

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

September to October

2019

Instituto D. Luiz
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STATIONS USED

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

Lisboa (IGIDL)
GGNV

Latitude	38.7165N
Longitude	9.1491W
Height	77m

Marmelete (Picos)
MORF

Latitude	37.3043N
Longitude	8.6527W
Height	560m

Messejana
MESJ

Latitude	37.8395N
Longitude	8.2199W
Height	250m

September 1 2019 Hour: 8:50 35.0 Lat: 37.20N Lon: 5.25W Depth: 0 Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	286	EP		851	14.330	.080							1.0
MORF	HZ	302	273	EP		851	17.95-	-.080							1.0

September 1 2019 Hour: 15:54 21.4 Lat: 20.36S Lon: 178.59W Depth: 604F Agency: IGL Distant
Rms: 0.1 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17755	24	EPKPdf			1613	11.220	.010							1.0
GGNV	BZ17755	24	EPKPab			1613	54.190	.010							1.0
GGNV	BZ17755	24	EpPKPdf			1615	31.610	.110							1.0
GGNV	BZ17755	24	EPP			1617	38.300	.070							1.0
MESJ	BZ17880	24	EPKPdf			1613	12.48-	-.000							1.0
MESJ	BZ17880	24	EPKPab			1613	59.07-	-.070							1.0
MESJ	BZ17880	24	EpPKPdf			1615	32.850	.020							1.0
MESJ	BZ17880	24	EPP			1617	44.190	.010							1.0
MORF	BZ17913	25	EPKPdf			1613	12.85-	-.000							1.0
MORF	BZ17913	25	EPKPab			1614	0.40-	-.110							1.0
MORF	BZ17913	25	EpPKPdf			1615	33.22-	-.000							1.0
MORF	BZ17913	25	EPP			1617	45.77-	-.030							1.0

September 2 2019 Hour: 16:35 28.6 Lat: 14.03S Lon: 72.60W Depth: 80F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

CENTRAL PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8768	47	EP		1647	22.77-	-.060							1.0
MORF	BZ	8768	47	IAMB		1647	24.07			30	1.0				
MESJ	BZ	8830	47	EP		1647	25.830	.060							1.0
MESJ	BZ	8830	47	IAMB		1647	26.85			12	0.9				

September 2 2019 Hour: 21:28 57.4 Lat: 36.56N Lon: 9.80W 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	131	51	EP		2129	17.900	.040							1.0
MORF	HN	131	51	ES		2129	32.800	.040							1.0
MORF	HN	131	51	IAML		2129	35.04			11	0.2				
MESJ	HZ	200	44	EP		2129	26.310	.020							1.0
MESJ	HN	200	44	ES		2129	47.25-	-.110							1.0
MESJ	HN	200	44	IAML		2129	49.22			3	0.1				

September 2 2019 Hour: 22:45 47.6 Lat: 23.78N Lon: 45.17W Depth: 10F Agency: IGL Distant
Magnitudes: 5.8Ms IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	3779	55	EP		2252	31.310	.090							1.0
GGNV	BZ	3779	55	IAMs_20	23	2	50.38			17442	18.7				
MORF	BZ	3783	58	EP		2252	31.62-	-.010							1.0
MORF	BE	3783	58	ES		2257	57.880	.010							1.0
MORF	BZ	3783	58	IAMs_20	23	2	11.11			15047	22.3				
MESJ	BZ	3834	57	EP		2252	35.35-	-.170							1.0
MESJ	BE	3834	57	ES		2258	4.870	.070							1.0
MESJ	BZ	3834	57	IAMs_20	23	2	56.79			16885	18.6				

September 3 2019 Hour: 0:33 38.3 Lat: 37.32N Lon: 8.54W Depth: 8F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	260	EP		033	40.30	-.170							1.0
MORF	HN	10	260	ES		033	42.110	.080							1.0
MORF	HN	10	260	IAML		033	42.58			70	0.2				
MESJ	HZ	64	26	EP		033	48.870	.100							1.0

September 3 2019 Hour: 8:11 8.4 Lat: 42.25N Lon: 9.36W Depth: 17F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	499	168	EP		812	14.050	.120							1.0
MESJ	HN	499	168	ES		813	1.65	-.120							1.0
MESJ	HN	499	168	IAML		813	4.89			9	0.4				

September 3 2019 Hour: 11:39 52.5 Lat: 36.38N Lon: 7.58W Depth: 0 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	140	317	EP		1140	15.15	-.000							1.0
MESJ	HZ	172	341	EP		1140	19.330	.000							1.0

September 3 2019 Hour: 12:4 51.8 Lat: 37.04N Lon: 5.08W Depth: 19F Agency: IGL Regional
Magnitudes: 3.2ML 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	292	289	EP		12 5	31.48	-.210							1.0
MESJ	HN	292	289	ES		12 6	0.900	.110							1.0
MESJ	HN	292	289	IAML		12 6	2.63			51	0.3				
MORF	HZ	319	276	EP		12 5	35.03	-.040							1.0
MORF	HN	319	276	ES		12 6	6.780	.150							1.0
MORF	HN	319	276	IAML		12 6	26.67			163	0.3				

September 3 2019 Hour: 18:53 3.7 Lat: 37.15N Lon: 5.28W Depth: 0 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	271	287	EP		1853	42.860	.040							1.0
MORF	HZ	300	274	EP		1853	46.40	-.040							1.0

September 3 2019 Hour: 18:54 7.7 Lat: 37.17N Lon: 5.24W Depth: 1 Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	287	EP		1854	46.99	-.010							1.0

September 3 2019 Hour: 18:56 56.1 Lat: 37.18N Lon: 5.27W Depth: 1 Agency: IGL Regional
Magnitudes: 2.5ML 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	271	286	EP		1857	35.050	.000							1.0
MORF	HZ	300	274	EP		1857	38.840	.080							1.0
MORF	HN	300	274	ES		1858	9.80	-.080							1.0
MORF	HN	300	274	IAML		1858	12.32			21	0.3				

September 3 2019 Hour: 19:22 15.2 Lat: 37.20N Lon: 5.27W Depth: 4F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	270	286	EP		1922	53.85	-.030							1.0

September 3 2019 Hour: 22:45 21.3 Lat: 38.78N Lon: 7.93W Depth: 2F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

NE ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	107	194	EP		2245	38.730	.110							1.0
MESJ	HE	107	194	ES		2245	51.17	-.110							1.0
MESJ	HE	107	194	IAML		2245	52.46			0.90	0.1				

September 3 2019 Hour: 23:15 50.1 Lat: 37.15N Lon: 5.26W Depth: 2F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	287	EP		23 2	29.12	-.100							1.0
MORF	HZ	301	274	EP		23 2	32.960	.110							1.0

September 3 2019 Hour: 23:17 35.0 Lat: 40.17N Lon: 10.47W Depth: 31F Agency: IGL Regional
Magnitudes: 2.9ML 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
GGNV	HN	197	144	ES		2318	20.81	-.020							1.0
GGNV	HN	197	144	IAML		2318	23.05			115	0.1				
MESJ	HZ	324	142	EP		2318	17.200	.000							0.9
MESJ	HE	324	142	ES		2318	48.190	.150							0.9
MESJ	HE	324	142	IAML		2318	52.39			19	0.2				
MORF	HZ	355	153	EP		2318	20.96	-.160							0.9
MORF	HE	355	153	ES		2318	54.830	.010							0.9
MORF	HN	355	153	IAML		2319	1.83			83	0.2				

September 3 2019 Hour: 23:33 18.8 Lat: 37.16N Lon: 5.27W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	287	EP		2333	57.69	-.010							1.0

September 4 2019 Hour: 4:28 40.5 Lat: 37.18N Lon: 5.28W Depth: 1F 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	270	287	EP		429	19.520	.100							1.0
MORF	HZ	300	274	EP		429	23.00	-.110							1.0

September 4 2019 Hour: 11:53 38.3 Lat: 35.82N Lon: 9.88W Depth: 10F Agency: IGL Regional
Magnitudes: 1.9ML 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	198	33	EP		11 6	7.380	.000							1.0
MORF	HN	198	33	ES		11 6	28.59	-.000							1.0
MORF	HN	198	33	IAML		11 6	29.33			10	0.1				

September 4 2019 Hour: 11:36 29.0 Lat: 37.14N Lon: 5.27W Depth: 1F 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
MORF	HZ	301	274	EP		1137	11.73	-.040							1.0
MORF	HN	301	274	ES		1137	43.040	.040							1.0
MORF	HN	301	274	IAML		1137	48.41			9	0.2				

September 4 2019 Hour: 14:53.6 Lat: 37.14N Lon: 5.27W Depth: 4F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	301	274	EP		14	6	15.03							1.0

September 4 2019 Hour: 22:33 1.2 Lat: 42.22N Lon: 7.99W Depth: 18F 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	487	182	EP		2234		5.160							1.0

September 5 2019 Hour: 0:18 32.1 Lat: 38.80N Lon: 8.45W Depth: 0 Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.2 secs

N VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	108	169	EP		018		49.36							1.0
MESJ	HN	108	169	ES		019		2.27							1.0
MESJ	HN	108	169	IAML		019		3.94			29	0.2			
MORF	HZ	167	186	EPg		018		59.270							1.0
MORF	HE	167	186	ES		019		17.350							1.0
MORF	HN	167	186	IAML		019		18.97			75	0.3			

September 5 2019 Hour: 2:46 22.3 Lat: 37.45N Lon: 9.12W Depth: 29F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	111	EP		246		30.600							1.0
MORF	HN	44	111	ES		246		36.510							1.0
MORF	HE	44	111	IAML		246		37.05			63	0.1			
MESJ	HZ	90	61	EP		246		36.26							1.0
MESJ	HE	90	61	ES		246		46.750							1.0
MESJ	HN	90	61	IAML		246		50.67			4	0.1			

September 5 2019 Hour: 3:53 53.5 Lat: 37.34N Lon: 9.83W Depth: 4F Agency: IGL Regional
Magnitudes: 1.5ML 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	104	92	EP		354		10.14							1.0
MORF	HN	104	92	ES		354		22.820							1.0
MORF	HN	104	92	IAML		354		25.59			12	0.2			

September 5 2019 Hour: 9:12 19.3 Lat: 2.47S Lon: 68.48E Depth: 10F Agency: IGL Distant
Magnitudes: 4.8Ms IGL Rms: 0.1 secs

CARLSBERG RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9021	309	EP		924		34.50							1.0
MESJ	BN	9021	309	ES		934		44.950							1.0
MESJ	BZ	9021	309	IAMs_20	10	3		33.30			625	26.2			
MORF	BZ	9048	308	EP		924		36.090							1.0

September 5 2019 Hour: 11:52 6.5 Lat: 52.68N Lon: 31.82W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2332	123	EP		1156		50.000							1.0
GGNV	BZ	2332	123	IAMB		1157		12.54			888	2.0			
GGNV	BN	2332	123	ES		12	0	44.540							1.0
MESJ	BZ	2458	123	EP		1157		2.02							1.0
MESJ	BZ	2458	123	IAMB		1157		15.85			81	1.3			
MESJ	BE	2458	123	ES		12	1	6.93							1.0
MORF	BZ	2480	124	EP		1157		4.320							1.0
MORF	BZ	2480	124	IAMB		1157		16.99			112	1.3			

MORF BN 2480 124 ES 12 1 10.65-.150 1.0

September 5 2019 Hour: 15:247.5 Lat: 43.72N Lon: 127.84W Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs

OFF COAST OF OREGON Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BN	9001	44	ES		1525	11.80	-.020							1.0
GGNV	BZ	9001	44	IAMs_20		1547	44.93			3543	23.2				
MESJ	BZ	9128	44	EP		1515	8.380	.060							1.0
MESJ	BE	9128	44	ES		1525	23.800	.130							1.0
MESJ	BZ	9128	44	IAMs_20		1548	46.08			3801	18.6				
MORF	BZ	9149	45	EP		1515	9.18	-.210							1.0
MORF	BE	9149	45	ES		1525	25.800	.040							1.0
MORF	BE	9149	45	IAMs_20		1537	3.62			4739	30.6				

September 5 2019 Hour: 15:1049.6 Lat: 36.60N Lon: 9.80W Depth: 14F 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	129	52	EP		1511	9.740	.080							1.0
MORF	HE	129	52	ES		1511	24.24	-.070							1.0
MORF	HN	129	52	IAML		1511	26.46			27	0.2				
MESJ	HZ	196	45	EP		1511	18.080	.040							1.0
MESJ	HN	196	45	ES		1511	38.77	-.050							1.0
MESJ	HN	196	45	IAML		1511	41.37			5	0.2				

September 5 2019 Hour: 23:911.6 Lat: 36.27N Lon: 7.68W Depth: 13F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	144	323	EP		23 9	33.640	.010							1.0
MORF	HN	144	323	ES		23 9	49.68	-.010							1.0
MORF	HE	144	323	IAML		23 9	52.06			32	0.2				

September 6 2019 Hour: 1:398.3 Lat: 36.33N Lon: 7.71W Depth: 6F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	137	322	EP		139	30.120	.000							1.0
MORF	HN	137	322	ES		139	46.02	-.000							1.0
MORF	HE	137	322	IAML		139	47.87			8	0.3				

September 6 2019 Hour: 2:159.6 Lat: 36.30N Lon: 7.75W Depth: 7F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	138	324	EP		2 2	21.31	-.110							1.0
MORF	HN	138	324	ES		2 2	37.440	.110							1.0
MORF	HN	138	324	IAML		2 2	39.65			3	0.1				

September 6 2019 Hour: 2:24.8 Lat: 36.35N Lon: 7.80W Depth: 1 Agency: IGL Regional
Magnitudes: 0.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	130	325	EP		2 2	25.79	-.020							1.0

September 6 2019 Hour: 3:2853.5 Lat: 42.42N Lon: 6.86W Depth: 22F Agency: IGL Regional
Magnitudes: 0.0ML 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	522	193	EP		330	1.32	-.020							1.0
MORF	HZ	588	196	EP		330	9.470	.020							1.0

September 6 2019 Hour: 3:46 51.4 Lat: 35.75N Lon: 9.96W Depth: 31F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	208	34	EP		347	19.27	-.060							1.0
MORF	HE	208	34	ES		347	39.780	.050							1.0
MORF	HN	208	34	IAML		347	40.79		6	0.1					
MESJ	HZ	279	33	EP		347	27.94	-.130							1.0
MESJ	HN	279	33	ES		347	54.970	.130							1.0
MESJ	HE	279	33	IAML		347	58.50		2	0.1					

September 6 2019 Hour: 8:24 18.2 Lat: 36.26N Lon: 7.63W Depth: 6F Agency: IGL Regional
Magnitudes: 2.0ML 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	148	322	EP		824	41.15	-.260							1.0
MESJ	HZ	183	344	EP		824	46.010	.230							1.0
MESJ	HN	183	344	ES		825	5.960	.040							1.0
MESJ	HN	183	344	IAML		825	8.41		13	0.3					

September 6 2019 Hour: 15:27 57.5 Lat: 20.20S Lon: 169.07E Depth: 29F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17969	356	EPKp \bar{d} f			1547	54.73	-.030							1.0
GGNV	BZ17969	356	IAMs $\bar{2}$ 0			1657	23.57		2684	22.4					
MESJ	BZ18056	353	EPKp \bar{d} f			1547	55.45	-.150							1.0
MESJ	BZ18056	353	EPP			1552	27.550	.030							1.0
MESJ	BZ18056	353	IAMs $\bar{2}$ 0			17 3	51.04		2087	26.7					
MORF	BZ18120	354	EPKp \bar{d} f			1547	56.390	.150							1.0
MORF	BZ18120	354	EPP			1552	30.630	.000							1.0
MORF	BZ18120	354	IAMs $\bar{2}$ 0			17 1	43.70		1431	21.0					

September 6 2019 Hour: 21:15 55.4 Lat: 36.69N Lon: 11.27W Depth: 28F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	243	73	EP		2116	28.42	-.080							1.0
MORF	HN	243	73	ES		2116	52.60	-.090							1.0
MORF	HE	243	73	IAML		2116	54.30		11	0.1					
MESJ	HZ	299	64	EP		2116	35.600	.130							1.0
MESJ	HN	299	64	ES		2117	4.780	.040							1.0
MESJ	HN	299	64	IAML		2117	7.92		3	0.2					

September 6 2019 Hour: 21:25 31.5 Lat: 37.04N Lon: 9.25W Depth: 27F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	61	61	EP		2125	41.760	.030							1.0
MORF	HN	61	61	ES		2125	49.300	.110							1.0
MORF	HE	61	61	IAML		2125	51.11		63	0.1					
MESJ	HZ	127	45	EP		2125	50.06	-.270							1.0
MESJ	HE	127	45	ES		2126	4.190	.130							1.0
MESJ	HN	127	45	IAML		2126	5.28		6	0.2					

September 7 2019 Hour: 5:19 51.0 Lat: 36.61N Lon: 7.15W Depth: 16F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	154	300	ES		520	31.030	.060							1.0
MORF	HN	154	300	IAML		520	32.16		5	0.3					
MESJ	HZ	166	325	EP		520	15.33	-.210							1.0
MESJ	HE	166	325	ES		520	33.610	.160							1.0

MESJ HN 166 325 IAML 520 35.68 3 0.2

**September 7 2019 Hour: 13:15 9.8 Lat: 36.63N Lon: 11.17W Depth: 31F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	236	71	EP		1315	41.19	-.030							1.0
MORF	HE	236	71	ES		1316	4.210	.060							1.0
MORF	HN	236	71	IAML		1316	6.74		6	0.2					
MESJ	HZ	294	62	EP		1315	48.34	-.030							1.0

**September 7 2019 Hour: 20: 8 3.3 Lat: 35.76N Lon: 8.61W Depth: 31F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	171	359	EP		20 8	26.53	-.070							1.0
MORF	HN	171	359	ES		20 8	43.610	.010							1.0
MORF	HN	171	359	IAML		20 8	47.83		17	0.3					
MESJ	HZ	233	9	EP		20 8	34.450	.180							1.0
MESJ	HE	233	9	ES		20 8	56.76	-.120							1.0
MESJ	HN	233	9	IAML		20 8	58.94		6	0.1					

**September 8 2019 Hour: 13:33 13.0 Lat: 36.46N Lon: 9.69W Depth: 11F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	132	44	EP		1333	33.810	.100							1.0
MORF	HN	132	44	ES		1333	48.67	-.150							1.0
MORF	HN	132	44	IAML		1333	49.80		9	0.2					
MESJ	HZ	201	40	EP		1333	42.33	-.020							1.0
MESJ	HE	201	40	ES		1334	3.840	.080							1.0
MESJ	HE	201	40	IAML		1334	5.35		2	0.2					

**September 8 2019 Hour: 16:12 21.2 Lat: 36.68N Lon: 7.68W Depth: 21F Agency: IGL Regional
Magnitudes: 2.0ML 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	111	309	EP		1612	38.20	-.290							1.0
MESJ	HZ	137	340	EP		1612	42.020	.280							1.0
MESJ	HN	137	340	ES		1612	56.720	.010							1.0
MESJ	HN	137	340	IAML		1612	59.47		23	0.2					

**September 8 2019 Hour: 18:10 32.7 Lat: 6.54S Lon: 155.02E Depth: 372F Agency: IGL Distant
Rms: 0.1 secs**

BOUNGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16177	336	EP	KPab		1829	28.06	-.120							1.0
MORF	BZ16247	336	EP	KPab		1829	30.850	.120							1.0

**September 8 2019 Hour: 23: 2 36.9 Lat: 36.71N Lon: 7.61W Depth: 19F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	306	EP		23 2	54.60	-.090							1.0
MORF	HE	114	306	ES		23 3	7.63	-.060							1.0
MORF	HE	114	306	IAML		23 3	9.27		15	0.2					
MESJ	HZ	137	337	EP		23 2	57.590	.110							1.0
MESJ	HN	137	337	ES		23 3	12.550	.040							1.0
MESJ	HN	137	337	IAML		23 3	13.99		5	0.1					

September 9 2019 Hour: 0:38 44.2 Lat: 6.47S Lon: 30.77E Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Ms IGL Rms: 0.1 secs

LAKE TANGANYIKA REGION, TANZANIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6356	324	EP		048	31.130	.110							1.0
MESJ	BZ	6356	324	EPP		050	37.640	.090							1.0
MESJ	BE	6356	324	ES		056	26.91	-.200							1.0
MESJ	BN	6356	324	IAMs_20		113	55.18			1432	21.3				

September 9 2019 Hour: 1:38 32.2 Lat: 37.35N Lon: 8.74W Depth: 18F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	123	EP		138	35.32	-.180							1.0
MORF	HN	9	123	ES		138	37.950	.050							1.0
MORF	HN	9	123	IAML		138	38.29			26	0.3				
MESJ	HZ	71	40	EP		138	43.950	.200							1.0
MESJ	HN	71	40	ES		138	52.10	-.060							1.0
MESJ	HE	71	40	IAML		138	52.67			1	0.1				

September 9 2019 Hour: 1:47 30.3 Lat: 36.77N Lon: 7.14W Depth: 35F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	147	294	EP		147	51.27	-.050							1.0
MORF	HN	147	294	ES		148	6.54	-.150							1.0
MORF	HN	147	294	IAML		148	7.41			3	0.1				
MESJ	HZ	153	321	EP		147	52.170	.210							1.0

September 9 2019 Hour: 2:57 48.0 Lat: 39.27N Lon: 15.58E Depth: 260F Agency: IGL Distant
Magnitudes: 4.3Mb IGL Rms: 0.0 secs

SOUTHERN ITALY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2075	273	EP		3	1	47.06	-.000						1.0
MESJ	BZ	2075	273	IAMB		3	1	47.58		10	0.9				

September 9 2019 Hour: 4:30 7.9 Lat: 37.32N Lon: 8.58W Depth: 12F Agency: IGL Regional
Magnitudes: 1.2ML 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	7	255	EP		430	10.24	-.000							1.0
MORF	HE	7	255	ES		430	11.920	.000							1.0
MORF	HN	7	255	IAML		430	12.53			111	0.1				

September 9 2019 Hour: 5:29 43.3 Lat: 37.19N Lon: 5.28W 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	270	286	EP		530	21.650	.020							1.0

September 9 2019 Hour: 7:41 40.9 Lat: 35.99N Lon: 10.23W Depth: 25F 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	203	44	EP		742	9.380	.090							1.0
MORF	HN	203	44	ES		742	29.90	-.100							1.0
MORF	HN	203	44	IAML		742	31.31			5	0.2				
MESJ	HE	272	41	ES		742	44.900	.010							1.0
MESJ	HN	272	41	IAML		742	47.49			3	0.1				

September 9 2019 Hour: 21:52 33.8 Lat: 36.49N Lon: 7.77W Depth: 13F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	120	319	EP		2152	52.730	.040							1.0
MESJ	HZ	155	345	EP		2152	57.19	-.050							1.0
MESJ	HN	155	345	ES		2153	14.330	.010							1.0
MESJ	HN	155	345	IAML		2153	16.10			7	0.1				

September 10 2019 Hour: 5:39 24.6 Lat: 6.70N Lon: 126.47E Depth: 56F Agency: IGL Distant
Magnitudes: 5.1Ms 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	BZ13228	320	EP	KP _{df}		558	6.440	.010							1.0
MESJ	BZ13228	320	IAMs	20		653	59.92			525	22.6				
MORF	BZ13294	320	EP	KP _{df}		558	7.60	-.010							1.0

September 10 2019 Hour: 16:25 17.7 Lat: 36.93N Lon: 9.45W Depth: 24F 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	82	59	EP		1625	30.90	-.000							1.0
MORF	HN	82	59	ES		1625	40.47	-.050							1.0
MORF	HN	82	59	IAML		1625	41.24			35	0.2				
MESJ	HZ	149	47	EP		1625	39.28	-.110							1.0
MESJ	HE	149	47	ES		1625	55.360	.160							1.0
MESJ	HN	149	47	IAML		1625	58.11			8	0.2				

September 11 2019 Hour: 3:52 32.9 Lat: 36.51N Lon: 7.67W Depth: 20F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	124	315	EP		352	51.72	-.170							1.0
MORF	HN	124	315	ES		353	5.76	-.010							1.0
MORF	HN	124	315	IAML		353	6.46			37	0.1				
MESJ	HZ	155	342	EP		352	55.930	.200							1.0
MESJ	HN	155	342	ES		353	12.39	-.020							1.0
MESJ	HN	155	342	IAML		353	14.09			29	0.1				

September 12 2019 Hour: 4:46 13.4 Lat: 36.75N Lon: 7.32W Depth: 22F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	145	327	EP		446	34.72	-.020							1.0
MESJ	HN	145	327	ES		446	50.350	.020							1.0
MESJ	HN	145	327	IAML		446	50.95			0.80	0.1				

September 12 2019 Hour: 9:22 32.3 Lat: 36.66N Lon: 70.69E Depth: 259F Agency: IGL Distant
Magnitudes: 4.8Mb 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	6777	297	EP		932	18.280	.010							1.0
MESJ	BZ	6777	297	IAMB		932	19.27			22	0.9				

September 13 2019 Hour: 1:19 55.1 Lat: 37.15N Lon: 5.25W Depth: 3F Agency: IGL Regional
Magnitudes: 3.0ML 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	287	EP		120	34.25	-.050							1.0
MORF	HZ	303	274	EP		120	37.960	.050							1.0

September 13 2019 Hour: 1:48 59.4 Lat: 36.59N Lon: 7.22W Depth: 18F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	165	328	EP		149	23.40	-.160							1.0
MESJ	HE	165	328	ES		149	41.360	.160							1.0
MESJ	HN	165	328	IAML		149	43.14			1	0.2				

September 13 2019 Hour: 13:10 50.8 Lat: 36.23N Lon: 8.50W Depth: 14F Agency: IGL Regional
Magnitudes: 3.8ML 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	120	354	EP		1311	9.49	-0.21							1.0
MORF	HN	120	354	ES		1311	23.51	0.02							1.0
MORF	HN	120	354	IAML		1311	24.07			1775	0.2				
MESJ	HZ	180	8	EP		1311	17.47	0.19							1.0
MESJ	HE	180	8	ES		1311	36.78	0.18							1.0
MESJ	HN	180	8	IAML		1311	37.99			695	0.3				
GGNV	HZ	282	348	EP		1311	29.91	0.03							0.9
GGNV	HN	282	348	ES		1311	58.18	-0.21							0.9
GGNV	HN	282	348	IAML		1312	1.37			669	0.5				

September 13 2019 Hour: 14:12 30.0 Lat: 43.60N Lon: 28.88W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	1846	105	EP		1416	23.160	.160							1.0
MORF	HZ	1846	105	IAMB		1416	28.28			76	1.1				
MESJ	HZ	1853	103	EP		1416	23.65	-.030							1.0
MESJ	HZ	1853	103	IAMB		1416	29.64			251	1.7				
MESJ	HE	1853	103	ES		1419	29.76	-.120							1.0

September 13 2019 Hour: 16:12 19.6 Lat: 36.58N Lon: 9.78W Depth: 15F 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	129	51	EP		1612	39.580	.020							1.0
MORF	HN	129	51	ES		1612	54.12	-.020							1.0
MORF	HN	129	51	IAML		1612	55.41			5	0.1				

September 13 2019 Hour: 16:27 19.8 Lat: 14.93N Lon: 61.55W Depth: 163F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

MARTINIQUE REGION, WINDWARD ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5756	54	EP		1636	10.330	.010							1.0
MORF	BZ	5756	54	IAMB		1636	11.93			39	1.0				

September 14 2019 Hour: 0:33 54.9 Lat: 37.31N Lon: 8.56W Depth: 10F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	266	EP		033	56.92	-.160							1.0
MORF	HE	8	266	ES		033	58.760	.100							1.0
MORF	HN	8	266	IAML		033	59.27			910	0.2				
MESJ	HZ	66	27	EP		034	5.860	.170							1.0
MESJ	HE	66	27	ES		034	13.46	-.100							1.0
MESJ	HN	66	27	IAML		034	15.96			38	0.1				

September 14 2019 Hour: 2:51 43.0 Lat: 36.38N Lon: 8.20W Depth: 14F Agency: IGL Regional
Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	110	339	EP		252	0.400	.030							1.0

September 14 2019 Hour: 3:18 13.5 Lat: 37.34N Lon: 8.55W Depth: 11F Agency: IGL Regional
Magnitudes: 2.2ML 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	10	247	EP		318	15.68	-.250							1.0
MORF	HE	10	247	ES		318	17.870	.140							1.0
MORF	HN	10	247	IAML		318	18.63		1434	0.1					
MESJ	HZ	63	28	EP		318	23.730	.030							1.0
MESJ	HN	63	28	ES		318	31.250	.090							1.0
MESJ	HN	63	28	IAML		318	34.24		89	0.1					

September 14 2019 Hour: 3:49 6.8 Lat: 36.29N Lon: 11.49W 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	277	65	EP		349	44.97	-.100							1.0
MORF	HN	277	65	ES		350	13.090	.100							1.0
MORF	HN	277	65	IAML		350	14.51		5	0.1					

September 14 2019 Hour: 15:0 58.7 Lat: 37.35N Lon: 8.45W Depth: 16F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	19	254	EP		15	1	2.740	.090						1.0
MORF	HN	19	254	ES		15	1	5.45	-.090						1.0
MORF	HN	19	254	IAML		15	1	6.25		37	0.2				

September 14 2019 Hour: 16:21 28.8 Lat: 0.97S Lon: 128.57E Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Ms 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	BZ14022	318	EPKpdf			1640	30.980	.120							1.0
MESJ	BZ14022	318	EPP			1642	24.15	-.060							1.0
MESJ	BZ14022	318	IAMs_20			1742	54.24		1065	17.3					
GGNV	BZ14037	319	EPP			1642	25.170	.070							1.0
MORF	BZ14086	318	EPP			1642	27.96	-.130							1.0
MORF	BE14086	318	IAMs_20			1736	33.13		1858	36.9					

September 14 2019 Hour: 21:10 52.7 Lat: 54.53N Lon: 35.12W Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2626	121	EP		2116	3.93	-.070							1.0
GGNV	BZ	2626	121	IAMB		2116	4.62		25	0.6					
MESJ	BZ	2753	121	EP		2116	14.580	.140							1.0
MESJ	BZ	2753	121	IAMB		2116	20.44		192	2.3					
MORF	BZ	2775	123	EP		2116	16.28	-.070							1.0
MORF	BZ	2775	123	IAMB		2116	23.06		36	1.4					

September 14 2019 Hour: 23:26 4.3 Lat: 37.16N Lon: 5.27W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	300	274	EP		2326	46.74	-.030							1.0

September 15 2019 Hour: 2: 0 35.7 Lat: 36.69N Lon: 7.72W Depth: 22F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	107	310	EP		2	0	52.29	-.130						1.0
MESJ	HZ	135	341	EP		2	0	55.900	.080						1.0
MESJ	HN	135	341	ES		2	1	10.570	.050						1.0
MESJ	HN	135	341	IAML		2	1	12.66			2	0.1			

September 15 2019 Hour: 7: 0 55.7 Lat: 37.18N Lon: 5.26W Depth: 1F 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	272	287	EP		7	1	34.880	.070						1.0
MORF	HZ	302	274	EP		7	1	38.44	-.080						1.0

September 15 2019 Hour: 8:20 56.7 Lat: 37.19N Lon: 5.28W Depth: 3F 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	270	286	EP		821		35.480	.090						1.0
MORF	HZ	300	274	EP		821		39.02	-.090						1.0

September 15 2019 Hour: 11: 5 33.9 Lat: 37.15N Lon: 5.25W Depth: 4F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	287	EP		11	6	12.97	-.000						1.0

September 15 2019 Hour: 11:17 8.8 Lat: 37.14N Lon: 5.26W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	287	EP		1117		48.000	.020						1.0
MORF	HZ	302	274	EP		1117		51.55	-.020						1.0

September 15 2019 Hour: 16:53 2.8 Lat: 38.08N Lon: 8.58W Depth: 4F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

SW GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	41	130	EP		1653		9.45	-.060						1.0
MESJ	HE	41	130	ES		1653		14.39	-.020						1.0
MESJ	HE	41	130	IAML		1653		16.04			3	0.1			
MORF	HZ	86	184	EP		1653		16.830	.090						1.0

September 15 2019 Hour: 18: 4 1.4 Lat: 37.10N Lon: 5.27W Depth: 0 Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	288	EP		18	4	40.65	-.180						1.0
MESJ	HN	273	288	ES		18	5	9.720	.140						1.0
MESJ	HN	273	288	IAML		18	5	29.69			30	0.3			
MORF	HZ	301	275	EP		18	4	44.330	.040						1.0

September 15 2019 Hour: 18:10 2.0 Lat: 37.12N Lon: 5.25W Depth: 10F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	288	EP		1810		40.37	-.100						1.0
MORF	HZ	302	275	EP		1810		44.110	.110						1.0

September 15 2019 Hour: 19:35 51.2 Lat: 37.11N Lon: 5.25W Depth: 6F 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	275	288	EP		1936	30.290	.090							1.0
MORF	HZ	303	275	EP		1936	33.61	-.090							1.0

September 15 2019 Hour: 19:57 15.8 Lat: 37.09N Lon: 5.30W Depth: 6F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	289	EP		1957	54.40	-.010							1.0

September 15 2019 Hour: 22:30 39.6 Lat: 37.01N Lon: 5.01W Depth: 15F Agency: IGL Regional
Magnitudes: 3.8ML 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	299	289	EP		2231	20.680	.020							1.0
MESJ	HN	299	289	ES		2231	50.660	.020							1.0
MESJ	HN	299	289	IAML		2232	4.19			220	0.6				
MORF	HZ	325	277	EP		2231	23.76	-.230							1.0
MORF	HE	325	277	ES		2231	56.590	.190							1.0
MORF	HN	325	277	IAML		2232	13.78			581	0.5				

September 15 2019 Hour: 22:56 46.1 Lat: 37.15N Lon: 5.24W Depth: 0 Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	287	EP		2257	25.630	.040							1.0
MORF	HZ	303	274	EP		2257	29.17	-.040							1.0

September 15 2019 Hour: 23:36 26.0 Lat: 36.34N Lon: 8.91W Depth: 16F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	109	12	EP		2336	43.26	-.060							1.0
MORF	HE	109	12	ES		2336	56.010	.060							1.0
MORF	HE	109	12	IAML		2336	59.22			15	0.2				

September 16 2019 Hour: 0:32 5.1 Lat: 37.15N Lon: 5.24W Depth: 0 Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	287	EP		032	44.770	.070							1.0
MORF	HZ	303	274	EP		032	48.26	-.080							1.0

September 16 2019 Hour: 2:17 21.6 Lat: 37.26N Lon: 7.76W Depth: 11F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

NE S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	76	328	EP		217	33.76	-.100							1.0
MESJ	HE	76	328	ES		217	42.920	.100							1.0
MESJ	HE	76	328	IAML		217	45.74			2	0.1				

September 16 2019 Hour: 5:55 45.3 Lat: 37.63N Lon: 6.77W Depth: 3F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.3 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	130	281	EP		556	6.590	.410							1.0
MESJ	HN	130	281	ES		556	21.420	.010							1.0
MESJ	HN	130	281	IAML		556	24.24			43	0.1				
MORF	HZ	170	258	EP		556	11.07	-.580							1.0
MORF	HN	170	258	ES		556	31.030	.140							1.0

MORF HN 170 258 IAML 556 33.43 80 0.2

September 16 2019 Hour: 6:14 22.3 Lat: 38.99N Lon: 10.32W Depth: 48F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	223	124	EP		614	52.940	.130							1.0
MESJ	HE	223	124	ES		615	14.99-	.110							1.0
MESJ	HN	223	124	IAML		615	17.41			7	0.1				
MORF	HZ	237	141	EP		614	54.50-	.030							1.0
MORF	HN	237	141	ES		615	18.090	.010							1.0
MORF	HN	237	141	IAML		615	21.32			21	0.1				

September 16 2019 Hour: 12:48 41.7 Lat: 38.55N Lon: 100.25E Depth: 19F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

GANSU-QINGHAI BORDER REGION, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8837	310	EP		13	0	47.200	.110						1.0
MESJ	BZ	8837	310	IAMB		13	0	48.85		36	1.0				
MORF	BZ	8905	310	EP		13	0	50.34-	.110						1.0
MORF	BZ	8905	310	IAMB		13	0	51.95		42	1.1				

September 16 2019 Hour: 21: 5 42.3 Lat: 36.69N Lon: 9.75W Depth: 17F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	119	55	EP		21	6	0.950	.030						1.0
MORF	HE	119	55	ES		21	6	14.49-	.030						1.0
MORF	HN	119	55	IAML		21	6	15.83			4	0.2			

September 17 2019 Hour: 1: 9 53.0 Lat: 61.72N Lon: 150.84W Depth: 53F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.1 secs

SOUTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8350	30	EP		121	29.580	.170							1.0
GGNV	BZ	8350	30	IAMB		121	31.08			130	0.9				
MESJ	BZ	8467	30	EP		121	35.39-	.090							1.0
MESJ	BZ	8467	30	IAMB		121	36.49			42	1.0				
MORF	BZ	8513	30	EP		121	37.77-	.070							1.0
MORF	BZ	8513	30	IAMB		121	39.43			95	0.9				

September 17 2019 Hour: 1:42 23.1 Lat: 38.35N Lon: 9.38W Depth: 13F Agency: IGL Regional
Magnitudes: 1.0ML 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	116	119	EP		142	41.35-	.080							1.0
MESJ	HN	116	119	ES		142	54.880	.080							1.0
MESJ	HN	116	119	IAML		142	56.21				2	0.1			
MORF	HZ	133	151	EP		142	43.73-	.010							1.0
MORF	HE	133	151	ES		142	58.820	.010							1.0
MORF	HE	133	151	IAML		143	0.41				3	0.2			

September 17 2019 Hour: 8:25 53.2 Lat: 25.26S Lon: 179.12W Depth: 399F Agency: IGL Distant
Rms: 0.0 secs

SOUTH OF FIJI ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	18386	29	EPKpdf		845	9.87-	.020							1.0
MORF	BZ	18412	32	EPKpdf		845	10.160	.020							1.0

September 17 2019 Hour: 13:51 32.4 Lat: 36.24N Lon: 33.97W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Ms IGL Rms: 0.1 secs

AZORES ISLANDS REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2206	75	EP		1356	3.20	-0.11							1.0
GGNV	BN	2206	75	IAMs_20	14	0	21.20			9498	21.7				
MORF	BZ	2257	79	EP		1356	8.36	-0.00							1.0
MORF	BN	2257	79	IAMs_20	14	0	31.72			7551	26.0				
MESJ	BZ	2291	78	EP		1356	11.73	0.11							1.0
MESJ	BN	2291	78	IAMs_20	14	0	21.42			6068	38.6				

September 17 2019 Hour: 20:18 2.5 Lat: 36.22N Lon: 8.55W 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	121	356	EP		2018	21.24	-.190							1.0
MORF	HN	121	356	ES		2018	35.350	.120							1.0
MORF	HE	121	356	IAML		2018	36.15			5	0.1				
MESJ	HZ	182	9	EP		2018	29.090	.070							1.0

September 18 2019 Hour: 2:54 27.5 Lat: 44.55N Lon: 148.06E Depth: 69F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

KURIL ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10584	341		EP		3	7	43.090	.000						1.0
MESJ	BZ10584	341		IAMB		3	7	44.43			6	0.8			

September 18 2019 Hour: 7:22 7.0 Lat: 37.19N Lon: 5.26W Depth: 3F 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	271	286	EP		722	46.000	.160							1.0
MORF	HZ	301	273	EP		722	49.41	-.160							1.0

September 18 2019 Hour: 11:14 8.6 Lat: 37.15N Lon: 5.25W Depth: 8F Agency: IGL Regional
Magnitudes: 3.2ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	287	EP		1114	47.380	.150							1.0
MORF	HZ	302	274	EP		1114	50.78	-.080							1.0
MORF	HN	302	274	ES		1115	21.62	-.080							1.0
MORF	HN	302	274	IAML		1115	45.14			103	0.3				

September 18 2019 Hour: 12:38 15.7 Lat: 37.22N Lon: 5.24W Depth: 9F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	286	EP		1238	54.210	.130							1.0
MORF	HZ	303	273	EP		1238	57.78	-.130							1.0

September 18 2019 Hour: 13:16 41.9 Lat: 37.08N Lon: 5.25W Depth: 0 Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.2 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	276	289	EP		1317	21.53	-.140							1.0
MESJ	HN	276	289	ES		1317	50.890	.230							1.0
MESJ	HN	276	289	IAML		1318	6.24			36	0.4				
MORF	HZ	303	276	EP		1317	24.99	-.100							1.0

September 18 2019 Hour: 13:27 52.2 Lat: 37.14N Lon: 5.25W Depth: 0 Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.2 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	287	EP		1328	31.46	-.230							1.0
MESJ	HE	274	287	ES		1329	0.740	.220							1.0
MESJ	HN	274	287	IAML		1329	20.82			19	0.8				
MORF	HZ	303	274	EP		1328	35.290	.010							1.0

September 18 2019 Hour: 13:38 52.2 Lat: 37.03N Lon: 5.13W Depth: 0 Agency: IGL Regional
Magnitudes: 3.5ML 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	288	289	EP		1339	33.400	.010							1.0
MORF	HZ	314	277	EP		1339	36.59	-.120							1.0
MORF	HE	314	277	ES		1340	9.340	.110							1.0
MORF	HN	314	277	IAML		1340	32.91			183	0.4				

September 18 2019 Hour: 13:45 18.9 Lat: 37.28N Lon: 5.25W Depth: 0 Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	270	284	EP		1345	57.950	.100							1.0
MORF	HZ	302	272	EP		1346	1.77	-.100							1.0

September 18 2019 Hour: 14:15 7.8 Lat: 35.74N Lon: 9.85W Depth: 24F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	204	31	EP		1415	36.40	-.030							1.0
MORF	HE	204	31	ES		1415	57.10	-.200							1.0
MORF	HN	204	31	IAML		1415	57.76			13	0.3				
MESJ	HZ	275	32	EP		1415	45.190	.020							1.0
MESJ	HE	275	32	ES		1416	12.650	.230							1.0
MESJ	HE	275	32	IAML		1416	16.13			4	0.1				

September 18 2019 Hour: 17:58 48.6 Lat: 37.04N Lon: 8.51W Depth: 27F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	32	337	EP		1758	55.13	-.010							1.0
MORF	HN	32	337	ES		1758	59.890	.010							1.0
MORF	HE	32	337	IAML		1759	1.17			4	0.2				

September 18 2019 Hour: 20:35 10.6 Lat: 37.07N Lon: 5.20W Depth: 11F 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	281	289	EP		2035	49.79	-.030							1.0
MORF	HZ	308	276	EP		2035	53.260	.030							1.0

September 18 2019 Hour: 20:44 6.1 Lat: 37.11N Lon: 5.24W Depth: 1 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	276	288	EP		2044	45.820	.100							1.0
MORF	HZ	304	275	EP		2044	49.280	.060							1.0
MORF	HE	304	275	ES		2045	20.52	-.170							1.0
MORF	HN	304	275	IAML		2045	37.82			47	0.4				

September 19 2019 Hour: 7: 6 33.3 Lat: 6.06S Lon: 111.86E Depth:612FAgency: IGL Distant
Rms: 0.0 secs

JAVA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13058	310	EP			724	10.120	.010							1.0
MESJ	BZ13058	310	EPP			725	32.640	.050							1.0
MORF	BZ13110	309	EP			724	11.01-	-.050							1.0

September 19 2019 Hour: 7:31 59.6 Lat: 6.09S Lon: 111.89E Depth:591FAgency: IGL Distant
Rms: 0.0 secs

JAVA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13062	310	EPKpdf			749	38.640	.040							1.0
MORF	BZ13114	309	EPKpdf			749	39.51-	-.040							1.0

September 19 2019 Hour: 7:33 0.1 Lat: 6.04S Lon: 111.90E Depth:638FAgency: IGL Distant
Rms: 0.0 secs

JAVA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13060	310	EPKpdf			750	34.450	.010							1.0
MORF	BZ13112	309	EPKpdf			750	35.37-	-.010							1.0

September 19 2019 Hour: 11:49 58.8 Lat: 37.15N Lon: 5.26W 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	273	287	EP		1150	37.49-	-.160							1.0
MORF	HZ	301	274	EP		1150	41.430	.170							1.0

September 19 2019 Hour: 12:12 58.3 Lat: 37.31N Lon: 8.54W Depth: 12F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	266	EP		1213	0.74-	-.140							1.0
MORF	HN	10	266	ES		1213	2.70-	-.070							1.0
MORF	HN	10	266	IAML		1213	3.18			587	0.2				
MESJ	HZ	65	26	EP		1213	9.060	.210							1.0
MESJ	HN	65	26	ES		1213	16.580	.020							1.0
MESJ	HN	65	26	IAML		1213	20.07			12	0.1				

September 19 2019 Hour: 18:33 17.6 Lat: 37.53N Lon: 20.63E Depth: 10F Agency: IGL Distant
Magnitudes: 4.6Mb IGL Rms: 0.0 secs

IONIAN SEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2535	280	EP		1838	20.470	.000							1.0
MESJ	BZ	2535	280	IAMB		1838	22.11			28	1.5				

September 19 2019 Hour: 20:12 11.1 Lat: 36.60N Lon: 7.64W Depth: 20F 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	147	340	EP		2012	32.90-	-.010							1.0
MESJ	HN	147	340	ES		2012	48.830	.010							1.0
MESJ	HN	147	340	IAML		2012	50.70			1	0.1				

September 19 2019 Hour: 20:42 0.2 Lat: 37.13N Lon: 5.25W Depth: 0 Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	288	EP		2042	39.69-	-.030							1.0
MORF	HZ	303	275	EP		2042	43.310	.030							1.0

September 19 2019 Hour: 21: 9 12.5 Lat: 37.17N Lon: 5.27W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	271	287	EP		21	9	51.50	-.000						1.0

September 19 2019 Hour: 21:25 39.2 Lat: 38.23N Lon: 8.07W Depth: 3F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SW ALVITO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	45	197	EP		2125	46	700	.150						1.0
MESJ	HN	45	197	ES		2125	51	75	-.150						1.0
MESJ	HN	45	197	IAML		2125	52	40		5	0.2				

September 19 2019 Hour: 22:23 55.2 Lat: 36.39N Lon: 9.86W Depth: 22F 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	148	46	EP		2224	16	93	-.050						1.0
MORF	HE	148	46	ES		2224	32	890	.020						1.0
MORF	HE	148	46	IAML		2224	33	85		5	0.1				
MESJ	HZ	217	42	EP		2224	25	560	.030						1.0
MESJ	HE	217	42	ES		2224	47	67	-.000						1.0
MESJ	HN	217	42	IAML		2224	49	54		2	0.2				

September 20 2019 Hour: 9:13 38.8 Lat: 37.11N Lon: 5.25W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	275	288	EP		914	18	140	.060						1.0
MORF	HZ	303	275	EP		914	21	54	-.060						1.0

September 20 2019 Hour: 23: 9 23.0 Lat: 36.53N Lon: 7.24W Depth: 32F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	152	305	ES		2310	0	60	-.000						1.0
MORF	HE	152	305	IAML		2310	1	49		3	0.2				
MESJ	HZ	169	329	EP		23	9	46	.77	-.060					1.0
MESJ	HE	169	329	ES		2310	4	250	.060						1.0
MESJ	HN	169	329	IAML		2310	6	23		2	0.2				

September 21 2019 Hour: 2:44 14.2 Lat: 38.07N Lon: 8.71W Depth: 0 Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NW SANTIAGO DO CACEM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	50	121	EP		244	22	300	.020						1.0
MESJ	HE	50	121	ES		244	28	210	.030						1.0
MESJ	HN	50	121	IAML		244	29	74		10	0.1				
MORF	HZ	85	177	EP		244	28	040	.110						1.0
MORF	HE	85	177	ES		244	37	80	-.160						1.0
MORF	HN	85	177	IAML		244	38	16		27	0.2				

September 21 2019 Hour: 7:16 15.2 Lat: 36.58N Lon: 7.78W Depth: 14F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	316	EP		716	32	84	-.050						1.0
MESJ	HZ	145	345	EP		716	37	27	-.060						1.0
MESJ	HN	145	345	ES		716	53	570	.110						1.0
MESJ	HE	145	345	IAML		716	55	27		3	0.1				

September 21 2019 Hour: 7:25 37.1 Lat: 36.45N Lon: 12.51W Depth: 68F Agency: IGL Regional
Magnitudes: 3.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	357	73	EP		726	23.990	.140							1.0
MORF	HN	357	73	ES		726	58.040	.060							1.0
MORF	HN	357	73	IAML		727	1.67		126	0.3					
GGNV	HE	389	49	ES		727	4.65	-.010							1.0
GGNV	HE	389	49	IAML		727	7.30		399	0.2					
MESJ	HZ	411	67	EP		726	30.410	.010							1.0
MESJ	HN	411	67	ES		727	9.08	-.220							1.0
MESJ	HN	411	67	IAML		727	14.81		39	0.1					

September 21 2019 Hour: 7:45 51.2 Lat: 37.31N Lon: 8.61W Depth: 9F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	4	261	EP		745	52.62	-.250							1.0
MORF	HN	4	261	ES		745	54.250	.170							1.0
MORF	HE	4	261	IAML		745	54.81		27	0.1					
MESJ	HZ	68	30	EP		746	2.360	.060							1.0
MESJ	HN	68	30	ES		746	10.420	.030							1.0
MESJ	HN	68	30	IAML		746	13.67		2	0.1					

September 21 2019 Hour: 10: 8 41.7 Lat: 37.19N Lon: 8.59W Depth: 1 Agency: IGL Regional
Magnitudes: 0.7ML 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	14	336	EP		10 8	43.87	-.060							1.0
MORF	HN	14	336	ES		10 8	45.650	.060							1.0
MORF	HN	14	336	IAML		10 8	46.21		33	0.1					

September 21 2019 Hour: 14: 4 25.2 Lat: 41.36N Lon: 19.40E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

ADRIATIC SEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2394	270	EP		14 9	14.520	.010							1.0
MESJ	BN	2394	270	ES		1413	14.260	.060							1.0
MESJ	BZ	2394	270	IAMs_20		1418	50.25		21937	18.0					
GGNV	BN	2443	273	ES		1413	22.930	.100							1.0
GGNV	BE	2443	273	IAMs_20		1419	49.04		23586	12.3					
MORF	BZ	2449	269	EP		14 9	19.81	-.080							1.0
MORF	BN	2449	269	ES		1413	23.93	-.090							1.0
MORF	BZ	2449	269	IAMs_20		1419	27.42		9897	17.5					

September 21 2019 Hour: 15:10 28.9 Lat: 36.30N Lon: 8.85W Depth: 7F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	113	9	EP		1510	46.980	.060							1.0
MORF	HN	113	9	ES		1511	0.120	.010							1.0
MORF	HN	113	9	IAML		1511	2.99		47	0.3					
MESJ	HZ	180	18	EP		1510	55.88	-.050							1.0
MESJ	HN	180	18	ES		1511	15.68	-.020							1.0
MESJ	HN	180	18	IAML		1511	17.07		11	0.1					

September 21 2019 Hour: 19:53 11.1 Lat: 6.51S Lon: 130.45E Depth: 49F Agency: IGL Distant
Rms: 0.1 secs

BANDA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14612	316	EP	KPdf		2012	17.34	-.070							1.0
MESJ	BZ14612	316	EPP			2014	36.080	.090							1.0
GGNV	BZ14634	317	EPP			2014	37.230	.010							1.0

MORF BZ14674 316 EPKPdf 2012 18.32-.190 0.9
MORF BZ14674 316 EPP 2014 39.810.150 1.0

September 22 2019 Hour: 2:45 31.1 Lat: 37.28N Lon: 8.57W Depth: 12F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	290	EP		245	33.35	-.160							1.0
MORF	HN	8	290	ES		245	35.370	.110							1.0
MORF	HE	8	290	IAML		245	36.13		12	0.1					
MESJ	HZ	69	26	EP		245	42.370	.050							1.0

September 22 2019 Hour: 4:22 53.7 Lat: 35.88N Lon: 9.94W Depth: 12F 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	196	36	EP		423	22.300	.060							1.0
MORF	HN	196	36	ES		423	43.02	-.060							1.0
MORF	HE	196	36	IAML		423	44.92		4	0.2					

September 22 2019 Hour: 6:26 25.2 Lat: 37.18N Lon: 8.58W Depth: 4F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.0 secs

NW PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	335	EP		626	27.840	.050							1.0
MORF	HN	15	335	ES		626	29.61	-.050							1.0
MORF	HE	15	335	IAML		626	30.13		18	0.1					

September 22 2019 Hour: 7:32 34.1 Lat: 15.55S Lon: 173.13W Depth: 9F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17150	28	EPP			756	22.650	.090							1.0
MESJ	BZ17150	28	IAMs_20			852	51.04		676	20.1					

September 22 2019 Hour: 20:44 25.7 Lat: 36.76N Lon: 7.26W Depth: 22F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	138	296	EP		2044	46.06	-.140							1.0
MORF	HN	138	296	ES		2045	1.16	-.020							1.0
MORF	HN	138	296	IAML		2045	2.29		10	0.1					
MESJ	HZ	147	325	EP		2044	47.430	.130							1.0
MESJ	HN	147	325	ES		2045	3.120	.040							1.0
MESJ	HE	147	325	IAML		2045	6.18		2	0.1					

September 22 2019 Hour: 22:12 31.7 Lat: 18.67N Lon: 103.82W Depth: 35F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

OFFSHORE COLIMA, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ 9241	53	EP			2224	53.790	.010							1.0
MESJ	BZ 9241	53	IAMB			2224	54.78		14	0.9					

September 23 2019 Hour: 0:45 55.4 Lat: 38.35N Lon: 8.08W Depth: 4F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NW VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	58	192	EP		046	4.920	.150							1.0
MESJ	HE	58	192	ES		046	11.47	-.150							1.0
MESJ	HN	58	192	IAML		046	13.59		5	0.1					

September 23 2019 Hour: 11:42 26.3 Lat: 36.61N Lon: 7.74W Depth: 2F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	314	EP		1142	44.24	-.140							1.0
MORF	HE	112	314	ES		1142	57.700	.130							1.0
MORF	HN	112	314	IAML		1142	59.81		48	0.2					
MESJ	HZ	143	343	EP		1142	49.230	.030							1.0
MESJ	HE	143	343	ES		1143	5.90	-.010							1.0
MESJ	HN	143	343	IAML		1143	7.72		16	0.2					

September 24 2019 Hour: 0:46 35.5 Lat: 37.17N Lon: 5.25W Depth: 3F 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	273	287	EP		047	14.680	.120							1.0
MORF	HZ	302	274	EP		047	18.11	-.120							1.0

September 24 2019 Hour: 3:23 35.1 Lat: 19.04N Lon: 67.25W Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.0 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	5968	56	EP		332	56.62	-.020							1.0
GGNV	BZ	5968	56	IAMs_20		353	15.04		12275	16.1					
MORF	BZ	6002	57	EP		332	59.060	.080							1.0
MORF	BN	6002	57	ES		340	35.44	-.000							1.0
MORF	BZ	6002	57	IAMs_20		353	40.11		15735	18.1					
MESJ	BZ	6043	57	EP		333	1.61	-.020							1.0
MESJ	BN	6043	57	ES		340	40.30	-.040							1.0
MESJ	BZ	6043	57	IAMs_20		354	2.14		17529	15.0					

September 24 2019 Hour: 3:32 39.2 Lat: 18.97N Lon: 67.21W Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6044	57	EP		342	5.73	-.020							1.0
MESJ	BZ	6044	57	IAMB		342	6.70		36	1.4					

September 24 2019 Hour: 7:18 38.2 Lat: 20.89S Lon: 178.39W Depth: 536F Agency: IGL Distant
Rms: 0.2 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17924	25	EPKpdf			737	36.820	.270							1.0
MESJ	BZ17924	25	EPKpab			738	23.64	-.260							1.0
MORF	BZ17956	26	EPKpdf			737	37.150	.250							1.0
MORF	BZ17956	26	EPKpab			738	24.97	-.260							1.0

September 24 2019 Hour: 7:48 58.2 Lat: 34.14N Lon: 26.16E Depth: 20F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.1 secs

CRETE, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3110	288	EP		754	47.860	.420							1.0
MESJ	BZ	3110	288	IAMB		754	49.53		234	1.7					
MORF	BZ	3152	286	EP		754	50.910	.060							1.0
GGNV	BZ	3187	289	EP		754	53.790	.200							1.0
GGNV	BZ	3187	289	IAMB		754	56.88		214	1.1					

September 24 2019 Hour: 11:1 54.8 Lat: 33.11N Lon: 73.77E Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

PAKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7214	300	EP		1112	34.16	-.090							1.0
MESJ	BE	7214	300	ES		1121	16.30	-.070							1.0
MESJ	BN	7214	300	IAMs_20		1141	21.76		2462	16.3					
GGNV	BZ	7250	301	EP		1112	36.310	.000							1.0
GGNV	BE	7250	301	ES		1121	20.370	.100							1.0
GGNV	BE	7250	301	IAMs_20		1144	2.75		3168	15.0					
MORF	BZ	7273	300	EP		1112	37.72	-.030							1.0
MORF	BE	7273	300	ES		1121	23.070	.090							1.0
MORF	BZ	7273	300	IAMs_20		1147	50.68		2006	13.4					

September 24 2019 Hour: 20:11 5.8 Lat: 37.31N Lon: 8.52W Depth: 11F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	267	EP		2011	8.33	-.160							1.0
MORF	HE	12	267	ES		2011	10.560	.120							1.0
MORF	HE	12	267	IAML		2011	11.50		34	0.1					
MESJ	HZ	65	24	EP		2011	16.460	.130							1.0
MESJ	HN	65	24	ES		2011	23.91	-.090							1.0
MESJ	HN	65	24	IAML		2011	24.78		3	0.1					

September 24 2019 Hour: 21:19 48.6 Lat: 33.82S Lon: 56.25E Depth: 10F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

SOUTHWEST INDIAN RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10344	314	EP			2133	2.09	-.090							1.0
MORF	BZ10344	314	EPP			2136	45.160	.230							0.9
MORF	BE10344	314	ESS			2150	24.390	.020							1.0
MORF	BZ10344	314	IAMs_20			22 5	19.34		6696	42.5					
MESJ	BZ10355	314	EP			2133	2.49	-.040							1.0
MESJ	BZ10355	314	EPP			2136	45.49	-.110							1.0
MESJ	BN10355	314	ESKSac			2143	36.550	.070							1.0
MESJ	BE10355	314	ESS			2150	25.650	.040							1.0
MESJ	BZ10355	314	IAMs_20			2219	5.20		3522	17.4					
GGNV	BZ10480	314	EPP			2136	54.20	-.190							0.9
GGNV	BE10480	314	ESS			2150	41.730	.080							1.0
GGNV	BE10480	314	IAMs_20			2221	4.38		5642	19.6					

September 25 2019 Hour: 19:43 23.5 Lat: 27.88S Lon: 66.76W Depth: 157F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

CATAMARCA, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9490	43	EP		1955	42.810	.030							1.0
MESJ	BZ	9490	43	IAMB		1955	44.82		19	0.9					

September 25 2019 Hour: 23:46 45.1 Lat: 3.45S Lon: 128.35E Depth: 18F Agency: IGL Distant
Magnitudes: 6.5Ms IGL Rms: 0.1 secs

SERAM, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14207	317	EPP			24 7	50.240	.090							1.0
MESJ	BN14207	317	ESS			2425	2.01	-.100							1.0
MESJ	BZ14207	317	IAMs_20			25 5	53.27		11490	31.4					
GGNV	BZ14227	318	EPP			24 7	51.400	.080							1.0
GGNV	BN14227	318	ESS			2425	4.440	.120							1.0
GGNV	BN14227	318	IAMs_20			2455	57.89		15515	23.9					
MORF	BZ14270	316	EPP			24 7	53.73	-.190							1.0
MORF	BN14270	316	IAMs_20			2454	31.20		10041	24.2					

September 26 2019 Hour: 10:59 25.0 Lat: 40.87N Lon: 28.19E Depth: 7F Agency: IGL Distant
Magnitudes: 5.7Ms 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	3134	276	EP		11 5	18.16	-.030							1.0
MESJ	BN	3134	276	ES		1110	5.120	.010							1.0
MESJ	BZ	3134	276	IAMs_20		1118	49.31		6955	11.6					
GGNV	BZ	3183	278	EP		11 5	22.170	.060							1.0
GGNV	BE	3183	278	IAMs_20		1118	41.35		20211	15.2					
MORF	BZ	3188	275	EP		11 5	22.61	-.030							1.0
MORF	BE	3188	275	IAMs_20		1119	11.60		11480	13.0					

September 26 2019 Hour: 11: 7 10.8 Lat: 37.14N Lon: 5.23W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	276	287	EP		11 7	50.250	.040							1.0
MORF	HZ	304	274	EP		11 7	53.76	-.050							1.0

September 26 2019 Hour: 13: 2 8.6 Lat: 27.89N Lon: 19.93W Depth: 15F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

CANARY ISLANDS, SPAIN REGION Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	1485	42	EP		13 5	17.46	-.100							1.0
MESJ	HZ	1553	42	EP		13 5	25.980	.100							1.0
MESJ	HZ	1553	42	IAMB		13 5	28.97		40	0.7					

September 26 2019 Hour: 20:31 30.0 Lat: 29.86S Lon: 71.45W Depth: 37F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.0 secs

OFFSHORE COQUIMBO, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9897	45	EP		2044	20.880	.000							1.0
MORF	BZ	9897	45	IAMB		2044	21.68		24	0.9					
MESJ	BZ	9965	45	EP		2044	23.64	-.000							1.0
MESJ	BZ	9965	45	IAMB		2044	24.02		28	0.9					

September 26 2019 Hour: 21:41 57.8 Lat: 36.62N Lon: 11.31W Depth: 33F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	249	71	EP		2142	31.480	.070							1.0
MORF	HN	249	71	ES		2142	55.95	-.030							1.0
MORF	HN	249	71	IAML		2142	57.63		6	0.2					
MESJ	HE	306	63	ES		2143	8.19	-.040							1.0
MESJ	HE	306	63	IAML		2143	9.36		1	0.2					

September 27 2019 Hour: 12: 5 2.6 Lat: 30.13S Lon: 177.83W Depth: 35F Agency: IGL Distant
Magnitudes: 6.4Ms IGL Rms: 0.1 secs

KERMADEC ISLANDS, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	18612	44	EPKp \bar{d} f		1225	4.350	.100							1.0
GGNV	BE	18612	44	ESS		1250	42.850	.080							1.0
GGNV	BN	18612	44	IAMs_20		1337	19.00		5725	22.7					
MESJ	BZ	18736	46	EPKp \bar{d} f		1225	5.07	-.010							1.0
MESJ	BZ	18736	46	EPP		1230	3.950	.050							1.0
MESJ	BE	18736	46	ESS		1250	53.97	-.050							1.0
MESJ	BZ	18736	46	IAMs_20		1331	2.92		5451	22.8					
MORF	BZ	18742	49	EPKp \bar{d} f		1225	5.15	-.010							1.0
MORF	BZ	18742	49	EPP		1230	4.17	-.020							1.0
MORF	BN	18742	49	ESS		1250	54.43	-.150							1.0
MORF	BZ	18742	49	IAMs_20		1340	36.35		4988	20.5					

September 27 2019 Hour: 21:47 27.0 Lat: 38.61N Lon: 14.93W Depth: 31F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.2 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	570	103	EP		2148	39.360	.040							1.0
MORF	HN	570	103	ES		2149	32.02	-.060							1.0
MORF	HE	570	103	IAML		2149	38.51			19	0.2				
MESJ	HZ	594	96	EP		2148	42.370	.250							1.0
MESJ	HN	594	96	ES		2149	36.68	-.240							1.0
MESJ	HN	594	96	IAML		2149	41.58			4	0.2				

September 28 2019 Hour: 1:41 33.9 Lat: 36.08N Lon: 7.23W Depth: 32F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	186	317	EP		141	59.63	-.190							1.0
MESJ	HZ	214	336	EP		142	3.340	.060							1.0
MESJ	HN	214	336	ES		142	24.850	.130							1.0
MESJ	HE	214	336	IAML		142	28.09			3	0.1				

September 28 2019 Hour: 6:41 10.0 Lat: 36.01N Lon: 4.77W Depth: 13F Agency: IGL Regional
Magnitudes: 1.7ML 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	368	304	EP		641	59.75	-.100							1.0
MESJ	HE	368	304	ES		642	36.360	.100							1.0
MESJ	HE	368	304	IAML		642	39.05			2	0.2				

September 28 2019 Hour: 13:5 7.9 Lat: 36.49N Lon: 7.68W Depth: 24F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	316	EP		13 5	26.37	-.300							1.0
MESJ	HZ	157	342	EP		13 5	30.880	.270							1.0
MESJ	HN	157	342	ES		13 5	47.260	.040							1.0
MESJ	HN	157	342	IAML		13 5	48.87			96	0.1				

September 28 2019 Hour: 13:19 49.6 Lat: 37.32N Lon: 8.63W Depth: 18F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	3	229	EP		1319	52.50	-.080							1.0
MORF	HE	3	229	ES		1319	54.64	-.100							1.0
MORF	HE	3	229	IAML		1319	55.01			30	0.1				
MESJ	HN	68	32	ES		1320	8.960	.200							1.0
MESJ	HN	68	32	IAML		1320	10.33			2	0.2				

September 28 2019 Hour: 21:30 10.6 Lat: 35.62N Lon: 8.87W Depth: 26F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	188	6	EP		2130	36.93	-.140							1.0
MORF	HN	188	6	ES		2130	56.28	-.100							1.0
MORF	HN	188	6	IAML		2130	57.61			87	0.2				
MESJ	HZ	253	13	EP		2130	45.220	.100							1.0
MESJ	HE	253	13	ES		2131	10.470	.150							1.0
MESJ	HE	253	13	IAML		2131	12.33			18	0.1				

September 29 2019 Hour: 2: 2 52.4 Lat: 5.69N Lon: 126.55E Depth: 76F Agency: IGL Distant
Magnitudes: 5.8Ms 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	BZ13319	320		EPKPd \bar{f}		221	33.420	.110							1.0
MESJ	BZ13319	320		EPP		222	56.980	.110							1.0
MESJ	BN13319	320		ESS		239	16.610	.050							1.0
MESJ	BN13319	320		IAMs_20		3 6	15.67		2796	29.7					
GGNV	BZ13327	321		EPKPd \bar{f}		221	33.480	.070							1.0
GGNV	BZ13327	321		EPP		222	57.14	-.200							0.9
GGNV	BE13327	321		IAMs_20		316	42.71		4043	25.5					
MORF	BZ13385	319		EPKPd \bar{f}		221	34.41	-.080							1.0
MORF	BZ13385	319		EPP		223	0.89	-.090							1.0
MORF	BZ13385	319		IAMs_20		317	28.74		2662	31.0					

September 29 2019 Hour: 2:42 32.3 Lat: 37.16N Lon: 5.28W Depth: 1F 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	271	287	EP		243	11.21	-.120							1.0
MORF	HZ	300	274	EP		243	15.080	.120							1.0

September 29 2019 Hour: 2:52 26.5 Lat: 37.17N Lon: 5.24W Depth: 1F 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	274	287	EP		253	5.86	-.060							1.0
MORF	HZ	303	274	EP		253	9.670	.070							1.0

September 29 2019 Hour: 3:41 39.0 Lat: 38.46N Lon: 7.32W Depth: 0 Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

NE MOURAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	105	229	EP		341	55.910	.050							1.0
MESJ	HN	105	229	ES		342	8.12	-.070							1.0
MESJ	HN	105	229	IAML		342	10.95		6	0.1					
MORF	HZ	174	223	EP		342	6.050	.010							1.0

September 29 2019 Hour: 4: 9 42.4 Lat: 35.87N Lon: 4.74W Depth: 10F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	380	306	EP		410	33.86	-.160							1.0
MESJ	HE	380	306	ES		411	11.770	.060							1.0
MESJ	HN	380	306	IAML		411	17.76		36	0.2					
MORF	HZ	385	296	EP		410	34.890	.210							1.0
MORF	HE	385	296	ES		411	12.72	-.120							1.0
MORF	HN	385	296	IAML		411	14.88		23	0.3					

September 29 2019 Hour: 4:30 5.0 Lat: 38.45N Lon: 7.33W Depth: 1 Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NE MOURAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	103	229	EP		430	21.47	-.160							1.0
MESJ	HN	103	229	ES		430	33.950	.160							1.0
MESJ	HE	103	229	IAML		430	35.12		2	0.1					

September 29 2019 Hour: 10:55 55.0 Lat: 37.17N Lon: 5.25W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	287	EP		1056	34.09	-.020							1.0

September 29 2019 Hour: 12:10 55.5 Lat: 37.17N Lon: 5.26W Depth: 3F 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	272	287	EP		1211	34.24	-.140							1.0
MORF	HZ	301	274	EP		1211	38.210	.140							1.0

September 29 2019 Hour: 15:57 53.3 Lat: 35.47S Lon: 73.16W Depth: 11F Agency: IGL Distant
Magnitudes: 7.0Ms IGL Rms: 0.1 secs

OFFSHORE MAULE, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10444	46	EP			1611	10.830	.020							1.0
MORF	BZ10444	46	EPP			1614	56.33	-.210							1.0
MORF	BE10444	46	ESKSac			1621	45.480	.040							1.0
MORF	BZ10444	46	IAMs_20			1652	37.65		62290	18.3					
MESJ	BZ10512	46	EP			1611	13.760	.220							1.0
MESJ	BZ10512	46	EPP			1615	1.17	-.110							1.0
MESJ	BE10512	46	ESKSac			1621	48.65	-.040							1.0
MESJ	BZ10512	46	IAMs_20			1652	11.23		55681	17.7					
GGNV	BZ10518	45	EP			1611	13.940	.230							1.0
GGNV	BZ10518	45	EPP			1615	1.59	-.050							1.0
GGNV	BN10518	45	ESKSac			1621	48.82	-.090							1.0
GGNV	BE10518	45	IAMs_20			1657	34.01		41702	20.1					

September 29 2019 Hour: 22:51 45.1 Lat: 37.13N Lon: 5.23W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	276	287	EP		2252	24.620	.000							1.0
MORF	HZ	304	275	EP		2252	28.19	-.000							1.0

September 30 2019 Hour: 0:6 5.9 Lat: 36.78N Lon: 10.48W Depth: 31F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	173	70	EP		0 6	29.35	-.070							1.0
MORF	HE	173	70	ES		0 6	46.590	.020							1.0
MORF	HN	173	70	IAML		0 6	48.86		56	0.3					
MESJ	HZ	232	59	EP		0 6	36.78	-.010							1.0
MESJ	HN	232	59	ES		0 6	59.400	.070							1.0
MESJ	HN	232	59	IAML		0 7	1.63		12	0.1					

September 30 2019 Hour: 5:41 38.6 Lat: 38.45N Lon: 7.30W Depth: 1F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.0 secs

NE MOURAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	105	230	EP		541	55.610	.070							1.0
MESJ	HN	105	230	ES		542	7.93	-.010							1.0
MESJ	HN	105	230	IAML		542	10.77		26	0.1					
MORF	HZ	174	224	EP		542	5.52	-.060							1.0

September 30 2019 Hour: 11:53 22.7 Lat: 22.21S Lon: 68.66W Depth:111F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9102	44	EP		12 5	29.540	.070							1.0
MORF	BZ	9102	44	IAMB		12 5	35.67			52	1.4				
MESJ	BZ	9167	44	EP		12 5	32.500	.010							1.0
MESJ	BZ	9167	44	IAMB		12 5	39.11			22	1.1				
MESJ	BE	9167	44	ES		1215	39.88-	.070							1.0

September 30 2019 Hour: 18:27 3.0 Lat: 36.98N Lon: 5.26W Depth: 0 Agency: IGL Regional
Magnitudes: 4.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	279	291	EP		1827	43.250	.130							1.0
MORF	HZ	304	278	EP		1827	46.01-	.210							1.0
MORF	HN	304	278	ES		1828	17.860	.080							1.0
MORF	HN	304	278	IAML		1828	34.09			641	0.7				

September 30 2019 Hour: 21:43 56.2 Lat: 37.74N Lon: 8.88W Depth: 11F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs

S SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	52	157	EP		2144	4.900	.010							1.0
MORF	HN	52	157	ES		2144	11.250	.050							1.0
MORF	HE	52	157	IAML		2144	11.97			281	0.3				
MESJ	HZ	59	79	EP		2144	5.940	.000							1.0
MESJ	HN	59	79	ES		2144	12.96-	.060							1.0
MESJ	HN	59	79	IAML		2144	13.64			135	0.2				

October 1 2019 Hour: 0:29 37.0 Lat: 37.38N Lon: 16.11W Depth: 19F Agency: IGL Regional
Magnitudes: 2.8ML 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	661	88	EP		031	2.100	.140							1.0
MORF	HE	661	88	ES		032	3.97-	.010							1.0
MORF	HN	661	88	IAML		032	6.96			9	0.2				
MESJ	HZ	698	83	EP		031	6.31-	.130							1.0
MESJ	HE	698	83	ES		032	11.73-	.000							1.0
MESJ	HN	698	83	IAML		032	14.54			10	0.3				

October 1 2019 Hour: 1:44 18.7 Lat: 33.67N Lon: 4.18W Depth: 1 Agency: IGL Regional
Magnitudes: 5.7Ms IGL Rms: 0.0 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	589	323	EP		145	36.75-	.010							1.0

October 1 2019 Hour: 3:56 8.1 Lat: 56.00S Lon: 122.47W Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Ms 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
MORF	BZ	14755	84	EPP		417	48.630	.040							1.0
MORF	BZ	14755	84	IAMS_20		5 8	58.80			1479	24.6				
MESJ	BZ	14824	84	EPP		417	52.560	.040							1.0
MESJ	BE	14824	84	ESS		435	39.07-	.120							1.0
MESJ	BZ	14824	84	IAMS_20		5 5	32.14			1412	18.0				
GGNV	BZ	14835	83	EPP		417	53.160	.040							1.0
GGNV	BZ	14835	83	IAMS_20		511	0.67			1784	23.8				

October 1 2019 Hour: 21:39 10.0 Lat: 35.98N Lon: 10.43W Depth: 25F 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	216	47	ES		2140	2.180	.180							1.0
MORF	HN	216	47	IAML		2140	3.20			4	0.2				
MESJ	HZ	285	43	EP		2139	48.42	-.140							1.0
MESJ	HN	285	43	ES		2140	16.68	-.050							1.0
MESJ	HN	285	43	IAML		2140	18.39			0.90	0.1				

October 2 2019 Hour: 0:49 14.8 Lat: 37.14N Lon: 5.26W Depth: 9F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	287	EP		049	53.190	.000							1.0

October 2 2019 Hour: 3:59 4.1 Lat: 36.99N Lon: 4.05W Depth: 0 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	381	286	EP		359	56.84	-.010							1.0

October 3 2019 Hour: 4:44 55.3 Lat: 36.24N Lon: 28.59E Depth: 20F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

DODECANESE ISLANDS-TURKEY BORDER REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3259	284	EP		450	56.490	.020							1.0
MESJ	BZ	3259	284	IAMB		451	1.85			55	1.3				

October 3 2019 Hour: 7:9 42.3 Lat: 35.89N Lon: 7.60W 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	183	329	EP		710	7.77	-.080							1.0
MORF	HN	183	329	ES		710	26.47	-.060							1.0
MORF	HN	183	329	IAML		710	27.89			18	0.1				
MESJ	HZ	223	346	EP		710	12.970	.150							1.0
MESJ	HN	223	346	ES		710	35.130	.000							1.0
MESJ	HN	223	346	IAML		710	37.32			7	0.1				

October 3 2019 Hour: 11:24 1.7 Lat: 37.36N Lon: 8.54W Depth: 12F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	238	EP		1124	4.26	-.180							1.0
MORF	HN	12	238	ES		1124	6.560	.090							1.0
MORF	HE	12	238	IAML		1124	7.52			25	0.1				
MESJ	HN	60	28	ES		1124	18.730	.090							1.0
MESJ	HN	60	28	IAML		1124	19.01			4	0.1				

October 3 2019 Hour: 13:25 28.8 Lat: 39.54N Lon: 8.95W Depth: 12F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

E ALCOBACA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HE	93	191	ESg		1325	55.100	.100							1.0
GGNV	HE	93	191	IAML		1325	57.04			390	0.5				
MESJ	HZ	199	161	EP		1325	57.860	.070							1.0
MESJ	HE	199	161	ESg		1326	24.32	-.180							1.0
MESJ	HN	199	161	IAML		1326	26.54			24	0.2				
MORF	HZ	250	174	EP		1326	4.08	-.000							0.9

**October 4 2019 Hour: 13: 4 56.8 Lat: 37.32N Lon: 8.55W Depth: 13F 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	9	259	EP		13	4	59.41	-.050						1.0
MORF	HE	9	259	ES		13	5	1.420	.040						1.0
MORF	HN	9	259	IAML		13	5	2.23		61	0.1				
MESJ	HZ	65	27	EP		13	5	7.400	.110						1.0
MESJ	HN	65	27	ES		13	5	14.83	-.100						1.0
MESJ	HN	65	27	IAML		13	5	18.54		3	0.2				

**October 4 2019 Hour: 17: 3 50.7 Lat: 6.22S Lon: 155.23E Depth:160F Agency: IGL Distant
Rms: 0.1 secs**

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16153	337	EPKP			1723		8.56	-.160						1.0
MORF	BZ16224	337	EPKP			1723		9.710	.160						1.0

**October 4 2019 Hour: 21: 1 4.3 Lat: 37.36N Lon: 8.46W Depth: 12F Agency: IGL Regional
Magnitudes: 0.9ML 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	18	250	EP		21	1	7.85	-.010						1.0
MORF	HE	18	250	ES		21	1	10.470	.010						1.0
MORF	HN	18	250	IAML		21	1	11.19		25	0.2				

**October 5 2019 Hour: 0:54 54.6 Lat: 37.12N Lon: 5.25W 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	275	288	EP		055		33.800	.100						1.0
MORF	HZ	303	275	EP		055		37.12	-.110						1.0

**October 5 2019 Hour: 0:58 7.0 Lat: 37.14N Lon: 5.27W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs**

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	272	287	EP		058		45.970	.010						1.0

**October 5 2019 Hour: 17: 1 42.1 Lat: 59.86N Lon: 30.06W Depth: 10F Agency: IGL Distant
Magnitudes: 4.4Ms IGL Rms: 0.1 secs**

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2895	138	EP		17	7	15.610	.110						1.0
MESJ	BZ	2895	138	IAMs_20		1714		41.96		1190	20.2				
MORF	BZ	2933	139	EP		17	7	18.51	-.110						1.0
MORF	BZ	2933	139	IAMs_20		1715		1.99		1509	24.5				

**October 5 2019 Hour: 18:34 13.8 Lat: 37.32N Lon: 8.60W Depth: 11F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs**

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	250	EP		1834		15.61	-.190						1.0
MORF	HE	5	250	ES		1834		17.23	-.060						1.0
MORF	HN	5	250	IAML		1834		17.95		158	0.1				
MESJ	HZ	67	30	EP		1834		24.730	.110						1.0
MESJ	HN	67	30	ES		1834		32.680	.150						1.0
MESJ	HN	67	30	IAML		1834		35.69		5	0.1				

October 6 2019 Hour: 10:15 22.0 Lat: 34.52N Lon: 5.64W Depth: 8F Agency: IGL Regional
Rms: 0.0 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	435	329	EP		1016	20.710	.000							1.0

October 6 2019 Hour: 10:40 56.5 Lat: 21.99S Lon: 68.51W Depth: 118F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9074	44	EP		1053	1.360	.160							1.0
MORF	BZ	9074	44	IAMB		1053	2.56			46	1.2				1.0
MESJ	BZ	9139	44	EP		1053	4.09	-.140							1.0
MESJ	BZ	9139	44	IAMB		1053	5.86			21	0.7				1.0
MESJ	BZ	9139	44	EP		1053	34.19	-.020							1.0

October 6 2019 Hour: 13:56 57.8 Lat: 35.92N Lon: 15.78W Depth: 11F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	656	74	EP		1358	22.75	-.140							1.0
MORF	HN	656	74	ES		1359	25.01	-.000							1.0
MORF	HN	656	74	IAML		1359	28.32			11	0.2				1.0
MESJ	HZ	707	70	EP		1358	29.080	.100							1.0
MESJ	HN	707	70	ES		1359	35.610	.050							1.0
MESJ	HN	707	70	IAML		1359	39.20			3	0.2				1.0

October 7 2019 Hour: 1:56 27.9 Lat: 37.47N Lon: 16.23W Depth: 20F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	671	89	EP		157	53.96	-.080							1.0
MORF	HE	671	89	ES		158	57.090	.170							1.0
MORF	HE	671	89	IAML		159	1.02			9	0.4				1.0
MESJ	HN	708	84	ES		159	4.32	-.090							1.0
MESJ	HN	708	84	IAML		159	7.33			2	0.3				1.0

October 7 2019 Hour: 11: 7 6.9 Lat: 36.69N Lon: 9.70W Depth: 19F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	115	54	EP		11 7	24.85	-.080							1.0
MORF	HN	115	54	ES		11 7	38.250	.170							1.0
MORF	HN	115	54	IAML		11 7	39.08			4	0.1				1.0
MESJ	HZ	183	45	EP		11 7	33.20	-.090							1.0

October 7 2019 Hour: 13: 6 18.0 Lat: 36.31N Lon: 8.68W Depth: 14F 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	110	1	EP		13 6	35.37	-.080							1.0
MORF	HN	110	1	ES		13 6	48.360	.190							1.0
MORF	HN	110	1	IAML		13 6	49.82			47	0.1				1.0
MESJ	HZ	175	13	EP		13 6	43.62	-.160							1.0
MESJ	HN	175	13	ES		13 7	2.610	.040							1.0
MESJ	HE	175	13	IAML		13 7	3.29			8	0.2				1.0

October 8 2019 Hour: 4:27 18.5 Lat: 37.10N Lon: 5.27W 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	274	288	EP		427	57.530	.100							1.0
MORF	HZ	301	275	EP		428	0.79	-.100							1.0

October 8 2019 Hour: 4:54 30.6 Lat: 37.12N Lon: 5.27W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	288	EP		455	9.760	.020							1.0
MORF	HZ	301	275	EP		455	13.25	-.020							1.0

October 8 2019 Hour: 5:17 11.7 Lat: 37.13N Lon: 5.26W Depth: 7F 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	273	288	EP		517	50.30	-.060							1.0
MORF	HZ	302	275	EP		517	53.970	.070							1.0

October 8 2019 Hour: 5:28 44.6 Lat: 37.16N Lon: 5.26W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	287	EP		529	23.750	.040							1.0
MORF	HZ	302	274	EP		529	27.33	-.040							1.0

October 8 2019 Hour: 6:0 22.6 Lat: 37.17N Lon: 5.27W Depth: 1 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	271	287	EP		6 1	1.770	.130							1.0
MORF	HZ	301	274	EP		6 1	5.17	-.130							1.0

October 8 2019 Hour: 6:12 9.5 Lat: 37.17N Lon: 5.27W Depth: 0 Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	271	287	EP		612	48.790	.150							1.0
MORF	HZ	300	274	EP		612	52.17	-.150							1.0

October 8 2019 Hour: 18:8 0.1 Lat: 37.07N Lon: 8.59W Depth: 23F 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	27	348	EP		18 8	5.28	-.100							1.0
MORF	HE	27	348	ES		18 8	9.17	-.070							1.0
MORF	HE	27	348	IAML		18 8	10.09			28	0.1				
MESJ	HZ	92	21	EP		18 8	14.880	.170							1.0
MESJ	HE	92	21	ES		18 8	25.380	.000							1.0
MESJ	HN	92	21	IAML		18 8	26.82			4	0.3				

October 8 2019 Hour: 19:48 17.9 Lat: 32.81N Lon: 5.68W Depth: 0 Agency: IGL Regional
Magnitudes: 3.5ML IGL Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	568	332	EP		1949	33.510	.040							1.0
MORF	HE	568	332	ES		1950	28.700	.040							1.0
MORF	HN	568	332	IAML		1950	36.50			71	0.2				
MESJ	HZ	604	338	EP		1949	37.76	-.080							1.0

October 8 2019 Hour: 21:52 29.9 Lat: 37.15N Lon: 5.27W 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		2153	8.96	-.010							1.0
MORF	HZ	300	274	EP		2153	12.580	.010							1.0

October 8 2019 Hour: 22: 1 10.0 Lat: 37.13N Lon: 5.26W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	288	EP		22 1	49.210	.000							1.0

October 8 2019 Hour: 22:25 12.8 Lat: 32.71N Lon: 5.64W Depth: 0 Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.2 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	579	333	EP		2226	29.62	-.140							1.0
MORF	HE	579	333	ES		2227	26.240	.330							1.0
MORF	HE	579	333	IAML		2227	29.19			29	0.2				
MESJ	HZ	615	338	EP		2226	33.94	-.210							1.0
MESJ	HN	615	338	ES		2227	33.520	.020							1.0
MESJ	HE	615	338	IAML		2227	38.81			9	0.3				

October 9 2019 Hour: 1:23 27.2 Lat: 36.55N Lon: 7.40W Depth: 13F 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	161	333	EP		123	51.19	-.140							1.0
MESJ	HN	161	333	ES		124	9.060	.140							1.0
MESJ	HN	161	333	IAML		124	11.35			3	0.1				

October 9 2019 Hour: 10:44 36.3 Lat: 36.50N Lon: 70.64E Depth: 202F Agency: IGL Distant
Magnitudes: 4.8Mb 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	6781	297	EP		1054	28.300	.010							1.0
MESJ	BZ	6781	297	IAMB		1054	29.30			22	1.0				

October 9 2019 Hour: 23:10 27.1 Lat: 36.82N Lon: 6.91W Depth: 40F 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
MESJ	HZ	162	315	EP		2310	50.170	.130							1.0
MESJ	HN	162	315	ES		2311	6.74	-.030							1.0
MESJ	HN	162	315	IAML		2311	8.17			12	0.1				
MORF	HE	164	290	ES		2311	7.14	-.100							1.0
MORF	HN	164	290	IAML		2311	8.24			17	0.2				

October 10 2019 Hour: 1:30 39.0 Lat: 36.84N Lon: 10.79W Depth: 28F 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	197	74	EP		131	6.530	.130							1.0
MORF	HN	197	74	ES		131	26.36	-.070							1.0
MORF	HN	197	74	IAML		131	27.20			8	0.2				
MESJ	HZ	253	63	EP		131	13.32	-.060							1.0

**October 11 2019 Hour: 12: 5 38.0 Lat: 36.82N Lon: 11.04W Depth: 29F 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	219	75	EP		12 6	8.05	-.100							1.0
MORF	HE	219	75	ES		12 6	30.300	.160							1.0
MORF	HN	219	75	IAML		12 6	32.56		8	0.1					
MESJ	HZ	274	65	EP		12 6	14.95	-.040							1.0
MESJ	HN	274	65	ES		12 6	41.95	-.020							1.0
MESJ	HN	274	65	IAML		12 6	43.88		4	0.3					

**October 11 2019 Hour: 14: 9 23.5 Lat: 36.55N Lon: 7.24W Depth: 11F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	167	329	EP		14 9	48.51	-.170							1.0
MESJ	HE	167	329	ES		1410	7.200	.170							1.0
MESJ	HN	167	329	IAML		1410	8.47		4	0.2					

**October 11 2019 Hour: 16: 6 48.6 Lat: 36.75N Lon: 7.21W Depth: 17F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	142	296	ES		16 7	25.76	-.080							1.0
MORF	HE	142	296	IAML		16 7	26.70		22	0.2					
MESJ	HZ	150	324	EP		16 7	11.320	.210							1.0
MESJ	HE	150	324	ES		16 7	27.39	-.130							1.0
MESJ	HN	150	324	IAML		16 7	30.21		7	0.2					

**October 11 2019 Hour: 22:32 9.3 Lat: 35.89N Lon: 6.51W Depth: 32F Agency: IGL Regional
Magnitudes: 3.1ML IGL Rms: 0.2 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	248	310	EP		2232	42.69	-.210							1.0
MORF	HN	248	310	ES		2233	7.35	-.050							1.0
MORF	HE	248	310	IAML		2233	12.59		170	0.1					
MESJ	HZ	265	325	EP		2232	45.220	.250							1.0
MESJ	HE	265	325	ES		2233	10.990	.010							1.0
MESJ	HN	265	325	IAML		2233	13.34		69	0.3					

**October 12 2019 Hour: 0:47 53.9 Lat: 37.32N Lon: 8.56W Depth: 11F Agency: IGL Regional
Magnitudes: 0.6ML 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	8	258	EP		047	56.21	-.040							1.0
MORF	HE	8	258	ES		047	57.970	.040							1.0
MORF	HN	8	258	IAML		047	58.37		31	0.1					

**October 12 2019 Hour: 11:30 2.7 Lat: 38.57N Lon: 8.03W Depth: 18F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs**

W EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	83	192	EP		1130	16.110	.140							1.0
MESJ	HN	83	192	ES		1130	25.740	.080							1.0
MESJ	HN	83	192	IAML		1130	27.20		6	0.1					
MORF	HZ	151	201	EP		1130	24.94	-.230							1.0

October 12 2019 Hour: 11:30 7.1 Lat: 38.57N Lon: 8.01W Depth: 19F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

W EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	83	193	EP		1130	20.610	.210							1.0
MESJ	HE	83	193	ES		1130	30.00	-.150							1.0
MESJ	HN	83	193	IAML		1130	30.88			12	0.1				
MORF	HZ	151	202	EP		1130	29.46	-.060							1.0

October 12 2019 Hour: 12:0 45.4 Lat: 36.06N Lon: 7.60W Depth: 29F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	167	326	EP		12 1	8.84	-.220							1.0
MORF	HN	167	326	ES		12 1	26.430	.090							1.0
MORF	HN	167	326	IAML		12 1	32.79			30	0.2				
MESJ	HZ	205	345	EP		12 1	13.880	.140							1.0
MESJ	HE	205	345	ES		12 1	34.43	-.010							1.0
MESJ	HN	205	345	IAML		12 1	36.11			9	0.2				

October 12 2019 Hour: 20:59 5.9 Lat: 36.53N Lon: 7.54W Depth: 14F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	131	311	EP		2059	26.01	-.270							1.0
MESJ	HZ	157	338	EP		2059	29.740	.240							1.0
MESJ	HE	157	338	ES		2059	46.770	.040							1.0
MESJ	HN	157	338	IAML		2059	47.49			3	0.2				

October 12 2019 Hour: 23:26 56.1 Lat: 36.49N Lon: 7.66W Depth: 30F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	126	316	EP		2327	14.53	-.150							1.0
MESJ	HZ	158	342	EP		2327	18.660	.120							1.0
MESJ	HN	158	342	ES		2327	34.950	.040							1.0
MESJ	HN	158	342	IAML		2327	36.81			30	0.1				

October 13 2019 Hour: 2:45 16.4 Lat: 33.81N Lon: 13.41W Depth: 16F Agency: IGL Regional
Magnitudes: 2.4ML 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	580	47	EP		246	31.990	.120							1.0
MORF	HE	580	47	ES		247	26.76	-.180							1.0
MORF	HN	580	47	IAML		247	29.76			12	0.3				
MESJ	HZ	648	45	EP		246	40.100	.030							1.0
MESJ	HN	648	45	ES		247	41.160	.030							1.0
MESJ	HN	648	45	IAML		247	44.81			2	0.1				

October 13 2019 Hour: 4:17 4.8 Lat: 37.15N Lon: 5.28W Depth: 0 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	271	287	EP		417	43.860	.000							1.0

October 13 2019 Hour: 12:13 31.6 Lat: 36.75N Lon: 8.44W Depth: 18F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	64	343	EP		1213	42.290	.190							1.0
MORF	HE	64	343	ES		1213	49.77	-.020							1.0
MORF	HE	64	343	IAML		1213	51.68			69	0.1				
MESJ	HN	122	9	ES		1214	4.12	-.190							1.0

MESJ HE 122 9 IAML 1214 5.57 3 0.1

**October 13 2019 Hour: 13:28 46.4 Lat: 36.55N Lon: 7.64W Depth: 13F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	313	EP		1329	5.63	-.100							1.0
MESJ	HZ	152	340	EP		1329	9.660	.240							1.0
MESJ	HN	152	340	ES		1329	26.09	-.140							1.0
MESJ	HN	152	340	IAML		1329	27.41			16	0.1				

**October 13 2019 Hour: 18:19 59.1 Lat: 35.71N Lon: 4.70W Depth: 29F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs**

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	394	308	EP		1820	50.900	.060							1.0
MESJ	HN	394	308	ES		1821	28.58	-.050							1.0
MESJ	HN	394	308	IAML		1821	31.19			2	0.2				
MORF	HZ	396	298	EP		1820	51.17	-.010							1.0

**October 14 2019 Hour: 18:20 35.9 Lat: 38.73N Lon: 11.25W Depth: 30F Agency: IGL Regional
Magnitudes: 2.2ML 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
MORF	HZ	278	124	EP		1821	13.13	-.150							1.0
MORF	HN	278	124	ES		1821	40.610	.070							1.0
MORF	HN	278	124	IAML		1821	45.06			22	0.2				
MESJ	HZ	283	109	EP		1821	13.970	.060							1.0
MESJ	HE	283	109	ES		1821	41.670	.030							1.0
MESJ	HE	283	109	IAML		1821	45.42			5	0.1				

**October 14 2019 Hour: 22:23 51.7 Lat: 4.53S Lon: 101.15E Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs**

SOUTHERN SUMATRA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12027	308	EPP			2242	41.82	-.030							1.0
MESJ	BE12027	308	ESS			2257	56.55	-.080							1.0
MESJ	BZ12027	308	IAMs_20			2334	23.69			2460	13.3				
MORF	BZ12074	308	EPP			2242	44.96	-.000							1.0
MORF	BZ12074	308	IAMs_20			2328	37.90			3197	26.4				
GGNV	BZ12092	309	EPP			2242	46.220	.110							1.0
GGNV	BN12092	309	IAMs_20			2331	28.05			3898	10.1				

**October 15 2019 Hour: 3:55 34.6 Lat: 37.33N Lon: 8.56W Depth: 20F 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	251	EP		355	38.07	-.010							1.0
MORF	HE	9	251	ES		355	40.650	.010							1.0
MORF	HE	9	251	IAML		355	41.14			14	0.1				

**October 15 2019 Hour: 5:50 37.5 Lat: 37.98N Lon: 14.26W Depth: 31F Agency: IGL Regional
Magnitudes: 3.3ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	454	78	EP		551	35.77	0.08							1.0
GGNV	HE	454	78	ES		552	18.17	0.03							1.0
GGNV	HN	454	78	IAML		552	26.87			145	0.3				
MORF	HZ	500	97	EP		551	41.36	0.01							1.0
MORF	HN	500	97	ES		552	27.67	-0.27							1.0
MORF	HN	500	97	IAML		552	32.55			46	0.2				
MESJ	HZ	531	90	EP		551	45.22	0.16							1.0
MESJ	HN	531	90	ES		552	34.33	-0.02							1.0
MESJ	HN	531	90	IAML		552	38.47			22	0.1				

October 15 2019 Hour: 23:56 43.2 Lat: 36.90N Lon: 8.66W Depth: 20F Agency: IGL Regional
Magnitudes: 0.3ML 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	45	1	EP		2356	51.05	0.070							1.0
MORF	HN	45	1	ES		2356	56.57	-.070							1.0
MORF	HN	45	1	IAML		2356	57.11			2	0.0				

October 16 2019 Hour: 4:20 34.9 Lat: 38.70N Lon: 9.73W Depth: 30F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs
W CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	163	125	EP		420	57.87	-.050							1.0
MESJ	HN	163	125	ES		421	14.72	-.030							1.0
MESJ	HE	163	125	IAML		421	16.62			1	0.1				
MORF	HZ	182	148	EP		421	0.11	-.130							1.0
MORF	HE	182	148	ES		421	19.00	0.220							1.0
MORF	HE	182	148	IAML		421	20.45			4	0.1				

October 16 2019 Hour: 9:16 46.3 Lat: 36.43N Lon: 11.21W Depth: 33F Agency: IGL Regional
Magnitudes: 2.1ML 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	248	66	EP		917	19.95	0.060							1.0
MORF	HE	248	66	ES		917	44.34	-.050							1.0
MORF	HN	248	66	IAML		917	46.64			18	0.2				
MESJ	HN	308	59	ES		917	57.31	-.020							1.0
MESJ	HN	308	59	IAML		917	59.58			5	0.3				

October 16 2019 Hour: 11:37 6.2 Lat: 6.71N Lon: 125.00E Depth: 14F Agency: IGL Distant
Magnitudes: 6.4Ms 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	BZ13	122	319	EPP		1157	5.91	0.020							1.0
MESJ	BN13	122	319	IAMs_20		1237	17.11			13330	32.2				
MORF	HZ13	187	319	EPP		1157	10.01	-.020							1.0
MORF	HN13	187	319	IAMs_20		1235	56.93			27624	49.2				

October 16 2019 Hour: 18:13 32.1 Lat: 38.87N Lon: 8.65W Depth: 9F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs
SW CORUCHE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	120	162	EP		1813	51.25	0.050							1.0
MESJ	HE	120	162	ES		1814	5.09	-.050							1.0
MESJ	HE	120	162	IAML		1814	6.22			3	0.1				

October 17 2019 Hour: 5: 6 45.7 Lat: 35.99N Lon: 10.46W Depth: 38F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	218	47	EP		5 7	15.52	-.010							1.0
MORF	HN	218	47	ES		5 7	37.27	-.040							1.0
MORF	HN	218	47	IAML		5 7	38.87			42	0.2				
MESJ	HZ	286	44	EP		5 7	24.08	0.070							1.0
MESJ	HN	286	44	ES		5 7	51.96	-.030							1.0
MESJ	HE	286	44	IAML		5 7	53.81			6	0.1				

October 17 2019 Hour: 13:49 45.7 Lat: 38.13N Lon: 8.09W Depth: 4F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

NE FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	34	200	EP		1349	51.26	-.000							1.0
MESJ	HN	34	200	ES		1349	55.28	-.040							1.0
MESJ	HN	34	200	IAML		1349	55.41			26	0.3				
MORF	HZ	104	209	EP		1350	2.570	.040							1.0

October 17 2019 Hour: 22:46 20.1 Lat: 36.92N Lon: 5.02W Depth: 0 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	301	291	EP		2247	2.91	-.050							1.0
MORF	HZ	326	279	EP		2247	6.070	.050							1.0

October 18 2019 Hour: 0:58 30.8 Lat: 66.29N Lon: 157.27W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

NORTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8158	25	EP		110	3.080	.080							1.0
MESJ	BZ	8158	25	IAmb		110	7.57			21	1.1				
MORF	HZ	8208	26	EP		110	5.61	-.080							1.0
MORF	HZ	8208	26	IAmb		110	13.82			93	1.5				

October 18 2019 Hour: 5:47 20.9 Lat: 37.19N Lon: 8.56W Depth: 20F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

N PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	327	EP		547	24.89	-.040							1.0
MORF	HN	15	327	ES		547	28.020	.160							1.0
MORF	HN	15	327	IAML		547	29.07			323	0.1				
MESJ	HZ	78	23	EP		547	33.49	-.030							1.0
MESJ	HE	78	23	ES		547	42.63	-.100							1.0
MESJ	HE	78	23	IAML		547	43.44			129	0.2				

October 18 2019 Hour: 7:52 57.2 Lat: 37.29N Lon: 8.53W Depth: 5F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	278	EP		752	58.98	-.190							1.0
MORF	HN	11	278	ES		753	0.750	.130							1.0
MORF	HN	11	278	IAML		753	1.28			35	0.1				
MESJ	HZ	67	24	EP		753	8.050	.050							1.0

October 18 2019 Hour: 13:9 0.6 Lat: 66.37N Lon: 157.47W Depth: 0 Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

NORTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8204	25	EP		1320	36.88	-.010							1.0
MORF	BZ	8204	25	IAmb		1320	37.89			68	1.2				

October 18 2019 Hour: 15:54 11.4 Lat: 35.31N Lon: 1.12W Depth: 1 Agency: IGL Regional
Rms: 0.0 secs

NORTHERN ALGERIA Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	694	296	EP		1555	42.120	.020							1.0
MORF	HZ	711	290	EP		1555	44.16	-.020							1.0

October 18 2019 Hour: 20:15 43.6 Lat: 36.97N Lon: 8.76W Depth: 21F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	38	14	EP		2015	50.42	-.060							1.0
MORF	HE	38	14	ES		2015	55.570	.060							1.0
MORF	HE	38	14	IAML		2015	56.79			4	0.1				

October 18 2019 Hour: 21:20 53.4 Lat: 36.86N Lon: 10.68W Depth: 30F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	187	74	EP		2121	19.38	-.130							1.0
MORF	HN	187	74	ES		2121	38.650	.120							1.0
MORF	HE	187	74	IAML		2121	39.67			27	0.2				
MESJ	HZ	244	63	EP		2121	26.40	-.120							1.0
MESJ	HN	244	63	ES		2121	50.780	.120							1.0
MESJ	HN	244	63	IAML		2121	53.58			3	0.2				

October 19 2019 Hour: 5:31 14.7 Lat: 36.67N Lon: 7.54W Depth: 22F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	143	335	EP		531	35.850	.040							1.0
MESJ	HN	143	335	ES		531	51.21	-.040							1.0
MESJ	HN	143	335	IAML		531	53.67			3	0.1				

October 19 2019 Hour: 16:10 18.3 Lat: 35.24N Lon: 1.09W Depth: 29F Agency: IGL Regional
Rms: 0.1 secs

NORTHERN ALGERIA Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	701	296	EP		1611	47.250	.140							1.0
MORF	HZ	717	291	EP		1611	48.95	-.140							1.0

October 19 2019 Hour: 19: 4 7.7 Lat: 36.76N Lon: 7.08W Depth: 20F 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	320	EP		19 4	30.62	-.040							1.0
MESJ	HE	157	320	ES		19 4	47.500	.040							1.0
MESJ	HE	157	320	IAML		19 4	48.93			1	0.1				

October 20 2019 Hour: 9:41 4.3 Lat: 36.26N Lon: 8.40W Depth: 4F 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	118	349	EP		941	23.22	-.070							1.0
MORF	HN	118	349	ES		941	37.410	.240							1.0
MORF	HE	118	349	ES		941	37.71								
MORF	HN	118	349	IAML		941	39.10			7	0.2				
MESJ	HZ	176	5	EP		941	31.04	-.140							1.0
MESJ	HN	176	5	ES		941	50.79	-.040							1.0
MESJ	HN	176	5	IAML		941	52.62			1	0.1				

October 20 2019 Hour: 9:54 19.1 Lat: 39.36N Lon: 11.64W Depth: 31F Agency: IGL Regional
Magnitudes: 1.6ML 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	343	118	EP		955	3.850	.180							1.0
MESJ	HN	343	118	ES		955	36.01	-.210							1.0
MESJ	HN	343	118	IAML		955	39.19			2	0.1				
MORF	HZ	347	130	EP		955	4.280	.030							1.0

October 20 2019 Hour: 18:40 25.8 Lat: 36.25N Lon: 9.91W Depth: 36F 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	162	43	EP		1840	48.790	.020							1.0
MORF	HE	162	43	ES		1841	5.530	.020							1.0
MORF	HE	162	43	IAML		1841	7.72			8	0.2				
MESJ	HZ	232	40	EP		1840	57.34	-.050							1.0
MESJ	HE	232	40	ES		1841	20.430	.010							1.0
MESJ	HE	232	40	IAML		1841	22.21			1.00	0.1				

October 20 2019 Hour: 22:12 39.9 Lat: 36.88N Lon: 8.84W Depth: 29F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	50	19	EP		2212	48.68	-.070							1.0
MORF	HE	50	19	ES		2212	55.290	.070							1.0
MORF	HN	50	19	IAML		2212	56.12			2	0.1				

October 21 2019 Hour: 2:52 28.9 Lat: 19.04S Lon: 169.45E Depth:226FAgency: 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	BZ17845	357	EPK	Pdf		312	0.60	-.020							1.0
GGNV	BZ17845	357	EPK	Pab		312	43.17	-.110							1.0
GGNV	BZ17845	357	EPP			316	26.480	.170							1.0
MESJ	BZ17934	354	EPK	Pdf		312	1.610	.080							1.0
MESJ	BZ17934	354	EPK	Pab		312	46.70	-.140							1.0
MESJ	BZ17934	354	EPP			316	30.720	.090							1.0
MORF	HZ17997	355	EPK	Pdf		312	2.04	-.150							1.0
MORF	HZ17997	355	EPK	Pab		312	49.26	-.140							1.0
MORF	HZ17997	355	EPP			316	33.930	.230							0.9

October 21 2019 Hour: 10:14 22.4 Lat: 36.58N Lon: 7.60W Depth: 15F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	150	339	EP		1014	45.050	.010							1.0
MESJ	HE	150	339	ES		1015	1.55	-.010							1.0
MESJ	HE	150	339	IAML		1015	3.64			3	0.1				

October 21 2019 Hour: 10:43 35.8 Lat: 20.73S Lon: 179.03W Depth:631FAgency: IGL Distant
Rms: 0.5 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17935	23	EPK	Pdf		11 2	25.310	.560							1.0
MESJ	BZ17935	23	EPK	Pab		11 3	12.70	-.620							1.0
MORF	BZ17969	25	EPK	Pdf		11 2	25.720	.590							1.0
MORF	BZ17969	25	EPK	Pab		11 3	14.20	-.530							1.0

October 21 2019 Hour: 10:58 52.7 Lat: 27.21N Lon: 54.98E Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

SOUTHERN IRAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5944	298	EP		11 8	12.80	-.010							1.0
MESJ	BZ	5944	298	IAMB		11 8	20.64			15	0.8				
MESJ	BN	5944	298	ES		1115	46.01	-.080							1.0
MORF	BZ	5991	298	EP		11 8	16.010	.070							1.0
MORF	BZ	5991	298	IAMB		11 8	16.87			27	0.8				
GGNV	BZ	6011	300	EP		11 8	17.180	.020							1.0
GGNV	BZ	6011	300	IAMB		11 8	18.92			122	1.1				

October 21 2019 Hour: 13:55 11.4 Lat: 37.31N Lon: 8.60W Depth: 11F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		5	262	EP		1355	13.32							1.0
MORF	HE		5	262	ES		1355	14.92							1.0
MORF	HN		5	262	IAML		1355	15.55			30		0.1		

October 21 2019 Hour: 20:31 19.2 Lat: 36.41N Lon: 8.07W Depth: 32F 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		112	333	EP		2031	35.96							1.0
MORF	HN		112	333	ES		2031	47.90							1.0
MORF	HE		112	333	IAML		2031	49.40			8		0.3		
MESJ	HZ		159	355	EP		2031	41.89							1.0
MESJ	HE		159	355	ES		2031	58.09							1.0
MESJ	HN		159	355	IAML		2031	59.44			2		0.2		

October 22 2019 Hour: 1:15 34.3 Lat: 38.08N Lon: 9.05W Depth: 9F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ		78	110	EP		115	46.80							1.0
MESJ	HN		78	110	ES		115	56.31							1.0
MESJ	HE		78	110	IAML		115	58.15			1		0.1		
MORF	HE		93	158	ES		116	0.03							1.0
MORF	HE		93	158	IAML		116	1.38			2		0.1		

October 22 2019 Hour: 1:25 0.5 Lat: 38.37N Lon: 7.29W Depth: 0 Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SE MOURAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ		101	234	EP		125	16.75							1.0
MESJ	HN		101	234	ES		125	28.47							1.0
MESJ	HN		101	234	IAML		125	29.72			2		0.1		

October 22 2019 Hour: 3:1 23.4 Lat: 37.23N Lon: 8.63W Depth: 21F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		8	346	EP		3	1	26.90						1.0
MORF	HN		8	346	ES		3	1	29.61						1.0
MORF	HN		8	346	IAML		3	1	29.89			4		0.1	
MESJ	HZ		77	28	EP		3	1	35.84						1.0
MESJ	HN		77	28	ES		3	1	44.97						1.0
MESJ	HN		77	28	IAML		3	1	45.72			3		0.2	

October 22 2019 Hour: 3:56 32.8 Lat: 38.25N Lon: 8.34W Depth: 1F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

SE ALCACER DO SAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ		47	167	EP		356	40.48							1.0
MESJ	HN		47	167	ES		356	45.80							1.0
MESJ	HN		47	167	IAML		356	46.93			3		0.1		

October 22 2019 Hour: 4:18 38.6 Lat: 15.20S Lon: 173.05W Depth: 10F Agency: IGL Distant
Magnitudes: 6.2Ms 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	BZ16986		28	EPKp _{df}		438	27.70	0.090							1.0
GGNV	BE16986		28	IAM _s 20		539	57.82				5757	25.0			
MESJ	BZ17112		28	EPKp _{df}		438	29.25	-.040							1.0

MESJ BZ17112 28 IAMS_20 541 6.03 4381 20.6
MORF BZ17138 29 EPKp \bar{f} 438 29.62-.050 1.0
MORF BZ17138 29 IAMS_20 541 33.57 3904 23.3

**October 22 2019 Hour: 4:48 23.6 Lat: 36.94N Lon: 11.00W Depth: 15F 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	212	78	EP		448	54.01	-.020							1.0
MORF	HN	212	78	ES		449	16.250	.020							1.0
MORF	HE	212	78	IAML		449	17.42		5	0.2					

**October 22 2019 Hour: 7:31 8.7 Lat: 37.19N Lon: 8.56W Depth: 12F Agency: IGL Regional
Magnitudes: 1.2ML 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	15	327	EP		731	11.78	-.120							1.0
MORF	HE	15	327	ES		731	14.17	-.040							1.0
MORF	HE	15	327	IAML		731	15.56		37	0.1					
MESJ	HZ	78	23	EP		731	21.19	-.050							1.0
MESJ	HE	78	23	ES		731	30.580	.210							1.0
MESJ	HN	78	23	IAML		731	32.45		13	0.1					

**October 22 2019 Hour: 13:48 41.0 Lat: 36.79N Lon: 7.06W Depth: 31F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	153	292	EP		1349	1.95	-.060							1.0
MORF	HN	153	292	ES		1349	17.420	.060							1.0
MORF	HN	153	292	IAML		1349	18.95		7	0.1					

**October 23 2019 Hour: 4:42 22.5 Lat: 36.72N Lon: 9.63W Depth: 20F 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	108	53	EP		442	39.44	-.100							1.0
MORF	HE	108	53	ES		442	51.98	-.000							1.0
MORF	HN	108	53	IAML		442	54.26		16	0.2					
MESJ	HZ	176	45	EP		442	47.86	-.070							1.0
MESJ	HE	176	45	ES		443	6.670	.180							1.0
MESJ	HN	176	45	IAML		443	8.41		3	0.2					

**October 23 2019 Hour: 6:43 33.1 Lat: 36.56N Lon: 9.71W Depth: 14F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	48	EP		643	52.64	-.090							1.0
MORF	HN	125	48	ES		644	7.250	.180							1.0
MORF	HN	125	48	IAML		644	7.67		5	0.2					
MESJ	HN	194	43	ES		644	21.70	-.100							1.0
MESJ	HN	194	43	IAML		644	23.96		3	0.3					

**October 23 2019 Hour: 16: 8 14.4 Lat: 1.05S Lon: 13.83W Depth: 10F Agency: IGL Distant
Magnitudes: 6.2Ms 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
MORF	BZ	4281	7	EP		1615	36.66	-.080							1.0
MORF	BZ	4281	7	EPP		1617	4.41	-.050							1.0
MORF	BE	4281	7	ES		1621	33.240	.040							1.0
MORF	BN	4281	7	IAMS_20		1629	53.64		38912	19.9					
MESJ	BZ	4346	7	EP		1615	41.32	-.230							1.0
MESJ	BZ	4346	7	EPP		1617	10.950	.190							1.0
MESJ	BE	4346	7	ES		1621	41.78	-.070							1.0
MESJ	BZ	4346	7	IAMS_20		1631	41.10		27107	17.7					

GGNV BZ 4431	6 EP	1615	47.82-.070															1.0
GGNV BZ 4431	6 EPP	1617	19.170.100															1.0
GGNV BN 4431	6 ES	1621	53.450.190															1.0
GGNV BN 4431	6 IAMS_20	1631	14.94							57149	21.8							

October 23 2019 Hour: 23:44 43.7 Lat: 37.07N Lon: 5.34W Depth: 3F Agency: IGL Regional Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	269	289	EP		2345	22.31-.000								1.0

October 24 2019 Hour: 17:46 29.3 Lat: 36.53N Lon: 7.71W Depth: 31F Agency: IGL Regional Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	120	316	EP		1746	46.28-.030								1.0
MORF	HN	120	316	ES		1746	58.62-.080								1.0
MORF	HE	120	316	IAML		1747	0.21			14	0.1				
MESJ	HZ	152	343	EP		1746	50.340.090								1.0
MESJ	HN	152	343	ES		1747	5.550.020								1.0
MESJ	HN	152	343	IAML		1747	7.96			8	0.1				

October 24 2019 Hour: 19:14 19.1 Lat: 28.63S Lon: 177.00W Depth: 82F 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	BZ18562	43	EP			1934	14.58-.040								1.0
MORF	BZ18571	46	EP			1934	14.780.040								1.0

October 24 2019 Hour: 21: 6 45.8 Lat: 36.37N Lon: 28.72E Depth: 10F Agency: IGL Distant Rms: 0.0 secs

DODECANESE ISLANDS-TURKEY BORDER REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ 3267	284	EP			2112	49.140.010								1.0
MESJ	BZ 3267	284	IAMB			2112	49.73			7	1.0				

October 25 2019 Hour: 3: 9 7.6 Lat: 36.98N Lon: 5.28W Depth: 0 Agency: IGL Regional Rms: 0.2 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	277	291	EP		3 9	47.40-.070								1.0
MORF	HZ	302	278	EP		3 9	50.38-.180								1.0
MORF	HE	302	278	ES		310	22.170.250								1.0
MORF	HN	302	278	IAML		310	25.59			55	0.2				

October 25 2019 Hour: 3:44 2.0 Lat: 36.99N Lon: 5.31W Depth: 0 Agency: IGL Regional Rms: 0.2 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		344	41.49-.090								1.0
MORF	HZ	299	278	EP		344	44.47-.220								1.0
MORF	HE	299	278	ES		345	16.130.310								1.0
MORF	HN	299	278	IAML		345	19.89			29	0.3				

October 25 2019 Hour: 4: 0 25.4 Lat: 37.02N Lon: 5.30W Depth: 3F Agency: IGL Regional Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	290	EP		4 1	4.550.000								1.0

October 25 2019 Hour: 4: 6 43.2 Lat: 36.96N Lon: 5.29W Depth: 0 Agency: IGL Regional
Magnitudes: 3.2ML IGL Rms: 0.1 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	277	291	EP		4	7	23.160							1.0
MORF	HZ	301	278	EP		4	7	25.95							1.0
MORF	HE	301	278	ES		4	7	57.500							1.0
MORF	HN	301	278	IAML		4	8	1.64			97		0.3		

October 25 2019 Hour: 4:10 2.3 Lat: 37.05N Lon: 5.32W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	271	290	EP		410		41.25							1.0

October 25 2019 Hour: 4:20 2.8 Lat: 36.97N Lon: 5.34W Depth: 0 Agency: IGL Regional
Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	292	EP		420		42.140							1.0
MORF	HZ	297	278	EP		420		45.15							1.0

October 25 2019 Hour: 4:24 12.6 Lat: 37.02N Lon: 5.32W Depth: 5F Agency: IGL Regional
Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	290	EP		424		51.400							1.0
MORF	HZ	298	277	EP		424		54.55							1.0

October 25 2019 Hour: 7:26 9.0 Lat: 36.57N Lon: 7.71W Depth: 26F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	148	342	EP		726		30.47							1.0
MESJ	HN	148	342	ES		726		46.200							1.0
MESJ	HE	148	342	IAML		726		47.78			8		0.1		

October 25 2019 Hour: 7:42 42.3 Lat: 37.01N Lon: 5.28W Depth: 4F Agency: IGL Regional
Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	276	290	EP		743		21.670							1.0

October 25 2019 Hour: 8:32 47.9 Lat: 36.98N Lon: 5.32W Depth: 5F Agency: IGL Regional
Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	274	291	EP		833		26.94							1.0

October 25 2019 Hour: 9:35 48.8 Lat: 37.01N Lon: 5.27W Depth: 0 Agency: IGL Regional
Magnitudes: 4.1ML IGL Rms: 0.2 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	277	290	EP		936		28.860							1.0
MESJ	HE	277	290	ES		936		57.65							1.0
MESJ	HN	277	290	IAML		937		16.29			539		0.2		
MORF	HZ	302	277	EP		936		31.47							1.0
MORF	HN	302	277	ES		937		3.210							1.0
MORF	HN	302	277	IAML		937		18.21			1382		0.2		

October 26 2019 Hour: 0:41 25.3 Lat: 52.34N Lon: 170.19W Depth: 35F Agency: IGL Distant
Magnitudes: 5.5Ms 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	BZ	9868	14	EP		054	15.07	-.030							1.0
MESJ	BZ	9868	14	IAMs_20		134	26.35			1859	17.9				
MORF	BZ	9919	15	EP		054	17.34	0.030							1.0
MORF	BZ	9919	15	IAMs_20		129	39.46			2364	26.0				

October 26 2019 Hour: 10:47 55.5 Lat: 38.94N Lon: 8.75W Depth: 4F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

SE BENAVENTE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	131	159	EP		1048	16.54	0.130							1.0
MESJ	HN	131	159	ES		1048	31.54	-.130							1.0
MESJ	HE	131	159	IAML		1048	34.03			2	0.2				

October 26 2019 Hour: 18:9 48.9 Lat: 37.03N Lon: 5.30W Depth: 6F Agency: IGL Regional
Magnitudes: 0.8ML 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	274	290	EP		1810	27.72	-.050							1.0
MORF	HZ	300	277	EP		1810	31.04	0.050							1.0

October 26 2019 Hour: 19:45 45.0 Lat: 37.01N Lon: 5.32W Depth: 6F Agency: IGL Regional
Magnitudes: 0.8ML 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	273	290	EP		1946	23.73	-.000							1.0

October 27 2019 Hour: 0:51 36.0 Lat: 36.12N Lon: 10.46W Depth: 25F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	208	50	EP		052	5.08	0.000							1.0
MORF	HN	208	50	ES		052	26.42	0.140							1.0
MORF	HN	208	50	IAML		052	29.33			24	0.2				
MESJ	HZ	276	46	EP		052	13.32	-.150							1.0
MESJ	HE	276	46	ES		052	40.79	-.010							1.0
MESJ	HN	276	46	IAML		052	43.71			8	0.1				

October 27 2019 Hour: 4:31 4.4 Lat: 37.45N Lon: 9.19W Depth: 30F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	50	109	EP		431	13.39	0.020							1.0
MORF	HN	50	109	ES		431	19.95	0.030							1.0
MORF	HN	50	109	IAML		431	20.94			39	0.2				
MESJ	HZ	96	63	EP		431	19.04	-.090							1.0
MESJ	HN	96	63	ES		431	29.92	0.040							1.0

October 27 2019 Hour: 7:18 17.1 Lat: 37.40N Lon: 9.22W Depth: 28F Agency: IGL Regional
Magnitudes: 0.9ML 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	51	102	EP		718	26.23	0.070							1.0
MORF	HE	51	102	ES		718	32.66	-.070							1.0
MORF	HE	51	102	IAML		718	33.11			7	0.1				

October 27 2019 Hour: 7:36 44.3 Lat: 37.46N Lon: 9.19W Depth: 29F Agency: IGL Regional
Magnitudes: 1.9ML 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	51	110	EP		736	53.19	-.070							1.0
MORF	HE	51	110	ES		736	59.880	.070							1.0
MORF	HN	51	110	IAML		737	1.00			63	0.2				

October 27 2019 Hour: 13:10 21.1 Lat: 36.04N Lon: 4.64W Depth: 28F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	376	303	EP		1311	10.950	.170							1.0
MESJ	HN	376	303	ES		1311	47.02	-.030							1.0
MESJ	HN	376	303	IAML		1311	49.14			4	0.2				
MORF	HZ	385	293	EP		1311	11.71	-.200							1.0
MORF	HE	385	293	ES		1311	49.060	.050							1.0
MORF	HN	385	293	IAML		1311	50.68			5	0.2				

October 27 2019 Hour: 17:56 49.0 Lat: 35.06N Lon: 102.66E Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.0 secs
GANSU-QINGHAI BORDER REGION, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9255	312	EP		18 9	15.830	.010							1.0
MESJ	BZ	9255	312	IAMB		18 9	19.30			17	0.7				
MORF	BZ	9323	312	EP		18 9	18.97	-.010							1.0
MORF	BZ	9323	312	IAMB		18 9	20.65			67	1.5				

October 27 2019 Hour: 22:38 42.7 Lat: 36.43N Lon: 9.06W Depth: 12F 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	104	20	EP		2238	59.01	-.090							1.0
MORF	HN	104	20	ES		2239	11.160	.090							1.0
MORF	HN	104	20	IAML		2239	12.70			4	0.1				

October 28 2019 Hour: 11:0 28.2 Lat: 35.57N Lon: 6.21W Depth: 41F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	292	312	EP		11 1	7.02	-.200							1.0
MESJ	HZ	309	325	EP		11 1	9.470	.130							1.0
MESJ	HN	309	325	ES		11 1	39.450	.080							1.0
MESJ	HN	309	325	IAML		11 1	43.17			23	0.3				

October 28 2019 Hour: 12:6 3.5 Lat: 36.79N Lon: 7.93W Depth: 2F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	86	312	EP		12 6	17.340	.020							1.0
MORF	HE	86	312	ES		12 6	27.550	.100							1.0
MORF	HE	86	312	IAML		12 6	29.72			46	0.2				
MESJ	HZ	119	348	EP		12 6	22.59	-.100							1.0
MESJ	HE	119	348	ES		12 6	36.72	-.020							1.0
MESJ	HN	119	348	IAML		12 6	38.64			15	0.2				

October 28 2019 Hour: 12:54 34.3 Lat: 36.63N Lon: 9.77W Depth: 16F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	192	45	EP		1255	2.130	.080							1.0
MESJ	HN	192	45	ES		1255	22.23	-.080							1.0
MESJ	HN	192	45	IAML		1255	23.95			3	0.1				

October 29 2019 Hour: 1: 4 44.7 Lat: 6.80N Lon: 125.04E Depth: 15F Agency: IGL Distant
Magnitudes: 6.8Ms 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	BZ13117	319		EPKpdf		123	30.390	.010							1.0
MESJ	BZ13117	319		EPP		124	43.92	-.060							1.0
MESJ	BE13117	319		ESS		140	58.270	.050							1.0
MESJ	BN13117	319		IAMs_20		2 4	19.71		27928	37.9					
GGNV	BZ13126	321		EPP		124	44.40	-.130							1.0
GGNV	BE13126	321		IAMs_20		2 8	46.78		60723	28.7					
MORF	BZ13183	319		EPP		124	48.240	.120							1.0
MORF	BE13183	319		IAMs_20		210	39.62		30562	22.6					

October 29 2019 Hour: 4:22 40.7 Lat: 36.79N Lon: 8.89W Depth: 15F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	61	20	EP		422	50.730	.050							1.0
MORF	HN	61	20	ES		422	57.84	-.090							1.0
MORF	HN	61	20	IAML		422	59.06		12	0.3					
MESJ	HE	131	27	ES		423	15.740	.040							1.0
MESJ	HE	131	27	IAML		423	17.29		0.90	0.2					

October 29 2019 Hour: 8:44 9.7 Lat: 6.32S Lon: 154.81E Depth: 69F Agency: IGL Distant
Magnitudes: 0.9ML IGL Rms: 0.2 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16145	336		EPKP		9 3	38.18	-.270							1.0
MORF	BZ16216	336		EPKP		9 3	39.840	.270							1.0

October 29 2019 Hour: 21:48 41.8 Lat: 35.96N Lon: 7.62W Depth: 14F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	175	329	EP		2149	7.53	-.120							1.0
MESJ	HZ	215	346	EP		2149	12.700	.130							1.0
MESJ	HE	215	346	ES		2149	35.06	-.000							1.0
MESJ	HN	215	346	IAML		2149	36.95		2	0.2					

October 30 2019 Hour: 6:43 15.6 Lat: 36.55N Lon: 9.80W Depth: 13F 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	132	50	EP		643	36.230	.080							1.0
MORF	HE	132	50	ES		643	51.16	-.020							1.0
MORF	HN	132	50	IAML		643	52.80		11	0.1					
MESJ	HZ	200	44	EP		643	44.50	-.090							1.0
MESJ	HE	200	44	ES		644	5.810	.020							1.0
MESJ	HN	200	44	IAML		644	8.48		4	0.3					

October 30 2019 Hour: 7: 4 39.5 Lat: 33.77N Lon: 5.74W Depth: 58F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	473	327	EP		7 5	40.17	-.060							1.0
MORF	HN	473	327	ES		7 6	24.52	-.060							1.0
MORF	HN	473	327	IAML		7 6	30.52		5	0.1					
MESJ	HZ	504	334	EP		7 5	44.120	.120							1.0

October 30 2019 Hour: 9:33 37.0 Lat: 36.95N Lon: 8.74W Depth: 3F 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	40	11	EP		933	43.32	-.130							1.0
MORF	HN	40	11	ES		933	48.280	.090							1.0
MORF	HN	40	11	IAML		933	50.03			19	0.1				
MESJ	HZ	109	25	EP		933	54.44	-.100							1.0
MESJ	HN	109	25	ES		934	7.500	.130							1.0
MESJ	HN	109	25	IAML		934	8.61			4	0.3				

October 30 2019 Hour: 16:23 9.1 Lat: 36.75N Lon: 7.60W Depth: 28F 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	304	EP		1623	26.170	.150							1.0
MORF	HN	112	304	ES		1623	38.22	-.130							1.0
MORF	HN	112	304	IAML		1623	40.04			41	0.3				
MESJ	HZ	133	336	EP		1623	28.630	.070							1.0
MESJ	HN	133	336	ES		1623	42.67	-.090							1.0
MESJ	HN	133	336	IAML		1623	45.02			14	0.3				

October 30 2019 Hour: 19:18 15.7 Lat: 36.91N Lon: 8.60W Depth: 25F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	354	EP		1918	23.48	-.080							1.0
MORF	HE	44	354	ES		1918	29.400	.080							1.0
MORF	HE	44	354	IAML		1918	30.40			4	0.2				

October 30 2019 Hour: 21:30 15.3 Lat: 37.15N Lon: 9.79W Depth: 18F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	102	80	EP		2130	31.520	.020							1.0
MORF	HE	102	80	ES		2130	43.390	.030							1.0
MORF	HE	102	80	IAML		2130	46.00			15	0.1				
MESJ	HZ	159	61	EP		2130	38.57	-.090							1.0
MESJ	HN	159	61	ES		2130	55.770	.030							1.0
MESJ	HN	159	61	IAML		2130	57.22			1	0.1				

October 31 2019 Hour: 1:11 19.2 Lat: 6.91N Lon: 125.15E Depth: 10F Agency: IGL Distant
Magnitudes: 6.8Ms 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	BZ13116	319	EPK	Pdf		130	5.710	.030							1.0
MESJ	BZ13116	319	EPP			131	19.200	.030							1.0
MESJ	BE13116	319	ESS			147	33.85	-.050							1.0
MESJ	BZ13116	319	IAMs_20			224	26.33			19561	22.2				
GGNV	BZ13125	321	EPP			131	19.700	.010							1.0
GGNV	BE13125	321	IAMs_20			215	1.52			44196	32.9				
MORF	BZ13182	319	EPK	Pdf		130	6.74	-.120							1.0
MORF	BZ13182	319	EPP			131	23.370	.050							1.0
MORF	BE13182	319	ESS			147	41.690	.050							1.0
MORF	BE13182	319	IAMs_20			217	15.40			31343	30.1				

October 31 2019 Hour: 6:59 1.0 Lat: 38.89N Lon: 17.34E Depth: 20F Agency: IGL Distant
Magnitudes: 4.1Mb IGL Rms: 0.0 secs

SOUTHERN ITALY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2230	275	EP		7 3	32.870	.010							1.0
MESJ	BZ	2230	275	IAMB		7 3	33.99			7	0.7				

October 31 2019 Hour: 9:11 29.9 Lat: 37.07N Lon: 5.25W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	276	289	EP		912	9.480	.010							1.0
MORF	HZ	303	276	EP		912	12.83	-.010							1.0

October 31 2019 Hour: 13:26 57.6 Lat: 32.81N Lon: 5.51W Depth: 5F Agency: IGL Regional
Magnitudes: 2.3ML IGL
Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	575	331	EP		1328	13.650	.130							1.0
MORF	HN	575	331	ES		1329	8.85	-.090							1.0
MORF	HE	575	331	IAML		1329	11.83			7	0.3				
MESJ	HZ	609	337	EP		1328	17.740	.030							1.0
MESJ	HE	609	337	ES		1329	16.12	-.070							1.0
MESJ	HE	609	337	IAML		1329	20.09			2	0.2				

October 31 2019 Hour: 23:58 29.2 Lat: 36.75N Lon: 9.32W Depth: 31F Agency: IGL Regional
Magnitudes: 3.0ML 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	86	44	EP		2358	41.89	-.020							1.0
MORF	HE	86	44	ES		2358	51.280	.120							1.0
MORF	HE	86	44	IAML		2358	54.43			588	0.2				
MESJ	HZ	155	39	EP		2358	50.44	-.120							1.0
MESJ	HN	155	39	ES		2359	6.06	-.060							1.0
MESJ	HN	155	39	IAML		2359	8.82			63	0.2				
GGNV	HZ	219	4	EP		2358	58.38	-.040							0.9
GGNV	HN	219	4	ES		2359	19.830	.110							0.9
GGNV	HN	219	4	IAML		2359	22.42			211	0.3				