		226	18.53	0.080							1.0
MESJ	HZ	173	344	EP		226	22.74	-.120							1.0
MESJ	HE	173	344	ES		226	41.03	0.030							1.0
MESJ	HN	173	344	IAML		226	42.47			2	0.1				

July 13 2020 Hour: 2:41 50.9 Lat: 36.66N Lon: 9.75W Depth: 15F 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	121	53	EP		242	9.91	-.030							1.0
MORF	HN	121	53	ES		242	23.84	-.000							1.0
MORF	HN	121	53	IAML		242	24.49			10	0.2				
MESJ	HZ	189	46	EP		242	18.19	-.110							1.0
MESJ	HN	189	46	ES		242	38.44	0.140							1.0
MESJ	HN	189	46	IAML		242	39.09			2	0.1				

July 13 2020 Hour: 21:34 37.1 Lat: 34.37N Lon: 5.61W Depth: 10F Agency: IGL Regional  
Magnitudes: 2.1ML 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	HN	426	321	ES		2136	16.44	0.120							1.0
MORF	HE	426	321	IAML		2136	17.67			4	0.2				
MESJ	HZ	451	329	EP		2135	37.37	-.050							1.0
MESJ	HE	451	329	ES		2136	21.41	-.080							1.0
MESJ	HN	451	329	IAML		2136	26.56			5	0.5				

July 14 2020 Hour: 7:26 33.2 Lat: 36.69N Lon: 7.43W Depth: 20F 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
MORF	HZ	128	302	EP		726	52.770	.020							1.0

July 15 2020 Hour: 0:12 31.7 Lat: 38.40N Lon: 7.83W Depth: 5F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.0 secs

**NW PORTEL, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	142	211	EP		012	54.16	-.020							1.0
MORF	HN	142	211	ES		013	10.650	.020							1.0
MORF	HN	142	211	IAML		013	12.61			17	0.2				

July 15 2020 Hour: 0:28 12.0 Lat: 38.35N Lon: 13.84W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.8ML IGL Rms: 0.1 secs

**AZORES-CAPE ST. VINCENT RIDGE Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	471	103	EP		029	12.430	.160							1.0
MORF	HN	471	103	ES		029	56.11	-.160							1.0
MORF	HN	471	103	IAML		030	0.25			20	0.1				

July 15 2020 Hour: 18:0 8.0 Lat: 36.73N Lon: 11.07W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.1 secs

**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	224	73	EP		18 0	37.78	-.120							1.0
MORF	HN	224	73	ES		18 0	59.870	.120							1.0
MORF	HN	224	73	IAML		18 1	1.58			7	0.4				

July 15 2020 Hour: 18:59 29.2 Lat: 37.37N Lon: 8.44W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	20	249	EP		1859	32.39	-.130							1.0
MORF	HE	20	249	ES		1859	35.040	.130							1.0
MORF	HN	20	249	IAML		1859	35.58			60	0.2				

July 15 2020 Hour: 21:39 40.8 Lat: 7.47N Lon: 81.92W Depth: 6F Agency: IGL Distant  
Magnitudes: 5.5Ms IGL Rms: 0.0 secs

**PANAMA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8007	52	EP		2151	5.14	-.020							1.0
GGNV	BN	8007	52	ES		22 0	27.670	.040							1.0
GGNV	BZ	8007	52	IAMs_20		2215	57.76			3985	24.1				
MORF	BZ	8038	53	EP		2151	6.89	-.030							1.0
MORF	BE	8038	53	ES		22 0	30.980	.010							1.0
MORF	BE	8038	53	IAMs_20		2215	54.52			2248	19.8				

July 16 2020 Hour: 3:9 12.2 Lat: 37.09N Lon: 8.17W Depth: 22F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.0 secs

**E ALBUFEIRA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	49	299	EP		3 9	20.680	.010							1.0
MORF	HN	49	299	ES		3 9	26.82	-.010							1.0
MORF	HN	49	299	IAML		3 9	28.26			6	0.2				

**July 16 2020 Hour: 7:24 18.2 Lat: 36.53N Lon: 9.89W Depth: 49F 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	140	52	EP		724	38.39	-.120							1.0
MORF	HN	140	52	ES		724	53.490	.120							1.0
MORF	HE	140	52	IAML		724	54.41			2	0.1				

**July 16 2020 Hour: 17:1 56.6 Lat: 36.59N Lon: 7.31W Depth: 25F Agency: IGL Regional**  
**Magnitudes: 3.2ML 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	143	304	EP		17 2	17.58	-.060							1.0
MORF	HN	143	304	ES		17 2	33.070	.100							1.0
MORF	HN	143	304	IAML		17 2	35.73			331	0.1				
GGNV	HZ	286	326	EP		17 2	35.29	-.050							0.9

**July 16 2020 Hour: 17:49 14.0 Lat: 36.42N Lon: 8.03W Depth: 4F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	113	331	EP		1749	32.11	-.080							1.0
MORF	HE	113	331	ES		1749	45.560	.080							1.0
MORF	HE	113	331	IAML		1749	46.67			6	0.3				

**July 16 2020 Hour: 21:26 16.5 Lat: 36.63N Lon: 7.33W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 2.0ML 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
MORF	HZ	140	303	EP		2126	37.39	-.050							1.0
MORF	HE	140	303	ES		2126	52.740	.050							1.0
MORF	HE	140	303	IAML		2126	53.62			21	0.2				

**July 17 2020 Hour: 0:6 12.2 Lat: 37.38N Lon: 8.18W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**  
**SW ALMODOVAR, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	259	EP		0 6	19.170	.090							1.0
MORF	HE	43	259	ES		0 6	24.02	-.090							1.0
MORF	HE	43	259	IAML		0 6	24.77			12	0.3				

**July 17 2020 Hour: 2:50 19.8 Lat: 7.84S Lon: 147.77E Depth: 80F Agency: IGL Distant**  
**Magnitudes: 7.3Ms IGL Rms: 0.1 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
GGNV	BZ15905	329	EPKPdf			3 9	43.38	-.040							1.0
GGNV	BN15905	329	ESS			331	26.73	-.040							1.0
GGNV	BN15905	329	IAMs_20			4 3	36.86			66496	21.8				
MORF	BZ15995	327	EPKPdf			3 9	45.070	.170							1.0
MORF	BN15995	327	ESS			331	36.10	-.090							1.0
MORF	BE15995	327	IAMs_20			4 3	43.71			47600	20.1				

**July 17 2020 Hour: 5:40 36.4 Lat: 20.24S Lon: 70.14W Depth: 74F Agency: IGL Distant**  
**Magnitudes: 5.6Ms IGL Rms: 0.1 secs**  
**TARAPACA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9055	45	EP		552	45.350	.090							1.0
MORF	BN	9055	45	ES		6 2	50.93	-.020							1.0
MORF	BE	9055	45	IAMs_20		622	38.09			3633	27.2				
GGNV	BN	9106	44	ES		6 2	55.39	-.070							1.0
GGNV	BZ	9106	44	IAMs_20		622	59.05			4994	34.1				

**July 17 2020 Hour: 18:33 0.6 Lat: 12.10N Lon: 94.96E Depth: 14F Agency: IGL Distant**  
**Magnitudes: 5.4Ms 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	BZ10332	309		EP		1846	13.180	.150							1.0
MESJ	BN10332	309		ESKSac		1856	45.64	-.090							1.0
MESJ	BZ10332	309		IAMs_20		1933	57.84		999	17.1					
MORF	BZ10387	309		EP		1846	15.33	-.010							1.0
MORF	BN10387	309		ESKSac		1856	48.51	-.040							1.0
MORF	BE10387	309		IAMs_20		1933	42.94		1557	22.2					

**July 18 2020 Hour: 1:37 15.7 Lat: 10.36S Lon: 161.38E Depth: 48F Agency: IGL Distant**  
**Magnitudes: 5.7Ms IGL Rms: 0.0 secs**

**SOLOMOM ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16817	343		EPKPdf		156	56.850	.000							1.0
MESJ	BZ16817	343		EPP		2 0	41.650	.060							1.0
MESJ	BZ16817	343		IAMs_20		3 4	33.35		1516	24.6					
MORF	BZ16886	343		EPKPdf		156	57.84	-.010							1.0
MORF	BZ16886	343		EPP		2 0	45.16	-.050							1.0
MORF	BE16886	343		IAMs_20		3 2	45.38		1668	25.8					

**July 18 2020 Hour: 2:39 29.1 Lat: 36.48N Lon: 9.94W Depth: 33F 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	147	51	EP		239	50.210	.080							1.0
MORF	HN	147	51	ES		240	5.37	-.090							1.0
MORF	HN	147	51	IAML		240	6.67		20	0.1					
MESJ	HZ	215	45	EP		239	58.51	-.030							1.0
MESJ	HN	215	45	ES		240	20.050	.040							1.0
MESJ	HN	215	45	IAML		240	22.63		3	0.1					

**July 18 2020 Hour: 15:32 39.4 Lat: 15.24S Lon: 172.67W Depth: 14F Agency: IGL Distant**  
**Magnitudes: 6.3Ms IGL Rms: 0.1 secs**

**TONGA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16970	29		EPKPdf		1552	27.690	.120							1.0
GGNV	BN16970	29		IAMs_20		1654	24.16		5006	29.9					
MESJ	BZ17097	29		EPKPdf		1552	29.300	.040							1.0
MESJ	BN17097	29		ESS		1616	1.330	.090							1.0
MESJ	BZ17097	29		IAMs_20		1653	53.84		5313	21.9					
MORF	BZ17122	30		EPKPdf		1552	29.63	-.000							1.0
MORF	BE17122	30		ESS		1616	3.55	-.250							1.0
MORF	BE17122	30		IAMs_20		17 5	8.16		4042	14.1					

**July 18 2020 Hour: 17:57 44.9 Lat: 36.42N Lon: 9.90W Depth: 31F 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	148	48	EP		1758	5.460	.060							1.0
MORF	HN	148	48	ES		1758	20.26	-.090							1.0
MORF	HE	148	48	IAML		1758	23.68		169	0.3					
MESJ	HZ	217	43	EP		1758	13.84	-.070							1.0
MESJ	HE	217	43	ES		1758	35.160	.100							1.0
MESJ	HN	217	43	IAML		1758	36.91		22	0.2					

July 18 2020 Hour: 18:14 59.7 Lat: 36.58N Lon: 11.30W Depth: 25F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	249	70	EP		1815	33.810	.020							1.0
MORF	HN	249	70	ES		1815	58.69-	.020							1.0
MORF	HN	249	70	IAML		1816	0.13			3	0.1				

July 19 2020 Hour: 1:32 45.9 Lat: 36.67N Lon: 8.66W Depth: 22F 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	70	1	EP		132	57.37-	.040							1.0
MORF	HE	70	1	ES		133	5.990	.150							1.0
MORF	HE	70	1	IAML		133	8.41			16	0.1				
MESJ	HZ	136	17	EP		133	5.90-	.150							1.0
MESJ	HN	136	17	ES		133	20.830	.030							1.0
MESJ	HN	136	17	IAML		133	22.11			2	0.1				

July 19 2020 Hour: 2:47 57.0 Lat: 13.28S Lon: 167.03E Depth:188F Agency: IGL Distant  
Rms: 0.0 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17271	351	EP	KPab		3 7	53.43-	.020							1.0

July 19 2020 Hour: 4: 4 36.5 Lat: 36.49N Lon: 9.72W Depth: 27F Agency: IGL Regional  
Magnitudes: 1.1ML 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	HN	131	46	ES		4 5	9.95-	.000							1.0
MORF	HN	131	46	IAML		4 5	10.93			5	0.1				
MESJ	HZ	200	41	EP		4 5	4.34-	.060							1.0
MESJ	HN	200	41	ES		4 5	24.840	.060							1.0
MESJ	HE	200	41	IAML		4 5	26.96			0.80	0.1				

July 19 2020 Hour: 6:54 42.5 Lat: 37.12N Lon: 8.36W Depth: 14F Agency: IGL Regional  
Magnitudes: 0.5ML IGL Rms: 0.1 secs

E LAGOA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	33	308	EP		654	48.10-	.210							1.0
MORF	HN	33	308	ES		654	52.620	.100							1.0
MORF	HE	33	308	IAML		654	53.48			6	0.1				
MESJ	HN	81	9	ES		655	5.020	.120							1.0
MESJ	HN	81	9	IAML		655	7.80			2	0.3				

July 19 2020 Hour: 16:58 41.0 Lat: 36.61N Lon: 7.66W 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
MORF	HZ	118	311	EP		1658	59.63-	.040							1.0
MESJ	HZ	145	340	EP		1659	3.640	.040							1.0

July 19 2020 Hour: 21: 8 45.9 Lat: 37.45N Lon: 7.95W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SE ALMODOVAR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	49	331	EP		21 8	54.290	.170							1.0
MESJ	HN	49	331	ES		21 9	0.150	.030							1.0
MESJ	HN	49	331	IAML		21 9	0.93			6	0.1				
MORF	HZ	64	256	EP		21 8	56.33-	.040							1.0
MORF	HN	64	256	ES		21 9	3.86-	.160							1.0
MORF	HE	64	256	IAML		21 9	5.55			18	0.2				



**July 19 2020 Hour: 23:42 56.1 Lat: 36.54N Lon: 7.66W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 0.8ML 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	153	341	EP		2343	19.020	.010							1.0
MESJ	HE	153	341	ES		2343	35.74-	.010							1.0
MESJ	HN	153	341	IAML		2343	39.77			1	0.1				

**July 20 2020 Hour: 1:16 45.1 Lat: 38.49N Lon: 7.89W Depth: 17F Agency: IGL Regional**  
**Magnitudes: 1.1ML 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
MESJ	HZ	78	202	EP		116	57.650	.070							1.0
MESJ	HN	78	202	ES		117	6.62-	.090							1.0
MESJ	HE	78	202	IAML		117	7.05			4	0.2				
MORF	HE	148	207	ES		117	23.460	.020							1.0
MORF	HE	148	207	IAML		117	26.78			4	0.2				

**July 20 2020 Hour: 1:50 11.9 Lat: 8.33S Lon: 79.96W Depth: 40F Agency: IGL Distant**  
**Magnitudes: 5.2Mb IGL Rms: 0.1 secs**  
**NEAR COAST OF NORTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8954	50	EP		2 2	19.840	.080							1.0
MORF	BZ	8954	50	IAMB		2 2	21.79			31	1.1				
MESJ	BZ	9009	50	EP		2 2	22.25-	.080							1.0
MESJ	BZ	9009	50	IAMB		2 2	24.64			42	1.8				

**July 20 2020 Hour: 5:26 23.4 Lat: 36.62N Lon: 7.37W Depth: 24F 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	137	304	EP		526	43.68-	.030							1.0
MORF	HN	137	304	ES		526	58.530	.010							1.0
MORF	HN	137	304	IAML		526	59.37			5	0.2				
MESJ	HZ	155	331	EP		526	45.81-	.080							1.0
MESJ	HN	155	331	ES		527	2.390	.110							1.0
MESJ	HN	155	331	IAML		527	4.26			2	0.2				

**July 20 2020 Hour: 12: 9 10.5 Lat: 36.65N Lon: 9.64W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.1 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	114	50	ES		12 9	41.160	.020							1.0
MORF	HN	114	50	IAML		12 9	41.75			11	0.1				
MESJ	HZ	182	43	EP		12 9	36.790	.120							1.0
MESJ	HN	182	43	ES		12 9	55.65-	.150							1.0
MESJ	HN	182	43	IAML		12 9	57.64			2	0.2				

**July 21 2020 Hour: 0:26 22.5 Lat: 36.46N Lon: 7.78W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	158	346	EP		026	46.100	.120							1.0
MESJ	HE	158	346	ES		027	3.02-	.120							1.0
MESJ	HE	158	346	IAML		027	4.45			2	0.0				

**July 21 2020 Hour: 20:16 30.8 Lat: 36.67N Lon: 11.24W Depth: 29F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	241	72	EP		2017	3.55-	.110							1.0
MORF	HE	241	72	ES		2017	27.680	.050							1.0
MORF	HE	241	72	IAML		2017	29.95			48	0.2				

MESJ HZ	298	63	EP	2017	10.710.020													1.0
MESJ HE	298	63	ES	2017	39.830.040													1.0
MESJ HN	298	63	IAML	2017	42.21					7	0.2							

**July 21 2020 Hour: 20:56 25.1 Lat: 20.83S Lon: 178.57W Depth:602F 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
MESJ	BZ17926		24	EPKPdf		2115	16.830.050								1.0
MESJ	BZ17926		24	EPKPab		2116	4.800.000								1.0
MORF	BZ17958		26	EPKPdf		2115	17.08-.060								1.0
MORF	BZ17958		26	EPKPab		2116	6.150.000								1.0

**July 22 2020 Hour: 1:24 40.8 Lat: 35.92N Lon: 7.66W Depth: 25F Agency: IGL Regional Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	177	330	EP		125	5.89-.170								1.0
MORF	HE	177	330	ES		125	24.490.020								1.0
MORF	HE	177	330	IAML		125	25.35			8	0.3				
MESJ	HZ	219	347	EP		125	11.260.090								1.0
MESJ	HN	219	347	ES		125	33.380.080								1.0
MESJ	HN	219	347	IAML		125	34.60			3	0.3				

**July 22 2020 Hour: 3:16 36.1 Lat: 10.99N Lon: 72.39W Depth: 98F Agency: IGL Distant Rms: 0.1 secs**

**ZULIA, VENEZUELA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6964	54	EP		326	49.960.060								1.0
MORF	BZ	6964	54	IAmb		326	52.54			77	1.0				
MESJ	BZ	7009	53	EP		326	52.50-.060								1.0
MESJ	BZ	7009	53	IAmb		326	54.34			77	1.1				

**July 22 2020 Hour: 6:12 45.0 Lat: 55.03N Lon: 158.52W Depth: 28F Agency: IGL Distant 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	9220	24	EP		625	7.06-.040								1.0
GGNV	BE	9220	24	ES		635	24.510.090								1.0
GGNV	BZ	9220	24	IAMs_20		7	0	7.83		769000	24.9				
MESJ	BZ	9336	23	EP		625	12.39-.130								1.0
MESJ	BE	9336	23	ESKSac		635	33.440.090								1.0
MESJ	BZ	9336	23	IAMs_20		7	0	52.26		763000	21.3				
MORF	BZ	9382	24	EP		625	14.48-.190								1.0
MORF	BN	9382	24	ESKSac		635	36.290.170								1.0
MORF	BZ	9382	24	IAMs_20		7	1	56.81		851000	29.0				

**July 22 2020 Hour: 8:13 29.9 Lat: 55.22N Lon: 159.37W Depth: 37F Agency: IGL Distant Rms: 0.0 secs**

**ALASKA PENINSULA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9222	23	EP		825	50.800.020								1.0
GGNV	BZ	9222	23	IAmb		825	52.22			848	1.4				
MESJ	BZ	9338	23	EP		825	56.11-.060								1.0
MESJ	BZ	9338	23	IAmb		825	58.02			294	1.3				
MORF	BZ	9384	23	EP		825	58.390.040								1.0
MORF	BZ	9384	23	IAmb		825	59.69			447	1.0				

**July 22 2020 Hour: 19:45 8.2 Lat: 16.42S Lon: 73.95W Depth: 30F Agency: IGL Distant**  
**Magnitudes: 5.1Mb IGL Rms: 0.1 secs**  
**NEAR COAST OF SOUTHERN PERU Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9054	47	EP		1957	22.09	-.060							1.0
MORF	BZ	9054	47	IAmb		1957	23.36			24	1.1				
MESJ	BZ	9116	47	EP		1957	25.070	.060							1.0

**July 22 2020 Hour: 20: 7 18.8 Lat: 33.13N Lon: 86.84E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.4Ms IGL Rms: 0.1 secs**  
**WESTERN XIZANG Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8242	305	EP		2018	55.34	-.130							1.0
MESJ	BE	8242	305	ES		2028	29.410	.070							1.0
MESJ	BN	8242	305	IAMs_20		2048	40.23			20567	28.6				
GGNV	BZ	8265	306	EP		2018	56.50	-.090							1.0
GGNV	BE	8265	306	ES		2028	31.710	.210							1.0
GGNV	BN	8265	306	IAMs_20		2050	7.57			27157	22.1				
MORF	BZ	8305	305	EP		2018	58.68	-.140							1.0
MORF	BE	8305	305	ES		2028	35.860	.090							1.0
MORF	BN	8305	305	IAMs_20		2050	32.28			30118	22.7				

**July 22 2020 Hour: 21:39 59.2 Lat: 55.22N Lon: 159.29W Depth: 35F Agency: IGL Distant**  
**Magnitudes: 6.0Mb 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	9220	23	EP		2152	20.16	-.070							1.0
GGNV	BZ	9220	23	IAmb		2152	22.02			155	1.1				
MESJ	BZ	9336	23	EP		2152	25.710	.080							1.0
MESJ	BZ	9336	23	IAmb		2152	27.73			108	1.4				
MORF	BZ	9382	23	EP		2152	27.80	-.010							1.0
MORF	BZ	9382	23	IAmb		2152	29.35			226	1.2				

**July 23 2020 Hour: 10:54 3.6 Lat: 36.96N Lon: 8.16W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.1ML 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	59	311	EP		1054	12.91	-.090							1.0
MESJ	HZ	98	357	EP		1054	19.460	.070							1.0
MESJ	HN	98	357	ES		1054	30.960	.020							1.0
MESJ	HN	98	357	IAML		1054	33.29			5	0.3				

**July 23 2020 Hour: 11: 8 38.6 Lat: 55.23N Lon: 159.63W 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
MESJ	BZ	9343	22	EP		1121	4.910	.060							1.0
MESJ	BZ	9343	22	IAmb		1121	5.33			13	0.8				
MORF	BZ	9390	23	EP		1121	6.96	-.060							1.0
MORF	BZ	9390	23	IAmb		1121	8.08			25	0.9				

**July 23 2020 Hour: 22:22 36.3 Lat: 36.66N Lon: 11.29W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	245	72	EP		2223	10.010	.010							1.0
MORF	HE	245	72	ES		2223	34.650	.030							1.0
MORF	HN	245	72	IAML		2223	36.63			10	0.2				
MESJ	HZ	302	63	EP		2223	16.99	-.020							1.0
MESJ	HE	302	63	ES		2223	46.74	-.020							1.0
MESJ	HN	302	63	IAML		2223	49.55			3	0.2				

**July 24 2020 Hour: 3:7 8.9 Lat: 54.84N Lon: 160.69W 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
MESJ	BZ	9409	22	EP		319	38.190	.020							1.0
MESJ	BZ	9409	22	IAMB		319	38.65			9	0.7				
MORF	BZ	9456	22	EP		319	40.33	-.020							1.0
MORF	BZ	9456	22	IAMB		319	41.86			46	1.0				

**July 24 2020 Hour: 3:19 50.5 Lat: 15.62N Lon: 95.89W Depth: 7F Agency: IGL Distant**  
**Magnitudes: 5.5Ms IGL Rms: 0.0 secs**

**OFFSHORE OAXACA, MEXICO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8670	53	EP		331	49.26	-.020							1.0
GGNV	BN	8670	53	ES		341	43.680	.050							1.0
GGNV	BE	8670	53	IAMS_20		4	1	25.91		5192	28.6				
MORF	BZ	8742	54	EP		331	52.88	-.060							1.0
MORF	BN	8742	54	ES		341	50.71	-.010							1.0
MORF	BE	8742	54	IAMS_20		4	8	8.11		1202	11.1				
MESJ	BZ	8768	54	EP		331	54.16	-.030							1.0
MESJ	BE	8768	54	ES		341	53.220	.070							1.0
MESJ	BZ	8768	54	IAMS_20		4	3	25.78		1277	22.6				

**July 24 2020 Hour: 5:2 27.2 Lat: 36.38N Lon: 7.95W Depth: 27F Agency: IGL Regional**  
**Magnitudes: 2.2ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	120	329	EP		5	2	45.09	-.040						1.0
MORF	HN	120	329	ES		5	2	58.03	-.180						1.0
MORF	HE	120	329	IAML		5	2	58.64		47	0.3				
MESJ	HZ	163	352	EP		5	2	50.760	.240						1.0
MESJ	HN	163	352	ES		5	3	7.52	-.010						1.0
MESJ	HN	163	352	IAML		5	3	8.68		25	0.2				

**July 24 2020 Hour: 13:24 39.8 Lat: 54.93N Lon: 160.74W Depth: 43F Agency: IGL Distant**  
**Magnitudes: 5.5Mb 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
MORF	BZ	9448	22	EP		1337	10.450	.000							1.0
MORF	BZ	9448	22	IAMB		1337	11.46			37	0.9				

**July 24 2020 Hour: 16:12 21.2 Lat: 37.31N Lon: 8.63W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.1ML 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	2	253	EP		1612	23.08	-.210							1.0
MORF	HN	2	253	ES		1612	24.890	.100							1.0
MORF	HE	2	253	IAML		1612	25.50			123	0.1				
MESJ	HZ	69	32	EP		1612	32.520	.140							1.0
MESJ	HN	69	32	ES		1612	40.49	-.020							1.0
MESJ	HN	69	32	IAML		1612	43.71			7	0.1				

**July 24 2020 Hour: 23:15 2.1 Lat: 37.64N Lon: 8.38W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.0 secs**

**W OURIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	26	32	EP		2315	6.530	.000							1.0
MESJ	HN	26	32	ES		2315	9.76	-.000							1.0

**July 25 2020 Hour: 1:33 54.3 Lat: 30.75N Lon: 41.84W Depth: 2F Agency: IGL Distant**  
**Magnitudes: 5.2Mb 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  
 MESJ BZ 3176 67 EP 139 51.45-.030 1.0  
 MESJ BZ 3176 67 IAMB 139 58.72 70 1.6  
 MESJ BE 3176 67 ES 144 41.500.030 1.0

**July 25 2020 Hour: 6:28 39.4 Lat: 36.98N Lon: 5.30W Depth: 6F Agency: IGL Regional**  
**Rms: 0.0 secs**  
**SPAIN Net: MAD**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 276 291 EP 629 18.490.010 1.0

**July 25 2020 Hour: 12:13 2.1 Lat: 35.46N Lon: 3.87W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 3.8ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 470 305 EP 1214 5.060.120 1.0  
 MESJ HE 470 305 ES 1214 50.80-.050 1.0  
 MESJ HN 470 305 IAML 1215 0.88 121 0.5  
 MORF HZ 475 297 EP 1214 5.39-.230 1.0  
 MORF HN 475 297 ES 1214 52.180.160 1.0  
 MORF HN 475 297 IAML 1214 58.58 251 0.4

**July 25 2020 Hour: 12:38 11.6 Lat: 35.48N Lon: 3.80W Depth: 22F 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 474 305 EP 1239 13.590.010 1.0  
 MORF HZ 480 296 EP 1239 14.34-.010 1.0

**July 25 2020 Hour: 17:28 28.9 Lat: 35.45N Lon: 3.70W Depth: 18F 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  
 MORF HZ 490 296 EP 1729 33.25-.000 1.0

**July 25 2020 Hour: 20:36 38.5 Lat: 35.09N Lon: 5.90W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.9ML IGL Rms: 0.0 secs**  
**MOROCCO Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 349 316 EP 2037 24.70-.010 1.0  
 MORF HE 349 316 ES 2037 58.430.010 1.0  
 MORF HE 349 316 IAML 2037 59.50 6 0.3  
 MESJ HZ 369 326 EP 2037 27.250.030 1.0  
 MESJ HE 369 326 ES 2038 2.73-.020 1.0  
 MESJ HE 369 326 IAML 2038 5.52 3 0.4

**July 26 2020 Hour: 0:53 58.2 Lat: 60.70S Lon: 25.48W Depth: 2F Agency: IGL Distant**  
**Magnitudes: 6.2Ms IGL Rms: 0.0 secs**  
**SOUTH SANDWICH ISLANDS REGION Net: CSEM**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ10950 14 EPdif 1 7 38.610.040 1.0  
 MORF BE10950 14 ESKSac 118 17.690.020 1.0  
 MORF BZ10950 14 IAMs\_20 142 10.87 10118 26.7  
 MESJ BZ11015 14 EPdif 1 7 41.03-.060 1.0  
 MESJ BN11015 14 ESKSac 118 20.45-.030 1.0  
 MESJ BZ11015 14 IAMs\_20 142 13.90 11131 32.7  
 GGNV BZ11099 13 EPdif 1 7 44.460.020 1.0  
 GGNV BZ11099 13 IAMs\_20 146 29.00 9174 25.8

**July 26 2020 Hour: 14:56 45.2 Lat: 36.20N Lon: 8.04W Depth: 31F 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 134 336 EP 1457 3.86-.080 1.0  
 MESJ HZ 183 355 EP 1457 10.060.140 1.0  
 MESJ HN 183 355 ES 1457 27.90-.060 1.0  
 MESJ HE 183 355 IAML 1457 29.89 1.00 0.1

**July 26 2020 Hour: 21:11 47.8 Lat: 35.60N Lon: 4.65W Depth: 70F 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 404 309 EP 2112 40.19-.060 1.0  
 MESJ HE 404 309 ES 2113 18.690.130 1.0  
 MESJ HN 404 309 IAML 2113 20.70 7 0.1  
 MORF HZ 405 299 EP 2112 40.470.040 1.0  
 MORF HE 405 299 ES 2113 18.76-.110 1.0  
 MORF HN 405 299 IAML 2113 21.84 7 0.2

**July 26 2020 Hour: 21:35 53.8 Lat: 54.78N Lon: 160.12W Depth: 34F Agency: IGL Distant**  
**Magnitudes: 5.4Mb 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  
 MESJ BZ 9402 22 EP 2148 23.33-.020 1.0  
 MESJ BZ 9402 22 IAmb 2148 24.01 31 1.3  
 MORF BZ 9448 22 EP 2148 25.530.020 1.0  
 MORF BZ 9448 22 IAmb 2148 27.23 32 1.0

**July 27 2020 Hour: 3:22 42.5 Lat: 38.33N Lon: 8.04W Depth: 4F Agency: IGL Regional**  
**Magnitudes: 0.5ML IGL Rms: 0.1 secs**  
**W VIANA DO ALENTEJO, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 57 196 EP 322 51.810.140 1.0  
 MESJ HN 57 196 ES 322 58.23-.140 1.0  
 MESJ HE 57 196 IAML 322 59.31 3 0.2

**July 27 2020 Hour: 5:2 4.8 Lat: 37.10N Lon: 8.40W Depth: 17F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**  
**SE LAGOA, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 32 315 EP 5 2 10.34-.250 1.0  
 MORF HE 32 315 ES 5 2 14.810.010 1.0  
 MORF HE 32 315 IAML 5 2 15.71 42 0.1  
 MESJ HZ 84 11 EP 5 2 18.390.180 1.0  
 MESJ HE 84 11 ES 5 2 28.060.080 1.0  
 MESJ HN 84 11 IAML 5 2 30.41 8 0.2

**July 27 2020 Hour: 6:27 51.9 Lat: 37.33N Lon: 8.55W Depth: 17F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.0 secs**  
**NE MONCHIQUE, PORTUGAL**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 10 253 EP 627 55.030.000 1.0  
 MORF HN 10 253 ES 627 57.34-.000 1.0  
 MORF HE 10 253 IAML 627 58.19 40 0.1

**July 27 2020 Hour: 13:31 32.3 Lat: 35.39N Lon: 3.95W Depth: 3F 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 469 307 EP 1332 35.580.010 1.0

**July 27 2020 Hour: 17:32 45.1 Lat: 9.02N Lon: 126.27E Depth: 41F Agency: IGL Distant**  
**Magnitudes: 5.5Ms IGL Rms: 0.0 secs**  
**MINDANAO, PHILIPPINES Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	13016	321	EPKp $\bar{d}$ f		1751	25.17	-.000							1.0
MESJ	BZ	13016	321	EPP		1752	34.600	.070							1.0
MESJ	BZ	13016	321	IAMs_20		1845	41.99		914	20.6					
MORF	BZ	13083	320	EPKp $\bar{d}$ f		1751	26.34	-.030							1.0
MORF	BZ	13083	320	EPP		1752	38.73	-.030							1.0
MORF	BE	13083	320	IAMs_20		1845	58.81		1439	17.5					

**July 27 2020 Hour: 19:34 39.6 Lat: 55.10N Lon: 160.48W Depth: 44F Agency: IGL Distant**  
**Magnitudes: 5.2Ms 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
MESJ	BZ	9377	22	EP		1947	6.77	-.070							1.0
MESJ	BZ	9377	22	IAMs_20		2022	5.42		1172	25.3					
MORF	BZ	9424	22	EP		1947	9.090	.070							1.0
MORF	BZ	9424	22	IAMs_20		2022	52.74		1441	24.1					

**July 27 2020 Hour: 20:34 42.8 Lat: 36.54N Lon: 11.25W Depth: 28F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	246	69	EP		2035	16.34	-.040							1.0
MORF	HN	246	69	ES		2035	40.87	-.040							1.0
MORF	HN	246	69	IAML		2035	45.20		9	0.2					
MESJ	HZ	305	61	EP		2035	23.60	-.050							1.0
MESJ	HE	305	61	ES		2035	53.610	.130							1.0
MESJ	HN	305	61	IAML		2035	56.09		2	0.2					

**July 28 2020 Hour: 0:15 22.0 Lat: 36.69N Lon: 7.48W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 0.9ML 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	143	333	EP		015	43.310	.020							1.0
MESJ	HN	143	333	ES		015	58.79	-.020							1.0
MESJ	HN	143	333	IAML		016	0.35		2	0.2					

**July 28 2020 Hour: 8:3 44.6 Lat: 54.87N Lon: 161.14W Depth: 41F Agency: IGL Distant**  
**Magnitudes: 6.0Ms 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	9301	22	EP		816	8.830	.080							1.0
GGNV	BN	9301	22	ESKSac		826	27.72	-.010							1.0
GGNV	BN	9301	22	IAMs_20		851	25.80		8702	29.4					
MESJ	BZ	9417	21	EP		816	13.92	-.130							1.0
MESJ	BN	9417	21	ESKSac		826	34.52	-.010							1.0
MESJ	BZ	9417	21	IAMs_20		851	43.36		6189	21.0					
MORF	BZ	9464	22	EP		816	16.15	-.090							1.0
MORF	BE	9464	22	ESKSac		826	37.490	.150							1.0
MORF	BZ	9464	22	IAMs_20		852	6.36		9325	18.1					

**July 28 2020 Hour: 11:10 36.3 Lat: 36.65N Lon: 11.26W Depth: 28F Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.0 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	243	72	EP		1111	9.550	.010							1.0
MORF	HN	243	72	ES		1111	33.810	.040							1.0
MORF	HE	243	72	IAML		1111	34.51		29	0.1					
MESJ	HZ	300	63	EP		1111	16.55	-.040							1.0
MESJ	HN	300	63	ES		1111	45.95	-.020							1.0
MESJ	HE	300	63	IAML		1111	49.96		7	0.2					

July 28 2020 Hour: 16:40 6.7 Lat: 16.80S Lon: 72.44W Depth: 79F Agency: IGL Distant  
Rms: 0.0 secs

NEAR EAST COAST OF SOUTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8965	46	EpP		1652	31.680	.120							1.0
MESJ	BZ	9028	46	EpP		1652	34.540	.020							1.0

July 29 2020 Hour: 1:19 0.3 Lat: 35.44N Lon: 3.91W Depth: 10F 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	468	306	EP		120	2.760	.000							1.0

July 29 2020 Hour: 9:12 16.9 Lat: 54.97N Lon: 160.33W Depth: 40F Agency: IGL Distant  
Magnitudes: 5.4Ms 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
MESJ	BZ	9387	22	EP		924	45.120	.020							1.0
MESJ	BN	9387	22	ESKSac		935	5.330	.030							1.0
MESJ	BZ	9387	22	IAMs_20		959	44.12			1638	25.2				
MORF	BZ	9434	22	EP		924	47.22	-.060							1.0
MORF	BZ	9434	22	IAMs_20	10	0	27.63			2144	27.0				

July 29 2020 Hour: 10:12 32.9 Lat: 38.14N Lon: 8.13W Depth: 7F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

N FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	34	193	EP		1012	38.630	.080							1.0
MESJ	HE	34	193	ES		1012	42.60	-.080							1.0
MESJ	HE	34	193	IAML		1012	42.94			7	0.2				

July 29 2020 Hour: 10:50 9.0 Lat: 36.67N Lon: 11.22W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	239	72	EP		1050	42.30	-.010							1.0
MORF	HN	239	72	ES		1051	6.49	-.110							1.0
MORF	HN	239	72	IAML		1051	8.91			15	0.4				
MESJ	HZ	296	63	EP		1050	49.32	-.030							1.0
MESJ	HE	296	63	ES		1051	18.930	.150							1.0
MESJ	HE	296	63	IAML		1051	19.74			1	0.2				

July 29 2020 Hour: 13:9 11.0 Lat: 54.75N Lon: 161.09W Depth: 37F Agency: IGL Distant  
Magnitudes: 5.1Mb 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
MESJ	BZ	9428	21	EP		1321	41.480	.050							1.0
MESJ	BZ	9428	21	IAMB		1321	41.94			9	1.1				
MORF	BZ	9475	22	EP		1321	43.55	-.050							1.0
MORF	BZ	9475	22	IAMB		1321	45.54			17	0.8				

July 29 2020 Hour: 18:19 20.2 Lat: 37.31N Lon: 8.60W Depth: 10F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs

SW MONCHIQUÉ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	262	EP		1819	21.96	-.140							1.0
MORF	HN	5	262	ES		1819	23.470	.010							1.0
MORF	HN	5	262	IAML		1819	23.91			193	0.2				
MESJ	HZ	68	30	EP		1819	31.480	.200							1.0
MESJ	HE	68	30	ES		1819	39.28	-.060							1.0
MESJ	HN	68	30	IAML		1819	40.18			2	0.1				



**July 30 2020 Hour: 0:35 55.5 Lat: 30.64N Lon: 141.86E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.9Ms IGL Rms: 0.1 secs**  
**IZU ISLANDS, JAPAN REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ11778	337		EPP		054	29.76	-.120							1.0
GGNV	BZ11778	337		IAMs_20		142	54.26			2123	17.5				
MESJ	BZ11830	336		EPdif		050	9.080	.240							1.0
MESJ	BZ11830	336		EPP		054	33.24	-.090							1.0
MESJ	BZ11830	336		IAMs_20		146	16.22			2955	18.2				
MORF	BZ11900	336		EPP		054	38.00	-.020							1.0
MORF	BZ11900	336		IAMs_20		146	43.07			2795	12.9				

**July 30 2020 Hour: 4: 6 45.8 Lat: 37.33N Lon: 8.51W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.0 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	257	EP		4	6	48.640	.010						1.0
MORF	HN	13	257	ES		4	6	50.67	-.010						1.0
MORF	HN	13	257	IAML		4	6	51.31			56	0.2			

**July 30 2020 Hour: 11:36 57.8 Lat: 36.74N Lon: 10.59W Depth: 26F 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	183	69	EP		1137	23.57	-.100							1.0
MORF	HN	183	69	ES		1137	42.48	-.090							1.0
MORF	HN	183	69	IAML		1137	43.70				7	0.2			
MESJ	HZ	243	59	EP		1137	31.050	.010							1.0
MESJ	HN	243	59	ES		1137	55.500	.180							1.0
MESJ	HN	243	59	IAML		1137	58.24			0.90	0.1				

**July 30 2020 Hour: 18:13 20.5 Lat: 36.70N Lon: 9.70W Depth: 20F 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	115	54	EP		1813	38.32	-.030							1.0
MORF	HN	115	54	ES		1813	51.430	.060							1.0
MORF	HN	115	54	IAML		1813	52.18				9	0.1			
MESJ	HE	182	46	ES		1814	5.76	-.040							1.0
MESJ	HN	182	46	IAML		1814	6.92				1	0.1			

**July 30 2020 Hour: 19:16 50.6 Lat: 19.03S Lon: 173.49W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.2Ms IGL Rms: 0.0 secs**  
**TONGA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17502	31		EPKpdf		1936	46.130	.030							1.0
MESJ	BZ17502	31		EPP		1940	56.58	-.030							1.0
MESJ	BZ17502	31		IAMs_20		2040	33.25				423	23.4			

**July 31 2020 Hour: 1: 2 22.1 Lat: 36.23N Lon: 8.50W 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
MORF	HZ	120	354	EP		1	2	40.65	-.230						1.0
MORF	HN	120	354	ES		1	2	54.690	.070						1.0
MORF	HE	120	354	IAML		1	2	55.85			5	0.1			
MESJ	HZ	180	8	EP		1	2	48.380	.040						1.0
MESJ	HN	180	8	ES		1	3	7.650	.120						1.0
MESJ	HN	180	8	IAML		1	3	9.13			3	0.2			

**July 31 2020 Hour: 3: 8 6.0 Lat: 38.62N Lon: 7.92W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**  
**NEVORA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	91	197	EP		3 8	20.39	-.100							1.0
MESJ	HN	91	197	ES		3 8	31.130	.100							1.0
MESJ	HN	91	197	IAML		3 8	33.50			8	0.2				

**July 31 2020 Hour: 6: 6 43.7 Lat: 8.55N Lon: 126.63E Depth: 46F Agency: IGL Distant**  
**Magnitudes: 5.2Ms IGL Rms: 0.0 secs**  
**MINDANAO, PHILIPPINES Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13081	321	EPKPdf			625	24.16	-.050							1.0
MESJ	BZ13081	321	IAMs_20			714	35.19			796	24.2				
MORF	BZ13148	320	EPKPdf			625	25.460	.050							1.0
MORF	BZ13148	320	IAMs_20			719	58.30			658	20.6				

**July 31 2020 Hour: 10: 2 16.8 Lat: 8.72S Lon: 152.72E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.3Ms IGL Rms: 0.0 secs**  
**D-ENTRECASTEAUX ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16283	332	EPKPdf			1021	55.870	.030							1.0
MESJ	BZ16283	332	IAMs_20			1120	18.20			478	20.9				
MORF	BZ16354	332	EPKPdf			1021	56.93	-.030							1.0

**July 31 2020 Hour: 17: 6 0.7 Lat: 7.48S Lon: 156.83E Depth: 398F Agency: IGL Distant**  
**Magnitudes: 5.3Ms IGL Rms: 0.1 secs**  
**SOLOMON ISLANDS Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16350	338	EPKP			1724	53.69	-.070							1.0
MORF	BZ16420	338	EPKP			1724	54.920	.070							1.0

**August 1 2020 Hour: 8:25 26.8 Lat: 16.34S Lon: 72.61W Depth: 80F Agency: IGL Distant**  
**Magnitudes: 5.1Mb IGL Rms: 0.0 secs**  
**NEAR COAST OF SOUTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ 8944	47	EP			837	29.640	.030							1.0
MORF	BZ 8944	47	IAMB			837	30.69			35	1.2				
MESJ	BZ 9006	46	EP			837	32.50	-.030							1.0
MESJ	BZ 9006	46	IAMB			837	34.03			27	1.2				

**August 1 2020 Hour: 17: 9 1.7 Lat: 7.28N Lon: 124.12E Depth: 481F Agency: IGL Distant**  
**Magnitudes: 5.1Mb IGL Rms: 0.0 secs**  
**MINDANAO, PHILIPPINES Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13011	319	EPKPdf			1726	50.860	.010							1.0
MESJ	BZ13011	319	EPP			1728	8.160	.040							1.0
GGNV	BZ13021	320	EPKPdf			1726	50.99	-.000							1.0
GGNV	BZ13021	320	EPP			1728	8.770	.050							1.0
MORF	BZ13076	319	EPKPdf			1726	51.95	-.080							1.0
MORF	BZ13076	319	EPP			1728	12.19	-.020							1.0

**August 1 2020 Hour: 17:56 56.0 Lat: 36.97N Lon: 13.46W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	429	84	EP		1757	51.190	.100							1.0
MORF	HN	429	84	ES		1758	31.17	-.160							1.0
MORF	HN	429	84	IAML		1758	32.70			19	0.2				
MESJ	HN	474	77	ES		1758	40.800	.070							1.0
MESJ	HN	474	77	IAML		1758	44.72			9					

**August 3 2020 Hour: 8:31 10.3 Lat: 17.07N Lon: 147.33E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.5Ms IGL Rms: 0.0 secs**  
**MARIANA ISLANDS REGION Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ13437 338 EPP 851 30.400.020 1.0  
 MESJ BZ13437 338 IAmS\_20 949 57.07 1165 16.4  
 MORF BZ13508 338 EPP 851 34.73-.020 1.0  
 MORF BZ13508 338 IAmS\_20 950 9.53 877 16.4

**August 3 2020 Hour: 11:56 52.2 Lat: 19.60S Lon: 69.26W Depth:104FAgency: IGL Distant**  
**Magnitudes: 5.4Mb IGL Rms: 0.1 secs**  
**TARAPACA, CHILE Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ 8940 45 EP 12 8 52.270.150 1.0  
 MORF BZ 8940 45 EpP 12 9 18.900.160 1.0  
 MORF BZ 8940 45 IAmB 12 9 22.91 43 1.1  
 MORF BE 8940 45 ES 1218 49.81-.160 1.0  
 MESJ BZ 9005 45 EP 12 8 55.13-.030 1.0  
 MESJ BZ 9005 45 EpP 12 9 21.81-.010 1.0  
 MESJ BZ 9005 45 IAmB 12 9 26.42 290 2.7  
 MESJ BN 9005 45 ES 1218 55.80-.110 1.0

**August 3 2020 Hour: 22: 4 42.7 Lat: 37.13N Lon: 13.31W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 2.2ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: MAD**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 413 86 EP 22 5 38.630.030 1.0  
 MORF HN 413 86 ES 22 6 19.27-.150 1.0  
 MORF HN 413 86 IAML 22 6 22.38 9 0.1  
 MESJ HZ 457 78 EP 22 5 43.870.040 1.0  
 MESJ HN 457 78 ES 22 6 28.550.080 1.0  
 MESJ HN 457 78 IAML 22 6 32.17 3 0.0

**August 4 2020 Hour: 1:29 45.4 Lat: 36.29N Lon: 9.16W Depth: 3F 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 121 22 EP 130 5.090.090 1.0  
 MORF HE 121 22 ES 130 19.21-.090 1.0  
 MORF HN 121 22 IAML 130 21.96 13 0.2

**August 4 2020 Hour: 2:38 7.3 Lat: 38.53N Lon: 7.92W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 0.5ML IGL Rms: 0.0 secs**  
**S EVORA, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 81 199 EP 238 20.310.010 1.0  
 MESJ HN 81 199 ES 238 29.74-.010 1.0  
 MESJ HN 81 199 IAML 238 30.64 2 0.1

**August 4 2020 Hour: 2:39 22.8 Lat: 35.43N Lon: 3.86W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 0.5ML 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 473 306 EP 240 26.69-.010 1.0

**August 4 2020 Hour: 4: 1 57.8 Lat: 38.38N Lon: 9.52W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.1ML 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  
 GGNV HE 49 41 ES 4 2 12.000.100 1.0  
 GGNV HN 49 41 IAML 4 2 13.72 37 0.2  
 MESJ HZ 129 117 EP 4 2 18.020.030 1.0  
 MESJ HE 129 117 ES 4 2 32.60-.140 1.0

MESJ HN 129 117 IAML 4 2 34.49 1 0.1

**August 4 2020 Hour: 9:37 35.7 Lat: 38.19N Lon: 38.72E Depth: 5F Agency: IGL Distant  
Magnitudes: 5.0Ms 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	4077	284	EP		944	43.25	-.040							1.0
MESJ	BZ	4077	284	EPP		946	6.480	.020							1.0
MESJ	BE	4077	284	ES		950	28.070	.050							1.0
MESJ	BZ	4077	284	IAMs_20	10	0	55.50			2237	20.1				
GGNV	BE	4130	286	IAMs_20		959	1.62			4652	29.6				
MORF	BZ	4130	284	EPP		946	11.90	-.120							1.0
MORF	BZ	4130	284	IAMs_20	10	5	33.21			1649	13.4				
GGNV	BZ	4130	286	EPP		946	12.070	.090							1.0

**August 4 2020 Hour: 15:27 4.0 Lat: 36.70N Lon: 7.68W Depth: 24F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	110	308	EP		1527	20.70	-.150							1.0
MORF	HE	110	308	ES		1527	33.170	.020							1.0
MORF	HE	110	308	IAML		1527	34.88			44	0.2				
MESJ	HZ	135	339	EP		1527	24.070	.060							1.0
MESJ	HN	135	339	ES		1527	38.700	.080							1.0
MESJ	HN	135	339	IAML		1527	40.20			16	0.3				

**August 4 2020 Hour: 16:31 18.9 Lat: 12.59S Lon: 166.60E Depth: 70F Agency: IGL Distant  
Magnitudes: 5.4Ms IGL Rms: 0.1 secs**

**SANTA CRUZ ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17189	350	EPKp $\bar{d}$ f			1651	2.17	-.070							1.0
MESJ	BZ17189	350	EPP			1655	1.440	.140							1.0
MESJ	BZ17189	350	IAMs_20	18	1	18.40				528	19.2				
MORF	BZ17255	351	EPKp $\bar{d}$ f			1651	3.210	.100							1.0
MORF	BZ17255	351	EPP			1655	4.48	-.180							1.0

**August 4 2020 Hour: 18: 3 36.9 Lat: 36.49N Lon: 8.46W Depth: 19F Agency: IGL Regional  
Magnitudes: 3.8ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	92	349	EP		18 3	51.630	.030							1.0
MORF	HN	92	349	ES		18 4	2.23	-.100							1.0
MORF	HE	92	349	IAML		18 4	4.47			3107	0.3				
MESJ	HZ	151	8	EP		18 3	59.29	-.030							1.0
MESJ	HE	151	8	ES		18 4	15.68	-.000							1.0
MESJ	HN	151	8	IAML		18 4	21.16			1017	0.2				
GGNV	HZ	255	346	EP		18 4	12.340	.220							0.9
GGNV	HN	255	346	ES		18 4	37.74	-.100							0.9
GGNV	HN	255	346	IAML		18 4	52.74			642	0.4				

**August 4 2020 Hour: 19:17 52.4 Lat: 13.35N Lon: 91.95W Depth: 12F Agency: IGL Distant  
Magnitudes: 5.6Ms IGL Rms: 0.1 secs**

**OFFSHORE GUATEMALA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8483	53	EP		1929	40.870	.010							1.0
GGNV	BZ	8483	53	IAMs_20	19	53	48.99			5238	33.9				
MORF	BZ	8543	54	EP		1929	43.95	-.100							1.0
MORF	BE	8543	54	IAMs_20	19	54	38.70			7254	45.7				
MESJ	BZ	8574	54	EP		1929	45.570	.010							1.0
MESJ	BE	8574	54	ES		1939	34.900	.080							1.0
MESJ	BZ	8574	54	IAMs_20	19	54	29.43			4148	34.8				

August 5 2020 Hour: 4:49 21.1 Lat: 36.71N Lon: 7.65W Depth: 24F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	111	307	ES		449	50.47	-.060							1.0
MORF	HE	111	307	IAML		449	52.22			3	0.1				
MESJ	HZ	135	338	EP		449	41.00	-.070							1.0
MESJ	HN	135	338	ES		449	55.810	.140							1.0
MESJ	HN	135	338	IAML		449	58.41			3	0.1				

August 5 2020 Hour: 7:7 12.3 Lat: 36.53N Lon: 8.43W Depth: 18F Agency: IGL Regional  
Magnitudes: 2.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	88	347	EP		7 7	26.540	.090							1.0
MORF	HN	88	347	ES		7 7	36.73	-.020							1.0
MORF	HN	88	347	IAML		7 7	38.55			209	0.3				
MESJ	HZ	147	7	EP		7 7	34.21	-.040							1.0
MESJ	HN	147	7	ES		7 7	50.22	-.030							1.0
MESJ	HN	147	7	IAML		7 7	56.10			126	0.2				

August 5 2020 Hour: 8:48 6.5 Lat: 87.35N Lon: 6.50E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

NORTH OF SVALBARD Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5522	195	EP		856	58.550	.060							1.0
MESJ	BZ	5522	195	IAMB		857	0.55			49	1.5				
MESJ	BE	5522	195	ES		9 4	8.04	-.060							1.0

August 5 2020 Hour: 12:5 36.0 Lat: 16.11S Lon: 168.08E Depth: 175F 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	BZ17512	354	EP	KPab		1225	43.14	-.060							1.0
GGNV	BZ17512	354	EPP			1229	22.800	.090							1.0
MESJ	BZ17596	352	EP	KPab		1225	46.560	.010							1.0
MESJ	BZ17596	352	EPP			1229	26.910	.010							1.0
MORF	BZ17661	353	EP	KPab		1225	48.97	-.170							0.9
MORF	BZ17661	353	EPP			1229	30.210	.090							1.0

August 5 2020 Hour: 15:23 54.5 Lat: 35.51N Lon: 9.89W Depth: 33F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	299	30	EP		1524	34.31	-.010							1.0
MESJ	HN	299	30	ES		1525	3.400	.010							1.0
MESJ	HN	299	30	IAML		1525	4.94			4	0.3				

August 5 2020 Hour: 17:54 0.4 Lat: 36.10N Lon: 141.88E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.6Ms IGL Rms: 0.0 secs

NEAR EAST COAST OF HONSHU, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11274	336	EPP			1812	1.230	.030							1.0
MESJ	BE11274	336	ESS			1826	34.21	-.030							1.0
MESJ	BZ11274	336	IAMS_20			1858	49.50			1673	19.3				

August 6 2020 Hour: 10:30 14.2 Lat: 36.53N Lon: 11.24W 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
MESJ	HZ	305	61	EP		1030	54.78	-.100							1.0
MESJ	HE	305	61	ES		1031	24.700	.100							1.0
MESJ	HE	305	61	IAML		1031	27.16			2	0.2				

**August 6 2020 Hour: 22:18 7.0 Lat: 15.88S Lon: 74.90W Depth: 28F Agency: IGL Distant**  
**Magnitudes: 5.0Mb IGL Rms: 0.0 secs**  
**NEAR COAST OF SOUTHERN PERU Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 9150 47 EP 2230 25.770.010 1.0  
 MESJ BZ 9150 47 IAmb 2230 27.42 12 0.8  
 MESJ BE 9150 47 ES 2240 39.78-.010 1.0

**August 7 2020 Hour: 6:15 37.3 Lat: 36.53N Lon: 6.28E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 4.3Ms IGL Rms: 0.1 secs**  
**NORTHERN ALGERIA Net: CSEM**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 1294 281 EP 618 23.44-.080 1.0  
 MESJ BE 1294 281 ES 620 34.840.080 1.0  
 MESJ BN 1294 281 IAMs\_20 622 45.91 2001 13.1

**August 7 2020 Hour: 11:13 33.3 Lat: 36.54N Lon: 6.34E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 3.5Ms IGL Rms: 0.1 secs**  
**NORTHERN ALGERIA Net: CSEM**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 1300 281 EP 1116 20.08-.090 1.0  
 MESJ BE 1300 281 ES 1118 31.990.090 1.0  
 MESJ BN 1300 281 IAMs\_20 1120 42.77 344 12.5

**August 8 2020 Hour: 0:35 8.2 Lat: 43.27N Lon: 87.67E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.0Mb IGL Rms: 0.0 secs**  
**NORTHERN XINJIANG, CHINA Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 7673 302 EP 046 14.100.010 1.0  
 MESJ BZ 7673 302 IAmb 046 15.36 11 0.9

**August 8 2020 Hour: 8:29 30.3 Lat: 36.72N Lon: 3.14W Depth: 1 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 467 287 EP 830 33.490.010 1.0

**August 8 2020 Hour: 11:24 57.6 Lat: 38.64N Lon: 7.96W Depth: 3F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**  
**NW EVORA, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 92 194 EP 1125 12.32-.040 1.0  
 MESJ HN 92 194 ES 1125 23.210.040 1.0  
 MESJ HN 92 194 IAML 1125 26.16 12 0.2

**August 8 2020 Hour: 12:52 59.8 Lat: 54.95N Lon: 158.43W Depth: 23F Agency: IGL Distant**  
**Magnitudes: 5.2Ms IGL Rms: 0.1 secs**  
**SOUTH OF ALASKA Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 9342 23 EP 13 5 28.30-.060 1.0  
 MESJ BN 9342 23 ESKSac 1315 49.890.060 1.0  
 MESJ BZ 9342 23 IAMs\_20 1343 15.12 898 19.8

**August 8 2020 Hour: 14:42 54.7 Lat: 54.82N Lon: 161.23W Depth: 41F Agency: IGL Distant**  
**Magnitudes: 5.1Ms IGL Rms: 0.1 secs**  
**ALASKA PENINSULA Net: CSEM**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 GGNV BZ 9308 22 EP 1455 19.230.120 1.0  
 MESJ BZ 9424 21 EP 1455 24.39-.010 1.0  
 MESJ BN 9424 21 ESKSac 15 5 44.87-.110 1.0  
 MESJ BZ 9424 21 IAMs\_20 1530 51.85 1005 26.0

August 8 2020 Hour: 23:031.9 Lat: 36.66N Lon: 2.12E Depth: 1 Agency: IGL Regional  
Rms: 0.0 secs

**NORTHERN ALGERIA Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	926	281	EP		23	2	30.040	.000						1.0

August 9 2020 Hour: 14:5753.9 Lat: 55.15N Lon: 158.12W Depth: 24F Agency: IGL Distant  
Magnitudes: 5.4Mb 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
MESJ	BZ	9314	24	EP		1510	21.00	-.000							1.0
MESJ	BZ	9314	24	IAMB		1510	22.46			33	1.2				
MESJ	BE	9314	24	ESKsac		1520	42.000	.000							1.0

August 10 2020 Hour: 3:5957.9 Lat: 35.39N Lon: 9.75W Depth: 28F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.0 secs

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	304	26	EP		4	0	38.720	.020						1.0
MESJ	HE	304	26	ES		4	1	8.42	-.020						1.0
MESJ	HN	304	26	IAML		4	1	9.65			4	0.3			

August 10 2020 Hour: 11:2814.9 Lat: 36.69N Lon: 7.63W Depth: 21F 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	138	338	EP		1128	35.530	.060							1.0
MESJ	HN	138	338	ES		1128	50.43	-.060							1.0
MESJ	HE	138	338	IAML		1128	51.58				2	0.1			

August 10 2020 Hour: 12:5356.0 Lat: 36.71N Lon: 7.61W Depth: 22F Agency: IGL Regional  
Magnitudes: 0.8ML 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	337	EP		1254	16.32	-.050							1.0
MESJ	HE	137	337	ES		1254	31.260	.050							1.0
MESJ	HN	137	337	IAML		1254	32.95				1	0.3			

August 10 2020 Hour: 14:1327.8 Lat: 16.85N Lon: 85.87W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.3Ms IGL Rms: 0.1 secs

**OFFSHORE HONDURAS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	7726	54	EP		1424	36.22	-.010							1.0
GGNV	BZ	7726	54	IAMs_20		1448	24.34			2778	26.0				
MESJ	BZ	7817	55	EP		1424	41.430	.130							1.0
MESJ	BN	7817	55	ES		1433	53.83	-.120							1.0
MESJ	BZ	7817	55	IAMs_20		1448	58.01			1904	23.2				

August 11 2020 Hour: 6:1521.0 Lat: 37.34N Lon: 8.55W Depth: 6F Agency: IGL Regional  
Magnitudes: 0.2ML IGL Rms: 0.1 secs

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	28	EP		615	31.230	.070							1.0
MESJ	HN	63	28	ES		615	38.50	-.070							1.0
MESJ	HN	63	28	IAML		615	42.69				1	0.1			

August 11 2020 Hour: 11:3041.2 Lat: 35.71N Lon: 4.61W Depth: 98F 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	400	307	EP		1131	32.99	-.010							1.0

**August 11 2020 Hour: 23: 8 14.3 Lat: 36.69N Lon: 7.64W Depth: 24F 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  
 MESJ HZ 138 338 EP 23 8 34.63-.010 1.0  
 MESJ HN 138 338 ES 23 8 49.470.010 1.0  
 MESJ HN 138 338 IAML 23 8 51.48 5 0.1

**August 12 2020 Hour: 0:16 50.6 Lat: 35.79N Lon: 6.41W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.0 secs**  
**STRAIT OF GIBRALTAR Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 279 325 EP 017 29.55-.010 1.0  
 MESJ HE 279 325 ES 017 58.020.010 1.0  
 MESJ HN 279 325 IAML 017 59.78 1 0.2

**August 12 2020 Hour: 17:13 15.8 Lat: 7.33S Lon: 39.81E Depth: 16F Agency: IGL Distant**  
**Magnitudes: 6.2Ms IGL Rms: 0.1 secs**  
**TANZANIA Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 7057 319 EP 1723 44.60-.140 1.0  
 MESJ BN 7057 319 ES 1732 17.910.140 1.0  
 MESJ BZ 7057 319 IAMs\_20 1754 31.45 9529 17.4  
 GGNV BZ 7179 319 EP 1723 51.80-.130 1.0  
 GGNV BN 7179 319 ES 1732 31.460.130 1.0  
 GGNV BZ 7179 319 IAMs\_20 1756 26.02 16402 14.4

**August 12 2020 Hour: 21: 8 43.1 Lat: 37.62N Lon: 8.38W Depth: 6F Agency: IGL Regional**  
**Magnitudes: 0.1ML IGL Rms: 0.0 secs**  
**SW OURIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 28 30 EP 21 8 47.72-.050 1.0  
 MESJ HE 28 30 ES 21 8 51.210.050 1.0  
 MESJ HN 28 30 IAML 21 8 51.75 3 0.2

**August 12 2020 Hour: 22:40 45.5 Lat: 28.05N Lon: 65.99E Depth: 13F Agency: IGL Distant**  
**Magnitudes: 5.3Mb IGL Rms: 0.0 secs**  
**PAKISTAN Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 6848 300 EP 2251 2.590.020 1.0  
 MESJ BZ 6848 300 IAmb 2251 6.68 11 0.5  
 MESJ BN 6848 300 ES 2259 24.99-.020 1.0

**August 13 2020 Hour: 1: 1 27.4 Lat: 36.68N Lon: 5.88W Depth: 23F Agency: IGL Regional**  
**Magnitudes: 1.5ML 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 244 302 EP 1 2 1.280.010 1.0  
 MESJ HE 244 302 ES 1 2 25.98-.010 1.0  
 MESJ HN 244 302 IAML 1 2 28.78 3 0.2

**August 13 2020 Hour: 6:37 57.5 Lat: 37.43N Lon: 8.50W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 52 28 EP 638 5.870.050 1.0  
 MESJ HE 52 28 ES 638 11.86-.050 1.0  
 MESJ HE 52 28 IAML 638 12.39 4 0.2



**August 13 2020 Hour: 6:39 58.0 Lat: 53.42N Lon: 163.70W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.3Ms IGL Rms: 0.0 secs**  
**UNIMAK ISLAND REGION, ALASKA Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 9627 19 EP 652 41.31-.050 1.0  
 MESJ BN 9627 19 ESKSac 7 3 8.030.050 1.0  
 MESJ BZ 9627 19 IAMS\_20 731 36.11 1450 22.8

**August 13 2020 Hour: 10:52 1.2 Lat: 39.61N Lon: 7.84W Depth: 24F Agency: IGL Regional**  
**Rms: 0.1 secs**  
**SW VILA VELHA DE RODAO, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 199 190 EP 1052 29.230.100 1.0

**August 14 2020 Hour: 8:44 37.4 Lat: 34.73N Lon: 4.58W Depth: 25F Agency: IGL Regional**  
**Magnitudes: 3.4ML IGL Rms: 0.0 secs**  
**MOROCCO Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 475 318 EP 845 39.330.010 1.0  
 MESJ HE 475 318 ES 846 24.53-.010 1.0  
 MESJ HN 475 318 IAML 846 30.00 75 0.3

**August 14 2020 Hour: 13:47 41.9 Lat: 37.31N Lon: 8.61W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**  
**W MONCHIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 4 261 EP 1347 43.79-.230 1.0  
 MORF HN 4 261 ES 1347 45.640.080 1.0  
 MORF HE 4 261 IAML 1347 46.27 2805 0.2  
 MESJ HZ 68 30 EP 1347 53.040.140 1.0  
 MESJ HN 68 30 ES 1348 0.950.020 1.0  
 MESJ HN 68 30 IAML 1348 1.65 26 0.1

**August 15 2020 Hour: 1:25 41.9 Lat: 36.48N Lon: 9.75W Depth: 13F 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 HE 134 47 ES 126 18.010.070 1.0  
 MORF HE 134 47 IAML 126 18.55 4 0.2  
 MESJ HZ 203 42 EP 126 11.26-.040 1.0  
 MESJ HN 203 42 ES 126 32.70-.040 1.0  
 MESJ HN 203 42 IAML 126 35.21 2 0.2

**August 15 2020 Hour: 23:1 16.4 Lat: 37.67N Lon: 16.10W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: MAD**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 659 91 EP 23 2 41.62-.090 1.0  
 MORF HE 659 91 ES 23 3 44.040.090 1.0  
 MORF HN 659 91 IAML 23 3 46.21 6 0.2

**August 16 2020 Hour: 0:15 4.9 Lat: 36.57N Lon: 9.76W Depth: 41F 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 128 50 ES 015 37.580.200 1.0  
 MORF HE 128 50 IAML 015 38.72 6 0.3  
 MESJ HZ 196 44 EP 015 31.93-.190 1.0  
 MESJ HN 196 44 ES 015 51.94-.020 1.0  
 MESJ HN 196 44 IAML 015 53.59 0.80 0.1

August 16 2020 Hour: 3:18 48.9 Lat: 19.25S Lon: 70.35W Depth: 64F Agency: IGL Distant  
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

OFFSHORE TARAPACA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8994	45	EP		330	55.94	-.030							1.0
MORF	BZ	8994	45	IAmb		331	5.50			27	0.7				
MESJ	BZ	9058	45	EP		330	58.990	.030							1.0
MESJ	BZ	9058	45	IAmb		331	8.12			15	0.5				

August 16 2020 Hour: 3:43 14.0 Lat: 27.50S Lon: 63.33W Depth:582F Agency: IGL Distant  
Magnitudes: 4.3Mb IGL Rms: 0.0 secs

SANTIAGO DEL ESTERO, ARGENTINA Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9234	41	EP		354	39.000	.010							1.0
MESJ	BZ	9234	41	IAmb		354	39.54			10	1.0				

August 16 2020 Hour: 7:29 7.5 Lat: 37.35N Lon: 8.85W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	18	106	EP		729	10.42	-.020							1.0
MORF	HE	18	106	ES		729	12.660	.060							1.0
MORF	HN	18	106	IAML		729	13.80			37	0.2				
MESJ	HZ	78	45	EP		729	20.090	.060							1.0
MESJ	HN	78	45	ES		729	29.10	-.090							1.0
MESJ	HN	78	45	IAML		729	30.14			0.90	0.1				

August 16 2020 Hour: 7:22 30.2 Lat: 6.46N Lon: 123.48E Depth:580F Agency: IGL Distant  
Rms: 0.0 secs

MORO GULF, MINDANAO, PHILIPPINES Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	13032	318	EPKPdf		740	9.760	.030							1.0
MORF	BZ	13097	318	EPKPdf		740	10.86	-.030							1.0

August 16 2020 Hour: 20: 5 51.4 Lat: 51.36N Lon: 171.04W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.8Ms IGL Rms: 0.1 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9877	14	EP		2018	45.23	-.150							1.0
GGNV	BZ	9877	14	EPP		2022	15.09	-.000							1.0
GGNV	BZ	9877	14	IAMs_20		21 0	43.32			3548	23.9				
MESJ	BZ	9988	14	EP		2018	49.94	-.160							1.0
MESJ	BZ	9988	14	EPP		2022	23.190	.100							1.0
MESJ	BN	9988	14	ESKSac		2029	21.170	.190							1.0
MESJ	BN	9988	14	ESS		2035	42.340	.060							1.0
MESJ	BZ	9988	14	IAMs_20		21 4	59.34			3395	18.5				
MORF	BZ	10039	14	EP		2018	52.18	-.130							1.0
MORF	BZ	10039	14	EPP		2022	26.900	.100							1.0
MORF	BZ	10039	14	IAMs_20		21 4	34.26			3195	18.1				

August 17 2020 Hour: 7:27 2.2 Lat: 36.94N Lon: 23.74E Depth: 94F Agency: IGL Distant  
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

SOUTHERN GREECE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2818	282	EP		732	20.380	.010							1.0
MESJ	BZ	2818	282	IAmb		732	22.86			133	1.5				
MESJ	BE	2818	282	ES		736	40.61	-.010							1.0

August 17 2020 Hour: 8:38 28.9 Lat: 35.55N Lon: 9.50W Depth: 8F 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	209	21	EP		838	59.48	-.020							1.0
MESJ	HZ	279	24	EP		839	8.150	.030							1.0

August 17 2020 Hour: 9:52 35.6 Lat: 15.26N Lon: 45.70W Depth: 10F Agency: IGL Distant  
Magnitudes: 4.8Mb IGL Rms: 0.0 secs

**NORTHERN MID-ATLANTIC RIDGE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4391	49	EP		10 0	6.05	-.010							1.0
MORF	BZ	4391	49	I Amb		10 0	7.25			31	1.4				
MESJ	BZ	4450	49	EP		10 0	10.450	.030							1.0
MESJ	BZ	4450	49	I Amb		10 0	12.37			26	1.4				
MESJ	BE	4450	49	ES		10 6	16.86	-.020							1.0

August 17 2020 Hour: 9:52 12.8 Lat: 18.07S Lon: 178.43W Depth: 593F 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
MESJ	BZ17641	22	EP	KPab		1011	42.070	.010							1.0
MORF	BZ17676	23	EP	KPab		1011	43.51	-.010							1.0

August 17 2020 Hour: 11:15 19.5 Lat: 37.31N Lon: 8.50W Depth: 9F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

**E MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	14	267	EP		1115	22.240	.020							1.0
MESJ	HZ	64	23	EP		1115	30.100	.170							1.0
MESJ	HN	64	23	ES		1115	37.33	-.190							1.0
MESJ	HN	64	23	I AML		1115	38.62			6	0.2				

August 17 2020 Hour: 12: 5 57.3 Lat: 37.43N Lon: 7.97W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

**SE ALMODOVAR, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	51	334	EP		12 6	5.800	.150							1.0
MESJ	HE	51	334	ES		12 6	11.63	-.110							1.0
MESJ	HN	51	334	I AML		12 6	13.39			4	0.1				
MORF	HE	62	257	ES		12 6	14.82	-.040							1.0
MORF	HN	62	257	I AML		12 6	16.96			7	0.3				

August 18 2020 Hour: 0: 3 48.7 Lat: 12.02N Lon: 124.12E Depth: 10F Agency: IGL Distant  
Magnitudes: 7.1Ms IGL Rms: 0.0 secs

**SAMAR, PHILIPPINES Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BN12609	320	EPP			023	16.740	.010							1.0
MESJ	BN12609	320	I AMs_20			1 7	2.84			48354	20.7				
GGNV	BZ12612	322	EPP			023	16.910	.030							1.0
GGNV	BE12612	322	I AMs_20			1 6	11.79			79839	25.2				
MORF	BZ12676	320	EPP			023	21.01	-.040							1.0
MORF	BN12676	320	I AMs_20			1 7	32.32			66907	24.2				

August 18 2020 Hour: 2:26 31.5 Lat: 38.27N Lon: 7.45W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

**SW MOURAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	83	235	EP		226	44.830	.030							1.0
MESJ	HN	83	235	ES		226	54.52	-.030							1.0
MESJ	HN	83	235	I AML		226	55.40			7	0.1				

August 18 2020 Hour: 5:34 9.2 Lat: 36.58N Lon: 11.19W Depth: 18F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs

**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	240	70	EP		534	42.750	.010							1.0
MORF	HN	240	70	ES		535	7.290	.060							1.0
MORF	HN	240	70	IAML		535	8.90		14	0.3					
MESJ	HZ	298	61	EP		534	49.90	-.080							1.0
MESJ	HN	298	61	ES		535	19.74	-.000							1.0
MESJ	HN	298	61	IAML		535	21.39		5	0.1					

August 18 2020 Hour: 10:39 29.6 Lat: 36.90N Lon: 11.09W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.0 secs

**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	221	78	EP		1039	59.120	.000							1.0
MORF	HE	221	78	ES		1040	20.67	-.010							1.0
MORF	HN	221	78	IAML		1040	22.25		7	0.2					
MESJ	HN	275	67	ES		1040	32.130	.010							1.0
MESJ	HN	275	67	IAML		1040	34.28		2	0.1					

August 18 2020 Hour: 11:15 59.4 Lat: 34.87N Lon: 5.46W Depth: 5F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.0 secs

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	412	324	EP		1116	55.540	.010							1.0
MESJ	HN	412	324	ES		1117	36.51	-.010							1.0
MESJ	HN	412	324	IAML		1117	39.54		5	0.2					

August 18 2020 Hour: 22:23 59.6 Lat: 4.35S Lon: 101.13E Depth: 22F Agency: IGL Distant  
Rms: 0.1 secs

**SOUTHERN SUMATRA, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12013	308	EPdif			2238	17.75	-.110							1.0
MESJ	BZ12013	308	EPP			2242	47.080	.120							1.0
MORF	BZ12060	308	EPdif			2238	19.69	-.090							1.0
MORF	BZ12060	308	EPP			2242	50.150	.070							1.0
GGNV	BZ12078	309	EPP			2242	51.210	.010							1.0

August 18 2020 Hour: 22:29 24.3 Lat: 4.28S Lon: 101.23E Depth: 26F Agency: IGL Distant  
Rms: 0.1 secs

**SOUTHERN SUMATRA, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12017	308	EPP			2248	11.30	-.070							1.0
MORF	BZ12064	308	EPP			2248	14.500	.000							1.0
GGNV	BZ12082	309	EPP			2248	15.670	.070							1.0

August 19 2020 Hour: 3:10 8.5 Lat: 35.92N Lon: 6.99W Depth: 16F 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	240	333	EP		310	42.150	.010							1.0

August 19 2020 Hour: 4:5 37.5 Lat: 37.64N Lon: 8.38W Depth: 5F Agency: IGL Regional  
Magnitudes: 0.4ML 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	26	32	EP		4 5	41.79	-.030							1.0
MESJ	HN	26	32	ES		4 5	45.070	.100							1.0
MESJ	HN	26	32	IAML		4 5	45.55		6	0.1					
MORF	HZ	44	213	EP		4 5	44.760	.050							1.0
MORF	HN	44	213	ES		4 5	49.86	-.120							1.0
MORF	HN	44	213	IAML		4 5	50.54		3	0.1					

August 19 2020 Hour: 19:45 59.8 Lat: 54.95N Lon: 160.30W Depth: 45F Agency: IGL Distant  
Magnitudes: 5.4Mb 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
MESJ	BZ	9388	22	EP		1958	27.39	-.050							1.0
MESJ	BZ	9388	22	I Amb		1958	29.02			19	1.2				
MORF	BZ	9435	22	EP		1958	29.67	0.050							1.0
MORF	BZ	9435	22	I Amb		1958	30.83			68	1.3				

August 20 2020 Hour: 1:20 55.2 Lat: 38.72N Lon: 9.04W Depth: 0 Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NW MONTIJO, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	9	268	EP		120	56.68	-.060							1.0
GGNV	HN	9	268	ES		120	57.81	-.030							1.0
GGNV	HE	9	268	I AML		120	58.42			121	0.2				
MESJ	HZ	121	143	EP		121	14.94	0.130							1.0
MESJ	HE	121	143	ES		121	29.07	-.030							1.0
MESJ	HE	121	143	I AML		121	31.23			1	0.2				

August 20 2020 Hour: 5:46 35.9 Lat: 38.70N Lon: 9.06W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.0 secs

NE BARREIRO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	8	283	EP		546	37.91	-.010							1.0
GGNV	HE	8	283	ES		546	39.44	0.010							1.0
GGNV	HN	8	283	I AML		546	39.75			79	0.2				

August 20 2020 Hour: 17:26 52.5 Lat: 36.55N Lon: 11.14W Depth: 27F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	237	69	EP		1727	24.96	-.030							1.0
MORF	HN	237	69	ES		1727	48.70	0.000							1.0
MORF	HN	237	69	I AML		1727	51.16			15	0.2				
MESJ	HE	296	60	ES		1728	1.40	0.030							1.0
MESJ	HN	296	60	I AML		1728	7.07			4	0.1				

August 20 2020 Hour: 22:58 56.9 Lat: 38.38N Lon: 8.00W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

N VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	198	EP		2259	7.32	0.100							1.0
MESJ	HN	63	198	ES		2259	14.64	-.080							1.0
MESJ	HN	63	198	I AML		2259	15.12			2	0.1				
MORF	HE	132	206	ES		2259	32.94	-.020							1.0
MORF	HE	132	206	I AML		2259	34.53			2	0.3				

August 20 2020 Hour: 23:30 22.2 Lat: 37.00N Lon: 8.93W Depth: 26F 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	42	36	EP		2330	29.75	-.090							1.0
MORF	HE	42	36	ES		2330	35.51	0.090							1.0
MORF	HE	42	36	I AML		2330	35.80			4	0.1				

August 21 2020 Hour: 4: 9 52.5 Lat: 6.67S Lon: 123.49E Depth: 627F Agency: IGL Distant  
Rms: 0.1 secs

BANDA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	14073	313	EPKP		427	45.14	-.060							1.0
MESJ	BZ	14073	313	EPP		429	51.64	0.190							0.9
GGNV	BZ	14109	314	EPKP		427	45.75	-.030							1.0

GGNV	BZ14109	314	EPP	429	53.620	.110											1.0
MORF	BZ14131	312	EPKP	427	46.20	-.050											1.0
MORF	BZ14131	312	EPP	429	54.77	-.140											1.0

**August 21 2020 Hour: 6:44 56.6 Lat: 36.50N Lon: 7.68W Depth: 21F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	124	316	EP		645	15.53	-.040							1.0
MORF	HN	124	316	ES		645	29.37	-.020							1.0
MORF	HN	124	316	IAML		645	30.57		12	0.1					
MESJ	HZ	156	342	EP		645	19.700	.220							1.0
MESJ	HN	156	342	ES		645	36.01	-.160							1.0
MESJ	HN	156	342	IAML		645	37.93		5	0.1					

**August 21 2020 Hour: 22:14 42.9 Lat: 37.01N Lon: 8.87W Depth: 17F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	38	31	EP		2214	49.47	-.060							1.0
MORF	HE	38	31	ES		2214	54.28	-.080							1.0
MORF	HE	38	31	IAML		2214	54.97		6	0.1					
MESJ	HN	109	32	ES		2215	12.740	.150							1.0
MESJ	HN	109	32	IAML		2215	13.47		3	0.1					

**August 22 2020 Hour: 8:38 4.7 Lat: 7.07S Lon: 12.69W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.5Ms IGL Rms: 0.0 secs**

**ASCENSION ISLAND REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4931	5	EP		846	14.90	-.060							1.0
MORF	BN	4931	5	ES		852	50.150	.060							1.0
MORF	BE	4931	5	IAMs_20		856	23.05		9711	21.4					
MESJ	BN	4995	5	ES		852	58.23	-.010							1.0
MESJ	BE	4995	5	IAMs_20		856	25.42		4279	17.3					
GGNV	BN	5084	4	ES		853	9.770	.020							1.0
GGNV	BZ	5084	4	IAMs_20		9 4	59.50		3551	15.9					

**August 23 2020 Hour: 7:53 43.1 Lat: 36.46N Lon: 7.82W Depth: 15F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	120	322	ES		754	15.630	.010							1.0
MORF	HN	120	322	IAML		754	17.62		6	0.2					
MESJ	HZ	157	347	EP		754	6.570	.010							1.0
MESJ	HN	157	347	ES		754	23.69	-.020							1.0
MESJ	HN	157	347	IAML		754	25.68		3	0.2					

**August 23 2020 Hour: 16:26 38.9 Lat: 38.06N Lon: 8.16W Depth: 9F Agency: IGL Regional  
Magnitudes: 0.5ML IGL Rms: 0.0 secs**

**NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	25	192	EP		1626	43.24	-.010							1.0
MESJ	HN	25	192	ES		1626	46.400	.010							1.0
MESJ	HE	25	192	IAML		1626	46.59		8	0.1					

**August 24 2020 Hour: 16: 2 50.6 Lat: 38.91N Lon: 8.00W Depth: 2F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs**

**E MORA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	120	189	EP		16 3	10.170	.120							1.0
MESJ	HN	120	189	ES		16 3	24.10	-.120							1.0
MESJ	HN	120	189	IAML		16 3	25.25		3	0.1					

August 24 2020 Hour: 21:51 10.1 Lat: 9.60N Lon: 84.60W Depth: 27F Agency: IGL Distant  
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

COSTA RICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8095	52	EP		22 2	35.79	-.150							1.0
GGNV	BE	8095	52	ES		2212	0.600	.180							1.0
GGNV	BZ	8095	52	IAMs_20		2231	18.41		9948	18.6					
MORF	BZ	8135	54	EP		22 2	38.15	-.040							1.0
MORF	BE	8135	54	ES		2212	4.750	.030							1.0
MORF	BZ	8135	54	IAMs_20		2228	35.30		10196	16.2					
MESJ	BZ	8174	53	EP		22 2	40.16	-.040							1.0
MESJ	BN	8174	53	ES		2212	8.620	.030							1.0
MESJ	BZ	8174	53	IAMs_20		2233	50.73		6090	23.1					

August 25 2020 Hour: 2:37 43.8 Lat: 36.88N Lon: 8.53W Depth: 14F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	48	347	EP		237	51.970	.150							1.0
MORF	HE	48	347	ES		237	57.780	.090							1.0
MORF	HE	48	347	IAML		238	0.12		6	0.1					
MESJ	HZ	110	14	EP		238	0.98	-.150							1.0
MESJ	HN	110	14	ES		238	13.68	-.110							1.0
MESJ	HN	110	14	IAML		238	15.88		2	0.2					

August 25 2020 Hour: 3:42 9.6 Lat: 35.44N Lon: 3.82W Depth: 0 Agency: IGL Regional  
Magnitudes: 3.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	475	305	EP		343	13.920	.020							1.0
MESJ	HN	475	305	ES		344	1.010	.140							1.0
MESJ	HN	475	305	IAML		344	5.84		32	0.3					
MORF	HZ	480	297	EP		343	14.43	-.160							1.0

August 25 2020 Hour: 5:18 12.2 Lat: 4.03S Lon: 80.82W Depth: 33F Agency: IGL Distant  
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

PERU-ECUADOR BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8725	51	EP		530	9.690	.050							1.0
MORF	BZ	8725	51	IAMB		530	11.13		249	1.7					
MESJ	BZ	8776	50	EP		530	12.09	-.050							1.0
MESJ	BZ	8776	50	IAMB		530	14.05		48	1.3					

August 25 2020 Hour: 15:35 11.3 Lat: 36.96N Lon: 13.53W Depth: 31F 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	435	83	EP		1536	7.280	.130							1.0
MORF	HE	435	83	ES		1536	47.88	-.060							1.0
MORF	HN	435	83	IAML		1536	49.06		5	0.1					
MESJ	HE	480	77	ES		1536	57.27	-.070							1.0
MESJ	HN	480	77	IAML		1536	59.05		1	0.1					

August 25 2020 Hour: 17:3 0.7 Lat: 36.69N Lon: 7.50W Depth: 24F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	304	EP		17 3	19.14	-.090							1.0
MORF	HN	123	304	ES		17 3	32.73	-.040							1.0
MORF	HN	123	304	IAML		17 3	34.06		34	0.1					
MESJ	HZ	143	334	EP		17 3	21.740	.120							1.0
MESJ	HN	143	334	ES		17 3	36.920	.020							1.0
MESJ	HN	143	334	IAML		17 3	38.10		6	0.1					

August 25 2020 Hour: 19: 2 58.8 Lat: 5.49S Lon: 151.78E Depth: 31F Agency: IGL Distant  
Rms: 0.1 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15882	335	EPKP			1922	28.330	.070							1.0
MESJ	BZ15919	333	EPKP			1922	28.80	-.070							1.0
MORF	BZ15990	333	EPKP			1922	30.030	.000							1.0

August 25 2020 Hour: 19: 8 52.3 Lat: 5.49S Lon: 151.81E Depth: 34F Agency: IGL Distant  
Rms: 0.0 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15884	335	EPKP			1928	21.380	.020							1.0
MESJ	BZ15920	333	EPKP			1928	21.94	-.020							1.0
MORF	BZ15991	333	EPKP			1928	23.12	-.000							1.0

August 25 2020 Hour: 20: 4 31.6 Lat: 36.31N Lon: 7.71W Depth: 15F 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	139	323	EP		20 4	52.960	.080							1.0
MESJ	HZ	176	345	EP		20 4	57.510	.080							1.0
MESJ	HN	176	345	ES		20 5	16.10	-.160							1.0
MESJ	HN	176	345	IAML		20 5	22.07			8	0.2				

August 26 2020 Hour: 7:26 35.9 Lat: 37.02N Lon: 8.82W Depth: 28F Agency: IGL Regional  
Magnitudes: 2.3ML IGL Rms: 0.1 secs

SE VILA DO BISPO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	35	25	EP		726	42.78	-.080							1.0
MORF	HE	35	25	ES		726	47.960	.040							1.0
MORF	HE	35	25	IAML		726	48.40			398	0.1				
MESJ	HZ	105	30	EP		726	51.82	-.140							1.0
MESJ	HN	105	30	ES		727	3.850	.190							1.0
MESJ	HN	105	30	IAML		727	6.43			31	0.2				

August 26 2020 Hour: 10:17 23.4 Lat: 36.56N Lon: 11.12W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	235	69	EP		1017	56.220	.080							1.0
MORF	HE	235	69	ES		1018	19.94	-.100							1.0
MORF	HE	235	69	IAML		1018	22.67			10	0.2				
MESJ	HZ	294	60	EP		1018	3.540	.080							1.0
MESJ	HN	294	60	ES		1018	32.66	-.050							1.0
MESJ	HN	294	60	IAML		1018	34.85			2	0.1				

August 27 2020 Hour: 10: 0 29.4 Lat: 6.93S Lon: 155.50E Depth: 80F Agency: IGL Distant  
Rms: 0.0 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16237	337	EPKP			1020	0.14	-.000							1.0

August 29 2020 Hour: 0:18 31.4 Lat: 39.63N Lon: 20.32E Depth: 25F Agency: IGL Distant  
Magnitudes: 4.6Mb IGL Rms: 0.0 secs

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2479	275	EP		023	26.910	.000							1.0
MESJ	BZ	2479	275	Iamb		023	33.51			22	1.0				
MESJ	BN	2479	275	ES		027	32.00	-.000							1.0



August 29 2020 Hour: 13:25 37.8 Lat: 38.10N Lon: 8.39W Depth: 9F Agency: IGL Regional  
Magnitudes: 0.3ML IGL Rms: 0.0 secs

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	33	153	EP		1325	43.270	.040							1.0
MESJ	HE	33	153	ES		1325	47.17	-.040							1.0
MESJ	HN	33	153	IAML		1325	48.47			4	0.0				

August 30 2020 Hour: 1:51 37.9 Lat: 35.27N Lon: 3.53W Depth: 20F 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
MESJ	HZ	507	306	EP		152	44.13	-.060							1.0
MESJ	HN	507	306	ES		153	32.620	.060							1.0
MESJ	HN	507	306	IAML		153	35.86			5	0.4				

August 30 2020 Hour: 3: 1 7.1 Lat: 36.74N Lon: 9.67W Depth: 21F 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	110	55	EP		3	1	24.15	-.080						1.0
MORF	HN	110	55	ES		3	1	36.74	-.020						1.0
MORF	HN	110	55	IAML		3	1	37.50			34	0.1			
MESJ	HZ	177	46	EP		3	1	32.45	-.100						1.0
MESJ	HE	177	46	ES		3	1	51.340	.200						1.0
MESJ	HN	177	46	IAML		3	1	52.70			7	0.2			

August 30 2020 Hour: 5:57 57.6 Lat: 42.85N Lon: 1.49W Depth: 1 Agency: IGL Regional  
Rms: 0.0 secs

PYRENEES Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	797	228	EP		559	40.57	-.010							1.0
MORF	HZ	867	227	EP		559	48.790	.010							1.0

August 30 2020 Hour: 6:38 33.5 Lat: 35.46N Lon: 3.66W Depth: 4F 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		639	38.720	.010							1.0

August 30 2020 Hour: 11:39 26.3 Lat: 37.01N Lon: 5.31W Depth: 2F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	291	EP		1140	5.49	-.010							1.0

August 30 2020 Hour: 14:24 16.9 Lat: 42.97N Lon: 11.34W Depth: 13F Agency: IGL Regional  
Rms: 0.0 secs

NORTH ATLANTIC OCEAN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	628	154	EP		1425	38.400	.030							1.0
MORF	HZ	669	159	EP		1425	43.36	-.040							1.0

August 30 2020 Hour: 18:33 29.2 Lat: 37.37N Lon: 8.33W Depth: 19F Agency: IGL Regional  
Magnitudes: 2.0ML 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	30	256	EP		1833	34.43	-.390							1.0
MORF	HE	30	256	ES		1833	38.960	.060							1.0
MORF	HE	30	256	IAML		1833	39.60				274	0.2			
MESJ	HZ	53	11	EP		1833	38.360	.260							1.0
MESJ	HE	53	11	ES		1833	44.650	.080							1.0
MESJ	HN	53	11	IAML		1833	45.92				52	0.1			

**August 30 2020 Hour: 21:20 29.0 Lat: 0.87N Lon: 29.70W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.2Ms IGL Rms: 0.1 secs**

**CENTRAL MID-ATLANTIC RIDGE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4579	26	EP		2128	13.570	.080							1.0
MORF	BN	4579	26	ES		2134	27.61-	.090							1.0
MORF	BZ	4579	26	IAMs_20		2140	14.27		71196	42.9					
MESJ	BZ	4649	26	EP		2128	18.650	.000							1.0
MESJ	BN	4649	26	ES		2134	36.83-	.200							1.0
MESJ	BZ	4649	26	IAMs_20		2140	14.89		49057	31.2					
GGNV	BZ	4688	24	EP		2128	21.630	.180							1.0
GGNV	BN	4688	24	ES		2134	42.130	.030							1.0
GGNV	BZ	4688	24	IAMs_20		2140	36.48		54178	27.8					

**August 31 2020 Hour: 13:25 3.3 Lat: 38.11N Lon: 7.38W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.1 secs**

**SE MOURA, PORTUGAL Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	80	248	EP		1325	16.400	.200							1.0
MESJ	HN	80	248	ES		1325	25.47-	.160							1.0
MESJ	HN	80	248	IAML		1325	27.01		96	0.2					
MORF	HZ	143	232	EP		1325	25.87-	.020							1.0
MORF	HN	143	232	ES		1325	42.36-	.020							1.0
MORF	HN	143	232	IAML		1325	45.41		70	0.2					

**August 31 2020 Hour: 15:37 39.3 Lat: 36.72N Lon: 9.62W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	108	53	EP		1537	56.340	.020							1.0
MORF	HN	108	53	ES		1538	8.75-	.020							1.0
MORF	HN	108	53	IAML		1538	10.55		7	0.1					

**August 31 2020 Hour: 17:24 4.4 Lat: 4.07S Lon: 70.25E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.8Ms IGL Rms: 0.1 secs**

**CHAGOS ARCHIPELAGO REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9285	309	EP		1736	32.12-	.090							1.0
MESJ	BN	9285	309	ESKSac		1746	53.620	.150							1.0
MESJ	BZ	9285	309	IAMs_20		18 5	59.10		4180	24.8					
MORF	BZ	9312	308	EP		1736	33.42-	.100							1.0
MORF	BN	9312	308	ESKSac		1746	55.200	.030							1.0
MORF	BZ	9312	308	IAMs_20		18 6	21.44		5335	28.6					
GGNV	BZ	9382	309	EP		1736	36.57-	.060							1.0
GGNV	BN	9382	309	ESKSac		1746	59.210	.080							1.0
GGNV	BZ	9382	309	IAMs_20		18 6	37.92		4622	20.0					

**August 31 2020 Hour: 21:18 2.6 Lat: 35.47S Lon: 15.62W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.4Ms IGL Rms: 0.1 secs**

**TRISTAN DA CUNHA REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8083	6	EP		2129	30.500	.120							1.0
MORF	BZ	8083	6	IAMs_20		2154	47.16		2997	25.1					
MESJ	BZ	8146	6	EP		2129	33.67-	.010							1.0
MESJ	BN	8146	6	ES		2139	2.41-	.110							1.0
MESJ	BZ	8146	6	IAMs_20		2154	51.31		2403	26.5					