

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

July to August

2019

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

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

IDL.UL.PT

STATIONS USED

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

Lisboa (IGIDL)
GGNV

Latitude	38.7165N
Longitude	9.1491W
Height	77m

Marmelete (Picos)
MORF

Latitude	37.3043N
Longitude	8.6527W
Height	560m

Messejana
MESJ

Latitude	37.8395N
Longitude	8.2199W
Height	250m

July 1 2019 Hour: 10:38 49.0 Lat: 37.14N Lon: 5.28W Depth: 0 Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	271	288	EP		1039	28.08	-.040							1.0
MORF	HZ	300	275	EP		1039	31.700	.000							1.0
MORF	HE	300	275	ES		1040	2.920	.040							1.0
MORF	HE	300	275	IAML		1040	6.03			9	0.3				

July 1 2019 Hour: 16:15 35.3 Lat: 37.32N Lon: 8.55W Depth: 21F 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
MORF	HZ	9	259	EP		1615	38.93	-.020							1.0
MORF	HE	9	259	ES		1615	41.700	.060							1.0
MORF	HN	9	259	IAML		1615	42.65			12	0.1				
MESJ	HN	65	27	ES		1615	53.63	-.040							1.0
MESJ	HN	65	27	IAML		1615	54.97			3	0.1				

July 1 2019 Hour: 16:59 26.7 Lat: 9.19N Lon: 124.20E Depth:549FAgency: IGL Distant
Rms: 0.1 secs

BOHOL, PHILIPPINES Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ12856	320	EPK	Pdf		1717	6.360	.060							1.0
MESJ	HZ12856	320	EPP			1718	18.18	-.080							1.0
MORF	BZ12922	319	EPK	Pdf		1717	7.510	.020							1.0

July 1 2019 Hour: 17:13 29.4 Lat: 15.46S Lon: 167.52E Depth:100FAgency: 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	BZ17434	353	EPK	Pdf		1733	11.95	-.010							1.0
GGNV	BZ17434	353	EPK	Pab		1733	42.520	.250							0.9
GGNV	BZ17434	353	EPP			1737	20.920	.260							0.9
MESJ	HZ17517	351	EPK	Pdf		1733	12.85	-.090							1.0
MESJ	HZ17517	351	EPK	Pab		1733	45.52	-.010							1.0
MESJ	HZ17517	351	EPP			1737	24.810	.020							1.0
MORF	BZ17582	352	EPK	Pdf		1733	13.60	-.130							1.0
MORF	BZ17582	352	EPK	Pab		1733	48.150	.010							1.0
MORF	BZ17582	352	EPP			1737	27.81	-.240							0.9

July 1 2019 Hour: 21: 1 19.8 Lat: 37.20N Lon: 9.11W Depth: 30F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW VILA DO BISPO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	74	EP		21 1	27.70	-.080							1.0
MORF	HN	42	74	ES		21 1	33.51	-.070							1.0
MORF	HN	42	74	IAML		21 1	34.77			26	0.2				
MESJ	HZ	106	48	EP		21 1	35.970	.170							1.0
MESJ	HE	106	48	ES		21 1	47.45	-.010							1.0
MESJ	HE	106	48	IAML		21 1	48.68			2	0.1				

July 2 2019 Hour: 8: 0 15.4 Lat: 11.51S Lon: 166.38E Depth: 54F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.0 secs

SANTA CRUZ ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ17068	350	EPK	Pdf		819	59.190	.050							1.0
MESJ	HZ17068	350	IAMs	_20		928	57.63			961	20.9				
MORF	BZ17134	351	EPK	Pdf		820	0.00	-.050							1.0
MORF	BZ17134	351	IAMs	_20		929	3.59			867	25.0				

July 2 2019 Hour: 19:51 46.8 Lat: 43.68S Lon: 123.89E Depth: 10F Agency: IGL Distant
Rms: 0.1 secs

SOUTH OF AUSTRALIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15967	278	EPKP			2011	21.32	-.090							1.0
MORF	BZ15977	276	EPKP			2011	21.50	-.110							1.0
GGNV	BZ16081	278	EPKP			2011	21.820	.230							0.9

July 3 2019 Hour: 3:45 28.0 Lat: 22.17S Lon: 179.50W Depth: 574F Agency: IGL Distant
Rms: 0.1 secs

SOUTH OF FIJI ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17975	24	EPKPdf			4 4	23.000	.040							1.0
GGNV	BZ17975	24	EpPKPdf			4 6	37.510	.140							1.0
MESJ	HZ18100	24	EPKPdf			4 4	24.140	.020							1.0
MESJ	HZ18100	24	EPKPab			4 5	16.92	-.220							0.9
MESJ	HZ18100	24	EpPKPdf			4 6	38.750	.170							1.0
MESJ	HZ18100	24	EPP			4 9	3.60	-.180							1.0
MORF	BZ18133	26	EPKPdf			4 4	24.41	-.050							1.0
MORF	BZ18133	26	EpPKPdf			4 6	39.010	.070							1.0

July 3 2019 Hour: 13:14 20.9 Lat: 36.65N Lon: 9.75W Depth: 13F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	122	53	EP		1314	40.080	.060							1.0
MORF	HE	122	53	ES		1314	53.98	-.020							1.0
MORF	HE	122	53	IAML		1314	56.14			7	0.1				
MESJ	HZ	189	45	EP		1314	48.35	-.200							1.0
MESJ	HN	189	45	ES		1315	8.900	.150							1.0
MESJ	HN	189	45	IAML		1315	9.97			1	0.2				

July 3 2019 Hour: 20:48 34.2 Lat: 36.59N Lon: 2.96W Depth: 4F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	487	288	EP		2049	39.750	.130							1.0
MESJ	HE	487	288	ES		2050	27.18	-.170							1.0
MESJ	HN	487	288	IAML		2050	37.39			10	0.5				
MORF	HZ	513	281	EP		2049	42.870	.040							1.0
MORF	HE	513	281	ES		2050	32.890	.000							1.0
MORF	HN	513	281	IAML		2050	41.66			20	0.2				

July 3 2019 Hour: 21:55 43.0 Lat: 36.51N Lon: 2.95W Depth: 1F Agency: IGL Regional
Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	491	289	EP		2156	48.99	-.110							1.0
MORF	HZ	516	282	EP		2156	52.280	.110							1.0

July 4 2019 Hour: 1:14 11.1 Lat: 42.23N Lon: 7.99W Depth: 15F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	488	182	EP		115	15.490	.010							1.0

July 4 2019 Hour: 2:17 58.4 Lat: 28.51N Lon: 104.86E Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.0 secs

EASTERN SICHUAN, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	9904	313	EP		230	53.84	-.010							1.0
MESJ	HZ	9904	313	IAMB		230	55.39			50	1.3				
MORF	BZ	9969	313	EP		230	56.690	.010							1.0

MORF BZ 9969 313 IAmb 231 0.60 16 1.1

**July 4 2019 Hour: 4:30 44.6 Lat: 51.22N Lon: 130.51W Depth: 10F Agency: IGL Distant
Magnitudes: 6.5Ms IGL Rms: 0.1 secs**

QUEEN CHARLOTTE ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8533	43	EP		442	36.380	.130							1.0
GGNV	BN	8533	43	ES		452	23.96	-.140							1.0
GGNV	BZ	8533	43	IAMs_20		514	6.42		26738	18.5					
MESJ	HZ	8659	43	EP		442	42.680	.040							1.0
MESJ	HN	8659	43	ES		452	36.530	.070							1.0
MESJ	HZ	8659	43	IAMs_20		514	48.55		27454	20.3					
MORF	BZ	8688	44	EP		442	44.240	.080							1.0
MORF	BE	8688	44	ES		452	39.19	-.190							1.0
MORF	BZ	8688	44	IAMs_20		517	14.58		19497	18.8					

**July 4 2019 Hour: 17:33 49.7 Lat: 35.71N Lon: 117.51W Depth: 11F Agency: IGL Distant
Magnitudes: 6.6Ms IGL Rms: 0.0 secs**

SOUTHERN CALIFORNIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8975	49	EP		1746	3.050	.020							1.0
GGNV	BE	8975	49	ES		1756	11.290	.030							1.0
GGNV	BN	8975	49	IAMs_20		1815	47.27		34182	24.0					
MESJ	HZ	9099	49	EP		1746	9.060	.040							1.0
MESJ	HE	9099	49	ES		1756	22.83	-.100							1.0
MESJ	HN	9099	49	ESS		18	1	41.72	-.010						1.0
MESJ	HZ	9099	49	IAMs_20		1821	50.51		30710	18.8					
MORF	BZ	9107	50	EP		1746	9.42	-.030							1.0
MORF	BE	9107	50	ES		1756	23.800	.050							1.0
MORF	BN	9107	50	IAMs_20		1814	44.11		41463	29.0					

**July 4 2019 Hour: 22:20 43.2 Lat: 34.62N Lon: 13.32W Depth: 31F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs**

MADEIRA ISLANDS, PORTUGAL REGION Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	516	53	EP		2221	48.990	.100							1.0
MORF	HE	516	53	ES		2222	36.850	.010							1.0
MORF	HN	516	53	IAML		2222	40.04		7	0.3					
MESJ	HZ	581	51	EP		2221	56.69	-.100							1.0
MESJ	HN	581	51	ES		2222	50.50	-.020							1.0
MESJ	HN	581	51	IAML		2222	55.02		2	0.2					

**July 5 2019 Hour: 2:47 38.0 Lat: 38.36N Lon: 6.95W Depth: 22F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs**

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	125	243	EPg		247	57.920	.170							1.0
MESJ	HE	125	243	ESg		248	12.230	.040							1.0
MESJ	HN	125	243	IAML		248	14.17		39	0.1					
MORF	HZ	190	233	EP		248	4.78	-.220							1.0

**July 5 2019 Hour: 11:7 53.1 Lat: 35.76N Lon: 117.58W Depth: 7F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.0 secs**

SOUTHERN CALIFORNIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	9100	49	EP		1120	13.160	.010							1.0
MESJ	HE	9100	49	ES		1130	27.55	-.030							1.0
MESJ	HZ	9100	49	IAMs_20		1155	47.44		1586	13.8					
MORF	BZ	9108	50	EP		1120	13.56	-.030							1.0
MORF	BE	9108	50	ES		1130	28.470	.050							1.0
MORF	BE	9108	50	IAMs_20		1154	32.24		1161	20.4					

July 5 2019 Hour: 12:58 28.6 Lat: 51.34N Lon: 130.57W Depth: 5F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

QUEEN CHARLOTTE ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	8652	43	EP		1310	27.18	-.020							1.0
MESJ	HZ	8652	43	EPP		1313	22.73	-.100							1.0
MESJ	HE	8652	43	ES		1320	21.470	.200							0.9
MESJ	HZ	8652	43	IAMs_20		1342	33.12		2901	15.8					
MORF	BZ	8681	44	EPP		1313	24.95	-.120							1.0
MORF	BE	8681	44	ES		1320	24.270	.060							1.0
MORF	BE	8681	44	IAMs_20		1344	52.71		1880	17.6					

July 5 2019 Hour: 13:7 34.8 Lat: 36.51N Lon: 7.04W Depth: 19F Agency: IGL Regional
Magnitudes: 1.8ML 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
MORF	HN	169	302	ES		13	8	17.400	.000						1.0
MORF	HE	169	302	IAML		13	8	18.68		20	0.1				
MESJ	HZ	181	325	EP		13	8	0.94	-.010						1.0
MESJ	HE	181	325	ES		13	8	20.010	.010						1.0
MESJ	HN	181	325	IAML		13	8	21.53		5	0.1				

July 5 2019 Hour: 19:59 15.1 Lat: 6.05S Lon: 130.95E Depth: 115F Agency: IGL Distant
Rms: 0.2 secs

BANDA SEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	14614	316	EPKpdf		2018	13.290	.010							1.0
MESJ	HZ	14614	316	ESKPab		2021	27.87	-.010							1.0
MORF	BZ	14677	316	EPKpdf		2018	14.650	.250							1.0
MORF	BZ	14677	316	ESKPab		2021	30.15	-.250							1.0

July 5 2019 Hour: 23:8 21.7 Lat: 39.27N Lon: 10.90W Depth: 29F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.2 secs

NORTH ATLANTIC OCEAN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	282	123	EP		23	8	59.830	.210						1.0
MESJ	HN	282	123	ES		23	9	27.420	.080						1.0
MESJ	HN	282	123	IAML		23	9	31.39		22	0.2				
MORF	HZ	294	137	EP		23	9	0.82	-.240						1.0
MORF	HN	294	137	ES		23	9	29.76	-.060						1.0
MORF	HN	294	137	IAML		23	9	31.61		46	0.2				

July 6 2019 Hour: 3:19 56.3 Lat: 35.77N Lon: 117.60W Depth: 17F Agency: IGL Distant
Magnitudes: 7.5Ms IGL Rms: 0.1 secs

SOUTHERN CALIFORNIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8976	49	EP		332	8.71	-.010							1.0
GGNV	BN	8976	49	ES		342	16.410	.090							1.0
GGNV	BN	8976	49	IAMs_20		359	35.04		278000	29.5					
MESJ	HZ	9101	49	EP		332	14.51	-.190							1.0
MESJ	HN	9101	49	ES		342	27.95	-.040							1.0
MESJ	HZ	9101	49	IAMs_20		4	7	54.58	210000	19.3					
MORF	BZ	9109	50	EP		332	15.13	-.010							1.0
MORF	BE	9109	50	ES		342	28.990	.160							1.0
MORF	BN	9109	50	IAMs_20		4	0	50.23	248000	24.3					

July 6 2019 Hour: 9:44 29.8 Lat: 6.26S Lon: 154.72E Depth: 43F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.1 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	16090	338	EPKP		10	3	59.18	-.830						1.0
MESJ	HZ	16135	336	EPKP		10	4	0.48	-.930						1.0
MESJ	HZ	16135	336	IAMs_20		11	7	29.78		802	23.3				

MORF BZ16206 336 EPKP 10 4 2.04-.690 1.0
MORF BZ16206 336 IAMs_20 1112 18.65 1183 31.0

July 6 2019 Hour: 10:58 5.4 Lat: 36.57N Lon: 9.81W Depth: 22F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	131	51	EP		1058	25.130	0.030							1.0
MORF	HN	131	51	ES		1058	39.28-	.220							1.0
MORF	HN	131	51	IAML		1058	42.37			23	0.1				
MESJ	HZ	199	45	EP		1058	33.580	0.060							1.0
MESJ	HE	199	45	ES		1058	54.190	.130							1.0
MESJ	HN	199	45	IAML		1058	56.62			4	0.2				

July 6 2019 Hour: 11: 8 15.5 Lat: 20.98S Lon: 169.81E Depth: 99F 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	BZ18060	357	EPKP			1128	4.750	0.020							1.0
MESJ	HZ18150	355	EPKP			1128	5.48-	.090							1.0
MORF	BZ18213	356	EPKP			1128	6.240	0.070							1.0

July 6 2019 Hour: 17:55 57.4 Lat: 37.33N Lon: 8.51W Depth: 14F 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		1756	0.46-	.040							1.0
MORF	HE	13	257	ES		1756	2.810	0.040							1.0
MORF	HE	13	257	IAML		1756	3.20			45	0.2				

July 6 2019 Hour: 22:40 5.6 Lat: 38.30N Lon: 9.46W Depth: 33F 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
MESJ	HZ	120	115	EP		2240	23.240	0.010							1.0
MESJ	HE	120	115	ES		2240	36.260	.120							1.0
MESJ	HE	120	115	IAML		2240	37.12			1	0.1				
MORF	HZ	131	147	EP		2240	24.760	.110							1.0
MORF	HN	131	147	ES		2240	38.37-	.230							1.0
MORF	HE	131	147	IAML		2240	39.72			3	0.1				

July 7 2019 Hour: 15: 8 41.9 Lat: 0.52N Lon: 126.20E Depth: 36F Agency: IGL Distant
Magnitudes: 6.9Ms IGL Rms: 0.1 secs

MOLUCCA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ13723	317	EPKp \bar{d} f			1527	34.56-	.060							1.0
MESJ	HZ13723	317	EPP			1529	15.520	.180							1.0
MESJ	HZ13723	317	IAMs_20			1623	57.79			22326	21.1				
GGNV	BZ13740	319	EPKp \bar{d} f			1527	34.86-	.030							1.0
GGNV	BZ13740	319	EPP			1529	16.430	0.070							1.0
GGNV	BE13740	319	IAMs_20			1619	31.71			38417	28.0				
MORF	BZ13786	317	EPKp \bar{d} f			1527	35.61-	.150							1.0
MORF	BZ13786	317	EPP			1529	19.23-	.010							1.0
MORF	BE13786	317	IAMs_20			1624	56.56			39319	24.3				

July 7 2019 Hour: 17:53 40.3 Lat: 36.82N Lon: 9.65W 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	104	58	EP		1753	56.610	0.040							1.0
MORF	HE	104	58	ES		1754	8.450	0.010							1.0
MORF	HN	104	58	IAML		1754	9.55			10	0.2				
MESJ	HZ	170	48	EP		1754	4.67-	.100							1.0
MESJ	HE	170	48	ES		1754	22.690	0.060							1.0

MESJ HE 170 48 IAML 1754 24.90 1 0.1

**July 7 2019 Hour: 20: 0 56.0 Lat: 36.82N Lon: 8.54W Depth: 19F 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	55	349	EP		20	1	4.95	-.170						1.0
MORF	HN	55	349	ES		20	1	11.68	-.110						1.0
MORF	HE	55	349	IAML		20	1	12.97		16	0.1				
MESJ	HZ	117	14	EP		20	1	14.250	.140						1.0
MESJ	HN	117	14	ES		20	1	27.480	.150						1.0
MESJ	HN	117	14	IAML		20	1	29.31		2	0.1				

**July 7 2019 Hour: 23: 4 22.8 Lat: 36.98N Lon: 13.62W Depth: 31F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	443	84	EP		23	5	19.620	.040						1.0
MORF	HN	443	84	ES		23	6	0.94	-.120						1.0
MORF	HN	443	84	IAML		23	6	3.55		6	0.2				
MESJ	HZ	487	77	EP		23	5	25.110	.150						1.0
MESJ	HN	487	77	ES		23	6	10.31	-.060						1.0
MESJ	HN	487	77	IAML		23	6	13.79		2	0.2				

**July 8 2019 Hour: 0: 8 59.8 Lat: 10.89N Lon: 85.61W Depth: 62F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.1 secs**

COSTA RICA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8141	54	EP		020	24.180	.120							1.0
MORF	BZ	8141	54	IAmb		020	25.44			29	0.7				
MESJ	HZ	8178	54	EP		020	25.85	-.120							1.0
MESJ	HZ	8178	54	IAmb		020	27.37			26	1.1				

**July 8 2019 Hour: 7: 0 29.7 Lat: 31.77N Lon: 49.54E Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Mb IGL Rms: 0.0 secs**

WESTERN IRAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	5246	294	EP		7	9	2.390	.020						1.0
MESJ	HZ	5246	294	IAmb		7	9	25.40		418	2.4				
MESJ	HN	5246	294	ES		715	55.920	.040							1.0
MORF	BZ	5295	293	EP		7	9	5.81	-.050						1.0
MORF	BZ	5295	293	IAmb		7	9	25.06		407	2.7				
MORF	BN	5295	293	ES		716	2.22	-.030							1.0
GGNV	BZ	5308	295	EP		7	9	6.700	.030						1.0
GGNV	BZ	5308	295	IAmb		7	9	43.03		235	1.4				
GGNV	BN	5308	295	ES		716	3.74	-.000							1.0

**July 8 2019 Hour: 16:26 13.7 Lat: 37.33N Lon: 8.68W Depth: 11F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.0 secs**

W MONCHIQUÉ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	4	140	EP		1626	15.63	-.040							1.0
MORF	HE	4	140	ES		1626	17.190	.090							1.0
MORF	HE	4	140	IAML		1626	17.52			217	0.1				
MESJ	HZ	70	36	EP		1626	24.96	-.040							1.0
MESJ	HN	70	36	ES		1626	33.22	-.010							1.0
MESJ	HN	70	36	IAML		1626	35.86			17	0.2				

July 8 2019 Hour: 18:52 33.5 Lat: 0.49N Lon: 126.30E Depth: 28F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.0 secs
MOLUCCA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	13733	317	EPP		1913	8.670	.030							1.0
MESJ	HZ	13733	317	IAMs_20		2010	21.69			1111	20.7				
MORF	BZ	13796	317	EPP		1913	12.51	-.030							1.0
MORF	BZ	13796	317	IAMs_20		2010	54.04			1743	24.0				

July 8 2019 Hour: 19:1 14.3 Lat: 35.88N Lon: 5.04W Depth: 19F 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	357	308	EP		19 2	2.21	-.080							1.0
MESJ	HN	357	308	ES		19 2	37.390	.040							1.0
MESJ	HN	357	308	IAML		19 2	39.08			8	0.2				
MORF	HZ	360	297	EP		19 2	2.56	-.080							1.0
MORF	HE	360	297	ES		19 2	38.070	.110							1.0
MORF	HE	360	297	IAML		19 2	42.14			19	0.2				

July 8 2019 Hour: 21:45 34.0 Lat: 37.47N Lon: 7.71W Depth: 1F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs
SW MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	61	312	EP		2145	43.80	0.02							1.0
MESJ	HN	61	312	ES		2145	50.94	-0.02							1.0
MESJ	HE	61	312	IAML		2145	53.17			2	0.1				

July 8 2019 Hour: 22:16 40.5 Lat: 37.14N Lon: 7.91W Depth: 12F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
SW S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	68	286	EP		2216	51.52	-.050							1.0
MESJ	HZ	82	341	EP		2216	53.840	.170							1.0
MESJ	HE	82	341	ES		2217	3.15	-.120							1.0
MESJ	HN	82	341	IAML		2217	5.54			2	0.2				

July 8 2019 Hour: 22:23 10.9 Lat: 36.61N Lon: 7.66W Depth: 22F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	311	EP		2223	28.86	-.040							1.0
MESJ	HZ	145	340	EP		2223	32.530	.190							1.0
MESJ	HN	145	340	ES		2223	47.81	-.150							1.0
MESJ	HN	145	340	IAML		2223	49.35			0.70	0.2				

July 9 2019 Hour: 7:35 19.1 Lat: 37.32N Lon: 8.47W Depth: 8F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs
E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	264	EP		735	22.01	-.050							1.0
MORF	HE	16	264	ES		735	24.270	.040							1.0
MORF	HN	16	264	IAML		735	24.93			161	0.1				
MESJ	HZ	62	21	EP		735	29.160	.020							1.0

July 9 2019 Hour: 11:33 30.7 Lat: 47.46N Lon: 145.02E Depth: 431F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.1 secs
SEA OF OKHOTSK Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	10198	339	EP		1145	50.58	-.070							1.0
MESJ	HZ	10198	339	IAMB		1145	53.22			17	1.2				
MESJ	HZ	10198	339	EPP		1149	36.850	.070							1.0

July 9 2019 Hour: 12:37 1.3 Lat: 6.80N Lon: 125.17E Depth: 24F Agency: IGL Distant
Magnitudes: 5.2Ms IGL Rms: 0.1 secs
MINDANAO, PHILIPPINES Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ13127 319 EPP 1256 59.840.110 1.0
 MESJ HZ13127 319 IAmS_20 1350 25.54 675 22.0

July 9 2019 Hour: 18:43 42.6 Lat: 52.91N Lon: 167.46W Depth: 26F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.0 secs
FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 9758 16 EP 1856 28.95-.030 1.0
 MESJ HZ 9758 16 IAmS_20 1937 40.54 539 17.1
 MORF BZ 9807 17 EP 1856 31.190.030 1.0
 MORF BZ 9807 17 IAmS_20 1937 8.89 835 22.2

July 10 2019 Hour: 5:13 48.9 Lat: 37.01N Lon: 8.37W 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 41 323 EP 513 55.78-.120 1.0
 MORF HN 41 323 ES 514 1.060.020 1.0
 MORF HN 41 323 IAML 514 1.75 32 0.2
 MESJ HZ 93 8 EP 514 3.760.100 1.0
 MESJ HE 93 8 ES 514 14.460.010 1.0
 MESJ HN 93 8 IAML 514 15.97 7 0.2

July 10 2019 Hour: 7:44 54.0 Lat: 37.00N Lon: 5.27W Depth: 8F 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 278 291 EP 745 33.16-.010 1.0

July 10 2019 Hour: 19:7 33.1 Lat: 37.15N Lon: 8.57W Depth: 20F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs
NW PORTIMAO, PORTUGAL Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF HZ 19 337 EP 19 7 37.29-.180 1.0
 MORF HN 19 337 ES 19 7 40.750.090 1.0
 MORF HE 19 337 IAML 19 7 41.05 90 0.2
 MESJ HZ 83 22 EP 19 7 46.450.070 1.0
 MESJ HN 83 22 ES 19 7 56.100.020 1.0
 MESJ HN 83 22 IAML 19 7 57.65 6 0.2

July 10 2019 Hour: 21:43 48.4 Lat: 0.03S Lon: 16.95W Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs
NORTH OF ASCENSION ISLAND Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 4289 11 EP 2151 11.370.080 1.0
 MESJ HZ 4289 11 IAmB 2151 12.77 65 1.8
 MESJ HZ 4289 11 EPP 2152 39.280.070 1.0
 MESJ HN 4289 11 ES 2157 8.04-.150 1.0

July 11 2019 Hour: 0:50 19.7 Lat: 36.26N Lon: 7.97W Depth: 1 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 131 332 EP 050 40.850.010 1.0
 MESJ HZ 177 353 EP 050 47.02-.010 1.0

July 11 2019 Hour: 13:35 56.3 Lat: 36.67N Lon: 7.60W Depth: 27F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 141 337 EP 1336 16.910.070 1.0
 MESJ HE 141 337 ES 1336 31.76-.070 1.0
 MESJ HN 141 337 IAML 1336 34.11 5 0.2

July 11 2019 Hour: 17: 8 38.4 Lat: 4.66S Lon: 155.24E Depth:496FAgency: IGL Distant
Rms: 0.0 secs
BOUGAINVILLE REGION Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 GGNV BZ15946 339 EPKP 1727 13.41-.010 1.0
 MESJ HZ15995 338 EPKP 1727 14.92-.020 1.0
 MORF BZ16066 338 EPKP 1727 17.070.030 1.0

July 12 2019 Hour: 1:34 41.2 Lat: 14.65N Lon: 94.29W Depth: 10F Agency: IGL Distant
Magnitudes: 4.7Ms IGL Rms: 0.0 secs
OFF COAST OF CHIAPAS, MEXICO Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 8693 54 EP 146 40.62-.010 1.0
 MESJ HZ 8693 54 IAMS_20 214 9.26 314 18.1

July 12 2019 Hour: 4:50 4.3 Lat: 36.70N Lon: 7.32W Depth: 12F 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 136 300 ES 450 41.020.070 1.0
 MORF HE 136 300 IAML 450 41.89 7 0.2
 MESJ HZ 150 328 EP 450 27.09-.010 1.0
 MESJ HE 150 328 ES 450 43.70-.050 1.0
 MESJ HN 150 328 IAML 450 44.83 2 0.1

July 12 2019 Hour: 6: 0 2.2 Lat: 37.00N Lon: 5.27W 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 278 291 EP 6 0 41.49-.000 1.0

July 12 2019 Hour: 7:12 45.4 Lat: 36.83N Lon: 10.34W Depth: 26F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF HZ 159 70 EP 713 8.27-.040 1.0
 MORF HN 159 70 ES 713 25.090.090 1.0
 MORF HN 159 70 IAML 713 25.55 5 0.1
 MESJ HN 219 59 ES 713 37.72-.060 1.0
 MESJ HE 219 59 IAML 713 40.82 0.50 0.1

July 12 2019 Hour: 20:42 55.6 Lat: 9.33N Lon: 126.04E Depth: 14F Agency: IGL Distant
Magnitudes: 5.8Ms IGL Rms: 0.0 secs
MINDANAO PHILIPPINES Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ BZ12973 321 EPP 21 2 45.94-.040 1.0
 MESJ BZ12973 321 IAMS_20 2155 18.48 2005 15.9
 MORF BZ13040 320 EPP 21 2 50.270.040 1.0
 MORF BE13040 320 IAMS_20 2149 21.74 2461 25.5

July 12 2019 Hour: 21:31 4.9 Lat: 35.88N Lon: 5.20W 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
MESJ	HZ	346	310	EP		2131	51.47	-.000							1.0

July 13 2019 Hour: 0:57 44.3 Lat: 29.35N Lon: 128.15E Depth: 251F Agency: IGL Distant
Rms: 0.1 secs

NORTHWEST OF RYUKYU ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ11282	327	EPdif			111	6.92	0.040							1.0
GGNV	BZ11282	327	EPP			115	19.94	0.100							1.0
MESJ	BZ11310	326	EPdif			111	7.86	-.150							1.0
MESJ	BZ11310	326	EPP			115	21.81	0.080							1.0
MORF	BZ11380	326	EPdif			111	10.68	-.200							0.9
MORF	BZ11380	326	EPP			115	26.61	0.100							1.0

July 13 2019 Hour: 2:51 48.9 Lat: 42.92N Lon: 14.53W Depth: 43F Agency: IGL Regional
Magnitudes: 3.0ML 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	777	134	EP		253	26.30	0.150							1.0
MESJ	HN	777	134	ES		254	37.08	-.090							1.0
MESJ	HN	777	134	IAML		254	43.91			5	0.5				
MORF	HZ	799	139	EP		253	28.64	-.120							1.0
MORF	HE	799	139	ES		254	41.73	0.060							1.0
MORF	HN	799	139	IAML		254	49.37			28	0.3				

July 13 2019 Hour: 9:56 35.3 Lat: 37.21N Lon: 5.74E Depth: 10F Agency: IGL Distant
Magnitudes: 4.1Ms IGL Rms: 0.0 secs

WESTERN MEDITERRANEAN SEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	1235	277	EP		959	14.14	0.000							1.0
MESJ	HN	1235	277	IAMs_20	10	9	11.26			1321	12.1				

July 13 2019 Hour: 15: 8 42.8 Lat: 38.84N Lon: 21.23E Depth: 28F 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	2566	277	EP		1513	46.22	-.020							1.0
MESJ	BZ	2566	277	IAMB		1513	57.74			21	1.2				

July 13 2019 Hour: 16: 9 40.5 Lat: 54.24N Lon: 35.09W Depth: 10F Agency: IGL Distant
Magnitudes: 4.2Ms IGL Rms: 0.0 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2734	121	EP		1615	0.85	0.020							1.0
MESJ	BZ	2734	121	IAMs_20		1622	3.41			950	17.7				
MORF	BZ	2756	122	EP		1615	2.67	-.020							1.0
MORF	BZ	2756	122	IAMs_20		1622	16.47			658	19.0				

July 13 2019 Hour: 21:12 18.5 Lat: 38.01N Lon: 0.84W Depth: 5F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	649	271	EP		2113	43.31	-.100							1.0
MORF	HZ	693	266	EP		2113	48.95	0.100							1.0

July 14 2019 Hour: 5:39 24.4 Lat: 18.20S Lon: 120.34E Depth: 10F Agency: IGL Distant
Magnitudes: 6.5Ms IGL Rms: 0.1 secs

WESTERN AUSTRALIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14601	305	EPKp \bar{d} f			558	36.340	.010							1.0
MESJ	BZ14601	305	EPP			6 0	54.410	.220							0.9
MESJ	BN14601	305	ESS			618	27.84-	.010							1.0
MESJ	BZ14601	305	IAMs_20			710	5.86		6770	19.2					
MORF	BZ14648	304	EPKp \bar{d} f			558	37.09-	.080							1.0
MORF	BZ14648	304	EPP			6 0	57.100	.130							1.0
MORF	BN14648	304	ESS			618	32.88-	.200							1.0
MORF	BE14648	304	IAMs_20			656	21.41		16766	29.0					
GGNV	BZ14665	306	EPKp \bar{d} f			558	37.37-	.000							1.0
GGNV	BN14665	306	ESS			618	34.76-	.060							1.0
GGNV	BE14665	306	IAMs_20			655	56.34		20752	28.3					

July 14 2019 Hour: 5:48 44.8 Lat: 36.23N Lon: 6.07W Depth: 1F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	262	314	EP		549	22.63-	.020							1.0

July 14 2019 Hour: 9:10 54.4 Lat: 0.53S Lon: 128.09E Depth: 10F Agency: IGL Distant
Magnitudes: 7.2Ms IGL Rms: 0.1 secs

HALMAHERA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13950	318	EP			929	55.240	.010							1.0
MESJ	BZ13950	318	EPP			931	45.43-	.070							1.0
MESJ	BZ13950	318	IAMs_20			1038	0.23		49908	17.0					
GGNV	BZ13966	319	EP			929	55.28-	.180							1.0
GGNV	BZ13966	319	EPP			931	46.450	.050							1.0
GGNV	BE13966	319	ESS			948	46.800	.250							1.0
GGNV	BZ13966	319	IAMs_20			1033	29.28		47863	20.3					
MORF	BZ14014	318	EP			929	56.33-	.050							1.0
MORF	BE14014	318	IAMs_20			1025	53.39		48239	22.3					

July 14 2019 Hour: 13:59 5.2 Lat: 36.45N Lon: 6.08W Depth: 26F Agency: IGL Regional
Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	245	310	EP		1359	38.820	.090							1.0
MORF	HZ	248	293	EP		1359	39.10-	.090							1.0

July 15 2019 Hour: 8:21 29.4 Lat: 5.99S Lon: 149.55E Depth: 59F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15823	332	EPKp \bar{d} f			840	54.28-	.070							1.0
MESJ	BZ15851	331	EPKp \bar{d} f			840	54.78-	.050							1.0
MESJ	BZ15851	331	IAMs_20			937	11.79		4603	31.4					
MORF	BZ15922	331	EPKp \bar{d} f			840	56.120	.130							1.0
MORF	BE15922	331	IAMs_20			936	16.49		3196	23.3					

July 16 2019 Hour: 2:17 24.1 Lat: 37.17N Lon: 5.26W Depth: 1F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	287	EP		218	3.250	.010							1.0

July 16 2019 Hour: 13:31 58.1 Lat: 36.37N Lon: 8.01W Depth: 34F Agency: IGL Regional
 Magnitudes: 4.1ML IGL Rms: 0.1 secs
 STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	331	EP		1332	15.46	-.160							1.0
MORF	HE	118	331	ES		1332	28.37	-.030							1.0
MORF	HN	118	331	IAML		1332	30.97			3388	0.4				
MESJ	HZ	164	354	EP		1332	21.310	.050							1.0
MESJ	HN	164	354	ES		1332	38.170	.020							1.0
MESJ	HN	164	354	IAML		1332	39.25			1193	0.2				
GGNV	HZ	279	339	EP		1332	35.710	.180							0.9
GGNV	HE	279	339	ES		1333	2.80	-.040							0.9
GGNV	HE	279	339	IAML		1333	9.80			1074	0.5				

July 16 2019 Hour: 20:17 15.9 Lat: 36.61N Lon: 7.58W Depth: 21F Agency: IGL Regional
 Magnitudes: 0.6ML IGL Rms: 0.1 secs
 STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	148	338	EP		2017	37.64	-.060							1.0
MESJ	HE	148	338	ES		2017	53.680	.060							1.0
MESJ	HE	148	338	IAML		2017	56.83			0.70	0.2				

July 16 2019 Hour: 20:19 2.9 Lat: 33.58N Lon: 12.71W Depth: 27F Agency: IGL Regional
 Magnitudes: 2.4ML IGL Rms: 0.0 secs
 MADEIRA ISLANDS, PORTUGAL REGION Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	554	41	EP		2020	14.190	.000							1.0
MORF	HE	554	41	ES		2021	6.290	.040							1.0
MORF	HE	554	41	IAML		2021	7.97			10	0.1				
MESJ	HZ	623	39	EP		2020	22.630	.030							1.0
MESJ	HE	623	39	ES		2021	20.73	-.070							1.0
MESJ	HN	623	39	IAML		2021	24.62			3	0.1				

July 16 2019 Hour: 20:44 38.4 Lat: 36.41N Lon: 8.02W Depth: 34F Agency: IGL Regional
 Magnitudes: 1.6ML IGL Rms: 0.1 secs
 WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	331	EP		2044	55.31	-.040							1.0
MORF	HN	114	331	ES		2045	7.62	-.120							1.0
MORF	HN	114	331	IAML		2045	9.91			10	0.1				
MESJ	HZ	160	354	EP		2045	1.100	.140							1.0
MESJ	HN	160	354	ES		2045	17.470	.020							1.0
MESJ	HN	160	354	IAML		2045	18.63			7	0.1				

July 16 2019 Hour: 22: 6 4.8 Lat: 36.45N Lon: 7.99W Depth: 16F 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	112	328	EP		22 6	22.600	.120							1.0
MORF	HN	112	328	ES		22 6	35.16	-.190							1.0
MORF	HN	112	328	IAML		22 6	36.85			14	0.2				
MESJ	HZ	156	353	EP		22 6	28.090	.040							1.0
MESJ	HE	156	353	ES		22 6	45.030	.040							1.0
MESJ	HN	156	353	IAML		22 6	45.81			12	0.1				

July 17 2019 Hour: 12:47 15.7 Lat: 36.51N Lon: 8.01W Depth: 15F Agency: IGL Regional
 Magnitudes: 2.1ML IGL Rms: 0.1 secs
 WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	105	327	EP		1247	32.20	-.140							1.0
MORF	HN	105	327	ES		1247	44.510	.030							1.0
MORF	HE	105	327	IAML		1247	45.88			52	0.2				
MESJ	HZ	149	353	EP		1247	38.150	.000							1.0

MESJ HN 149 353 ES 1247 54.640.110 1.0
 MESJ HN 149 353 IAML 1247 55.43 23 0.2

**July 18 2019 Hour: 14: 2 14.2 Lat: 37.28N Lon: 9.53W Depth: 9F 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	78	88	EP		14	2	27.030.140							1.0
MESJ	HZ	131	61	EP		14	2	34.83-.160							1.0
MESJ	HN	131	61	ES		14	2	50.140.010							1.0
MESJ	HE	131	61	IAML		14	2	51.88		2	0.1				

**July 19 2019 Hour: 2:44 5.1 Lat: 36.20N Lon: 9.70W Depth: 34F Agency: IGL Regional
 Magnitudes: 2.0ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	154	37	EP		244		27.010.000							1.0
MORF	HN	154	37	ES		244		43.050.030							1.0
MORF	HE	154	37	IAML		244		44.21		23	0.1				
MESJ	HZ	225	35	EP		244		35.62-.100							1.0
MESJ	HE	225	35	ES		244		58.160.060							1.0
MESJ	HE	225	35	IAML		245		0.80		7	0.2				

**July 19 2019 Hour: 9:22 15.4 Lat: 27.71N Lon: 92.81E Depth: 17F Agency: IGL Distant
 Magnitudes: 5.3Ms IGL Rms: 0.1 secs**

ARUNACHAL PRADESH, INDIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9063	308	EP		934		31.92-.050							1.0
MESJ	BZ	9063	308	EPP		937		37.770.130							1.0
MESJ	BN	9063	308	ES		944		43.500.030							1.0
MESJ	BZ	9063	308	IAMs_20		1015		36.54		1463	21.6				
GGNV	BZ	9088	309	EP		934		33.09-.010							1.0
MORF	BZ	9125	308	EP		934		34.86-.100							1.0
MORF	BZ	9125	308	IAMs_20		1017		7.71		1267	17.5				

**July 19 2019 Hour: 11:13 15.0 Lat: 38.12N Lon: 23.52E Depth: 13F Agency: IGL Distant
 Magnitudes: 5.3Mb IGL Rms: 0.1 secs**

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2775	279	EP		1118		38.270.070							1.0
MESJ	BZ	2775	279	IAMB		1118		40.18		43	0.9				
MESJ	BE	2775	279	ES		1123		2.49-.100							1.0
MORF	BZ	2824	278	EP		1118		42.290.040							1.0
MORF	BZ	2824	278	IAMB		1118		44.78		79	1.8				
MORF	BE	2824	278	ES		1123		9.65-.020							1.0
GGNV	BZ	2839	282	EP		1118		43.35-.010							1.0
GGNV	BZ	2839	282	IAMB		1118		50.16		188	1.0				
GGNV	BN	2839	282	ES		1123		11.620.010							1.0

**July 19 2019 Hour: 15:37 16.9 Lat: 36.69N Lon: 9.36W Depth: 21F 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	93	43	EP		1537		31.830.150							1.0
MESJ	HZ	163	38	EP		1537		40.41-.160							1.0
MESJ	HE	163	38	ES		1537		57.860.010							1.0
MESJ	HE	163	38	IAML		1537		58.86		1	0.1				

July 19 2019 Hour: 22:54 24.0 Lat: 27.74N Lon: 92.81E Depth: 10F Agency: IGL Distant
Magnitudes: 5.2ML IGL Rms: 0.0 secs
ARUNACHAL PRADESH, INDIA Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ BZ 9061 308 EP 23 6 41.63-.000 1.0
 MESJ BZ 9061 308 IAMB 23 6 42.76 20 0.8

July 20 2019 Hour: 2:40 55.0 Lat: 36.55N Lon: 7.61W Depth: 20F 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 153 339 EP 241 17.51-.070 1.0
 MESJ HE 153 339 ES 241 34.110.070 1.0
 MESJ HN 153 339 IAML 241 35.34 3 0.1

July 20 2019 Hour: 3:24 57.2 Lat: 37.15N Lon: 7.46W Depth: 18F Agency: IGL Regional
Magnitudes: 3.4ML IGL Rms: 0.1 secs
SW VILA REAL DE S. ANTONIO, PORTUGAL Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 102 319 EP 325 13.23-.160 1.0
 MESJ HN 102 319 ES 325 25.10-.080 1.0
 MESJ HN 102 319 IAML 325 27.15 507 0.2
 MORF HZ 107 280 EP 325 14.430.210 1.0
 MORF HN 107 280 ES 325 26.630.020 1.0
 MORF HN 107 280 IAML 325 29.39 1112 0.1

July 20 2019 Hour: 10:14 44.8 Lat: 37.31N Lon: 8.61W Depth: 13F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.2 secs
W MONCHIQUE, PORTUGAL Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF HZ 4 261 EP 1014 46.77-.310 1.0
 MORF HN 4 261 ES 1014 48.870.140 1.0
 MORF HE 4 261 IAML 1014 49.41 72 0.1
 MESJ HZ 68 30 EP 1014 55.920.100 1.0
 MESJ HE 68 30 ES 1015 3.930.080 1.0
 MESJ HE 68 30 IAML 1015 4.66 3 0.1

July 20 2019 Hour: 12:39 2.6 Lat: 37.49N Lon: 7.64W Depth: 14F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.2 secs
W ALCOUTIM, PORTUGAL Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 64 307 EP 1239 13.220.180 1.0
 MESJ HN 64 307 ES 1239 20.42-.230 1.0
 MESJ HN 64 307 IAML 1239 22.00 11 0.2
 MORF HZ 92 257 EP 1239 17.310.050 1.0

July 20 2019 Hour: 22:35 33.0 Lat: 31.17S Lon: 178.12W Depth: 35F Agency: IGL Distant
Rms: 0.0 secs
KERMADEC ISLANDS REGION Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ BZ18834 49 EPKPdf 2255 36.00-.030 1.0

July 20 2019 Hour: 23:49 21.5 Lat: 37.49N Lon: 7.65W Depth: 13F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs
W ALCOUTIM, PORTUGAL Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 64 308 EP 2349 31.990.150 1.0
 MESJ HN 64 308 ES 2349 39.21-.150 1.0
 MESJ HN 64 308 IAML 2349 42.00 7 0.2

July 21 2019 Hour: 9:35 17.5 Lat: 37.49N Lon: 7.65W Depth: 18F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

W ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	308	EP		935	27.990	.100							1.0
MESJ	HN	64	308	ES		935	35.32	-.150							1.0
MESJ	HN	64	308	IAML		935	36.92			210	0.3				
MORF	HZ	91	257	EP		935	32.01	-.040							1.0
MORF	HN	91	257	ES		935	42.760	.080							1.0
MORF	HN	91	257	IAML		935	44.99			118	0.2				

July 21 2019 Hour: 10:51 13.9 Lat: 37.49N Lon: 7.66W Depth: 17F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

S MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	308	EP		1051	24.240	.090							1.0
MESJ	HN	63	308	ES		1051	31.48	-.160							1.0
MESJ	HN	63	308	IAML		1051	32.98			6	0.1				
MORF	HZ	90	257	EP		1051	28.370	.070							1.0

July 21 2019 Hour: 12: 8 56.5 Lat: 36.05N Lon: 10.55W Depth: 24F Agency: IGL Regional
Magnitudes: 2.9ML 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	219	50	EP		12 9	27.100	.070							1.0
MORF	HN	219	50	ES		12 9	49.310	.020							1.0
MORF	HE	219	50	IAML		12 9	51.93			165	0.2				
MESJ	HZ	287	46	EP		12 9	35.36	-.060							1.0
MESJ	HN	287	46	ES		1210	3.78	-.030							1.0
MESJ	HE	287	46	IAML		1210	7.23			23	0.1				

July 21 2019 Hour: 12:33 7.4 Lat: 37.48N Lon: 7.66W Depth: 19F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

W ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	309	EP		1233	17.930	.150							1.0
MESJ	HN	64	309	ES		1233	25.20	-.180							1.0
MESJ	HN	64	309	IAML		1233	27.13			4	0.1				
MORF	HZ	90	258	EP		1233	21.800	.030							1.0

July 21 2019 Hour: 13:28 49.0 Lat: 36.52N Lon: 7.58W Depth: 13F 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	157	339	EP		1329	12.620	.010							1.0
MESJ	HE	157	339	ES		1329	29.87	-.010							1.0
MESJ	HN	157	339	IAML		1329	32.20			1	0.1				

July 21 2019 Hour: 15:40 20.8 Lat: 37.48N Lon: 7.66W Depth: 18F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

W ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	309	EP		1540	31.280	.100							1.0
MESJ	HE	64	309	ES		1540	38.66	-.100							1.0
MESJ	HN	64	309	IAML		1540	39.81			6	0.2				

July 22 2019 Hour: 12:57 29.3 Lat: 38.78N Lon: 7.77W Depth: 15F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

SW ESTREMOZ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	112	201	EP		1257	46.980	.060							1.0
MESJ	HE	112	201	ES		1257	59.65	-.110							1.0
MESJ	HN	112	201	IAML		1258	1.00			7	0.2				

MORF HZ 181 206 EP 1257 55.880.040 1.0

**July 22 2019 Hour: 20:18 0.3 Lat: 36.48N Lon: 8.04W Depth: 14F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	107	329	EP		2018	17.210	.050							1.0
MORF	HE	107	329	ES		2018	29.33-	.130							1.0
MORF	HN	107	329	IAML		2018	31.37		10	0.2					
MESJ	HZ	152	354	EP		2018	23.350	.130							1.0
MESJ	HN	152	354	ES		2018	39.90-	.040							1.0
MESJ	HN	152	354	IAML		2018	41.16		5	0.1					

**July 22 2019 Hour: 22:38 42.6 Lat: 38.77N Lon: 7.79W Depth: 13F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs**

NE ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	110	200	EP		2238	59.970	.030							1.0
MESJ	HE	110	200	ES		2239	12.57-	.030							1.0
MESJ	HN	110	200	IAML		2239	13.96		2	0.1					

**July 23 2019 Hour: 2:49 38.0 Lat: 37.49N Lon: 7.64W Depth: 17F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs**

S MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	307	EP		249	48.590	.160							1.0
MESJ	HN	64	307	ES		249	55.85-	.220							1.0
MESJ	HN	64	307	IAML		249	57.35		7	0.1					
MORF	HZ	92	257	EP		249	52.740	.110							1.0
MORF	HN	92	257	ES		250	3.28-	.060							1.0
MORF	HE	92	257	IAML		250	4.47		5	0.1					

**July 23 2019 Hour: 3:9 3.5 Lat: 36.33N Lon: 7.58W Depth: 10F 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
MORF	HZ	144	319	EP		3 9	25.70-	.180							1.0
MESJ	HZ	177	341	EP		3 9	29.990	.110							1.0
MESJ	HN	177	341	ES		3 9	49.240	.070							1.0
MESJ	HN	177	341	IAML		3 9	51.28		1.00	0.2					

**July 23 2019 Hour: 4:59 34.3 Lat: 36.99N Lon: 8.83W Depth: 15F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.0 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	38	24	EP		459	40.84-	.050							1.0
MORF	HN	38	24	ES		459	45.730	.050							1.0
MORF	HN	38	24	IAML		459	46.56		3	0.1					

**July 23 2019 Hour: 5:1 15.6 Lat: 37.49N Lon: 7.66W Depth: 18F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

S MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	308	EP		5 1	26.010	.110							1.0
MESJ	HN	63	308	ES		5 1	33.23-	.170							1.0
MESJ	HN	63	308	IAML		5 1	34.60		5	0.1					
MORF	HZ	90	257	EP		5 1	30.100	.060							1.0

July 23 2019 Hour: 6:29 19.6 Lat: 37.49N Lon: 7.66W Depth: 18F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs
S MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	308	EP		629	29.970	.090							1.0
MESJ	HN	63	308	ES		629	37.20	-.180							1.0
MESJ	HN	63	308	IAML		629	38.69			6	0.1				
MORF	HZ	90	257	EP		629	34.030	.010							1.0
MORF	HN	90	257	ES		629	44.630	.080							1.0
MORF	HN	90	257	IAML		629	46.53			4	0.2				

July 23 2019 Hour: 11:44 57.8 Lat: 2.33S Lon: 76.32W Depth:151F Agency: IGL Distant
Magnitudes: 5.2Mb 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	8219	50	EP		1156	16.120	.010							1.0
MORF	BZ	8219	50	IAMB		1156	17.88			138	1.1				
MESJ	BZ	8272	50	EP		1156	18.81	-.010							1.0
MESJ	BZ	8272	50	IAMB		1156	19.60			25	1.1				

July 23 2019 Hour: 23: 8 53.0 Lat: 33.82S Lon: 179.51W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.1 secs
SOUTH OF KERMADEC ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	19103	62	EPKpdf		2329	1.630	.120							1.0
MORF	BZ	19103	62	EPP		2334	14.81	-.080							1.0
MESJ	BZ	19113	58	EPKpdf		2329	1.520	.020							1.0
MESJ	BZ	19113	58	EPP		2334	15.22	-.060							1.0
MESJ	BZ	19113	58	IAMS_20		2445	35.57			540	21.9				

July 24 2019 Hour: 1:34 15.8 Lat: 37.50N Lon: 7.65W Depth: 12F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs
W ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	307	EP		134	26.200	.150							1.0
MESJ	HN	63	307	ES		134	33.34	-.150							1.0
MESJ	HN	63	307	IAML		134	34.85			3	0.1				

July 24 2019 Hour: 3:44 33.6 Lat: 36.43N Lon: 8.11W Depth: 18F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	108	334	EP		344	50.54	-.170							1.0
MORF	HN	108	334	ES		345	3.17	-.060							1.0
MORF	HE	108	334	IAML		345	8.10			45	0.3				
MESJ	HZ	157	356	EP		344	56.920	.180							1.0
MESJ	HN	157	356	ES		345	13.730	.070							1.0
MESJ	HN	157	356	IAML		345	14.88			18	0.1				

July 24 2019 Hour: 5:13 19.5 Lat: 38.52N Lon: 7.82W Depth: 12F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs
SE EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	83	205	EP		513	32.830	.070							1.0
MESJ	HN	83	205	ES		513	42.480	.020							1.0
MESJ	HE	83	205	IAML		513	44.81			38	0.2				
MORF	HZ	154	209	EP		513	42.840	.040							1.0
MORF	HN	154	209	ES		513	59.69	-.140							1.0
MORF	HE	154	209	IAML		514	4.25			62	0.2				

July 24 2019 Hour: 9:18 40.9 Lat: 38.50N Lon: 7.81W Depth: 1F 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	82	206	EP		918	54.100	.050							1.0
MESJ	HN	82	206	ES		919	3.690	.030							1.0
MESJ	HE	82	206	IAML		919	6.15			3	0.0				
MORF	HE	152	209	ES		919	22.79	-.090							1.0
MORF	HE	152	209	IAML		919	23.69			4	0.3				

July 24 2019 Hour: 18:57 34.2 Lat: 9.41N Lon: 40.55W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.1 secs
CENTRAL MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4519	41	EP		19 5	14.02	-.100							1.0
MESJ	BZ	4519	41	IAMB		19 5	17.54			47	1.7				
MESJ	BE	4519	41	ES		1911	24.760	.100							1.0

July 24 2019 Hour: 20:19 11.2 Lat: 38.45N Lon: 7.94W Depth: 15F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs
SW EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	72	200	EP		2019	22.860	.080							1.0
MESJ	HN	72	200	ES		2019	31.10	-.150							1.0
MESJ	HN	72	200	IAML		2019	32.17			20	0.1				
MORF	HZ	142	206	EP		2019	32.790	.020							1.0
MORF	HE	142	206	ES		2019	48.610	.060							1.0
MORF	HN	142	206	IAML		2019	51.21			17	0.3				

July 25 2019 Hour: 3:52 54.9 Lat: 37.49N Lon: 7.66W Depth: 18F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs
S MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	308	EP		353	5.290	.080							1.0
MESJ	HN	63	308	ES		353	12.58	-.140							1.0
MESJ	HN	63	308	IAML		353	14.15			77	0.2				
MORF	HZ	90	257	EP		353	9.32	-.030							1.0
MORF	HN	90	257	ES		353	19.970	.090							1.0
MORF	HN	90	257	IAML		353	22.19			46	0.2				

July 25 2019 Hour: 13:24 32.8 Lat: 37.74N Lon: 8.94W Depth: 12F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs
SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	55	152	EP		1324	41.67	-.090							1.0
MORF	HN	55	152	ES		1324	48.390	.090							1.0
MORF	HN	55	152	IAML		1324	49.45			5	0.2				

July 25 2019 Hour: 15:16 33.6 Lat: 37.33N Lon: 8.59W Depth: 9F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs
NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	243	EP		1516	35.37	-.050							1.0
MORF	HE	6	243	ES		1516	36.810	.050							1.0
MORF	HN	6	243	IAML		1516	37.22			25	0.1				

July 26 2019 Hour: 1:57 55.5 Lat: 35.95N Lon: 4.63W Depth: 38F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	383	304	EP		158	45.55	-.060							1.0
MESJ	HE	383	304	ES		159	22.270	.060							1.0
MESJ	HN	383	304	IAML		159	24.26			2	0.1				

July 26 2019 Hour: 17: 8 59.1 Lat: 35.30N Lon: 6.28W Depth: 23F Agency: IGL Regional
Magnitudes: 2.6ML 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	308	317	EP		17 9	40.79	-.150							1.0
MORF	HN	308	317	ES		1710	11.610	.110							1.0
MORF	HN	308	317	IAML		1710	14.05			33	0.3				
MESJ	HZ	331	329	EP		17 9	43.820	.070							1.0
MESJ	HN	331	329	ES		1710	16.33	-.040							1.0
MESJ	HN	331	329	IAML		1710	18.82			18	0.2				

July 27 2019 Hour: 0:51 0.6 Lat: 37.33N Lon: 8.53W Depth: 7F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs
NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	255	EP		051	2.63	-.110							1.0
MORF	HE	11	255	ES		051	4.440	.110							1.0
MORF	HN	11	255	IAML		051	4.97			41	0.1				

July 27 2019 Hour: 1:10 37.6 Lat: 36.78N Lon: 8.31W Depth: 25F 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	66	332	EP		110	48.36	-.100							1.0
MESJ	HN	118	4	ES		111	8.450	.100							1.0
MESJ	HN	118	4	IAML		111	11.11			1	0.2				

July 27 2019 Hour: 14:35 34.3 Lat: 36.46N Lon: 8.02W 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	HE	109	329	ES		1436	4.190	.030							1.0
MORF	HE	109	329	IAML		1436	5.35			6	0.3				
MESJ	HZ	154	353	EP		1435	57.520	.130							1.0
MESJ	HE	154	353	ES		1436	14.11	-.160							1.0
MESJ	HN	154	353	IAML		1436	14.49			3	0.2				

July 28 2019 Hour: 11: 3 10.6 Lat: 38.48N Lon: 7.87W Depth: 12F Agency: IGL Regional
Magnitudes: 0.7ML 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	77	203	EP		11 3	23.160	.120							1.0
MESJ	HN	77	203	ES		11 3	31.97	-.120							1.0
MESJ	HN	77	203	IAML		11 3	32.81			3	0.1				

July 28 2019 Hour: 15:42 20.1 Lat: 36.78N Lon: 8.07W Depth: 1 Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	118	354	EP		1542	39.10	-.110							1.0
MESJ	HE	118	354	ES		1542	53.260	.110							1.0
MESJ	HN	118	354	IAML		1542	54.74			8	0.4				

July 28 2019 Hour: 16: 9 7.9 Lat: 38.10N Lon: 23.54E Depth: 9F Agency: IGL Distant
Magnitudes: 4.7Mb 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	2777	279	EP		1614	31.800	.010							1.0
MESJ	BZ	2777	279	IAMB		1614	35.36			13	0.7				

July 28 2019 Hour: 19:26 40.4 Lat: 36.70N Lon: 9.67W Depth: 21F 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	53	EP		1926	57.78	-.110							1.0
MORF	HN	113	53	ES		1927	10.670	.020							1.0
MORF	HE	113	53	IAML		1927	13.01			10	0.2				
MESJ	HN	180	45	ES		1927	25.230	.090							1.0
MESJ	HE	180	45	IAML		1927	25.99			1	0.1				

July 29 2019 Hour: 1:14 52.9 Lat: 37.01N Lon: 5.31W Depth: 0 Agency: IGL Regional
Magnitudes: 3.4ML IGL Rms: 0.1 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	291	EP		115	32.390	.080							1.0
MORF	HZ	299	277	EP		115	35.38	-.080							1.0
MORF	HN	299	277	ES		116	6.53	-.000							1.0
MORF	HN	299	277	IAML		116	26.80			176	0.3				

July 29 2019 Hour: 1:39 57.0 Lat: 36.98N Lon: 5.32W Depth: 5F Agency: IGL Regional
Magnitudes: 0.0ML IGL Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	291	EP		140	35.97	-.000							1.0

July 29 2019 Hour: 1:48 56.9 Lat: 36.99N Lon: 5.30W Depth: 10F Agency: IGL Regional
Magnitudes: 0.0ML IGL Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	275	291	EP		149	35.470	.020							1.0
MORF	HZ	300	278	EP		149	38.52	-.020							1.0

July 29 2019 Hour: 20:37 42.2 Lat: 32.84N Lon: 140.55E Depth: 53F Agency: IGL Distant
Magnitudes: 5.5Ms 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
MESJ	BZ11555	335	335	EPP		2055	56.360	.090							1.0
MESJ	BZ11555	335	335	IAMs_20		2142	6.04			1190	18.8				
MORF	BZ11625	335	335	EPP		2056	0.93	-.090							1.0
MORF	BZ11625	335	335	IAMs_20		2142	34.10			1411	20.7				

July 30 2019 Hour: 1:58 36.2 Lat: 42.22N Lon: 8.00W Depth: 20F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.0 secs
SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	487	182	EP		159	39.960	.040							1.0
MESJ	HN	487	182	ES		2 0	26.41	-.040							1.0
MESJ	HN	487	182	IAML		2 0	57.68			12	0.4				

July 31 2019 Hour: 2:21 36.3 Lat: 37.31N Lon: 8.54W Depth: 13F 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	10	266	EP		221	38.71	-.250							1.0
MORF	HE	10	266	ES		221	41.010	.070							1.0
MORF	HN	10	266	IAML		221	42.17			9	0.1				
MESJ	HZ	65	26	EP		221	46.920	.100							1.0
MESJ	HN	65	26	ES		221	54.620	.090							1.0
MESJ	HN	65	26	IAML		221	55.22			3	0.2				

July 31 2019 Hour: 4:40 3.5 Lat: 35.32N Lon: 24.97E Depth: 80F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs
CRETE, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2968	285	EP		445	35.150	.040							1.0
MESJ	BZ	2968	285	IAMB		445	38.50			39	0.5				
MESJ	BE	2968	285	ES		450	5.52	-.040							1.0

July 31 2019 Hour: 5:54 53.8 Lat: 13.27N Lon: 89.34W Depth: 73F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs
OFFSHORE EL SALVADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8262	53	EP		6	6	23.130	.070						1.0
GGNV	BE	8262	53	IAMS_20		630	31.67			7954	33.7				
MORF	BZ	8318	55	EP		6	6	26.210	.110						1.0
MORF	BE	8318	55	ES		615	57.40	-.020							1.0
MORF	BZ	8318	55	IAMS_20		630	23.10			7457	32.0				
MESJ	BZ	8351	54	EP		6	6	27.70	-.040						1.0
MESJ	BN	8351	54	ES		616	0.48	-.110							1.0
MESJ	BZ	8351	54	IAMS_20		630	49.56			5893	34.1				

July 31 2019 Hour: 15: 2 33.6 Lat: 16.16S Lon: 167.95E Depth: 179F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs
VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	17516	354	EPKPdf		1522	7.440	.030							1.0
MESJ	BZ	17600	352	EPKPdf		1522	8.36	-.020							1.0
MESJ	BZ	17600	352	EPKPab		1522	43.69	-.100							1.0
MESJ	BZ	17600	352	EPP		1526	24.270	.080							1.0
MORF	BZ	17665	353	EPKPdf		1522	9.150	.010							1.0
MORF	BZ	17665	353	EPKPab		1522	46.38	-.010							1.0
MORF	BZ	17665	353	EPP		1526	27.41	-.010							1.0

July 31 2019 Hour: 18: 6 46.0 Lat: 36.91N Lon: 11.01W Depth: 35F 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	214	77	EP		18	7	15.41	-.010						1.0
MORF	HN	214	77	ES		18	7	36.85	-.020						1.0
MORF	HN	214	77	IAML		18	7	40.32		7	0.2				
MESJ	HN	268	67	ES		18	7	48.390	.040						1.0
MESJ	HN	268	67	IAML		18	7	50.16		2	0.1				

July 31 2019 Hour: 20:36 28.1 Lat: 35.29N Lon: 3.93W Depth: 1F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs
MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	477	308	EP		2037	32.47	-.010							1.0

August 1 2019 Hour: 12:30 46.4 Lat: 37.48N Lon: 7.65W Depth: 18F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs
W ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	309	EP		1230	56.85	-.010							1.0
MESJ	HN	64	309	ES		1231	4.44	-.080							1.0
MESJ	HN	64	309	IAML		1231	5.92			6	0.2				
MORF	HZ	91	258	EP		1231	0.990	.100							1.0

August 1 2019 Hour: 18:28 5.0 Lat: 34.23S Lon: 72.30W Depth: 10F Agency: IGL Distant
Magnitudes: 7.1Ms IGL Rms: 0.1 secs

OFFSHORE O'HIGGINS, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10292		46	EP		1841	16.39	-.060							1.0
MORF	BZ10292		46	EPP		1844	57.770	.070							1.0
MORF	BE10292		46	ESKSac		1851	49.910	.020							1.0
MORF	BZ10292		46	IAMs_20		1921	49.20			71278	19.8				
MESJ	BZ10361		45	EP		1841	19.06	-.140							1.0
MESJ	BZ10361		45	EPP		1845	2.610	.150							1.0
MESJ	BE10361		45	ESKSac		1851	53.240	.030							1.0
MESJ	BZ10361		45	IAMs_20		1924	2.23			70644	18.4				
GGNV	BZ10365		44	EP		1841	19.32	-.020							1.0
GGNV	BZ10365		44	EPP		1845	2.66	-.100							1.0
GGNV	BE10365		44	ESKSac		1851	53.450	.060							1.0
GGNV	BZ10365		44	IAMs_20		1920	52.85			63683	22.4				

August 2 2019 Hour: 1:55 57.8 Lat: 36.61N Lon: 7.37W Depth: 24F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	156	331	EP		156	20.370	.040							1.0
MESJ	HE	156	331	ES		156	36.78	-.040							1.0
MESJ	HN	156	331	IAML		156	38.57			2	0.1				

August 2 2019 Hour: 5:50 55.3 Lat: 49.77S Lon: 113.83W Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

SOUTHERN EAST PACIFIC RISE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14121		73	EPP		611	58.16	-.070							1.0
MESJ	BN14121		73	ESS		629	8.110	.070							1.0
MESJ	BZ14121		73	IAMs_20		652	25.69			1603	24.3				

August 2 2019 Hour: 8:42 12.0 Lat: 36.52N Lon: 7.77W Depth: 22F 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	152	345	EP		842	34.210	.010							1.0
MESJ	HE	152	345	ES		842	50.42	-.010							1.0
MESJ	HE	152	345	IAML		842	51.85			2	0.1				

August 2 2019 Hour: 10: 8 52.8 Lat: 38.65N Lon: 8.47W Depth: 1F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

S VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	93	166	EP		10	9	7.65	-.040						1.0
MESJ	HN	93	166	ES		10	9	18.600	.010						1.0
MESJ	HN	93	166	IAML		10	9	23.36		10	0.3				
MORF	HN	150	186	ES		10	9	34.400	.030						1.0
MORF	HN	150	186	IAML		10	9	37.15		16	0.3				

August 2 2019 Hour: 12: 3 27.5 Lat: 7.27S Lon: 104.82E Depth: 53F Agency: IGL Distant
Magnitudes: 6.3Ms IGL Rms: 0.1 secs

SOUTHWEST OF SUMATRA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12533		308	EPdif		1218	2.670	.160							1.0
MESJ	BZ12533		308	EPP		1222	44.88	-.100							1.0
MESJ	BZ12533		308	IAMs_20		13	2	2.51		15433	35.8				
MORF	BZ12580		307	EPP		1222	47.97	-.060							1.0
MORF	BZ12580		307	IAMs_20		13	1	58.54		17776	39.8				

August 2 2019 Hour: 18:45 36.7 Lat: 35.84N Lon: 10.21W Depth: 14F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	214	40	EP		1846	7.38	-.040							1.0
MORF	HN	214	40	ES		1846	29.73	-.090							1.0
MORF	HN	214	40	IAML		1846	31.75			23	0.2				
MESJ	HZ	284	38	EP		1846	16.170	.080							1.0
MESJ	HE	284	38	ES		1846	44.880	.060							1.0
MESJ	HN	284	38	IAML		1846	46.71			6	0.3				

August 3 2019 Hour: 3:46 13.6 Lat: 36.77N Lon: 9.72W Depth: 32F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	58	EP		346	30.450	.120							1.0
MORF	HN	112	58	ES		346	42.47	-.040							1.0
MORF	HE	112	58	IAML		346	44.02			80	0.1				
MESJ	HZ	178	48	EP		346	38.45	-.080							1.0
MESJ	HN	178	48	ES		346	56.68	-.020							1.0
MESJ	HN	178	48	IAML		346	59.66			18	0.1				

August 3 2019 Hour: 6:47 26.8 Lat: 37.30N Lon: 8.56W Depth: 8F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

S MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	273	EP		647	28.61	-.130							1.0
MORF	HN	8	273	ES		647	30.260	.130							1.0
MORF	HN	8	273	IAML		647	30.72			54	0.2				

August 3 2019 Hour: 9:51 23.7 Lat: 35.12N Lon: 27.79E Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

DODECANESE ISLANDS, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3222	286	EP		957	23.35	-.080							1.0
MESJ	BZ	3222	286	IAMB		957	25.06			11	0.4				
MESJ	BE	3222	286	ES		10	2	15.450	.070						1.0
MORF	BE	3266	285	ES		10	2	21.780	.020						1.0

August 3 2019 Hour: 18:11 27.3 Lat: 52.27N Lon: 165.70W Depth: 22F Agency: IGL Distant
Magnitudes: 4.6Ms IGL Rms: 0.0 secs

SOUTH OF ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9791	18	EP		1824	15.71	-.020							1.0
MESJ	BZ	9791	18	IAMS_20		19	9	37.26		193	15.9				

August 3 2019 Hour: 19:44 28.1 Lat: 39.92N Lon: 7.69W Depth: 17F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

E OLEIROS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HE	235	191	ES		1945	25.460	.180							1.0
MESJ	HE	235	191	IAML		1945	25.96			9	0.2				
MORF	HZ	302	196	EP		1945	9.44	-.030							1.0
MORF	HE	302	196	ES		1945	39.51	-.160							1.0
MORF	HE	302	196	IAML		1945	42.47			19	0.2				

August 4 2019 Hour: 1:5 46.7 Lat: 37.79N Lon: 8.29W Depth: 8F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW ALJUSTREL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	8	48	EP		1	5	48.47	-.100						1.0
MESJ	HE	8	48	ES		1	5	50.040	.100						1.0
MESJ	HN	8	48	IAML		1	5	50.17		110	0.1				

MORF HZ 63 211 EP 1 5 56.89-.000 1.0

August 4 2019 Hour: 10:23 3.1 Lat: 37.73N Lon: 141.54E Depth: 39F Agency: IGL Distant
Magnitudes: 6.6Ms IGL Rms: 0.1 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
GGNV	BZ11039	337	EPdif			1036	40.800	.100							1.0
GGNV	BZ11039	337	EPP			1040	43.900	.050							1.0
GGNV	BN11039	337	IAMs_20			1123	25.07		18731	17.5					
MESJ	BZ11095	336	EPdif			1036	43.040	.040							1.0
MESJ	BZ11095	336	EPP			1040	47.55	-.210							0.9
MESJ	BN11095	336	ESS			1055	7.66	-.100							1.0
MESJ	BZ11095	336	IAMs_20			1123	49.63		29944	31.6					
MORF	BZ11165	336	EPdif			1036	45.960	.130							1.0
MORF	BZ11165	336	EPP			1040	52.55	-.030							1.0
MORF	BZ11165	336	IAMs_20			1122	40.73		22232	25.3					

August 4 2019 Hour: 19:4 54.6 Lat: 36.70N Lon: 71.22E Depth:230F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

HINDU KUSH REGION, AFGHANISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ 6817	297	EP			1914	45.84	-.050							1.0
MESJ	BZ 6817	297	IAMB			1914	47.35		105	1.0					
MORF	BZ 6877	297	EP			1914	49.630	.050							1.0
MORF	BZ 6877	297	IAMB			1914	50.44		90	1.7					

August 5 2019 Hour: 0:40 45.9 Lat: 1.04N Lon: 27.88W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Ms 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 4476	24	EP			048	22.68	-.110							1.0
MORF	BZ 4476	24	EPP			049	55.110	.070							1.0
MORF	BE 4476	24	ES			054	31.010	.110							1.0
MORF	BE 4476	24	IAMs_20			057	38.39		6287	24.9					
MESJ	BZ 4547	24	EP			048	27.90	-.080							1.0
MESJ	BZ 4547	24	EPP			050	1.910	.010							1.0
MESJ	BE 4547	24	ES			054	40.24	-.030							1.0
MESJ	BZ 4547	24	IAMs_20			1 2	10.23		6258	16.9					
GGNV	BZ 4591	22	EP			048	31.16	-.020							1.0
GGNV	BZ 4591	22	EPP			050	6.300	.180							1.0
GGNV	BN 4591	22	ES			054	45.93	-.120							1.0
GGNV	BE 4591	22	IAMs_20			058	16.82		9687	26.8					

August 5 2019 Hour: 4:37 39.1 Lat: 33.92N Lon: 11.50W Depth: 39F Agency: IGL Regional
Magnitudes: 3.7ML IGL Rms: 0.1 secs

MADEIRA ISLANDS, PORTUGAL REGION Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ 456	34	EP			438	38.170	.080							1.0
MORF	HE 456	34	ES			439	21.03	-.090							1.0
MORF	HN 456	34	IAML			439	23.71		184	0.4					
MESJ	HZ 526	33	EP			438	46.720	.110							1.0
MESJ	HN 526	33	ES			439	35.75	-.110							1.0
MESJ	HE 526	33	IAML			439	40.16		38	0.4					
GGNV	HN 573	21	ES			439	45.590	.020							0.9
GGNV	HN 573	21	IAML			439	54.16		224	0.3					

August 5 2019 Hour: 9:1 8.3 Lat: 19.35S Lon: 174.88W Depth: 10F Agency: IGL Distant
Magnitudes: 5.8Ms 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	BZ17479	30	EPKpdf			921	3.560	.070							1.0
GGNV	BZ17479	30	IAMs_20			1025	32.94		2282	17.5					
MESJ	BZ17606	29	EPKpdf			921	4.91	-.040							1.0
MESJ	BZ17606	29	IAMs_20			1023	51.46		1053	20.4					

MORF BZ17631 31 EPKPdf 921 5.24-.030 1.0
MORF BZ17631 31 IAMs_20 1024 40.97 1497 31.4

**August 5 2019 Hour: 11:17 19.1 Lat: 42.67N Lon: 12.88W Depth: 29F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs**

NORTH ATLANTIC OCEAN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	667	142	EP		1118	43.97	-.080							1.0
MESJ	HN	667	142	ES		1119	45.88	-.150							1.0
MESJ	HN	667	142	IAML		1119	52.20		4	0.3					
MORF	HZ	697	147	EP		1118	47.67	0.090							1.0
MORF	HN	697	147	ES		1119	52.30	0.150							1.0
MORF	HN	697	147	IAML		1119	55.26		6	0.3					

**August 5 2019 Hour: 15:48 36.9 Lat: 36.71N Lon: 9.70W Depth: 18F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	54	EP		1548	54.81	0.020							1.0
MORF	HN	114	54	ES		1549	7.87	-.010							1.0
MORF	HE	114	54	IAML		1549	10.84		101	0.2					
MESJ	HZ	182	46	EP		1549	3.11	-.010							1.0
MESJ	HN	182	46	ES		1549	22.28	-.010							1.0
MESJ	HN	182	46	IAML		1549	25.02		21	0.1					

**August 6 2019 Hour: 22:16 49.7 Lat: 36.71N Lon: 8.13W Depth: 18F 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
MESJ	HZ	126	356	EP		2217	9.06	0.010							1.0

**August 6 2019 Hour: 22:14 14.6 Lat: 17.99S Lon: 168.63E Depth: 150F 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	BZ17723	355		EPKPdf		2233	54.19	-.040							1.0
GGNV	BZ17723	355		EPKPab		2234	32.96	0.060							1.0
GGNV	BZ17723	355		EPP		2238	14.53	0.050							1.0
MESJ	BZ17809	353		EPKPdf		2233	55.00	-.150							1.0
MESJ	BZ17809	353		EPKPab		2234	36.35	0.030							1.0
MESJ	BZ17809	353		EPP		2238	18.66	-.020							1.0
MORF	BZ17874	353		EPKPdf		2233	55.89	0.040							1.0
MORF	BZ17874	353		EPKPab		2234	38.90	-.010							1.0
MORF	BZ17874	353		EPP		2238	21.88	0.040							1.0

**August 7 2019 Hour: 5:30 35.8 Lat: 36.00N Lon: 10.71W Depth: 26F Agency: IGL Regional
Magnitudes: 2.6ML 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	234	51	EP		531	8.00	0.040							1.0
MORF	HE	234	51	ES		531	31.49	0.030							1.0
MORF	HE	234	51	IAML		531	33.07		68	0.1					
MESJ	HZ	301	47	EP		531	16.28	-.030							1.0
MESJ	HN	301	47	ES		531	45.85	-.040							1.0
MESJ	HE	301	47	IAML		531	47.76		18	0.1					

**August 7 2019 Hour: 5:32 40.2 Lat: 15.51S Lon: 167.71E Depth: 123F 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	BZ17442	354		EPKPdf		552	20.09	0.080							1.0
GGNV	BZ17442	354		EPKPab		552	50.69	0.030							1.0
MESJ	BZ17525	352		EPKPdf		552	20.87	-.130							1.0
MESJ	BZ17525	352		EPKPab		552	54.08	0.130							1.0

MORF	BZ17591	352	EPKPdf	552	21.57-	.210											0.9
MORF	BZ17591	352	EPKPab	552	56.49-	.070											1.0
MORF	BZ17591	352	EPP	556	36.800.	.150											1.0

August 7 2019 Hour: 12:54 30.4 Lat: 32.34N Lon: 7.67W Depth: 14F Agency: IGL Regional Rms: 0.0 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	558	351	EP		1255	43.35-	.010							1.0

August 7 2019 Hour: 16:27 24.6 Lat: 37.32N Lon: 8.56W Depth: 18F Agency: IGL Regional Magnitudes: 0.9ML IGL Rms: 0.2 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	258	EP		1627	27.52-	.340							1.0
MORF	HE	8	258	ES		1627	30.310.	.100							1.0
MORF	HN	8	258	IAML		1627	31.01			24	0.2				
MESJ	HZ	65	27	EP		1627	35.500.	.260							1.0
MESJ	HN	65	27	ES		1627	42.98-	.010							1.0
MESJ	HN	65	27	IAML		1627	43.35			7	0.1				

August 8 2019 Hour: 0:45 26.3 Lat: 36.55N Lon: 70.05E Depth:222F Agency: IGL Distant Magnitudes: 6.0Mb IGL Rms: 0.2 secs

HINDU KUSH REGION, AFGHANISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6731	297	EP		055	13.16-	.060							1.0
MESJ	BZ	6731	297	IAMB		055	14.78			269	0.9				
MESJ	BN	6731	297	ES		1	3	11.880.	.150						1.0
GGNV	BZ	6764	298	EP		055	15.240.	.110							1.0
GGNV	BZ	6764	298	IAMB		055	16.54			519	1.1				
GGNV	BN	6764	298	ES		1	3	15.30-	.030						1.0
MORF	BZ	6791	297	EP		055	16.58-	.330							0.9
MORF	BZ	6791	297	IAMB		055	18.14			453	1.6				
MORF	BN	6791	297	ES		1	3	18.780.	.120						1.0

August 8 2019 Hour: 3:47 38.5 Lat: 37.35N Lon: 8.49W Depth: 12F Agency: IGL Regional Magnitudes: 1.0ML 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	15	251	EP		347	41.52-	.180							1.0
MORF	HN	15	251	ES		347	44.110.	.080							1.0
MORF	HN	15	251	IAML		347	44.52			106	0.1				
MESJ	HZ	59	24	EP		347	48.400.	.220							1.0
MESJ	HE	59	24	ES		347	55.11-	.120							1.0
MESJ	HN	59	24	IAML		347	56.05			3	0.2				

August 8 2019 Hour: 3:48 13.7 Lat: 37.31N Lon: 8.56W Depth: 6F Agency: IGL Regional Magnitudes: 0.6ML IGL Rms: 0.1 secs

S MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	266	EP		348	15.33-	.080							1.0
MORF	HE	8	266	ES		348	16.810.	.160							1.0
MORF	HN	8	266	IAML		348	17.49			93	0.1				
MESJ	HE	66	27	ES		348	32.13-	.080							1.0
MESJ	HN	66	27	IAML		348	32.68			1	0.1				

August 8 2019 Hour: 4:39 23.3 Lat: 14.88S Lon: 76.03W Depth: 17F Agency: IGL Distant Magnitudes: 5.2Mb IGL Rms: 0.0 secs

NEAR COAST OF CENTRAL PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9104	48	EP		451	41.600.	.000							1.0
MORF	BZ	9104	48	IAMB		451	43.47			34	1.0				
MESJ	BZ	9164	48	EP		451	44.37-	.000							1.0
MESJ	BZ	9164	48	IAMB		451	46.46			20	1.1				

August 8 2019 Hour: 11:25 29.5 Lat: 37.92N Lon: 29.60E Depth: 8F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

WESTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3304	282	EP		1131	35.97	-.160							1.0
MESJ	BN	3304	282	ES		1136	33.590	.210							1.0
MORF	BZ	3354	281	EP		1131	40.08	-.090							1.0
MORF	BZ	3354	281	I Amb		1131	47.45			71	1.6				
MORF	BE	3354	281	ES		1136	40.54	-.010							1.0
GGNV	BZ	3365	284	EP		1131	40.84	-.060							1.0
GGNV	BZ	3365	284	I Amb		1131	53.16			104	0.9				
GGNV	BN	3365	284	ES		1136	41.960	.120							1.0

August 8 2019 Hour: 23:49 5.8 Lat: 37.56N Lon: 7.63W Depth: 2F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

SE MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	61	301	EP		2349	15.44	-.090							1.0
MESJ	HE	61	301	ES		2349	22.61	-.060							1.0
MESJ	HN	61	301	I AML		2349	24.69			10	0.2				
MORF	HE	95	253	ES		2349	32.390	.160							1.0
MORF	HE	95	253	I AML		2349	37.05			24	0.1				

August 9 2019 Hour: 2:54 37.5 Lat: 5.16S Lon: 151.20E Depth: 129F Agency: IGL Distant
Rms: 0.0 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ15928	333	EP	KPdf		313	55.580	.020							1.0

August 9 2019 Hour: 4:33 29.5 Lat: 37.33N Lon: 8.53W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	255	EP		433	31.97	-.120							1.0
MORF	HE	11	255	ES		433	34.050	.060							1.0
MORF	HN	11	255	I AML		433	34.65			42	0.2				
MESJ	HZ	63	26	EP		433	39.800	.060							1.0

August 9 2019 Hour: 7:23 51.8 Lat: 37.75N Lon: 101.50E Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

NORTHERN QINGHAI, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8979	311	EP		736	5.560	.010							1.0
MESJ	BZ	8979	311	I Amb		736	6.95			15	1.1				

August 9 2019 Hour: 11:23 50.5 Lat: 36.31N Lon: 4.60W Depth: 96F 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	364	299	EP		1124	38.130	.080							1.0
MORF	HZ	378	288	EP		1124	39.62	-.130							1.0
MORF	HE	378	288	ES		1125	15.730	.050							1.0
MORF	HE	378	288	I AML		1125	19.70			6	0.1				

August 9 2019 Hour: 18:53 55.5 Lat: 36.96N Lon: 8.85W Depth: 25F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	25	EP		1854	3.250	.100							1.0
MORF	HN	42	25	ES		1854	8.68	-.040							1.0
MORF	HE	42	25	I AML		1854	10.97			1021	0.2				
MESJ	HZ	112	30	EP		1854	12.41	-.220							1.0
MESJ	HN	112	30	ES		1854	25.270	.150							1.0

MESJ HN 112 30 IAML 1854 27.85 206 0.2

**August 9 2019 Hour: 19:48 34.7 Lat: 37.52N Lon: 8.45W Depth: 1 Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.2 secs**

SE ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	30	217	EP		1948	39.800	.260							1.0
MORF	HE	30	217	ES		1948	43.120	.050							1.0
MORF	HE	30	217	IAML		1948	44.00			24	0.1				
MESJ	HZ	41	30	EP		1948	41.20	-.100							1.0
MESJ	HE	41	30	ES		1948	45.89	-.220							1.0
MESJ	HE	41	30	IAML		1948	46.08			12	0.1				

**August 10 2019 Hour: 2:20 21.6 Lat: 37.63N Lon: 6.67W Depth: 0 Agency: IGL Regional
Magnitudes: 1.5ML 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	138	280	EP		220	43.77	-.130							1.0
MESJ	HN	138	280	ES		221	0.280	.130							1.0
MESJ	HE	138	280	IAML		221	2.34			8	0.2				

**August 10 2019 Hour: 3:41 20.9 Lat: 7.57N Lon: 37.07W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb 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	4370	37	EP		348	49.880	.010							1.0
MORF	BZ	4370	37	IAMB		348	52.60			35	1.1				
MORF	BE	4370	37	ES		354	51.680	.080							1.0
MESJ	BZ	4439	37	EP		348	54.78	-.140							1.0
MESJ	BZ	4439	37	IAMB		348	56.78			29	1.1				
MESJ	BN	4439	37	ES		355	0.730	.040							1.0

**August 10 2019 Hour: 3:44 20.8 Lat: 36.68N Lon: 7.87W 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
MESJ	HZ	132	347	EP		344	40.580	.080							1.0
MESJ	HE	132	347	ES		344	54.76	-.080							1.0
MESJ	HN	132	347	IAML		344	55.34			4	0.2				

**August 10 2019 Hour: 4:8 23.8 Lat: 42.19N Lon: 7.94W Depth: 3F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.0 secs**

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	483	183	EP		49	28.880	.050							1.0
MESJ	HN	483	183	ES		410	16.25	-.050							1.0
MESJ	HN	483	183	IAML		410	46.63			17	0.6				

**August 10 2019 Hour: 6:43 12.0 Lat: 37.16N Lon: 71.52E Depth: 106F Agency: IGL Distant
Magnitudes: 5.2Mb 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	6817	297	EP		653	16.390	.020							1.0
MESJ	BZ	6817	297	IAMB		653	17.91			26	1.0				
MESJ	BZ	6817	297	EP		653	42.25	-.020							1.0

**August 11 2019 Hour: 5:51 23.4 Lat: 37.19N Lon: 7.38W Depth: 3F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs**

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	103	314	EP		551	39.92	-.200							1.0
MESJ	HE	103	314	ES		551	52.330	.020							1.0
MESJ	HN	103	314	IAML		551	56.07			51	0.2				
MORF	HZ	114	277	EP		551	41.73	-.020							1.0

MORF HE	114	277	ES			551	55.340	.200										1.0
MORF HN	114	277	IAML			552	0.06			125	0.2							

August 11 2019 Hour: 7: 2 50.0 Lat: 34.28N Lon: 24.96E Depth: 10F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs
CRETE, GREECE Net: CSEM

STAT CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ BZ	3000	287	EP		7 8	31.81	-.020							1.0
MESJ BZ	3000	287	IAMB		7 8	38.45			13	0.8				

August 11 2019 Hour: 8:55 7.7 Lat: 34.59N Lon: 8.96W Depth: 38F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	302	5	EP		855	47.89	-.160							1.0
MESJ HZ	367	10	EP		855	55.970	.120							1.0
MESJ HN	367	10	ES		856	31.060	.050							1.0
MESJ HN	367	10	IAML		856	33.69			1	0.1				

August 12 2019 Hour: 0:30 6.1 Lat: 37.89N Lon: 7.94W Depth: 18F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 secs
SW BEJA, PORTUGAL Net: IMP

STAT CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	25	257	EP		030	11.100	.060							1.0
MESJ HN	25	257	ES		030	14.57	-.060							1.0
MESJ HN	25	257	IAML		030	14.92			3	0.1				

August 12 2019 Hour: 7:57 7.0 Lat: 35.80N Lon: 25.65E Depth: 55F Agency: IGL Distant
Magnitudes: 4.6Mb IGL Rms: 0.0 secs
CRETE, GREECE Net: CSEM

STAT CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ BZ	3014	284	EP		8 2	44.690	.030							1.0
MESJ BZ	3014	284	IAMB		8 2	45.37			15	0.9				

August 12 2019 Hour: 10:35 28.4 Lat: 44.56S Lon: 167.87E Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs
SOUTH ISLAND OF NEW ZEALAND Net: NEIC

STAT CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ19148	201	EP			11 0	52.870	.060							1.0
MORF BZ19148	201	IAMs_20			1211	28.94			924	20.4				
MESJ BZ19190	205	EPKp _{df}			1055	37.310	.040							1.0
MESJ BZ19190	205	EPP			11 0	54.51	-.110							1.0
MESJ BZ19190	205	IAMs_20			1213	30.13			854	19.9				

August 12 2019 Hour: 11:58 36.0 Lat: 35.67N Lon: 7.05W Depth: 21F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs
WEST OF GIBRALTAR Net: IMP

STAT CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	231	322	EP		1159	8.18	-.010							1.0
MORF HE	231	322	ES		1159	31.710	.010							1.0
MORF HE	231	322	IAML		1159	33.01			7	0.2				

August 12 2019 Hour: 21:37 19.7 Lat: 36.48N Lon: 7.24W Depth: 37F 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	156	306	EP		2137	41.58	-.220							1.0
MORF HN	156	306	ES		2137	58.100	.140							1.0
MORF HN	156	306	IAML		2137	58.76			9	0.1				
MESJ HZ	174	330	EP		2137	44.170	.100							1.0
MESJ HN	174	330	ES		2138	1.85	-.030							1.0
MESJ HN	174	330	IAML		2138	3.77			8	0.2				

August 12 2019 Hour: 23:53 19.0 Lat: 36.56N Lon: 9.59W Depth: 19F Agency: IGL Regional
Magnitudes: 3.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	45	EP		2353	37.400	.120							1.0
MORF	HN	117	45	ES		2353	50.650	.050							1.0
MORF	HE	117	45	IAML		2353	53.27		484	0.2					
MESJ	HZ	187	40	EP		2353	45.900	.020							1.0
MESJ	HE	187	40	ES		2354	5.37	-.110							1.0
MESJ	HN	187	40	IAML		2354	8.01		103	0.3					
GGNV	HE	243	9	ES		2354	17.29	-.090							0.9
GGNV	HE	243	9	IAML		2354	20.25		322	0.3					

August 13 2019 Hour: 0: 6 46.5 Lat: 37.28N Lon: 14.04W Depth: 30F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	518	81	EP		0 7	53.470	.170							1.0
MESJ	HN	518	81	ES		0 8	41.87	-.170							1.0
MESJ	HN	518	81	IAML		0 8	43.99		3	0.3					

August 13 2019 Hour: 19:38 25.0 Lat: 37.79N Lon: 8.89W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.2 secs

S SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	58	159	EP		1938	34.19	-.280							1.0
MORF	HN	58	159	ES		1938	41.22	-.170							1.0
MORF	HN	58	159	IAML		1938	41.66		12	0.1					
MESJ	HZ	59	84	EP		1938	34.810	.130							1.0
MESJ	HN	59	84	ES		1938	42.090	.330							1.0
MESJ	HN	59	84	IAML		1938	43.55		13	0.2					

August 14 2019 Hour: 9:58 24.6 Lat: 36.72N Lon: 11.13W Depth: 30F 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	230	73	EP		958	55.95	-.040							1.0
MORF	HN	230	73	ES		959	18.920	.010							1.0
MORF	HN	230	73	IAML		959	20.64		5	0.2					
MESJ	HN	286	63	ES		959	31.040	.030							1.0
MESJ	HN	286	63	IAML		959	32.73		2	0.2					

August 14 2019 Hour: 21:35 19.2 Lat: 20.47N Lon: 109.24W Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.0 secs

REVILLA GIGEDO ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BE	9553	52	ESKSac		2158	24.03	-.040							1.0
MORF	BZ	9553	52	IAMs_20		2228	27.94		2484	16.6					
MESJ	BZ	9565	51	EP		2147	59.870	.010							1.0
MESJ	BN	9565	51	ESKSac		2158	24.730	.040							1.0
MESJ	BZ	9565	51	IAMs_20		2226	38.53		2560	21.8					

August 15 2019 Hour: 9:52 3.5 Lat: 36.30N Lon: 9.79W Depth: 26F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	151	42	EP		952	25.370	.060							1.0
MORF	HE	151	42	ES		952	41.12	-.130							1.0
MORF	HE	151	42	IAML		952	44.49		54	0.2					
MESJ	HZ	221	39	EP		952	33.96	-.010							1.0
MESJ	HE	221	39	ES		952	56.310	.090							1.0
MESJ	HE	221	39	IAML		952	58.77		6	0.2					

August 16 2019 Hour: 2: 9 20.1 Lat: 36.46N Lon: 70.72E Depth:210F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs
HINDU KUSH REGION, AFGHANISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6789	297	EP		219	11.83	-.010							1.0
MESJ	BZ	6789	297	IAMB		219	13.27			29	1.0				

August 16 2019 Hour: 14:36 57.7 Lat: 36.07N Lon: 7.91W Depth: 20F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	152	334	EP		1437	19.99	-.170							1.0
MORF	HE	152	334	ES		1437	36.71	0.140							1.0
MORF	HN	152	334	IAML		1437	40.76			53	0.2				
MESJ	HZ	198	352	EP		1437	25.89	0.030							1.0

August 17 2019 Hour: 19: 1 17.2 Lat: 36.61N Lon: 7.23W Depth: 18F 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	162	328	EP		19	1	41.13	0.070						1.0
MESJ	HN	162	328	ES		19	1	58.41	-.070						1.0
MESJ	HN	162	328	IAML		19	2	0.08			2	0.2			

August 17 2019 Hour: 21:22 39.1 Lat: 37.34N Lon: 8.49W Depth: 5F 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	15	255	EP		2122	41.50	-.140							1.0
MORF	HE	15	255	ES		2122	43.66	0.140							1.0
MORF	HN	15	255	IAML		2122	44.24				91	0.1			

August 18 2019 Hour: 1:50 20.9 Lat: 19.70S Lon: 63.92W Depth:565F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs
CHUQUISACA, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8562	42	EP		2	1	15.93	0.010						1.0
MORF	BZ	8562	42	IAMB		2	1	17.27			48	1.1			
MESJ	BZ	8629	42	EP		2	1	19.09	-.010						1.0
MESJ	BZ	8629	42	IAMB		2	1	19.85			19	0.8			

August 18 2019 Hour: 5:47 24.0 Lat: 35.71N Lon: 4.58W Depth: 90F Agency: IGL Regional
Magnitudes: 4.7Mb IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	402	307	EP		548	16.04	0.050							1.0
MORF	HZ	406	297	EP		548	16.40	-.050							1.0

August 18 2019 Hour: 13:28 29.0 Lat: 36.76N Lon: 8.24W Depth: 26F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	71	329	EP		1328	40.61	0.060							1.0
MORF	HE	71	329	ES		1328	48.99	-.020							1.0
MORF	HE	71	329	IAML		1328	49.81				20	0.2			
MESJ	HN	120	1	ES		1328	59.98	-.050							1.0
MESJ	HN	120	1	IAML		1329	1.80				2	0.1			

August 18 2019 Hour: 21:17 10.8 Lat: 36.47N Lon: 11.31W Depth: 17F 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	254	68	EP		2117	46.26	-.000							1.0
MORF	HN	254	68	ES		2118	12.160	.040							1.0
MORF	HN	254	68	IAML		2118	15.29			9	0.1				
MESJ	HZ	314	60	EP		2117	53.51	-.100							1.0
MESJ	HE	314	60	ES		2118	24.900	.070							1.0
MESJ	HN	314	60	IAML		2118	29.29			3	0.1				

August 19 2019 Hour: 1:43 22.0 Lat: 37.31N Lon: 8.59W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	264	EP		143	23.77	-.150							1.0
MORF	HN	6	264	ES		143	25.380	.050							1.0
MORF	HN	6	264	IAML		143	25.88			69	0.1				
MESJ	HZ	67	29	EP		143	33.070	.100							1.0

August 19 2019 Hour: 21: 6 50.4 Lat: 36.69N Lon: 9.67W 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	HN	113	53	ES		21 7	21.460	.150							1.0
MORF	HE	113	53	IAML		21 7	23.60			13	0.2				
MESJ	HZ	181	45	EP		21 7	16.56	-.100							1.0
MESJ	HE	181	45	ES		21 7	35.79	-.060							1.0
MESJ	HN	181	45	IAML		21 7	38.08			2	0.1				

August 19 2019 Hour: 23:40 45.9 Lat: 37.44N Lon: 7.94W Depth: 7F Agency: IGL Regional
Magnitudes: 0.1ML 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	51	331	EP		2340	54.06	-.110							1.0
MESJ	HE	51	331	ES		2341	0.320	.110							1.0
MESJ	HE	51	331	IAML		2341	1.84			1	0.0				

August 20 2019 Hour: 9:34 54.1 Lat: 36.13N Lon: 31.13E Depth: 49F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

WESTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3483	285	EP		941	9.800	.020							1.0
MESJ	BZ	3483	285	IAMB		941	10.99			25	0.9				

August 20 2019 Hour: 13: 3 53.6 Lat: 11.34S Lon: 166.32E Depth: 45F Agency: IGL Distant
Magnitudes: 5.9Ms 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
GGNV	BZ16968	352	EPKp \bar{d} f			1323	37.16	-.000							1.0
GGNV	BZ16968	352	EPP			1327	27.580	.000							1.0
GGNV	BZ16968	352	IAMs_20			1432	25.45			3152	30.2				
MESJ	BZ17048	350	EPKp \bar{d} f			1323	38.17	-.080							1.0
MESJ	BZ17048	350	EPP			1327	31.770	.060							1.0
MESJ	BZ17048	350	IAMs_20			1432	57.75			2952	21.9				
MORF	BZ17114	351	EPKp \bar{d} f			1323	39.09	-.070							1.0
MORF	BZ17114	351	EPP			1327	35.190	.090							1.0
MORF	BZ17114	351	IAMs_20			1429	24.56			2153	28.8				

August 20 2019 Hour: 14:34 33.1 Lat: 37.50N Lon: 7.66W Depth: 16F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

S MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	62	308	EP		1434	43.280	.070							1.0
MESJ	HN	62	308	ES		1434	50.61	-.000							1.0
MESJ	HN	62	308	IAML		1434	52.54			10	0.1				
MORF	HZ	91	256	EP		1434	47.42	-.090							1.0
MORF	HN	91	256	ES		1434	58.080	.030							1.0
MORF	HN	91	256	IAML		1435	0.42			7	0.3				

August 20 2019 Hour: 17:12 59.4 Lat: 36.43N Lon: 8.11W Depth: 21F 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	334	EP		1713	16.400	.040							1.0
MORF	HE	108	334	ES		1713	28.69	-.040							1.0
MORF	HN	108	334	IAML		1713	32.20			7	0.3				

August 20 2019 Hour: 20:43 51.0 Lat: 36.23N Lon: 10.28W Depth: 25F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	188	50	ES		2044	36.84	-.070							1.0
MORF	HE	188	50	IAML		2044	39.47			5	0.2				
MESJ	HZ	256	45	EP		2044	26.050	.090							1.0
MESJ	HN	256	45	ES		2044	51.44	-.020							1.0
MESJ	HE	256	45	IAML		2044	53.68			0.60	0.1				

August 21 2019 Hour: 3:43 12.3 Lat: 36.69N Lon: 12.41W Depth: 70F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	341	77	EP		343	57.380	.130							1.0
MORF	HN	341	77	ES		344	29.91	-.130							1.0
MORF	HN	341	77	IAML		344	33.48			6	0.2				

August 21 2019 Hour: 4:1 50.0 Lat: 36.42N Lon: 7.99W Depth: 26F Agency: IGL Regional
Magnitudes: 3.1ML 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	115	329	EP		4 2	7.26	-.090							1.0
MORF	HN	115	329	ES		4 2	19.94	-.070							1.0
MORF	HE	115	329	IAML		4 2	23.35			267	0.2				
MESJ	HZ	159	353	EP		4 2	12.900	.080							1.0
MESJ	HN	159	353	ES		4 2	29.500	.030							1.0
MESJ	HN	159	353	IAML		4 2	30.17			291	0.3				
GGNV	HE	275	338	ES		4 2	54.410	.070							0.9
GGNV	HN	275	338	IAML		4 2	58.17			89	0.2				

August 21 2019 Hour: 11:10 15.4 Lat: 37.32N Lon: 8.62W Depth: 17F Agency: IGL Regional
Magnitudes: 0.9ML 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	3	239	EP		1110	18.11	-.160							1.0
MORF	HE	3	239	ES		1110	20.380	.040							1.0
MORF	HE	3	239	IAML		1110	20.59			60	0.2				
MESJ	HN	68	31	ES		1110	34.540	.120							1.0
MESJ	HE	68	31	IAML		1110	35.86			3	0.1				

August 21 2019 Hour: 21:13 36.5 Lat: 36.44N Lon: 10.78W Depth: 15F 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	213	63	EP		2114	6.91	-.040							1.0
MORF	HE	213	63	ES		2114	29.14	-.010							1.0
MORF	HN	213	63	IAML		2114	30.02		14	0.3					
MESJ	HZ	275	55	EP		2114	14.67	-.060							1.0
MESJ	HN	275	55	ES		2114	42.72	0.120							1.0
MESJ	HN	275	55	IAML		2114	43.38		2	0.1					

August 22 2019 Hour: 3:0 9.6 Lat: 36.45N Lon: 7.99W Depth: 30F 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	112	328	EP		3 0	26.33	0.05							1.0
MORF	HN	112	328	ES		3 0	38.38	-0.10							1.0
MORF	HE	112	328	IAML		3 0	40.13		23	0.3					
MESJ	HE	156	353	ES		3 0	47.90	0.05							1.0
MESJ	HN	156	353	IAML		3 0	48.93		22	0.2					

August 22 2019 Hour: 3:5 34.6 Lat: 36.47N Lon: 6.95W Depth: 41F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	178	302	EP		3 5	59.18	-.350							1.0
MORF	HE	178	302	ES		3 6	17.77	0.060							1.0
MORF	HN	178	302	IAML		3 6	20.75		56	0.2					
MESJ	HZ	189	324	EP		3 6	1.110	0.190							1.0
MESJ	HN	189	324	ES		3 6	20.230	0.110							1.0
MESJ	HE	189	324	IAML		3 6	21.77		46	0.3					

August 22 2019 Hour: 3:23 14.5 Lat: 37.11N Lon: 8.53W Depth: 15F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SE PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	24	333	EP		323	19.04	-.060							1.0
MORF	HN	24	333	ES		323	22.510	0.060							1.0
MORF	HN	24	333	IAML		323	22.90		5	0.2					

August 22 2019 Hour: 4:50 23.9 Lat: 36.58N Lon: 7.56W Depth: 19F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	126	310	EP		450	43.340	0.080							1.0
MORF	HE	126	310	ES		450	57.17	-.200							1.0
MORF	HN	126	310	IAML		450	58.71		12	0.2					
MESJ	HZ	152	337	EP		450	46.490	0.120							1.0

August 22 2019 Hour: 6:13 44.6 Lat: 37.03N Lon: 13.58W Depth: 19F Agency: IGL Regional
Magnitudes: 2.9ML 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
GGNV	HZ	432	63	EP		614	41.890	0.030							1.0
GGNV	HE	432	63	ES		615	23.910	0.260							1.0
GGNV	HE	432	63	IAML		615	25.49		95	0.2					
MORF	HZ	439	85	EP		614	42.56	-.110							1.0
MORF	HE	439	85	ES		615	24.91	-.130							1.0
MORF	HN	439	85	IAML		615	30.60		21	0.1					
MESJ	HZ	483	78	EP		614	47.97	-.010							1.0
MESJ	HN	483	78	ES		615	34.18	-.050							1.0
MESJ	HN	483	78	IAML		615	38.34		6	0.2					

August 22 2019 Hour: 11: 2 39.9 Lat: 17.61N Lon: 145.49E Depth:512F Agency: IGL Distant
Rms: 0.0 secs

ALAMAGAN REGION, NORTHERN MARIANA ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13305	336	EP	KPdf		1120	31.000	.000							1.0
MORF	BZ13376	336	EP	KPdf		1120	32.26	-.000							1.0

August 22 2019 Hour: 15:27 7.9 Lat: 36.96N Lon: 3.96W Depth: 48F Agency: IGL Regional
Magnitudes: 1.8ML 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	390	286	EP		1527	58.44	-.160							1.0
MESJ	HE	390	286	ES		1528	35.770	.160							1.0
MESJ	HN	390	286	IAML		1528	37.81			3	0.2				

August 22 2019 Hour: 19:20 41.2 Lat: 36.62N Lon: 7.25W Depth: 18F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	146	302	ES		1921	19.080	.000							1.0
MORF	HE	146	302	IAML		1921	19.79			5	0.2				
MESJ	HZ	160	328	EP		1921	4.79	-.030							1.0
MESJ	HE	160	328	ES		1921	22.100	.030							1.0
MESJ	HE	160	328	IAML		1921	24.37			1	0.2				

August 22 2019 Hour: 19:27 11.8 Lat: 14.67S Lon: 177.43W Depth: 10F Agency: IGL Distant
Magnitudes: 6.6Ms IGL 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	BZ17253	21	EP	KPdf		1947	4.380	.060							1.0
MESJ	BZ17253	21	IAMs	20		2051	6.79			8963	21.1				
MORF	BZ17289	22	EP	KPdf		1947	4.77	-.060							1.0
MORF	BZ17289	22	IAMs	20		2049	8.18			5882	14.4				

August 22 2019 Hour: 22:54 26.1 Lat: 12.58S Lon: 167.05E Depth:213F Agency: IGL Distant
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
GGNV	BZ17113	353	EP	KPdf		2313	51.060	.080							1.0
GGNV	BZ17113	353	EP	KPbc		2314	0.19	-.100							1.0
GGNV	BZ17113	353	EP	KPab		2314	13.54	-.080							1.0
MESJ	BZ17196	351	EP	KPdf		2313	52.230	.180							0.9
MESJ	BZ17196	351	EP	KPbc		2314	1.960	.010							1.0
MESJ	BZ17196	351	EP	KPab		2314	16.81	-.020							1.0
MORF	BZ17261	352	EP	KPdf		2313	52.980	.070							1.0
MORF	BZ17261	352	EP	KPbc		2314	3.23	-.020							1.0
MORF	BZ17261	352	EP	KPab		2314	19.31	-.100							1.0

August 22 2019 Hour: 23:48 1.4 Lat: 36.67N Lon: 9.78W Depth: 17F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	55	EP		2348	20.37	-.070							1.0
MORF	HE	123	55	ES		2348	34.500	.150							1.0
MORF	HE	123	55	IAML		2348	36.88			79	0.1				
MESJ	HZ	190	46	EP		2348	28.69	-.060							1.0
MESJ	HE	190	46	ES		2348	48.71	-.020							1.0
MESJ	HN	190	46	IAML		2348	52.60			19	0.2				

August 23 2019 Hour: 7:26 56.0 Lat: 38.47N Lon: 8.82W Depth: 16F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.1 secs

SE SETUBAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	40	314	EP		727	2.65	-.080							1.0
GGNV	HN	40	314	ES		727	7.62	-.060							1.0
GGNV	HE	40	314	IAML		727	9.48		1863	0.1					
MESJ	HZ	88	143	EP		727	9.990	.070							1.0
MESJ	HE	88	143	ES		727	20.370	.260							1.0
MESJ	HN	88	143	IAML		727	22.02		206	0.2					
MORF	HZ	130	173	EP		727	15.96	-.090							1.0
MORF	HE	130	173	ES		727	30.62	-.090							1.0
MORF	HN	130	173	IAML		727	34.10		436	0.2					

August 23 2019 Hour: 7:31 28.8 Lat: 38.47N Lon: 8.85W Depth: 5F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

SE SETUBAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	89	142	EP		731	43.230	.030							1.0
MESJ	HE	89	142	ES		731	53.62	-.090							1.0
MESJ	HE	89	142	IAML		731	55.25		3	0.1					
MORF	HZ	131	172	EP		731	49.820	.160							1.0
MORF	HE	131	172	ES		732	4.79	-.090							1.0
MORF	HN	131	172	IAML		732	7.12		11	0.2					

August 24 2019 Hour: 15:51 27.7 Lat: 14.32S Lon: 167.17E Depth:115FAgency: 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	BZ17305	353	EPKPab			1611	33.83	-.020							1.0
MESJ	BZ17387	351	EPKPdf			1611	8.030	.130							1.0
MESJ	BZ17387	351	EPKPab			1611	37.090	.010							1.0
MORF	BZ17453	352	EPKPab			1611	39.56	-.120							1.0

August 24 2019 Hour: 21:21 28.5 Lat: 20.25S Lon: 175.61W Depth:212FAgency: IGL Distant
Rms: 0.0 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17730	29	EPKP			2141	0.63	-.050							1.0
MORF	BZ17755	31	EPKP			2141	1.050	.050							1.0

August 25 2019 Hour: 1: 9 41.2 Lat: 37.02N Lon: 5.29W Depth: 7F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	275	290	EP		110	20.080	.020							1.0
MORF	HZ	300	277	EP		110	23.23	-.020							1.0

August 25 2019 Hour: 4:42 36.0 Lat: 35.97N Lon: 10.64W Depth: 29F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	231	50	EP		443	7.890	.210							1.0
MORF	HN	231	50	ES		443	30.69	-.090							1.0
MORF	HN	231	50	IAML		443	34.36		32	0.2					
MESJ	HZ	299	45	EP		443	16.01	-.070							1.0
MESJ	HE	299	45	ES		443	45.26	-.060							1.0
MESJ	HE	299	45	IAML		443	47.54		4	0.2					

August 25 2019 Hour: 5:45 55.2 Lat: 22.86S Lon: 66.36W Depth:219F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

JUJUY, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8990	43	EP		557	44.56	-.000							1.0
MORF	BZ	8990	43	IAMB		557	45.55			26	1.2				
MESJ	BZ	9057	43	EP		557	47.65	0.000							1.0
MESJ	BZ	9057	43	IAMB		557	48.99			10	0.7				

August 25 2019 Hour: 17:28 51.5 Lat: 7.92S Lon: 159.34E Depth: 56F Agency: IGL Distant
Magnitudes: 5.2Ms IGL Rms: 0.0 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	16492	341	EPKiKP		1748	32.72	0.020							1.0
MESJ	BZ	16492	341	IAMS_20		19 7	52.35			349	22.5				
MORF	BZ	16562	341	EPKiKP		1748	34.04	-.020							1.0
MORF	BZ	16562	341	IAMS_20		19 8	39.44			583	20.0				

August 25 2019 Hour: 20:30 20.1 Lat: 2.74N Lon: 78.08W Depth: 70F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

NEAR WEST COAST OF COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8018	52	EP		2041	36.89	0.050							1.0
MORF	BZ	8018	52	IAMB		2041	38.43			45	1.1				
MESJ	BZ	8067	51	EP		2041	39.34	-.050							1.0
MESJ	BZ	8067	51	IAMB		2041	41.27			28	1.2				

August 26 2019 Hour: 0:15 16.9 Lat: 38.21N Lon: 8.30W Depth: 1F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	42	170	EP		015	23.62	0.020							1.0
MESJ	HN	42	170	ES		015	28.49	-.020							1.0
MESJ	HN	42	170	IAML		015	28.97			4	0.1				

August 26 2019 Hour: 2:59 21.0 Lat: 37.35N Lon: 8.91W Depth: 15F Agency: IGL Regional
Magnitudes: 1.2ML 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	23	102	EP		259	25.32	-.180							1.0
MORF	HN	23	102	ES		259	28.82	0.060							1.0
MORF	HE	23	102	IAML		259	29.50			53	0.1				
MESJ	HZ	82	48	EP		259	34.18	0.090							1.0
MESJ	HN	82	48	ES		259	43.66	0.040							1.0
MESJ	HN	82	48	IAML		259	44.58			6	0.2				

August 26 2019 Hour: 15:36 45.6 Lat: 37.79N Lon: 4.65W Depth: 12F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	314	272	EP		1537	28.96	0.040							1.0
MESJ	HE	314	272	ES		1538	0.48	-.040							1.0
MESJ	HN	314	272	IAML		1538	15.33			10	0.3				

August 27 2019 Hour: 5:39 26.9 Lat: 37.23N Lon: 9.05W Depth: 22F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs

NW VILA DO BISPO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	36	77	EP		539	33.55	0.000							1.0
MORF	HN	36	77	ES		539	38.43	-.000							1.0
MORF	HN	36	77	IAML		539	39.22			9	0.2				

August 27 2019 Hour: 12:54 46.0 Lat: 37.90N Lon: 8.80W Depth: 0 Agency: IGL Regional
Magnitudes: 1.2ML 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	52	97	EP		12 5	54.490	.170							1.0
MESJ	HN	52	97	ES		12 6	0.38	-.000							1.0
MESJ	HN	52	97	IAML		12 6	1.43			12	0.2				
MORF	HZ	67	169	EP		12 5	56.81	-.070							1.0
MORF	HE	67	169	ES		12 6	4.72	-.100							1.0
MORF	HE	67	169	IAML		12 6	6.62			11	0.1				

August 27 2019 Hour: 14:26 55.1 Lat: 36.92N Lon: 8.75W Depth: 26F 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	44	11	EP		1427	2.91	-.100							1.0
MORF	HE	44	11	ES		1427	8.800	.040							1.0
MORF	HE	44	11	IAML		1427	9.13			23	0.2				
MESJ	HZ	112	25	EP		1427	12.310	.150							1.0
MESJ	HN	112	25	ES		1427	24.50	-.090							1.0
MESJ	HN	112	25	IAML		1427	25.24			3	0.4				

August 27 2019 Hour: 15:18 32.0 Lat: 38.78N Lon: 12.13W Depth: 31F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.2 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	346	117	EP		1519	17.090	.030							1.0
MORF	HE	346	117	ES		1519	49.59	-.380							1.0
MORF	HN	346	117	IAML		1519	51.62			6	0.2				
MESJ	HZ	358	106	EP		1519	18.580	.160							1.0
MESJ	HN	358	106	ES		1519	52.500	.190							1.0
MESJ	HN	358	106	IAML		1519	55.43			2	0.2				

August 27 2019 Hour: 23:55 22.1 Lat: 60.21S Lon: 26.53W Depth: 25F Agency: IGL Distant
Magnitudes: 6.6Ms IGL Rms: 0.5 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10912	14	EP			24 8	56.970	.960							1.0
MORF	BN10912	14	ESKSac			2419	33.12	-.070							1.0
MORF	BN10912	14	IAMs_20			2444	8.93			21097	26.0				
MESJ	BZ10976	15	EP			24 8	59.56	-.120							1.0
MESJ	BN10976	15	ESKSac			2419	36.120	.090							1.0
MESJ	BZ10976	15	IAMs_20			2451	3.72			18479	15.5				
GGNV	BZ11060	14	EP			24 9	2.85	-.140							1.0
GGNV	BN11060	14	ESKSac			2419	39.03	-.690							1.0
GGNV	BN11060	14	IAMs_20			2451	19.26			26091	24.1				

August 28 2019 Hour: 2:20 2.2 Lat: 35.74N Lon: 2.41W Depth: 10F 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	568	296	EP		221	16.830	.010							1.0

August 28 2019 Hour: 11:58 17.8 Lat: 35.65N Lon: 27.56E Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

DODECANESE ISLANDS, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3186	285	EP		12 4	14.670	.010							1.0
MESJ	BZ	3186	285	IAMB		12 4	15.55			67	1.4				

August 28 2019 Hour: 14:56 29.2 Lat: 37.17N Lon: 8.58W Depth: 0 Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs
NW PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	337	EP		1456	31.900	.100							1.0
MORF	HN	16	337	ES		1456	33.62	-.100							1.0
MORF	HN	16	337	IAML		1456	34.21			64	0.1				

August 28 2019 Hour: 23:46 38.9 Lat: 41.07N Lon: 142.99E Depth: 17F Agency: IGL Distant
Magnitudes: 6.3Ms IGL Rms: 0.1 secs
HOKKAIDO, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ10740	338	EP			24	0	7.50	-.010						1.0
GGNV	BZ10740	338	EPP			24	4	2.100	.030						1.0
GGNV	BN10740	338	IAMs_20			2449	3.18			14176	23.2				
MESJ	BZ10802	337	EP			24	0	9.95	-.090						1.0
MESJ	BZ10802	337	EPP			24	4	6.590	.230						0.9
MESJ	BZ10802	337	IAMs_20			2451	50.93			5918	15.5				
MORF	BZ10871	338	EP			24	0	12.83	-.060						1.0
MORF	BZ10871	338	EPP			24	4	11.14	-.060						1.0
MORF	BE10871	338	IAMs_20			2445	2.42			9721	18.3				

August 29 2019 Hour: 15: 7 58.8 Lat: 43.57N Lon: 127.86W Depth: 5F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs
OFF COAST OF OREGON Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9014	44	EP		1520	15.060	.060							1.0
GGNV	BE	9014	44	ES		1530	25.800	.040							1.0
GGNV	BZ	9014	44	IAMs_20		1557	21.91			10331	17.0				
MESJ	BZ	9141	44	EP		1520	20.95	-.110							1.0
MESJ	BE	9141	44	ES		1530	37.57	-.030							1.0
MESJ	BZ	9141	44	IAMs_20		1555	24.35			8561	15.5				
MORF	BZ	9162	45	EP		1520	22.230	.100							1.0
MORF	BE	9162	45	ES		1530	39.60	-.070							1.0
MORF	BE	9162	45	IAMs_20		1542	20.59			12723	29.2				

August 29 2019 Hour: 17:40 54.5 Lat: 38.14N Lon: 8.70W Depth: 14F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs
E MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	54	128	EP		1741	3.29	-.010							1.0
MESJ	HN	54	128	ES		1741	9.64	-.110							1.0
MESJ	HN	54	128	IAML		1741	10.84			3	0.1				
MORF	HZ	93	177	EP		1741	9.310	.080							1.0
MORF	HE	93	177	ES		1741	20.060	.050							1.0
MORF	HN	93	177	IAML		1741	20.64			4	0.2				

August 29 2019 Hour: 19: 5 12.3 Lat: 36.03N Lon: 10.40W Depth: 30F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	211	47	EP		19	5	41.380	.040						1.0
MORF	HN	211	47	ES		19	6	2.540	.020						1.0
MORF	HN	211	47	IAML		19	6	5.04		15	0.1				
MESJ	HZ	279	43	EP		19	5	49.950	.120						1.0
MESJ	HN	279	43	ES		19	6	17.03	-.190						1.0
MESJ	HN	279	43	IAML		19	6	19.22		5	0.3				

August 30 2019 Hour: 1:56 26.2 Lat: 38.31N Lon: 9.25W Depth: 1 Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	104	120	EP		156	42.94	-.080							1.0
MORF	HZ	123	155	EP		156	46.05	-.040							1.0
MORF	HN	123	155	ES		157	0.740	.120							1.0
MORF	HN	123	155	IAML		157	2.15			11	0.2				

August 30 2019 Hour: 5:57 17.2 Lat: 23.78N Lon: 45.45W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Ms IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	3807	58	EP		6 4	3.02	-.010							1.0
MORF	BE	3807	58	ES		6 9	30.63	-.110							1.0
MORF	BZ	3807	58	IAMs_20		613	22.59			1942	19.0				
MESJ	BZ	3858	57	EP		6 4	6.900	.000							1.0
MESJ	BE	3858	57	ES		6 9	37.760	.120							1.0
MESJ	BZ	3858	57	IAMs_20		614	30.67			2271	18.7				

August 30 2019 Hour: 17:21 5.2 Lat: 37.53N Lon: 26.78E Depth: 10F Agency: IGL Distant
Magnitudes: 4.6Mb IGL Rms: 0.0 secs

DODECANESE ISLANDS, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3069	281	EP		1726	52.700	.000							1.0
MESJ	BZ	3069	281	IAMB		1726	54.19			12	1.0				

August 31 2019 Hour: 4:24 49.6 Lat: 36.70N Lon: 7.66W Depth: 23F 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
MORF	HZ	111	307	EP		425	7.070	.130							1.0
MORF	HE	111	307	ES		425	19.660	.050							1.0
MORF	HN	111	307	IAML		425	21.56			3	0.1				
MESJ	HZ	136	339	EP		425	9.84	-.170							1.0
MESJ	HE	136	339	ES		425	24.90	-.010							1.0
MESJ	HE	136	339	IAML		425	27.00			0.80	0.1				

August 31 2019 Hour: 8:55 37.8 Lat: 37.54N Lon: 6.66W Depth: 23F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	141	284	EP		855	58.81	-.110							1.0
MESJ	HN	141	284	ESg		856	16.04	-.080							1.0
MESJ	HN	141	284	IAML		856	21.15			91	0.1				
MORF	HZ	178	262	EP		856	3.52	-.010							1.0
MORF	HN	178	262	ESg		856	26.020	.210							1.0
MORF	HN	178	262	IAML		856	31.46			245	0.2				

August 31 2019 Hour: 11:36 17.7 Lat: 36.81N Lon: 9.33W Depth: 27F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	82	47	EP		1136	30.790	.000							1.0
MORF	HE	82	47	ES		1136	40.26	-.100							1.0
MORF	HN	82	47	IAML		1136	42.29			80	0.2				
MESJ	HZ	151	40	EP		1136	39.40	-.020							1.0
MESJ	HE	151	40	ES		1136	55.410	.120							1.0
MESJ	HN	151	40	IAML		1136	57.51			10	0.2				

August 31 2019 Hour: 17:14 52.3 Lat: 37.07N Lon: 13.51W Depth: 27F 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	432	85	EP		1715	48.920	.000							1.0
MESJ	HZ	476	78	EP		1715	54.250	.070							1.0
MESJ	HN	476	78	ES		1716	39.25-	.070							1.0
MESJ	HN	476	78	IAML		1716	45.84			5	0.2				

August 31 2019 Hour: 19:46 30.8 Lat: 37.03N Lon: 8.00W Depth: 13F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	66	298	EP		1946	41.480	.070							1.0
MORF	HN	66	298	ES		1946	49.09-	.070							1.0
MORF	HE	66	298	IAML		1946	50.79			15	0.1				
MESJ	HZ	92	348	EP		1946	45.410	.010							1.0

August 31 2019 Hour: 23:28 21.4 Lat: 36.11N Lon: 8.50W Depth: 32F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	133	354	EP		2328	40.53-	.230							1.0
MORF	HE	133	354	ES		2328	54.79-	.080							1.0
MORF	HE	133	354	IAML		2328	55.64			19	0.1				
MESJ	HZ	194	7	EP		2328	48.320	.100							1.0
MESJ	HN	194	7	ES		2329	7.990	.220							1.0
MESJ	HN	194	7	IAML		2329	8.84			9	0.2				