

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

November to December

2018

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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

November 1 2018 Hour: 0:25 45.3 Lat: 37.12N Lon: 7.92W Depth: 21F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

SW S. BRAS DE ALPORTEL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	68	288	EP		025	56.39	-.140							1.0
MESJ	HZ	84	342	EP		025	58.920	.040							1.0
MESJ	HN	84	342	ES		026	8.870	.100							1.0
MESJ	HN	84	342	IAML		026	10.20			23	0.2				

November 1 2018 Hour: 4:27 42.2 Lat: 40.33N Lon: 14.77W Depth: 23F Agency: IGL Regional
Magnitudes: 5.4ML IGL Rms: 0.6 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	515	109	EP		428	50.090	.710							1.0
GGNV	HE	515	109	ES		429	38.950	.520							1.0
GGNV	HN	515	109	IAML		429	41.72			23941	0.4				
MORF	HZ	628	120	EP		429	2.48	-.640							0.9
MORF	HN	628	120	ES		429	59.42	-2.79							0.0
MORF	HE	628	120	IAML		430	4.21			2505	0.3				
MESJ	HZ	630	114	EP		429	3.09	-.250							0.9
MESJ	HE	630	114	ES		430	2.07	-.510							0.9
MESJ	HN	630	114	IAML		430	6.76			2760	0.3				

November 1 2018 Hour: 5:14 56.9 Lat: 36.69N Lon: 7.35W Depth: 27F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	135	301	ES		515	31.07	-.020							1.0
MORF	HN	135	301	IAML		515	32.01			3	0.1				
MESJ	HZ	149	329	EP		515	18.450	.000							1.0
MESJ	HN	149	329	ES		515	34.180	.010							1.0
MESJ	HN	149	329	IAML		515	35.22			2	0.1				

November 1 2018 Hour: 15:6 49.9 Lat: 32.87N Lon: 10.80W Depth: 30F Agency: IGL Regional
Magnitudes: 2.5ML 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	530	21	EP		15 7	58.09	-.050							1.0
MORF	HE	530	21	ES		15 8	47.77	-.150							1.0
MORF	HE	530	21	IAML		15 8	49.20			10	0.1				
MESJ	HZ	599	22	EP		15 8	6.660	.110							1.0
MESJ	HE	599	22	ES		15 9	2.570	.100							1.0
MESJ	HN	599	22	IAML		15 9	4.70			6	0.3				

November 1 2018 Hour: 18:57 9.4 Lat: 31.12N Lon: 8.38W Depth: 43F Agency: IGL Regional
Magnitudes: 1.8ML 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	746	1	EP		1858	42.91	-.010							1.0
MESJ	HE	746	1	ES		1859	51.200	.010							1.0
MESJ	HE	746	1	IAML		1859	54.43			0.80	0.1				

November 1 2018 Hour: 21:24 43.5 Lat: 37.31N Lon: 8.59W Depth: 12F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.2 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	264	EP		2124	45.47	-.280							1.0
MORF	HE	6	264	ES		2124	47.520	.150							1.0
MORF	HN	6	264	IAML		2124	48.30			37	0.2				
MESJ	HZ	67	29	EP		2124	54.460	.070							1.0
MESJ	HE	67	29	ES		2125	2.390	.060							1.0
MESJ	HE	67	29	IAML		2125	3.03			1	0.1				

November 1 2018 Hour: 22:19 51.8 Lat: 19.59S Lon: 69.29W Depth:102F Agency: IGL Distant
Magnitudes: 6.0Mb IGL Rms: 0.1 secs

TARAPACA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8942	45	EP		2231	52.230	.240							1.0
MORF	BZ	8942	45	I Amb		2232	2.08			151	0.6				
MORF	BN	8942	45	ES		2241	50.05	-.030							1.0
GGNV	BZ	8993	43	EP		2231	54.17	-.170							1.0
GGNV	BZ	8993	43	I Amb		2232	4.49			166	0.6				
GGNV	BN	8993	43	ES		2241	54.62	-.060							1.0
MESJ	BZ	9007	45	EP		2231	55.080	.050							1.0
MESJ	BZ	9007	45	I Amb		2232	4.91			139	0.4				
MESJ	BN	9007	45	ES		2241	55.98	-.030							1.0

November 1 2018 Hour: 22:34 30.1 Lat: 35.42N Lon: 3.79W Depth: 4F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	479	305	EP		2235	34.23	-.180							1.0
MESJ	HN	479	305	ES		2236	21.35	-.030							1.0
MESJ	HN	479	305	I AML		2236	24.40			7	0.2				
MORF	HE	484	297	ES		2236	22.770	.210							1.0
MORF	HE	484	297	I AML		2236	26.40			23	0.3				

November 2 2018 Hour: 11:1 14.3 Lat: 47.82N Lon: 146.72E Depth:432F Agency: IGL Distant
Magnitudes: 5.9Mb IGL Rms: 0.0 secs

NORTHWEST OF KURIL ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10205	340	EP			1113	34.39	-.000							1.0
MESJ	BZ10205	340	I Amb			1113	35.82			152	1.3				
MORF	BZ10272	341	EP			1113	37.250	.000							1.0
MORF	BZ10272	341	I Amb			1113	38.23			167	1.3				

November 2 2018 Hour: 11:6 3.0 Lat: 57.28N Lon: 33.04W Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Ms IGL Rms: 0.0 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2697	130	EP		1111	20.17	-.030							1.0
GGNV	BZ	2697	130	I AMs_20		1117	42.73			7461	25.7				
MESJ	BZ	2823	129	EP		1111	30.49	-.030							1.0
MESJ	BZ	2823	129	I AMs_20		1118	30.09			6015	21.7				
MORF	BZ	2853	131	EP		1111	33.130	.070							1.0
MORF	BN	2853	131	EP		1111	33.16								
MORF	BZ	2853	131	I AMs_20		1118	23.30			5361	24.2				

November 2 2018 Hour: 13:18 44.5 Lat: 6.38S Lon: 153.44E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16088	335	EPKPdf			1338	20.51	-.040							1.0
MORF	BZ16159	335	EPKPdf			1338	21.720	.040							1.0

November 2 2018 Hour: 16:17 15.1 Lat: 37.75N Lon: 8.30W Depth: 6F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NW OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	12	35	EP		1617	17.23	-.070							1.0
MESJ	HN	12	35	ES		1617	18.980	.070							1.0
MESJ	HN	12	35	I AML		1617	19.13			41	0.1				

November 3 2018 Hour: 10:38 44.9 Lat: 36.01N Lon: 7.49W Depth: 27F 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	177	324	EP		1039	9.79	-.160							1.0
MESJ	HZ	213	342	EP		1039	14.390	.010							1.0
MESJ	HN	213	342	ES		1039	36.060	.150							1.0
MESJ	HN	213	342	IAML		1039	37.22			2	0.1				

November 3 2018 Hour: 12:32 10.1 Lat: 36.50N Lon: 7.00W Depth: 32F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	172	302	ES		1232	51.980	.020							1.0
MORF	HN	172	302	IAML		1232	52.67			4	0.2				
MESJ	HZ	184	324	EP		1232	35.780	.040							1.0
MESJ	HN	184	324	ES		1232	54.37	-.060							1.0
MESJ	HE	184	324	IAML		1232	55.63			0.80	0.2				

November 3 2018 Hour: 21:36 19.9 Lat: 40.21N Lon: 77.59E Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

SOUTHERN XINJIANG, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7124	299	EP		2146	54.20	-.000							1.0
MESJ	BZ	7124	299	IAMB		2146	55.74			12	0.7				

November 3 2018 Hour: 23:13 4.2 Lat: 36.68N Lon: 7.31W Depth: 21F 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	138	300	EP		2313	24.69	-.140							1.0
MESJ	HZ	152	328	EP		2313	26.640	.140							1.0

November 4 2018 Hour: 7:55 29.1 Lat: 7.81N Lon: 123.87E Depth: 598F Agency: IGL Distant
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	BZ12948	319	EP	KPdf		813	5.430	.000							1.0
MORF	BZ13014	319	EP	KPdf		813	6.60	-.000							1.0

November 4 2018 Hour: 14:13 8.9 Lat: 36.59N Lon: 7.78W Depth: 19F 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	111	316	EP		1413	26.24	-.120							1.0
MESJ	HZ	144	344	EP		1413	30.550	.120							1.0

November 5 2018 Hour: 7:20 15.5 Lat: 36.12N Lon: 9.61W Depth: 18F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	157	33	EP		720	38.67	-.000							1.0
MORF	HE	157	33	ES		720	55.45	-.170							1.0
MORF	HE	157	33	IAML		720	58.02			205	0.2				
MESJ	HZ	227	33	EP		720	47.460	.050							1.0
MESJ	HN	227	33	ES		721	10.890	.140							1.0
MESJ	HN	227	33	IAML		721	13.05			46	0.2				

November 5 2018 Hour: 15:21 41.5 Lat: 36.72N Lon: 7.56W Depth: 27F 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	117	304	EP		1521	58.77	-.240							1.0
MORF	HE	117	304	ES		1522	11.870	.040							1.0
MORF	HE	117	304	IAML		1522	12.91			7	0.1				
MESJ	HZ	137	335	EP		1522	1.560	.040							1.0
MESJ	HN	137	335	ES		1522	16.350	.170							1.0
MESJ	HN	137	335	IAML		1522	18.25			2	0.1				

November 5 2018 Hour: 23:36 35.4 Lat: 36.80N Lon: 5.57W Depth: 0 Agency: IGL Regional
Magnitudes: 2.3ML 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	262	297	EP		2337	13.18	-.150							1.0
MESJ	HE	262	297	ES		2337	41.240	.200							1.0
MESJ	HN	262	297	IAML		2337	51.75			16	0.3				
MORF	HZ	280	282	EP		2337	15.57	-.050							1.0

November 5 2018 Hour: 23:53 40.7 Lat: 37.67N Lon: 17.35W Depth: 17F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	770	90	EP		2355	18.950	.110							1.0
MORF	HE	770	90	ES		2356	30.35	-.110							1.0
MORF	HE	770	90	IAML		2356	32.83			3	0.0				

November 6 2018 Hour: 3:7 44.1 Lat: 38.68N Lon: 8.44W Depth: 0 Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	95	168	EP		3 7	59.24	-.250							1.0
MESJ	HN	95	168	ES		3 8	10.820	.110							1.0
MESJ	HN	95	168	IAML		3 8	12.44			22	0.2				
MORF	HZ	154	187	EPg		3 8	9.100	.160							1.0
MORF	HN	154	187	ES		3 8	26.58	-.010							1.0
MORF	HN	154	187	IAML		3 8	28.42			47	0.2				

November 7 2018 Hour: 11:39 31.8 Lat: 36.83N Lon: 5.57W 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	260	296	EP		1140	9.260	.000							1.0

November 7 2018 Hour: 14:19 9.0 Lat: 37.29N Lon: 8.43W Depth: 14F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.2 secs

NE SILVES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	20	275	EP		1419	12.58	-.360							1.0
MORF	HN	20	275	ES		1419	15.950	.140							1.0
MORF	HE	20	275	IAML		1419	17.14			47	0.1				
MESJ	HZ	64	17	EP		1419	19.530	.180							1.0
MESJ	HE	64	17	ES		1419	26.950	.040							1.0
MESJ	HE	64	17	IAML		1419	28.75			8	0.1				

November 7 2018 Hour: 15:1 36.5 Lat: 35.54N Lon: 4.83W Depth: 24F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	395	301	EP		15 2	28.77	-.010							1.0
MORF	HN	395	301	ES		15 3	6.990	.020							1.0
MORF	HN	395	301	IAML		15 3	8.42			9	0.3				

MESJ HZ	396	311	EP	15	2	28.910.000													1.0
MESJ HE	396	311	ES	15	3	7.17-.020													1.0
MESJ HN	396	311	IAML	15	3	11.31							7	0.2					

November 9 2018 Hour: 0:41 14.1 Lat: 37.16N Lon: 8.66W Depth: 8F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NE LAGOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ		16	2	EP		041	16.98-	.050							1.0
MORF HN		16	2	ES		041	19.210.	0.050							1.0
MORF HN		16	2	IAML		041	19.55				13	0.1			

November 9 2018 Hour: 1:49 40.1 Lat: 71.62N Lon: 11.24W Depth: 10F Agency: IGL Distant
Magnitudes: 7.0Ms IGL Rms: 0.1 secs

JAN MAYEN ISLAND REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV BZ	3662	177	EP			156	14.830.	0.110							1.0
GGNV BN	3662	177	ES			2	1	33.52-							1.0
GGNV BE	3662	177	IAMs_20			2	7	44.86		255000	17.2				
MESJ BZ	3761	176	EP			156	22.690.	0.170							1.0
MESJ BN	3761	176	ES			2	1	47.41-							1.0
MESJ BE	3761	176	IAMs_20			2	8	40.42		235000	15.2				
MORF BZ	3819	176	EP			156	27.140.	0.030							1.0
MORF BN	3819	176	ES			2	1	55.56-							1.0
MORF BE	3819	176	IAMs_20			2	8	44.38		227000	16.7				

November 9 2018 Hour: 9:20 30.7 Lat: 8.73N Lon: 83.25W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

COSTA RICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ	8072	54	EP			931	58.140.	0.090							1.0
MORF BZ	8072	54	IAMB			931	59.89			75	1.3				
MESJ BZ	8113	53	EP			932	0.08-	0.090							1.0
MESJ BZ	8113	53	IAMB			932	4.21			15	1.0				

November 10 2018 Hour: 8:2 16.2 Lat: 5.80S Lon: 151.69E Depth: 60F Agency: IGL Distant
Magnitudes: 0.1Ms IGL Rms: 0.1 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ BZ15945		333	EPKP			821	42.85-	0.110							1.0
MORF BZ16016		333	EPKP			821	44.220.	0.110							1.0

November 10 2018 Hour: 8:33 18.6 Lat: 20.54S Lon: 173.82W 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 BZ17534		33	EPKPdf			853	14.450.	0.060							1.0
GGNV BZ17534		33	EPP			857	26.03-	0.130							1.0
GGNV BZ17534		33	IAMs_20			10	2	14.75		6707	21.5				
MESJ BZ17661		33	EPKPdf			853	15.67-	0.150							1.0
MESJ BZ17661		33	EPP			857	32.580.	0.150							1.0
MESJ BZ17661		33	IAMs_20			10	0	44.66		2519	20.3				
MORF BZ17681		35	EPKPdf			853	16.06-	0.030							1.0
MORF BZ17681		35	EPP			857	33.550.	0.090							1.0
MORF BZ17681		35	IAMs_20			10	3	40.42		3232	22.0				

November 10 2018 Hour: 18:43 46.7 Lat: 37.32N Lon: 8.74W Depth: 17F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

E ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ		8	103	EP		1843	49.51-	0.210							1.0
MORF HN		8	103	ES		1843	51.95-	0.000							1.0
MORF HE		8	103	IAML		1843	52.23			64	0.1				
MESJ HZ		74	38	EP		1843	58.620.	0.060							1.0

MESJ HN 74 38 ES 1844 7.410.170 1.0
 MESJ HN 74 38 IAML 1844 7.69 3 0.1

**November 10 2018 Hour: 20:24 51.1 Lat: 36.74N Lon: 9.69W Depth: 21F Agency: IGL Regional
 Magnitudes: 1.9ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	56	EP		2025	8.33	-.100							1.0
MORF	HE	112	56	ES		2025	21.200	.110							1.0
MORF	HE	112	56	IAML		2025	22.17		29	0.1					
MESJ	HZ	179	46	EP		2025	16.57	-.150							1.0
MESJ	HE	179	46	ES		2025	35.580	.150							1.0
MESJ	HN	179	46	IAML		2025	36.13		9	0.3					

**November 10 2018 Hour: 22:20 35.5 Lat: 36.60N Lon: 7.95W 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	100	322	EP		2220	51.27	-.130							1.0
MESJ	HZ	140	350	EP		2220	56.510	.060							1.0
MESJ	HN	140	350	ES		2221	11.840	.080							1.0
MESJ	HN	140	350	IAML		2221	12.42		7	0.1					

**November 10 2018 Hour: 22:35 30.7 Lat: 30.92N Lon: 8.88W Depth: 6F Agency: IGL Regional
 Rms: 0.0 secs**

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	709	2	EP		2237	2.74	-.020							1.0

**November 10 2018 Hour: 23:11 28.9 Lat: 36.16N Lon: 8.04W Depth: 25F 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	138	337	EP		2311	49.08	-.150							1.0
MORF	HE	138	337	ES		2312	4.260	.170							1.0
MORF	HE	138	337	IAML		2312	4.70		5	0.2					
MESJ	HZ	187	355	EP		2311	55.16	-.100							1.0
MESJ	HN	187	355	ES		2312	14.610	.090							1.0
MESJ	HN	187	355	IAML		2312	15.35		4	0.4					

**November 11 2018 Hour: 14: 3 59.0 Lat: 15.56N Lon: 49.86W Depth: 5F Agency: IGL Distant
 Magnitudes: 6.1Ms IGL Rms: 0.1 secs**

NORTH ATLANTIC OCEAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4713	51	EP		1411	53.87	-.170							1.0
MORF	BN	4713	51	ES		1418	16.800	.070							1.0
MORF	BN	4713	51	IAMs_20		1422	12.46		42689	36.8					
GGNV	BZ	4727	49	EP		1411	54.85	-.130							1.0
GGNV	BN	4727	49	ES		1418	18.620	.190							1.0
GGNV	BN	4727	49	IAMs_20		1422	13.76		52305	35.2					
MESJ	BZ	4769	51	EP		1411	57.98	-.100							1.0
MESJ	BN	4769	51	ES		1418	24.180	.140							1.0
MESJ	BN	4769	51	IAMs_20		1422	6.97		28545	33.2					

**November 11 2018 Hour: 16: 1 35.8 Lat: 36.68N Lon: 6.36W Depth: 32F Agency: IGL Regional
 Magnitudes: 3.1ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	209	309	EP		16 2	4.700	.140							1.0
MESJ	HE	209	309	ES		16 2	25.33	-.210							1.0
MESJ	HE	209	309	IAML		16 2	26.35		74	0.1					
MORF	HZ	216	289	EP		16 2	5.460	.090							1.0
MORF	HN	216	289	ES		16 2	26.93	-.020							1.0
MORF	HN	216	289	IAML		16 2	29.98		274	0.2					

November 11 2018 Hour: 16:55 35.7 Lat: 22.92S Lon: 66.42W Depth:227F Agency: IGL Distant
Magnitudes: 5.4ML IGL Rms: 0.0 secs

JUJUY, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9066	43	EP		17 7	27.740	.030							1.0
MESJ	BZ	9066	43	IAMB		17 7	29.90			100	1.2				

November 11 2018 Hour: 22:52 15.3 Lat: 34.29N Lon: 16.64W Depth: 31F Agency: IGL Regional
Magnitudes: 3.1ML 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	795	63	EP		2253	54.17	-.130							1.0
MORF	HE	795	63	ES		2255	6.54	-.070							1.0
MORF	HE	795	63	IAML		2255	8.95			13	0.2				
MESJ	HZ	854	60	EP		2254	1.420	.220							1.0

November 13 2018 Hour: 5:58 33.5 Lat: 38.47N Lon: 8.78W Depth: 6F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

SE SETUBAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HE	42	311	ES		558	45.450	.050							1.0
GGNV	HE	42	311	IAML		558	46.71			39	0.2				
MESJ	HZ	86	145	EP		558	47.23	-.090							1.0
MESJ	HE	86	145	ES		558	57.470	.060							1.0
MESJ	HN	86	145	IAML		559	0.01			5	0.1				
MORF	HZ	130	175	EP		558	54.200	.000							1.0
MORF	HE	130	175	ES		559	9.28	-.030							1.0
MORF	HE	130	175	IAML		559	10.76			8	0.1				

November 13 2018 Hour: 17: 2 28.5 Lat: 36.05N Lon: 7.90W Depth: 23F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	155	334	EP		17 2	51.320	.010							1.0
MORF	HE	155	334	ES		17 3	7.970	.040							1.0
MORF	HE	155	334	IAML		17 3	9.29			32	0.1				
MESJ	HN	201	352	ES		17 3	17.71	-.060							1.0
MESJ	HN	201	352	IAML		17 3	19.06			12	0.1				

November 14 2018 Hour: 1:50 8.6 Lat: 37.32N Lon: 8.55W Depth: 10F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	259	EP		150	10.80	-.030							1.0
MORF	HE	9	259	ES		150	12.590	.100							1.0
MORF	HE	9	259	IAML		150	13.22			46	0.2				
MESJ	HZ	65	27	EP		150	19.02	-.100							1.0
MESJ	HN	65	27	ES		150	26.840	.020							1.0
MESJ	HN	65	27	IAML		150	28.20			2	0.4				

November 14 2018 Hour: 9:19 41.7 Lat: 37.62N Lon: 6.64W Depth: 12F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	141	281	EP		920	3.480	.070							1.0
MESJ	HE	141	281	ESg		920	21.250	.090							1.0
MESJ	HE	141	281	IAML		920	22.34			53	0.2				
MORF	HN	181	260	ESg		920	32.13	-.160							1.0
MORF	HE	181	260	IAML		920	34.00			152	0.2				

November 14 2018 Hour: 21:21 51.3 Lat: 55.58N Lon: 162.04E Depth: 59F Agency: IGL Distant
Magnitudes: 5.8Ms IGL Rms: 0.1 secs

NEAR EAST COAST OF KAMCHATKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9526	353	EP		2134	23.30	-.130							1.0
GGNV	BN	9526	353	ESKSac		2144	43.670	.080							1.0
GGNV	BZ	9526	353	IAMs_20		22 9	57.99		5317	25.2					
MESJ	BZ	9616	352	EP		2134	27.40	-.030							1.0
MESJ	BN	9616	352	ESKSac		2144	48.860	.170							1.0
MESJ	BZ	9616	352	IAMs_20		22 9	34.07		3032	15.8					
MORF	BZ	9678	353	EP		2134	30.15	-.080							1.0
MORF	BZ	9678	353	IAMs_20		2211	6.24		4948	21.1					

November 15 2018 Hour: 0:9 6.4 Lat: 71.31N Lon: 9.34W Depth: 10F Agency: IGL Distant
Magnitudes: 4.7Ms IGL Rms: 0.1 secs

JAN MAYEN ISLAND REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3723	178	EP		015	45.890	.060							1.0
MESJ	BZ	3723	178	IAMs_20		028	30.16		1342	18.3					

November 15 2018 Hour: 3:27 1.8 Lat: 35.78N Lon: 0.46W Depth: 12F 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	729	291	EP		328	35.500	.010							1.0

November 15 2018 Hour: 5:35 48.3 Lat: 36.64N Lon: 7.74W Depth: 9F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	110	312	EP		536	5.65	-.170							1.0
MORF	HE	110	312	ES		536	18.700	.120							1.0
MORF	HN	110	312	IAML		536	20.82		4	0.2					
MESJ	HZ	140	342	EP		536	10.21	-.020							1.0
MESJ	HE	140	342	ES		536	26.300	.080							1.0
MESJ	HE	140	342	IAML		536	27.51		2	0.2					

November 15 2018 Hour: 9:2 5.8 Lat: 37.50N Lon: 20.64E Depth: 10F Agency: IGL Distant
Magnitudes: 4.9Mb 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	2536	280	EP		9 7	8.740	.000							1.0
MESJ	BZ	2536	280	IAMB		9 7	10.25		39	1.0					

November 15 2018 Hour: 9:9 27.0 Lat: 37.42N Lon: 20.65E Depth: 10F Agency: IGL Distant
Magnitudes: 4.5Mb 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	2539	280	EP		914	30.250	.010							1.0
MESJ	BZ	2539	280	IAMB		914	32.86		19	1.1					

November 15 2018 Hour: 15:39 33.8 Lat: 38.78N Lon: 9.42W Depth: 2F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.2 secs

SW SINTRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HN	25	107	ES		1539	40.850	.130							1.0
GGNV	HN	25	107	IAML		1539	42.60		276	0.2					
MESJ	HZ	148	134	EP		1539	57.25	-.230							0.9
MESJ	HN	148	134	ES		1540	14.910	.170							0.9
MESJ	HN	148	134	IAML		1540	18.01		6	0.2					
MORF	HZ	177	157	EP		1540	0.93	-.190							0.9
MORF	HE	177	157	ES		1540	21.140	.100							0.9
MORF	HE	177	157	IAML		1540	24.24		12	0.1					

November 15 2018 Hour: 20: 2 22.4 Lat: 56.78S Lon: 25.39W Depth: 10F Agency: IGL Distant
Magnitudes: 6.4Ms IGL Rms: 0.1 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10527	13	EP			2015	43.150	.030							1.0
MORF	BN10527	13	ESKSac			2026	19.570	.010							1.0
MORF	BZ10527	13	IAMs_20			2052	40.01		14279	19.7					
MESJ	BZ10591	14	EP			2015	45.51	-.190							1.0
MESJ	BN10591	14	ESKSac			2026	22.740	.150							1.0
MESJ	BZ10591	14	IAMs_20			2052	50.98		15934	22.9					
GGNV	BZ10675	13	EP			2015	49.130	.100							1.0
GGNV	BN10675	13	ESKSac			2026	26.40	-.100							1.0
GGNV	BZ10675	13	IAMs_20			2052	55.63		13319	18.2					

November 15 2018 Hour: 20: 6 41.1 Lat: 35.68N Lon: 3.48W Depth: 23F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	486	301	EP		20 7	44.820	.100							1.0
MESJ	HE	486	301	ES		20 8	31.13	-.060							1.0
MESJ	HE	486	301	IAML		20 8	35.13		5	0.3					
MORF	HZ	497	293	EP		20 7	46.110	.030							1.0
MORF	HE	497	293	ES		20 8	33.47	-.070							1.0
MORF	HN	497	293	IAML		20 8	37.41		11	0.2					

November 15 2018 Hour: 21:33 55.4 Lat: 36.57N Lon: 8.04W Depth: 18F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	98	326	EP		2134	10.93	-.080							1.0
MORF	HE	98	326	ES		2134	22.490	.100							1.0
MORF	HN	98	326	IAML		2134	23.60		16	0.1					
MESJ	HZ	142	354	EP		2134	16.73	-.000							1.0
MESJ	HN	142	354	ES		2134	32.28	-.020							1.0
MESJ	HN	142	354	IAML		2134	33.89		12	0.2					

November 15 2018 Hour: 22: 9 49.7 Lat: 35.64N Lon: 3.52W Depth: 9F Agency: IGL Regional
Magnitudes: 2.2ML 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	486	302	EP		2210	54.30	-.030							1.0
MESJ	HN	486	302	ES		2211	41.530	.000							1.0
MESJ	HN	486	302	IAML		2211	47.64		5	0.6					
MORF	HZ	496	293	EP		2210	55.610	.030							1.0

November 16 2018 Hour: 3:26 55.4 Lat: 10.53S Lon: 163.13E Depth: 11F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16818	347	EPKPdf			346	42.150	.130							1.0
GGNV	BZ16818	347	IAMs_20			457	40.50		5040	23.4					
MESJ	BZ16888	345	EPKPdf			346	42.99	-.000							1.0
MESJ	BZ16888	345	IAMs_20			458	6.65		4129	24.9					
MORF	BZ16956	346	EPKPdf			346	43.83	-.130							1.0
MORF	BZ16956	346	IAMs_20			457	9.36		4468	22.8					

November 16 2018 Hour: 13:35 39.7 Lat: 36.74N Lon: 8.54W 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	HZ	63	351	EP		1335	50.17	-.090							1.0
MORF	HN	63	351	ES		1335	58.120	.160							1.0
MORF	HN	63	351	IAML		1335	58.83		23	0.1					

MESJ HZ	125	13	EP	1335	58.34	-.070													1.0
MESJ HE	125	13	ES	1336	12.070	.000													1.0
MESJ HN	125	13	IAML	1336	12.85					3	0.1								

November 16 2018 Hour: 23:11 4.9 Lat: 37.50N Lon: 7.61W Depth: 20F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.0 secs

NW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ		66	305	EP		2311	15.640	.020							1.0
MESJ HN		66	305	ES		2311	23.500	.020							1.0
MESJ HN		66	305	IAML		2311	24.94			439	0.2				
MORF HZ		95	257	EP		2311	19.94	-.040							1.0
MORF HE		95	257	ES		2311	31.030	.010							1.0
MORF HN		95	257	IAML		2311	32.78			562	0.3				

November 17 2018 Hour: 12:42 4.7 Lat: 38.79N Lon: 7.95W Depth: 2F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

NE ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ		108	193	EP		1242	22.00	-.170							1.0
MESJ HN		108	193	ES		1242	35.070	.170							1.0
MESJ HN		108	193	IAML		1242	36.83			29	0.1				

November 17 2018 Hour: 19:55 29.9 Lat: 42.08N Lon: 8.23W Depth: 27F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.1 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ		471	180	EP		1956	31.240	.090							1.0
MESJ HE		471	180	ES		1957	15.77	-.090							1.0
MESJ HE		471	180	IAML		1957	50.27			29	0.6				

November 17 2018 Hour: 23:45 23.2 Lat: 36.40N Lon: 12.11W Depth: 30F Agency: IGL Regional
Magnitudes: 3.6ML 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		324	71	EP		2346	6.26	-.110							1.0
MORF HE		324	71	ES		2346	37.65	-.200							1.0
MORF HE		324	71	IAML		2346	40.26			186	0.2				
GGNV HE		367	45	ES		2346	46.71	-.190							1.0
GGNV HE		367	45	IAML		2346	50.36			496	0.2				
MESJ HZ		381	64	EP		2346	13.570	.210							1.0
MESJ HN		381	64	ES		2346	50.260	.310							1.0
MESJ HN		381	64	IAML		2346	56.40			59	0.2				

November 18 2018 Hour: 20:25 45.4 Lat: 17.90S Lon: 178.90W Depth: 534F Agency: IGL Distant
Rms: 0.0 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV BZ17518		21	EP	KPab		2045	15.25	-.010							1.0
MESJ BZ17641		20	EP	KPab		2045	20.08	-.040							1.0
MORF BZ17678		22	EP	KPab		2045	21.690	.050							1.0

November 20 2018 Hour: 6:38 7.9 Lat: 9.83S Lon: 78.53W Depth: 56F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

NEAR COAST OF NORTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ 8941		49	EP			650	13.400	.090							1.0
MORF BZ 8941		49	I	Amb		650	15.30			109	0.9				
MESJ BZ 8998		49	EP			650	15.87	-.090							1.0
MESJ BZ 8998		49	I	Amb		650	17.06			36	1.1				

November 20 2018 Hour: 13:22 29.2 Lat: 37.70N Lon: 6.09W 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	188	275	EP		1322	56.93	-.020							1.0

November 20 2018 Hour: 23:19 8.0 Lat: 36.30N Lon: 9.80W Depth: 20F 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	151	42	EP		2319	30.35	-.050							1.0
MORF	HN	151	42	ES		2319	46.61	-.120							1.0
MORF	HN	151	42	IAML		2319	47.57			6	0.1				
MESJ	HZ	221	39	EP		2319	39.16	0.120							1.0
MESJ	HN	221	39	ES		2320	1.75	0.060							1.0
MESJ	HN	221	39	IAML		2320	2.92			2	0.1				

November 21 2018 Hour: 18:21 43.6 Lat: 59.97N Lon: 153.31W Depth: 146F Agency: IGL Distant
Magnitudes: 4.9Mb 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
MESJ	BZ	8704	28	EP		1833	27.27	-.090							1.0
MESJ	BZ	8704	28	IAMB		1833	27.58			19	1.2				
MORF	BZ	8749	28	EP		1833	29.67	0.010							1.0
MORF	BZ	8749	28	IAMB		1833	30.61			31	0.9				
MORF	BZ	8749	28	EP		1834	6.50	0.080							1.0

November 21 2018 Hour: 20:7 5.5 Lat: 37.01N Lon: 8.46W Depth: 21F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	37	332	EP		20	7	12.19	-.060						1.0
MORF	HE	37	332	ES		20	7	17.30	0.160						1.0
MORF	HE	37	332	IAML		20	7	17.71		208	0.2				
MESJ	HZ	95	13	EP		20	7	20.47	-.070						1.0
MESJ	HN	95	13	ES		20	7	31.45	-.030						1.0
MESJ	HN	95	13	IAML		20	7	33.43		4	0.1				

November 22 2018 Hour: 5:36 57.5 Lat: 36.14N Lon: 10.75W Depth: 26F Agency: IGL Regional
Magnitudes: 2.5ML 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	228	55	EP		537	28.88	0.020							1.0
MORF	HE	228	55	ES		537	51.75	-.020							1.0
MORF	HN	228	55	IAML		537	52.92			55	0.1				
MESJ	HZ	294	49	EP		537	37.01	-.040							1.0
MESJ	HN	294	49	ES		538	5.96	0.030							1.0
MESJ	HN	294	49	IAML		538	7.54			10	0.1				

November 23 2018 Hour: 2:27 25.9 Lat: 37.34N Lon: 8.71W Depth: 14F Agency: IGL Regional
Magnitudes: 0.4ML 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	6	128	EP		227	28.37	-.100							1.0
MORF	HE	6	128	ES		227	30.34	0.010							1.0
MORF	HE	6	128	IAML		227	30.69			16	0.1				
MESJ	HZ	70	38	EP		227	37.40	0.130							1.0
MESJ	HE	70	38	ES		227	45.52	-.030							1.0
MESJ	HE	70	38	IAML		227	45.96			1	0.2				

November 23 2018 Hour: 9:28 15.4 Lat: 38.69N Lon: 8.45W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	97	168	EP		928	30.950	.140							1.0
MESJ	HN	97	168	ES		928	41.89	-.170							1.0
MESJ	HN	97	168	IAML		928	43.66			3	0.1				
MORF	HZ	155	187	EPg		928	40.460	.030							1.0

November 23 2018 Hour: 10:52 0.9 Lat: 56.26S Lon: 26.99W Depth: 83F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10495	15		EP		11 5	10.79	-.020							1.0
MORF	BZ10495	15		IAMB		11 5	11.82			31	1.0				
MESJ	BZ10560	15		EP		11 5	13.430	.020							1.0
MESJ	BZ10560	15		IAMB		11 5	15.17			27	1.1				

November 23 2018 Hour: 17:40 48.6 Lat: 7.06N Lon: 77.96W Depth: 10F Agency: IGL Distant
Rms: 0.1 secs

PANAMA-COLOMBIA BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ 7715	53		EP		1751	56.560	.090							1.0
MESJ	BZ 7760	52		EP		1751	58.83	-.090							1.0

November 24 2018 Hour: 7:35 38.9 Lat: 37.35N Lon: 9.19W 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	48	96	EP		735	47.730	.220							1.0
MORF	HN	48	96	ES		735	53.71	-.080							1.0
MORF	HE	48	96	IAML		735	54.15			77	0.1				
MESJ	HZ	101	57	EP		735	54.33	-.050							1.0
MESJ	HN	101	57	ES		736	5.59	-.090							1.0
MESJ	HN	101	57	IAML		736	7.50			3	0.3				

November 24 2018 Hour: 10:58 0.9 Lat: 35.51N Lon: 10.24W Depth: 17F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	245	35	EP		1058	35.07	-.050							1.0
MORF	HE	245	35	ES		1058	59.98	-.130							1.0
MORF	HN	245	35	IAML		1059	1.75			48	0.1				
MESJ	HZ	315	34	EP		1058	43.880	.030							1.0
MESJ	HN	315	34	ES		1059	15.380	.160							1.0
MESJ	HN	315	34	IAML		1059	17.26			6	0.2				

November 24 2018 Hour: 19:55 22.1 Lat: 37.48N Lon: 7.58W Depth: 21F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	69	305	EP		1955	33.39	-.050							1.0
MESJ	HN	69	305	ES		1955	41.66	-.040							1.0
MESJ	HN	69	305	IAML		1955	42.27			3	0.1				
MORF	HN	97	259	ES		1955	48.810	.090							1.0
MORF	HN	97	259	IAML		1955	51.00			5	0.1				

November 25 2018 Hour: 0:38 24.3 Lat: 37.88N Lon: 9.03W Depth: 9F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	71	93	EP		038	36.140	.190							1.0
MESJ	HE	71	93	ES		038	44.440	.010							1.0
MESJ	HN	71	93	IAML		038	45.77			27	0.2				
MORF	HZ	72	152	EP		038	35.88	-.180							1.0
MORF	HN	72	152	ES		038	44.60	-.020							1.0
MORF	HN	72	152	IAML		038	45.17			114	0.3				

November 25 2018 Hour: 3:40 51.3 Lat: 13.16N Lon: 81.16W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

CARIBBEAN SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7600	55	EP		351	52.760	.030							1.0
MORF	BN	7600	55	IAMs_20		411	6.46			12543	24.5				
MESJ	BZ	7638	54	EP		351	54.72	-.090							1.0
MESJ	BN	7638	54	ES		4 0	58.520	.060							1.0
MESJ	BN	7638	54	IAMs_20		411	48.10			9917	28.9				

November 25 2018 Hour: 11: 0 51.6 Lat: 37.30N Lon: 8.40W Depth: 19F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.2 secs

NE SILVES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	22	271	EP		11 0	56.02	-.280							1.0
MORF	HN	22	271	ES		11 0	59.880	.160							1.0
MORF	HE	22	271	IAML		11 1	0.84			106	0.1				
MESJ	HZ	62	15	EP		11 1	1.930	.140							1.0
MESJ	HE	62	15	ES		11 1	9.21	-.010							1.0
MESJ	HE	62	15	IAML		11 1	10.54			54	0.2				

November 25 2018 Hour: 16:37 31.4 Lat: 34.33N Lon: 45.71E Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs

IRAN-IRAQ BORDER REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4807	291	EP		1645	32.650	.000							1.0
MESJ	BN	4807	291	ES		1651	57.35	-3.09							0.0
MESJ	BZ	4807	291	IAMs_20		17 3	28.99			20581	19.8				
MORF	BZ	4857	290	EP		1645	36.450	.090							1.0
MORF	BN	4857	290	ES		1652	3.17	-4.00							0.0
MORF	BE	4857	290	IAMs_20		17 5	4.11			18574	18.0				
GGNV	BZ	4866	292	EP		1645	36.80	-.090							1.0
GGNV	BN	4866	292	ES		1652	7.32	-.810							0.0
GGNV	BN	4866	292	IAMs_20		17 3	12.23			36332	19.0				

November 26 2018 Hour: 6:41 13.1 Lat: 36.62N Lon: 7.16W Depth: 18F Agency: IGL Regional
Magnitudes: 2.7ML 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	153	300	EP		641	35.84	-.070							1.0
MORF	HE	153	300	ES		641	52.530	.010							1.0
MORF	HE	153	300	IAML		641	53.68			160	0.2				
MESJ	HZ	165	326	EP		641	37.360	.030							1.0
MESJ	HN	165	326	ES		641	55.020	.030							1.0
MESJ	HN	165	326	IAML		641	59.40			43	0.1				

November 26 2018 Hour: 7:27 47.1 Lat: 36.64N Lon: 11.17W Depth: 32F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	236	71	ES		728	42.680	.110							1.0
MORF	HN	236	71	IAML		728	43.52			6	0.1				
MESJ	HZ	294	62	EP		728	26.22	-.060							1.0
MESJ	HE	294	62	ES		728	54.85	-.060							1.0
MESJ	HN	294	62	IAML		728	55.09			0.60	0.1				

November 26 2018 Hour: 19:55 46.0 Lat: 37.26N Lon: 16.28W 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	676	87	EP		1957	12.74	-.070							1.0
MESJ	HN	715	82	ES		1958	24.070	.070							1.0
MESJ	HN	715	82	IAML		1958	26.62			4	0.3				

November 27 2018 Hour: 1:25 1.5 Lat: 36.65N Lon: 4.63W Depth: 74F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	345	294	EP		125	46.76	-.040							1.0
MESJ	HN	345	294	ES		126	19.76	-.130							1.0
MESJ	HN	345	294	IAML		126	22.12			4	0.3				
MORF	HZ	365	283	EP		125	49.410	.100							1.0
MORF	HN	365	283	ES		126	24.300	.080							1.0
MORF	HE	365	283	IAML		126	27.56			11	0.2				

November 27 2018 Hour: 7: 6 49.3 Lat: 36.67N Lon: 9.52W Depth: 27F 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	104	47	EP		7 7	5.29	-.010							1.0
MORF	HN	104	47	ES		7 7	16.94	-.050							1.0
MORF	HE	104	47	IAML		7 7	18.84			56	0.2				
MESJ	HZ	174	41	EP		7 7	13.78	-.070							1.0
MESJ	HN	174	41	ES		7 7	31.930	.130							1.0
MESJ	HN	174	41	IAML		7 7	32.56			6	0.2				
MESJ	HE	174	41	IAML		7 7	34.02			7	0.2				

November 27 2018 Hour: 9:22 16.3 Lat: 7.07S Lon: 154.75E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16218	336		EP	KPab	941	55.74	-.000							1.0
MORF	BZ16289	336		EP	KPab	941	58.260	.000							1.0

November 27 2018 Hour: 10:56 32.7 Lat: 36.80N Lon: 9.42W Depth: 21F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	88	50	EP		1056	46.940	.140							1.0
MORF	HE	88	50	ES		1056	57.04	-.080							1.0
MORF	HN	88	50	IAML		1056	58.09			6	0.1				
MESJ	HE	157	42	ES		1057	12.28	-.060							1.0
MESJ	HE	157	42	IAML		1057	12.83			1	0.1				

November 27 2018 Hour: 12:3 28.0 Lat: 1.03S Lon: 13.66W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Ms 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	4277	6	EP		1210	50.010	.060							1.0
MORF	BZ	4277	6	EPP		1212	17.580	.020							1.0
MORF	BE	4277	6	ES		1216	46.13-	.020							1.0
MORF	BZ	4277	6	IAMs_20		1226	38.31		4374	12.4					
MESJ	BZ	4341	7	EP		1210	54.67-	.080							1.0
MESJ	BZ	4341	7	EPP		1212	23.870	.020							1.0
MESJ	BE	4341	7	ES		1216	54.70-	.080							1.0
MESJ	BN	4341	7	IAMs_20		1225	13.63		3435	16.5					
GGNV	BZ	4427	6	EPP		1212	32.290	.080							1.0
GGNV	BE	4427	6	IAMs_20		1227	46.91		5174	18.2					

November 27 2018 Hour: 19:34 45.6 Lat: 15.58N Lon: 49.90W Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4715	51	EP		1942	40.00-	.070							1.0
MORF	BZ	4715	51	IAMB		1942	51.03		120	1.9					
MESJ	BZ	4771	51	EP		1942	44.170	.070							1.0
MESJ	BZ	4771	51	IAMB		1943	0.41		34	1.4					

November 27 2018 Hour: 23:16 11.2 Lat: 36.68N Lon: 25.71E Depth: 8F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.0 secs

DODECANESE ISLANDS, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2996	283	EP		2321	53.15-	.010							1.0
MESJ	BZ	2996	283	IAMB		2321	58.02		13	0.6					

November 28 2018 Hour: 4:9 41.9 Lat: 35.74N Lon: 10.35W Depth: 46F 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	231	41	EP		410	13.27-	.140							1.0
MORF	HE	231	41	ES		410	36.470	.070							1.0
MORF	HN	231	41	IAML		410	37.73		4	0.1					
MESJ	HN	301	39	ES		410	51.090	.070							1.0
MESJ	HN	301	39	IAML		410	53.03		2	0.2					

November 28 2018 Hour: 5:12 22.0 Lat: 37.31N Lon: 8.58W Depth: 11F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	264	EP		512	23.89-	.200							1.0
MORF	HE	6	264	ES		512	25.670	.020							1.0
MORF	HN	6	264	IAML		512	26.15		1924	0.3					
MESJ	HZ	67	28	EP		512	32.890	.080							1.0
MESJ	HE	67	28	ES		512	40.860	.120							1.0
MESJ	HN	67	28	IAML		512	44.13		59	0.1					

November 28 2018 Hour: 5:34 29.1 Lat: 36.65N Lon: 7.29W Depth: 24F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	156	328	EP		534	51.690	.010							1.0
MESJ	HN	156	328	ES		535	8.13-	.010							1.0
MESJ	HN	156	328	IAML		535	8.97		5	0.1					

November 28 2018 Hour: 10:17 12.3Lat: 27.20N Lon: 96.93E Depth: 52F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.0 secs

MYANMAR-INDIA BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9415	310	EP		1029	40.510	.020							1.0
MESJ	BZ	9415	310	IAMB		1029	41.29			25	1.0				
MORF	BZ	9479	310	EP		1029	43.38	-.020							1.0
MORF	BZ	9479	310	IAMB		1029	44.86			87	1.5				

November 28 2018 Hour: 15:31 51.5Lat: 36.69N Lon: 7.28W Depth: 19F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	140	300	ES		1532	27.85	-.080							1.0
MORF	HE	140	300	IAML		1532	28.43			5	0.2				
MESJ	HZ	152	327	EP		1532	14.05	-.040							1.0
MESJ	HE	152	327	ES		1532	30.690	.130							1.0
MESJ	HN	152	327	IAML		1532	31.43			1	0.1				

November 28 2018 Hour: 23:12 15.9Lat: 37.33N Lon: 9.21W Depth: 28F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

W ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	50	93	EP		2312	24.970	.260							1.0
MORF	HN	50	93	ES		2312	30.95	-.150							1.0
MORF	HN	50	93	IAML		2312	31.63			100	0.2				
MESJ	HZ	104	57	EP		2312	31.71	-.120							1.0
MESJ	HN	104	57	ES		2312	43.420	.000							1.0
MESJ	HN	104	57	IAML		2312	45.37			3	0.1				

November 30 2018 Hour: 15:18 26.2Lat: 36.64N Lon: 7.40W Depth: 25F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	134	304	EP		1518	45.77	-.200							1.0
MORF	HE	134	304	ES		1519	0.40	-.020							1.0
MORF	HE	134	304	IAML		1519	1.10			14	0.2				
MESJ	HZ	152	332	EP		1518	48.330	.150							1.0
MESJ	HE	152	332	ES		1519	4.300	.070							1.0
MESJ	HE	152	332	IAML		1519	6.16			8	0.3				

November 30 2018 Hour: 15:49 6.2 Lat: 36.83N Lon: 8.32W Depth: 16F 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	60	331	EP		1549	16.07	-.010							1.0
MORF	HN	60	331	ES		1549	23.310	.010							1.0
MORF	HE	60	331	IAML		1549	24.78			12	0.2				

November 30 2018 Hour: 17:29 28.7Lat: 61.33N Lon: 149.92W Depth: 57F Agency: IGL Distant
Magnitudes: 7.0Ms 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	8363	31	EP		1741	5.340	.070							1.0
GGNV	BE	8363	31	ES		1750	40.28	-.090							1.0
GGNV	BZ	8363	31	IAMs_20		1814	23.70			65385	19.7				
MESJ	BZ	8481	30	EP		1741	11.31	-.040							1.0
MESJ	BN	8481	30	ES		1750	52.210	.110							1.0
MESJ	BZ	8481	30	IAMs_20		1813	1.01			98876	21.4				
MORF	BZ	8525	31	EP		1741	13.720	.040							1.0
MORF	BE	8525	31	ES		1750	56.50	-.100							1.0
MORF	BE	8525	31	IAMs_20		1812	52.49			56911	19.3				

November 30 2018 Hour: 17:35 34.7 Lat: 61.26N Lon: 149.92W Depth: 40F Agency: IGL Distant
Magnitudes: 5.7Mb 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	8370	31	EP		1747	13.690	.100							1.0
GGNV	BZ	8370	31	I Amb		1747	14.96			143	0.5				
MESJ	BZ	8487	30	EP		1747	19.66	-.020							1.0
MESJ	BZ	8487	30	I Amb		1747	22.24			36	0.9				
MORF	BZ	8532	31	EP		1747	21.93	-.080							1.0
MORF	BZ	8532	31	I Amb		1747	22.41			70	0.9				

November 30 2018 Hour: 20:26 52.2 Lat: 61.39N Lon: 150.06W Depth: 31F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

SOUTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8479	30	EP		2038	37.82	-.000							1.0
MESJ	BZ	8479	30	I Amb		2038	38.33			23	1.3				
MORF	BZ	8523	31	EP		2038	40.170	.000							1.0
MORF	BZ	8523	31	I Amb		2038	41.25			15	0.7				

December 1 2018 Hour: 4:21 18.0 Lat: 36.78N Lon: 11.34W Depth: 32F 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	246	76	EP		421	51.480	.130							1.0
MORF	HE	246	76	ES		422	15.67	-.020							1.0
MORF	HE	246	76	I AML		422	18.30			113	0.3				
MESJ	HZ	301	66	EP		421	58.120	.040							1.0
MESJ	HN	301	66	ES		422	27.19	-.150							1.0
MESJ	HN	301	66	I AML		422	35.14			19	0.3				

December 1 2018 Hour: 4:45 38.1 Lat: 36.99N Lon: 8.48W Depth: 21F 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	38	336	EP		445	44.90	-0.06							1.0
MORF	HN	38	336	ES		445	50.08	0.10							1.0
MORF	HE	38	336	I AML		445	50.48			67	0.2				
MESJ	HZ	97	14	EP		445	53.40	-0.04							1.0

December 1 2018 Hour: 4:45 38.7 Lat: 36.99N Lon: 8.48W Depth: 25F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	38	336	EP		445	45.870	.000							1.0
MORF	HE	38	336	ES		445	51.06	-.000							1.0
MORF	HE	38	336	I AML		445	51.37			219	0.2				

December 1 2018 Hour: 4:46 45.0 Lat: 36.74N Lon: 9.66W Depth: 30F Agency: IGL Regional
Magnitudes: 2.8ML 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	109	55	EP		447	1.470	.040							1.0
MORF	HN	109	55	ES		447	13.530	.110							1.0
MORF	HN	109	55	I AML		447	15.11			268	0.1				
MESJ	HZ	177	46	EP		447	9.57	-.180							1.0
MESJ	HN	177	46	ES		447	27.830	.010							1.0
MESJ	HN	177	46	I AML		447	28.20			57	0.3				

December 1 2018 Hour: 7:7 31.1 Lat: 61.40N Lon: 150.06W Depth: 23F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs
SOUTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8478	30	EP		719	17.88	-0.03							1.0
MESJ	BZ	8478	30	I Amb		719	20.69			11	1.2				
MORF	BZ	8522	31	EP		719	20.28	0.03							1.0
MORF	BZ	8522	31	I Amb		719	21.32			71	1.7				

December 1 2018 Hour: 7:57 21.1 Lat: 61.36N Lon: 150.02W Depth: 48F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs
SOUTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8480	30	EP		8 9	4.830	.030							1.0
MESJ	BZ	8480	30	I Amb		8 9	5.47			16	1.1				
MORF	BZ	8525	31	EP		8 9	7.10	-.030							1.0
MORF	BZ	8525	31	I Amb		8 9	8.36			39	0.9				

December 1 2018 Hour: 13:27 21.6 Lat: 7.40S Lon: 128.71E Depth: 141F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.0 secs
KEPULAUAN BARAT DAYA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14546	315	EP	KPdf		1346	15.52	-.000							1.0
MESJ	BZ14546	315	EPP			1348	32.700	.030							1.0
MESJ	BZ14546	315	I AMs	20		1439	19.77			2495	28.9				
GGNV	BZ14573	316	EP	KPdf		1346	15.960	.010							1.0
GGNV	BZ14573	316	EPP			1348	34.19	-.020							1.0
GGNV	BZ14573	316	I AMs	20		1449	2.60			3398	19.1				
MORF	BZ14607	314	EP	KPdf		1346	16.56	-.050							1.0
MORF	BZ14607	314	EPP			1348	36.280	.030							1.0
MORF	BE14607	314	I AMs	20		1434	33.96			5746	37.9				

December 1 2018 Hour: 15:55 11.1 Lat: 36.78N Lon: 8.20W Depth: 26F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	71	325	EP		1555	22.61	-.100							1.0
MORF	HE	71	325	ES		1555	31.250	.070							1.0
MORF	HE	71	325	I AML		1555	32.19			8	0.3				
MESJ	HZ	118	359	EP		1555	28.810	.010							1.0
MESJ	HN	118	359	ES		1555	41.730	.020							1.0
MESJ	HN	118	359	I AML		1555	42.69			2	0.2				

December 2 2018 Hour: 0:22 54.6 Lat: 36.71N Lon: 7.17W Depth: 15F 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	148	297	EP		023	17.010	.040							1.0
MORF	HN	148	297	ES		023	33.480	.210							1.0
MORF	HN	148	297	I AML		023	34.73			7	0.2				
MESJ	HZ	156	324	EP		023	17.92	-.090							1.0
MESJ	HN	156	324	ES		023	34.90	-.170							1.0
MESJ	HE	156	324	I AML		023	36.30			4	0.3				

December 2 2018 Hour: 3:58 16.3 Lat: 36.60N Lon: 9.71W Depth: 15F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	122	50	EP		358	35.600	.060							1.0
MORF	HN	122	50	ES		358	49.640	.080							1.0
MORF	HN	122	50	I AML		358	50.59			15	0.1				
MESJ	HZ	191	43	EP		358	43.93	-.070							1.0
MESJ	HE	191	43	ES		359	4.12	-.090							1.0

MESJ HE 191 43 IAML 359 5.64 3 0.1

**December 2 2018 Hour: 4:24 47.9 Lat: 37.09N Lon: 8.54W Depth: 17F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

S PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	26	337	EP		424	52.72	-.130							1.0
MORF	HE	26	337	ES		424	56.520	.060							1.0
MORF	HE	26	337	IAML		424	56.89			22	0.3				
MESJ	HZ	88	19	EP		425	2.040	.100							1.0
MESJ	HN	88	19	ES		425	12.15	-.030							1.0
MESJ	HN	88	19	IAML		425	13.67			2	0.1				

**December 2 2018 Hour: 7:16 8.5 Lat: 37.20N Lon: 8.56W Depth: 17F Agency: IGL Regional
Magnitudes: 0.2ML 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	14	325	EP		716	12.03	-.090							1.0
MORF	HE	14	325	ES		716	14.830	.090							1.0
MORF	HE	14	325	IAML		716	15.21			5	0.1				

**December 2 2018 Hour: 23:13 54.2 Lat: 52.56S Lon: 18.04E Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs**

SOUTHWEST OF AFRICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10271	339	EP			2327	4.27	-.100							1.0
MORF	BZ10271	339	IAMB			2327	15.22			37	1.4				
MESJ	BZ10318	339	EP			2327	6.340	.100							1.0
MESJ	BZ10318	339	IAMB			2327	9.03			17	1.1				

**December 3 2018 Hour: 0:16 2.1 Lat: 36.92N Lon: 14.03W Depth: 28F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	480	83	EP		017	4.530	.100							1.0
MORF	HE	480	83	ES		017	49.74	-.180							1.0
MORF	HN	480	83	IAML		017	50.95			11	0.2				
MESJ	HZ	525	77	EP		017	9.76	-.060							1.0
MESJ	HN	525	77	ES		017	59.390	.150							1.0
MESJ	HN	525	77	IAML		018	3.51			5	0.2				

**December 3 2018 Hour: 5:55 48.8 Lat: 37.05N Lon: 15.06W Depth: 1 Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	570	85	EP		557	4.40	-.110							1.0
MORF	HE	570	85	ES		557	59.800	.000							1.0
MORF	HE	570	85	IAML		558	3.63			4	0.2				
MESJ	HZ	612	80	EP		557	9.670	.120							1.0
MESJ	HE	612	80	ES		558	8.51	-.010							1.0
MESJ	HE	612	80	IAML		558	11.10			0.60	0.1				

**December 3 2018 Hour: 14: 0 8.2 Lat: 7.36S Lon: 128.73E Depth: 131F Agency: IGL Distant
Rms: 0.1 secs**

KEPULAUAN BARAT DAYA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14545	315	EPKP			1419	3.21	-.080							1.0
MORF	BZ14606	314	EPKP			1419	4.450	.080							1.0

December 3 2018 Hour: 18:55 56.8 Lat: 37.11N Lon: 9.22W Depth: 30F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	55	67	EP		1856	6.36	-.020							1.0
MORF	HN	55	67	ES		1856	13.400	.040							1.0
MORF	HN	55	67	IAML		1856	14.55			5	0.2				
MESJ	HZ	120	47	EP		1856	14.32	-.210							1.0
MESJ	HN	120	47	ES		1856	27.630	.180							1.0
MESJ	HN	120	47	IAML		1856	27.94			0.70	0.2				

December 4 2018 Hour: 8:57 2.9 Lat: 36.72N Lon: 9.68W Depth: 18F 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	112	54	EP		857	20.54	-.010							1.0
MORF	HE	112	54	ES		857	33.500	.050							1.0
MORF	HN	112	54	IAML		857	34.35			13	0.1				
MESJ	HZ	179	46	EP		857	28.88	-.000							1.0
MESJ	HN	179	46	ES		857	47.82	-.040							1.0
MESJ	HN	179	46	IAML		857	48.64			2	0.1				

December 4 2018 Hour: 14:57 31.8 Lat: 36.66N Lon: 5.24W Depth: 8F 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	295	297	EP		1458	13.090	.020							1.0
MESJ	HN	295	297	ES		1458	43.10	-.090							1.0
MESJ	HN	295	297	IAML		1458	45.86			27	0.2				
MORF	HZ	312	284	EP		1458	15.18	-.040							1.0
MORF	HN	312	284	ES		1458	47.020	.120							1.0
MORF	HN	312	284	IAML		1458	48.25			27	0.2				

December 4 2018 Hour: 20:51 3.0 Lat: 37.03N Lon: 8.57W Depth: 15F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	31	346	EP		2051	8.54	-.040							1.0
MORF	HE	31	346	ES		2051	12.690	.040							1.0
MORF	HE	31	346	IAML		2051	13.20			3	0.1				

December 4 2018 Hour: 22:21 8.5 Lat: 37.04N Lon: 9.12W 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	51	55	EP		2221	17.14	-.010							1.0
MORF	HE	51	55	ES		2221	23.470	.010							1.0
MORF	HN	51	55	IAML		2221	24.49			3	0.1				

December 5 2018 Hour: 4:14 36.4 Lat: 21.98S Lon: 169.32E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

SOUTHEAST OF LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18166	356	EPK	Pdf		434	38.53	-.020							1.0
MESJ	BZ18254	353	EPK	Pdf		434	39.28	-.050							1.0
MORF	BZ18318	354	EPK	Pdf		434	39.970	.070							1.0

December 5 2018 Hour: 4:18 6.8 Lat: 21.97S Lon: 169.45E Depth: 10F Agency: IGL Distant
Magnitudes: 7.6Ms IGL Rms: 0.1 secs

SOUTHEAST OF LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18166	356	EPK	Pdf		438	8.95	-.060							1.0
GGNV	BN18166	356	IAMs	20		553	44.07		159000	43.2					
MESJ	BZ18254	353	EPK	Pdf		438	9.78	-.010							1.0
MESJ	BZ18254	353	IAMs	20		549	23.79		112000	21.4					
MORF	BZ18318	354	EPK	Pdf		438	10.430	.070							1.0
MORF	BZ18318	354	IAMs	20		546	24.92		107000	26.4					

December 5 2018 Hour: 6:43 8.7 Lat: 21.84S Lon: 169.75E Depth: 10F Agency: IGL Distant
Magnitudes: 7.0Ms IGL Rms: 0.0 secs

SOUTHEAST OF LOYALTY ISLANDS Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18244	354	EPK	Pab		7 4	4.780	.010							1.0
MESJ	BZ18244	354	IAMs	20		821	23.23		31511	26.5					
MORF	BZ18307	355	EPK	Pab		7 4	7.32	-.010							1.0
MORF	BZ18307	355	IAMs	20		825	37.03		13549	15.2					

December 5 2018 Hour: 13:45 48.2 Lat: 37.28N Lon: 8.97W Depth: 24F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.0 secs

SW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	28	84	EP		1345	54.08	-.010							1.0
MORF	HN	28	84	ES		1345	58.360	.010							1.0
MORF	HN	28	84	IAML		1345	59.00		3	0.1					

December 5 2018 Hour: 16:5 12.9 Lat: 12.78S Lon: 168.52E Depth: 625F Agency: IGL Distant
Rms: 0.1 secs

SANTA CRUZ ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17238	354	EPK	Pab		1624	23.800	.100							1.0
MORF	BZ17302	355	EPK	Pab		1624	26.13	-.100							1.0

December 5 2018 Hour: 21:32 17.9 Lat: 21.77S Lon: 169.73E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

SOUTHEAST OF LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ18299	355	EPK	Pab		2153	16.30	-.010							1.0

December 6 2018 Hour: 3:43 44.7 Lat: 36.00N Lon: 4.62W Depth: 39F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	380	303	EP		344	34.590	.080							1.0
MESJ	HE	380	303	ES		345	10.860	.010							1.0
MESJ	HN	380	303	IAML		345	13.16		11	0.2					
MORF	HZ	389	293	EP		344	35.45	-.110							1.0
MORF	HN	389	293	ES		345	12.690	.020							1.0
MORF	HN	389	293	IAML		345	14.00		10	0.1					

December 6 2018 Hour: 4:58 49.7 Lat: 37.35N Lon: 8.54W Depth: 12F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.0 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	243	EP		458	52.37	-.020							1.0
MORF	HN	11	243	ES		458	54.390	.020							1.0
MORF	HN	11	243	IAML		458	54.84		9	0.2					

December 6 2018 Hour: 4:59 38.4 Lat: 37.05N Lon: 3.91W Depth: 13F 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	392	284	EP		5 0	31.240	.040							1.0

December 6 2018 Hour: 23:26 59.6 Lat: 22.36S Lon: 169.62E Depth: 10F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

SOUTHEAST OF LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18210	357	EPKp	f		2347	2.10	-.030							1.0
GGNV	BZ18210	357	EPP			2351	39.87	-.060							1.0
GGNV	BZ18210	357	IAMs	20		25 0	8.84			4193	30.0				
MESJ	BZ18299	354	EPKp	f		2347	3.030	.130							1.0
MESJ	BZ18299	354	EPP			2351	44.13	-.010							1.0
MESJ	BZ18299	354	IAMs	20		2514	2.84			2645	16.2				
MORF	BZ18363	355	EPKp	f		2347	3.500	.040							1.0
MORF	BZ18363	355	EPP			2351	47.10	-.080							1.0
MORF	BZ18363	355	IAMs	20		2513	36.74			2291	11.8				

December 7 2018 Hour: 6:50 16.8 Lat: 37.82N Lon: 9.01W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	65	151	ES		650	35.420	.110							1.0
MORF	HN	65	151	IAML		650	36.05			15	0.2				
MESJ	HZ	70	88	EP		650	27.97	-.200							1.0
MESJ	HN	70	88	ES		650	36.520	.080							1.0
MESJ	HN	70	88	IAML		650	37.34			7	0.2				

December 7 2018 Hour: 7:36 4.9 Lat: 36.80N Lon: 8.78W Depth: 30F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	57	11	EP		736	14.69	-.020							1.0
MORF	HN	57	11	ES		736	21.940	.020							1.0
MORF	HN	57	11	IAML		736	22.15			5	0.1				

December 7 2018 Hour: 10:45 51.0 Lat: 36.52N Lon: 7.88W 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	111	322	EP		1046	8.70	-.200							1.0
MORF	HE	111	322	ES		1046	22.150	.180							1.0
MORF	HE	111	322	IAML		1046	23.32			39	0.2				
MESJ	HZ	150	348	EP		1046	14.77	-.060							1.0
MESJ	HE	150	348	ES		1046	32.310	.080							1.0
MESJ	HN	150	348	IAML		1046	35.19			8	0.2				

December 7 2018 Hour: 13:19 24.9 Lat: 37.23N Lon: 7.51W Depth: 6F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.2 secs

NW CASTRO MARIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	92	317	EP		1319	39.44	-.340							1.0
MESJ	HE	92	317	ES		1319	50.730	.060							1.0
MESJ	HN	92	317	IAML		1319	52.45			8	0.1				
MORF	HZ	102	275	EP		1319	41.410	.120							1.0
MORF	HE	102	275	ES		1319	53.450	.160							1.0
MORF	HE	102	275	IAML		1319	56.88			35	0.2				

December 7 2018 Hour: 20:49 20.3 Lat: 36.97N Lon: 7.35W Depth: 31F 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	123	322	EP		2049	37.58	-.110							1.0
MESJ	HE	123	322	ES		2049	50.460	.110							1.0
MESJ	HE	123	322	IAML		2049	53.01			2	0.1				

December 8 2018 Hour: 20:49 29.9 Lat: 36.58N Lon: 7.68W Depth: 32F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	148	341	EP		2049	51.050	.060							1.0
MESJ	HN	148	341	ES		2050	6.34	-.060							1.0
MESJ	HN	148	341	IAML		2050	9.28			4	0.2				

December 9 2018 Hour: 3:19 1.5 Lat: 37.33N Lon: 8.57W Depth: 17F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.2 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	249	EP		319	4.36	-.210							1.0
MORF	HN	8	249	ES		319	6.830	.040							1.0
MORF	HE	8	249	IAML		319	7.63			17	0.1				
MESJ	HZ	64	29	EP		319	12.300	.280							1.0
MESJ	HN	64	29	ES		319	19.58	-.100							1.0
MESJ	HN	64	29	IAML		319	20.38			3	0.2				

December 9 2018 Hour: 20:55 47.1 Lat: 37.55N Lon: 14.12W Depth: 8F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	484	92	EP		2056	51.61	-.110							1.0
MORF	HE	484	92	ES		2057	38.81	-.090							1.0
MORF	HE	484	92	IAML		2057	43.71			11	0.1				
MESJ	HZ	521	85	EP		2056	56.260	.140							1.0
MESJ	HN	521	85	ES		2057	46.600	.070							1.0
MESJ	HN	521	85	IAML		2057	53.02			10	0.2				

December 10 2018 Hour: 14: 0 42.0 Lat: 36.60N Lon: 7.10W Depth: 30F 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	159	300	ES		14 1	21.110	.050							1.0
MORF	HN	159	300	IAML		14 1	23.44			8	0.1				
MESJ	HZ	170	325	EP		14 1	6.060	.130							1.0
MESJ	HN	170	325	ES		14 1	23.21	-.180							1.0
MESJ	HN	170	325	IAML		14 1	23.81			1	0.1				

December 10 2018 Hour: 18:58 53.1 Lat: 36.75N Lon: 8.26W Depth: 16F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	71	331	EP		1859	4.650	.140							1.0
MORF	HN	71	331	ES		1859	12.75	-.110							1.0
MORF	HE	71	331	IAML		1859	13.82			15	0.2				
MESJ	HZ	121	2	EP		1859	11.95	-.020							1.0
MESJ	HE	121	2	ES		1859	25.77	-.010							1.0
MESJ	HE	121	2	IAML		1859	27.22			1	0.2				

December 11 2018 Hour: 1:22 37.5 Lat: 34.88N Lon: 4.26W Depth: 8F Agency: IGL Regional
Magnitudes: 2.4ML 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	479	306	EP		123	41.520	.110							1.0
MESJ	HZ	484	314	EP		123	41.94	-.110							1.0
MESJ	HN	484	314	ES		124	29.19	-.000							1.0
MESJ	HN	484	314	IAML		124	34.19			7	0.5				

December 11 2018 Hour: 2:26 34.6 Lat: 58.60S Lon: 26.47W Depth:165F Agency: IGL Distant
Magnitudes: 6.8Ms IGL Rms: 0.1 secs

SOUTH SANDWICH ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10738	14	EP			239	45.030	.050							1.0
MORF	BE10738	14	EScS			250	51.10	-.070							1.0
MORF	BN10738	14	IAMs_20			311	20.09		20265	10.5					
MESJ	BZ10803	14	EP			239	47.33	-.190							0.9
MESJ	BE10803	14	EScS			250	55.970	.050							1.0
MESJ	BZ10803	14	IAMs_20			312	34.72		27710	26.0					
GGNV	BZ10886	14	EP			239	51.910	.060							1.0
GGNV	BE10886	14	EScS			251	2.110	.080							1.0
GGNV	BE10886	14	IAMs_20			3 9	39.12		68899	47.3					

December 11 2018 Hour: 4:40 30.5 Lat: 40.54N Lon: 15.24W Depth: 20F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.0 secs

NORTH ATLANTIC OCEAN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	675	120	EP		441	57.050	.020							1.0
MORF	HE	675	120	ES		443	0.20	-.020							1.0
MORF	HN	675	120	IAML		443	2.30			5	0.2				

December 11 2018 Hour: 20:56 49.1 Lat: 36.46N Lon: 9.71W Depth: 14F 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	133	45	EP		2057	9.760	.040							1.0
MORF	HE	133	45	ES		2057	24.860	.100							1.0
MORF	HE	133	45	IAML		2057	25.78			9	0.2				
MESJ	HZ	202	40	EP		2057	18.25	-.070							1.0
MESJ	HE	202	40	ES		2057	39.54	-.090							1.0
MESJ	HN	202	40	IAML		2057	40.68		0.60	0.1					

December 12 2018 Hour: 0:37 12.8 Lat: 36.92N Lon: 8.59W Depth: 27F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	353	EP		037	20.60	-.060							1.0
MORF	HN	43	353	ES		037	26.460	.060							1.0
MORF	HE	43	353	IAML		037	26.86			4	0.2				

December 13 2018 Hour: 6:26 42.3 Lat: 37.61N Lon: 20.64E Depth: 10F Agency: IGL Distant
Magnitudes: 5.0Mb 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	2534	279	EP		631	45.05	-.020							1.0
MESJ	BZ	2534	279	IAMB		631	46.55			47	0.9				

December 13 2018 Hour: 7:58 27.8 Lat: 37.67N Lon: 1.74W 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	571	274	EP		759	43.780	.130							1.0
MORF	HZ	612	268	EP		759	48.57	-.130							1.0

December 14 2018 Hour: 1:7 9.0 Lat: 35.41N Lon: 3.81W Depth: 7F Agency: IGL Regional
Magnitudes: 2.2ML 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	478	306	EP		1 8	12.88	-.050							1.0
MESJ	HE	478	306	ES		1 8	59.640	.050							1.0
MESJ	HE	478	306	IAML		1 9	1.89			4	0.8				

December 14 2018 Hour: 6:17 29.6 Lat: 57.42N Lon: 33.17W Depth: 10F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2839	129	EP		622	58.41	-.010							1.0
MESJ	BZ	2839	129	IAMB		623	0.94			67	1.3				
MORF	BZ	2869	131	EP		623	0.980	.010							1.0
MORF	BZ	2869	131	IAMB		623	2.72			60	1.0				

December 14 2018 Hour: 19:27 27.0 Lat: 0.04S Lon: 122.97E Depth: 149F Agency: IGL Distant
Rms: 0.1 secs

SULAWESI, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13520	316	EPKpdf			1946	2.36	-.080							1.0
MORF	BZ13582	315	EPKpdf			1946	3.630	.080							1.0

December 15 2018 Hour: 2:42 22.1 Lat: 38.91N Lon: 12.56W Depth: 31F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.3 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	386	116	EP		243	12.320	.220							1.0
MORF	HE	386	116	ES		243	48.28	-.290							1.0
MORF	HE	386	116	IAML		243	50.37			5	0.2				
MESJ	HZ	397	106	EP		243	13.740	.320							1.0
MESJ	HN	397	106	ES		243	50.61	-.250							1.0
MESJ	HE	397	106	IAML		243	53.11			2	0.2				

December 15 2018 Hour: 4:31 15.5 Lat: 36.62N Lon: 7.27W Depth: 24F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	145	302	ES		431	52.25	-.030							1.0
MORF	HN	145	302	IAML		431	52.77			3	0.2				
MESJ	HZ	160	328	EP		431	38.620	.040							1.0
MESJ	HE	160	328	ES		431	55.39	-.010							1.0
MESJ	HE	160	328	IAML		431	56.56			2	0.1				

December 15 2018 Hour: 5:17 14.0 Lat: 38.14N Lon: 8.22W Depth: 4F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	33	180	EP		517	19.450	.060							1.0
MESJ	HN	33	180	ES		517	23.33	-.020							1.0
MESJ	HN	33	180	IAML		517	23.58			44	0.1				
MORF	HZ	100	202	EP		517	30.330	.170							1.0
MORF	HE	100	202	ES		517	41.77	-.210							1.0
MORF	HN	100	202	IAML		517	43.08			34	0.1				

December 16 2018 Hour: 10: 7 34.7 Lat: 37.28N Lon: 8.58W Depth: 10F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	293	EP		10	7	36.61							1.0
MORF	HN	7	293	ES		10	7	38.34							1.0
MORF	HE	7	293	IAML		10	7	38.72		119	0.1				
MESJ	HZ	70	27	EP		10	7	46.06							1.0
MESJ	HE	70	27	ES		10	7	54.23							1.0
MESJ	HE	70	27	IAML		10	7	56.36		4	0.1				

December 16 2018 Hour: 23:12 48.1 Lat: 38.56N Lon: 8.02W Depth: 7F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.0 secs

W EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	82	192	EP		2313		1.35							1.0
MESJ	HE	82	192	ES		2313		11.14							1.0
MESJ	HE	82	192	IAML		2313		14.38		114	0.2				
MORF	HZ	150	202	EP		2313		11.54							1.0
MORF	HE	150	202	ES		2313		28.68							1.0
MORF	HN	150	202	IAML		2313		33.15		225	0.2				

December 17 2018 Hour: 1: 8 11.0 Lat: 36.56N Lon: 71.24E Depth: 225F Agency: IGL Distant
Magnitudes: 4.9Mb 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	6826	298	EP		118		3.35							1.0
MESJ	BZ	6826	298	IAMB		118		4.53		24	0.9				

December 17 2018 Hour: 7: 4 20.9 Lat: 36.61N Lon: 3.58W Depth: 10F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	434	290	EP		7	5	19.34							1.0
MESJ	HN	434	290	ES		7	6	1.73							1.0
MESJ	HE	434	290	IAML		7	6	5.47		0.80	0.1				

December 18 2018 Hour: 0:10 10.9 Lat: 37.32N Lon: 8.53W Depth: 12F 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	11	261	EP		010		13.50							1.0
MORF	HN	11	261	ES		010		15.56							1.0
MORF	HN	11	261	IAML		010		16.22		74	0.2				
MESJ	HZ	64	25	EP		010		21.34							1.0

December 18 2018 Hour: 11:26 28.4 Lat: 36.78N Lon: 11.02W Depth: 26F 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	218	74	EP		1126		58.62							1.0
MORF	HE	218	74	ES		1127		20.74							1.0
MORF	HN	218	74	IAML		1127		23.14		16	0.3				
MESJ	HZ	275	64	EP		1127		5.53							1.0
MESJ	HE	275	64	ES		1127		32.88							1.0
MESJ	HN	275	64	IAML		1127		34.45		2	0.2				

December 18 2018 Hour: 11:38 30.2 Lat: 36.44N Lon: 11.23W Depth: 28F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	249	67	EP		1139	4.03	-.060							1.0
MORF	HN	249	67	ES		1139	28.72	-.130							1.0
MORF	HN	249	67	IAML		1139	30.64			31	0.2				
MESJ	HZ	309	59	EP		1139	11.50	-.040							1.0
MESJ	HN	309	59	ES		1139	41.980	.240							1.0
MESJ	HN	309	59	IAML		1139	45.05			7	0.2				

December 18 2018 Hour: 21: 5 30.9 Lat: 36.43N Lon: 3.72W Depth: 0 Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	429	293	EP		21 6	29.690	.000							1.0
MORF	HZ	450	284	EP		21 6	32.27	-.000							1.0

December 19 2018 Hour: 2:18 2.1 Lat: 37.36N Lon: 9.19W Depth: 28F Agency: IGL Regional
Magnitudes: 1.3ML 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	48	97	EP		218	10.750	.070							1.0
MORF	HE	48	97	ES		218	16.950	.010							1.0
MORF	HN	48	97	IAML		218	17.78			16	0.2				
MESJ	HZ	101	58	EP		218	17.50	-.080							1.0

December 19 2018 Hour: 3:38 38.3 Lat: 30.54N Lon: 41.84W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.0 secs

NORTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3185	66	EP		344	35.040	.020							1.0
MESJ	BZ	3185	66	IAMs_20		352	28.32			10961	24.6				

December 19 2018 Hour: 16: 2 48.6 Lat: 37.28N Lon: 7.75W Depth: 1 Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NE S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	75	326	EP		16 3	0.63	-.020							1.0
MESJ	HN	75	326	ES		16 3	9.520	.070							1.0
MESJ	HN	75	326	IAML		16 3	10.88			4	0.3				
MORF	HZ	80	272	EP		16 3	1.46	-.060							1.0

December 19 2018 Hour: 18:38 17.9 Lat: 37.30N Lon: 8.56W Depth: 9F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

S MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	273	EP		1838	19.78	-.130							1.0
MORF	HE	8	273	ES		1838	21.570	.180							1.0
MORF	HE	8	273	IAML		1838	22.07			26	0.1				
MESJ	HZ	67	27	EP		1838	28.75	-.030							1.0
MESJ	HN	67	27	ES		1838	36.72	-.020							1.0
MESJ	HN	67	27	IAML		1838	37.28			5	0.1				

December 19 2018 Hour: 19:35 52.8 Lat: 36.62N Lon: 21.44E Depth: 20F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

SOUTHERN GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2625	282	EP		1941	2.500	.000							1.0
MESJ	BZ	2625	282	IAMB		1941	8.04			18	0.7				

December 19 2018 Hour: 21:37 45.6 Lat: 6.12S Lon: 149.84E Depth: 9F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.0 secs
NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	15879	331	EPKPdf		2157	18.650	.010							1.0
MORF	BZ	15950	331	EPKPdf		2157	19.79	-.010							1.0
MORF	BZ	15950	331	IAMs_20		23	1	42.47		1241	20.6				

December 19 2018 Hour: 23:42 50.8 Lat: 37.30N Lon: 8.56W Depth: 10F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
S MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		8	273	EP		2342	52.78	-.160						1.0
MORF	HE		8	273	ES		2342	54.550	.030						1.0
MORF	HN		8	273	IAML		2342	54.92			23	0.2			
MESJ	HZ		67	27	EP		2343	1.850	.140						1.0

December 20 2018 Hour: 11: 8 12.8 Lat: 39.10N Lon: 74.77E Depth: 8F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs
SOUTHERN XINJIANG, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6969	298	EP		1118	38.120	.020							1.0
MESJ	BZ	6969	298	IAMB		1118	40.52			30	1.7				

December 20 2018 Hour: 13: 9 41.4 Lat: 36.48N Lon: 7.96W Depth: 14F 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		110	326	EP		13	9	58.860	.030					1.0
MESJ	HZ		153	351	EP		1310	4.34	-.090						1.0
MESJ	HE		153	351	ES		1310	21.280	.050						1.0
MESJ	HN		153	351	IAML		1310	22.46			3	0.1			

December 20 2018 Hour: 17: 1 54.3 Lat: 55.10N Lon: 164.70E Depth: 17F Agency: IGL Distant
Magnitudes: 7.5Ms IGL Rms: 0.1 secs
KOMANDORSKIYE OSTROVA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9597	355	EP		1714	35.160	.120							1.0
GGNV	BN	9597	355	ESKSac		1725	0.45	-.090							1.0
GGNV	BN	9597	355	IAMs_20		1757	14.84			260000	16.0				
MESJ	BZ	9689	354	EP		1714	39.150	.050							1.0
MESJ	BN	9689	354	ESKSac		1725	5.69	-.030							1.0
MESJ	BE	9689	354	ESS		1731	4.29	-.090							1.0
MESJ	BZ	9689	354	IAMs_20		1757	55.77			181000	16.5				
MORF	BZ	9751	355	EP		1714	41.880	.050							1.0
MORF	BE	9751	355	ESKSac		1725	9.21	-.020							1.0
MORF	BZ	9751	355	IAMs_20		1757	11.33			118000	18.2				

December 20 2018 Hour: 17:35 11.0 Lat: 54.85N Lon: 164.69E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.1 secs
KOMANDORSKIYE OSTROVA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9778	355	EP		1748	0.78	-.060							1.0
MORF	BZ	9778	355	IAMB		1748	1.81				27	0.9			

December 21 2018 Hour: 1:10 2.5 Lat: 34.06N Lon: 5.70W Depth: 8F Agency: IGL Regional
Magnitudes: 1.6ML 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		448	324	EP		111	2.70	-.060						1.0
MESJ	HN		477	332	ES		111	52.790	.060						1.0
MESJ	HE		477	332	IAML		111	58.53			1	0.5			

December 21 2018 Hour: 1:42 33.8 Lat: 33.92N Lon: 8.61W Depth: 27F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	376	359	EP		143	23.25	-.220							1.0
MORF	HN	376	359	ES		143	59.890	.150							1.0
MORF	HN	376	359	IAML		144	2.31			4	0.2				
MESJ	HN	436	5	ES		144	12.610	.070							1.0
MESJ	HN	436	5	IAML		144	14.68			3	0.4				

December 21 2018 Hour: 5:23 39.9 Lat: 5.56S Lon: 152.02E Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15938	333	EPKp	f		543	13.66	-.000							1.0

December 21 2018 Hour: 6:25 47.9 Lat: 37.15N Lon: 5.18W Depth: 12F Agency: IGL Regional
Magnitudes: 1.7ML 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	280	287	EP		626	26.850	.020							1.0
MESJ	HE	280	287	ES		626	55.24	-.020							1.0
MESJ	HN	280	287	IAML		627	12.38			4	0.6				

December 21 2018 Hour: 6:33 53.5 Lat: 5.48S Lon: 151.98E Depth: 10F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15891	335	EPKp	f		653	26.540	.100							1.0
GGNV	BZ15891	335	IAMs	_20		759	50.82			3152	21.1				
MESJ	BZ15928	333	EPKp	f		653	26.92	-.140							1.0
MESJ	BZ15928	333	IAMs	_20		8 4	14.15			2523	18.8				
MORF	BZ15998	333	EPKp	f		653	28.250	.040							1.0
MORF	BZ15998	333	IAMs	_20		755	59.45			2368	31.1				

December 21 2018 Hour: 15:46 53.3 Lat: 36.81N Lon: 7.27W Depth: 30F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	135	294	ES		1547	27.14	-.070							1.0
MORF	HE	135	294	IAML		1547	28.21			3	0.2				
MESJ	HZ	142	324	EP		1547	13.820	.030							1.0
MESJ	HE	142	324	ES		1547	28.750	.040							1.0
MESJ	HN	142	324	IAML		1547	30.26			1.00	0.1				

December 21 2018 Hour: 16:24 16.9 Lat: 54.82N Lon: 164.80E Depth: 10F Agency: IGL Distant
Magnitudes: 5.7Mb IGL Rms: 0.0 secs

KOMANDORSKIYE OSTROVA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9782	355	EP		1637	6.95	0.01							1.0
MORF	BZ	9782	355	IAMB		1637	8.36			79	1.8				

December 21 2018 Hour: 18:25 25.3 Lat: 35.20N Lon: 5.82W Depth: 33F Agency: IGL Regional
Magnitudes: 1.2ML 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	HN	345	313	ES		1826	44.450	.140							1.0
MORF	HE	345	313	IAML		1826	45.47			2	0.1				
MESJ	HZ	363	324	EP		1826	12.98	-.170							1.0
MESJ	HE	363	324	ES		1826	48.120	.020							1.0
MESJ	HE	363	324	IAML		1826	49.95			0.30	0.1				

December 22 2018 Hour: 5:37 37.5 Lat: 20.64S Lon: 32.80E Depth: 8F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.0 secs

MOZAMBIQUE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7746	326	EP		548	47.540	.020							1.0
MORF	BE	7746	326	IAMs_20		621	28.65			2321	17.4				
MESJ	BZ	7766	326	EP		548	48.610	.070							1.0
MESJ	BN	7766	326	ES		557	58.92-	.030							1.0
MESJ	BZ	7766	326	IAMs_20		623	47.01			2545	11.8				
GGNV	BZ	7893	326	EP		548	55.42-	.060							1.0
GGNV	BN	7893	326	IAMs_20		623	20.27			4820	11.4				

December 22 2018 Hour: 8:38 10.9 Lat: 36.44N Lon: 9.70W Depth: 32F 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	134	44	EP		838	30.380	.050							1.0
MORF	HN	134	44	ES		838	44.44-	.060							1.0
MORF	HE	134	44	IAML		838	47.14			18	0.2				
MESJ	HZ	204	40	EP		838	38.88-	.070							1.0
MESJ	HE	204	40	ES		838	59.500	.090							1.0
MESJ	HE	204	40	IAML		839	0.13			1.00	0.1				

December 22 2018 Hour: 14:25 1.2 Lat: 13.38S Lon: 166.71E Depth: 42F Agency: IGL Distant
Magnitudes: 6.0Ms 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	BZ17196	352	EPP			1448	47.12-	.020							1.0
GGNV	BZ17196	352	IAMs_20			1556	4.76			2492	19.8				
MESJ	BZ17277	350	EPKPdf			1444	49.230	.110							1.0
MESJ	BZ17277	350	EPKPab			1445	14.95-	.020							1.0
MESJ	BZ17277	350	EPP			1448	51.320	.090							1.0
MESJ	BZ17277	350	IAMs_20			1551	56.50			2005	20.9				
MORF	BZ17343	351	EPKPdf			1444	49.90-	.070							1.0
MORF	BZ17343	351	EPKPab			1445	17.55-	.020							1.0
MORF	BZ17343	351	EPP			1448	54.52-	.060							1.0
MORF	BZ17343	351	IAMs_20			16 3	16.72			1686	17.6				

December 23 2018 Hour: 16:43 49.6 Lat: 36.72N Lon: 7.00W Depth: 31F 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	161	294	EP		1644	11.54-	.080							1.0
MORF	HE	161	294	ES		1644	27.55-	.150							1.0
MORF	HE	161	294	IAML		1644	28.83			16	0.2				
MESJ	HZ	165	319	EP		1644	12.300	.210							1.0
MESJ	HN	165	319	ES		1644	28.520	.020							1.0
MESJ	HN	165	319	IAML		1644	30.61			17	0.1				

December 23 2018 Hour: 19:32 21.8 Lat: 30.50N Lon: 87.71E Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

WESTERN XIZANG Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8480	306	EP		1944	10.63-	.080							1.0
MESJ	BE	8480	306	ES		1953	55.89-	.040							1.0
MESJ	BN	8480	306	IAMs_20		2015	27.57			2667	29.7				
MORF	BZ	8541	306	EP		1944	14.020	.110							1.0
MORF	BE	8541	306	ES		1954	2.120	.010							1.0
MORF	BE	8541	306	IAMs_20		2015	48.26			4038	31.4				

December 23 2018 Hour: 22: 7 24.3 Lat: 37.18N Lon: 4.99W Depth: 0 Agency: IGL Regional
Magnitudes: 1.3ML 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	295	285	EP		22	8	6.21-.080							1.0
MESJ	HE	295	285	ES		22	8	37.060.080							1.0
MESJ	HE	295	285	IAML		22	8	38.58			1	0.2			

December 23 2018 Hour: 23: 8 43.4 Lat: 20.29S Lon: 175.09W Depth: 113F Agency: IGL Distant
Rms: 0.1 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17580		30	EPKPdf		2328	26.050.030								1.0
MESJ	BZ17707		30	EPKPdf		2328	27.550.130								1.0
MESJ	BZ17707		30	EPKPab		2329	5.29-.070								1.0
MORF	BZ17730		32	EPKPdf		2328	27.760.030								1.0
MORF	BZ17730		32	EPKPab		2329	6.23-.120								1.0

December 24 2018 Hour: 12:41 20.8 Lat: 55.42N Lon: 164.44E Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs

KOMANDORSKIYE OSTROVA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9560	355	EP		1254	1.05-.030								1.0
GGNV	BN	9560	355	ESKSac		13	4	27.01-.000							1.0
GGNV	BN	9560	355	IAMs_20		1336	26.93			8959	16.0				
MESJ	BZ	9651	354	EP		1254	5.300.140								1.0
MESJ	BN	9651	354	ESKSac		13	4	32.17-.040							1.0
MESJ	BZ	9651	354	IAMs_20		1339	34.60			5869	15.9				
MORF	BZ	9713	354	EP		1254	7.86-.060								1.0
MORF	BE	9713	354	IAMs_20		1341	55.58			6053	20.6				

December 24 2018 Hour: 20:39 3.4 Lat: 37.51N Lon: 9.27W Depth: 3F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	59	112	EP		2039	12.77-.220								1.0
MORF	HE	59	112	ES		2039	20.080.100								1.0
MORF	HN	59	112	IAML		2039	22.84			20	0.2				
MESJ	HZ	100	68	EP		2039	19.600.110								1.0
MESJ	HN	100	68	ES		2039	31.230.010								1.0
MESJ	HN	100	68	IAML		2039	33.16			12	0.2				

December 24 2018 Hour: 21:57 6.7 Lat: 36.68N Lon: 12.55W Depth: 31F Agency: IGL Regional
Magnitudes: 3.3ML 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	354	78	EP		2157	51.160.110								1.0
MORF	HN	354	78	ES		2158	24.14-.150								1.0
MORF	HN	354	78	IAML		2158	28.04			141	0.2				
GGNV	HZ	376	52	EP		2157	53.870.220								1.0
GGNV	HE	376	52	ES		2158	28.830.010								1.0
GGNV	HN	376	52	IAML		2158	32.40			130	0.2				
MESJ	HZ	405	70	EP		2157	57.320.030								1.0
MESJ	HN	405	70	ES		2158	34.97-.230								1.0
MESJ	HN	405	70	IAML		2158	40.43			41	0.2				

December 25 2018 Hour: 0:46 54.1 Lat: 37.06N Lon: 8.59W Depth: 16F 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	28	348	EP		046	59.09-.100								1.0
MORF	HE	28	348	ES		047	2.960.030								1.0
MORF	HN	28	348	IAML		047	4.14			10	0.2				

MESJ HZ	93	21	EP	047	8.830.050											1.0
MESJ HN	93	21	ES	047	19.560.030											1.0
MESJ HE	93	21	IAML	047	20.82				1	0.1						

December 25 2018 Hour: 1:41 26.2 Lat: 37.35N Lon: 20.78E Depth: 10F Agency: IGL Distant
Magnitudes: 4.7Mb 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	2552	280	EP			146	30.640.010								1.0
MESJ BZ	2552	280	IAMB			146	44.03		25	1.1					

December 25 2018 Hour: 1:54 38.3 Lat: 36.54N Lon: 9.72W Depth: 16F Agency: IGL Regional
Magnitudes: 1.0ML 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	127	48	EP			154	58.110.030								1.0
MORF HN	127	48	ES			155	12.49-.000								1.0
MORF HE	127	48	IAML			155	14.08		6	0.1					
MESJ HZ	196	42	EP			155	6.56-.040								1.0
MESJ HN	196	42	ES			155	27.240.000								1.0
MESJ HN	196	42	IAML			155	27.89		0.70	0.1					

December 25 2018 Hour: 4:48 29.1 Lat: 36.62N Lon: 4.47W Depth: 75F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	359	293	EP			449	16.12-.010								1.0
MESJ HN	359	293	ES			449	50.510.010								1.0
MESJ HN	359	293	IAML			449	52.57		0.70	0.2					

December 25 2018 Hour: 7:18 23.3 Lat: 1.15N Lon: 126.52E Depth: 25F Agency: IGL Distant
Magnitudes: 0.1 secs

MOLUCCA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ BZ13695	318	EPK	pdf			737	17.360.090								1.0
MORF BZ13759	318	EPK	pdf			737	18.33-.090								1.0

December 25 2018 Hour: 7:27 8.4 Lat: 36.78N Lon: 10.98W Depth: 7F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	215	74	EP			727	39.81-.060								1.0
MORF HE	215	74	ES			728	3.070.210								1.0
MORF HE	215	74	IAML			728	5.58		4	0.1					
MESJ HZ	271	64	EP			727	46.80-.040								1.0
MESJ HE	271	64	ES			728	14.81-.110								1.0
MESJ HN	271	64	IAML			728	15.83		0.80	0.2					

December 25 2018 Hour: 8:38 6.2 Lat: 36.72N Lon: 7.34W Depth: 16F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	134	299	EP			838	26.51-.250								1.0
MESJ HZ	147	328	EP			838	28.560.200								1.0
MESJ HN	147	328	ES			838	44.550.050								1.0
MESJ HN	147	328	IAML			838	49.85		27	0.1					

December 25 2018 Hour: 22:45 12.6 Lat: 37.05N Lon: 13.31W Depth: 30F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	414	85	EP			2246	6.71-.090								1.0
MORF HN	414	85	ES			2246	46.490.090								1.0
MORF HN	414	85	IAML			2246	50.91		7	0.2					

December 26 2018 Hour: 2:19 14.9 Lat: 37.62N Lon: 15.10E Depth: 1F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.1 secs

SICILY, ITALY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	2096	276	EP		223	36.18	-.220							1.0
MORF	BN	2096	276	ES		227	9.670	.160							1.0
MORF	BZ	2096	276	IAMs_20		232	38.27		3519	14.4					
GGNV	BZ	2122	281	EP		223	38.920	.010							1.0
GGNV	BE	2122	281	ES		227	15.160	.050							1.0
GGNV	BN	2122	281	IAMs_20		230	55.46		12589	16.1					

December 26 2018 Hour: 9:25 59.5 Lat: 37.34N Lon: 9.03W Depth: 30F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs

W ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	34	97	EP		926	6.39	-.050							1.0
MORF	HE	34	97	ES		926	11.560	.050							1.0
MORF	HN	34	97	IAML		926	12.37		325	0.1					

December 26 2018 Hour: 9:43 3.5 Lat: 36.07N Lon: 10.49W Depth: 31F Agency: IGL Regional
Magnitudes: 3.9ML 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	214	50	EP		943	32.07	-.090							1.0
MORF	HN	214	50	ES		943	53.180	.140							1.0
MORF	HE	214	50	IAML		943	58.10		544	0.2					
GGNV	HE	317	22	ES		944	15.03	-.060							1.0
GGNV	HE	317	22	IAML		944	18.50		661	0.3					

December 26 2018 Hour: 14:11 17.9 Lat: 17.29S Lon: 174.09W Depth: 83F Agency: IGL Distant
Magnitudes: 3.9ML IGL Rms: 0.1 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ17393	30	EP	KPdf		1431	2.320	.120							1.0
MORF	BZ17393	30	EP	KPab		1431	31.20	-.120							1.0

December 26 2018 Hour: 22:6 59.6 Lat: 36.74N Lon: 9.68W Depth: 20F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	111	55	EP		22	7	16.970	.010						1.0
MORF	HN	111	55	ES		22	7	29.61	-.010						1.0
MORF	HN	111	55	IAML		22	7	30.94		6	0.1				

December 27 2018 Hour: 5:20 10.7 Lat: 36.78N Lon: 8.52W 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	HZ	59	349	EP		520	20.58	-.120							1.0
MORF	HE	59	349	ES		520	28.120	.120							1.0
MORF	HE	59	349	IAML		520	30.53		14	0.2					

December 27 2018 Hour: 5:39 11.5 Lat: 10.08S Lon: 161.14E Depth: 71F Agency: IGL Distant
Magnitudes: 3.9ML IGL Rms: 0.0 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ16849	343	EP	KP		558	57.580	.020							1.0

December 27 2018 Hour: 7:30 31.9 Lat: 37.11N Lon: 8.52W Depth: 2F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.0 secs

SE PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	25	331	EP		730	35.930	.030							1.0
MORF	HN	25	331	ES		730	38.77-	.030							1.0
MORF	HN	25	331	IAML		730	39.23			6	0.1				

December 27 2018 Hour: 8:59 11.4 Lat: 10.28N Lon: 67.90W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.1 secs

CARABOBO, VENEZUELA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6617	53	EP		9 9	14.650	.090							1.0
MORF	BZ	6617	53	IAMB		9 9	18.15			62	1.5				
MORF	BE	6617	53	ES		917	24.71-	.090							1.0

December 27 2018 Hour: 9:39 24.0 Lat: 37.31N Lon: 8.61W Depth: 13F Agency: IGL Regional
Magnitudes: 0.4ML 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		939	26.18-	.110							1.0
MORF	HN	4	261	ES		939	28.050	.110							1.0
MORF	HN	4	261	IAML		939	28.76			19	0.1				

December 27 2018 Hour: 12:59 36.7 Lat: 36.77N Lon: 8.17W Depth: 18F 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	73	324	EP		1259	48.700	.120							1.0
MORF	HN	73	324	ES		1259	57.11-	.120							1.0
MORF	HE	73	324	IAML		1259	59.31			9	0.1				

December 27 2018 Hour: 13:37 10.2 Lat: 56.43N Lon: 154.83W Depth: 39F Agency: IGL Distant
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

KODIAK ISLAND REGION, ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9142	27	EP		1349	27.26-	.020							1.0
MORF	BZ	9142	27	IAMB		1349	27.74			14	0.6				

December 27 2018 Hour: 14:21 11.8 Lat: 61.33N Lon: 150.12W Depth: 45F Agency: IGL Distant
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

SOUTHERN ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8531	31	EP		1432	58.45-	.010							1.0
MORF	BZ	8531	31	IAMB		1432	59.52			23	1.2				

December 27 2018 Hour: 16:19 35.0 Lat: 36.97N Lon: 8.71W Depth: 15F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	37	8	EP		1619	41.39-	.040							1.0
MORF	HN	37	8	ES		1619	46.180	.040							1.0
MORF	HE	37	8	IAML		1619	46.90			5	0.1				

December 28 2018 Hour: 0:34 57.5 Lat: 36.42N Lon: 8.01W Depth: 17F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	330	EP		035	15.46-	.010							1.0
MORF	HN	114	330	ES		035	28.570	.010							1.0
MORF	HN	114	330	IAML		035	30.50			17	0.2				

December 28 2018 Hour: 3:33.5 Lat: 1.42S Lon: 134.06E Depth: 41F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

NEAR N COAST OF PAPUA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ14462	322	EPP			324	50.35	-.080							1.0
GGNV	BN14462	322	IAMs_20			422	46.83			3213	14.1				
MORF	BZ14524	321	EPP			324	54.22	0.080							1.0
MORF	BZ14524	321	IAMs_20			425	45.41			1255	19.0				

December 28 2018 Hour: 8:32 59.7 Lat: 37.33N Lon: 8.56W Depth: 12F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

N MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	251	EP		833	2.01	-.110							1.0
MORF	HE	9	251	ES		833	4.03	0.110							1.0
MORF	HE	9	251	IAML		833	4.99			51	0.1				

December 28 2018 Hour: 18:52 30.1 Lat: 36.93N Lon: 8.62W Depth: 26F 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	42	356	EP		1852	37.78	0.040							1.0
MORF	HN	42	356	ES		1852	43.27	-.040							1.0
MORF	HE	42	356	IAML		1852	43.85			15	0.1				

December 29 2018 Hour: 0:41 27.6 Lat: 35.38N Lon: 3.62W Depth: 12F Agency: IGL Regional
Magnitudes: 3.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	500	297	EP		042	33.64	-.060							1.0
MORF	HN	500	297	ES		043	22.01	0.060							1.0
MORF	HN	500	297	IAML		043	28.95			31	0.3				

December 29 2018 Hour: 3:39 10.3 Lat: 5.97N Lon: 126.83E Depth: 60F Agency: IGL Distant
Magnitudes: 7.1Ms 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
GGNV	BZ13323	321	EPdif			354	15.87	-.050							1.0
GGNV	BZ13323	321	EPKpdf			357	53.28	0.060							1.0
GGNV	BZ13323	321	EPP			359	16.79	0.100							1.0
GGNV	BE13323	321	IAMs_20			444	53.43			76665	26.9				
MORF	BZ13382	320	EPdif			354	18.30	-.050							1.0
MORF	BZ13382	320	EPKpdf			357	54.51	0.190							0.9
MORF	BZ13382	320	EPP			359	20.20	-.200							0.9
MORF	BN13382	320	ESS			415	44.76	-.040							1.0
MORF	BE13382	320	IAMs_20			446	57.97			50342	25.3				

December 29 2018 Hour: 21:48 8.1 Lat: 30.93N Lon: 7.04W Depth: 6F Agency: IGL Regional
Magnitudes: 3.1ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	723	349	EP		2149	41.70	-.100							1.0
MORF	HE	723	349	ES		2150	50.28	0.100							1.0
MORF	HN	723	349	IAML		2150	55.49			16	0.2				

December 30 2018 Hour: 18:29 41.1 Lat: 36.95N Lon: 9.68W Depth: 3F 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	99	66	EP		1829	57.18	0.030							1.0
MORF	HN	99	66	ES		1830	8.83	-.030							1.0
MORF	HN	99	66	IAML		1830	10.35			8	0.2				

December 31 2018 Hour: 2:35 37.4 Lat: 54.39N Lon: 161.51W Depth: 31F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9360	21	EP		248	5.44	-.000							1.0
GGNV	BN	9360	21	ESKSac		258	26.11	-.120							1.0
GGNV	BZ	9360	21	IAMs_20		323	51.70		10301	17.8					
MORF	BZ	9522	21	EP		248	12.81	-.070							1.0
MORF	BE	9522	21	ESKSac		258	35.950	.190							1.0
MORF	BZ	9522	21	IAMs_20		324	34.17		11098	22.1					

December 31 2018 Hour: 14:45 1.9 Lat: 36.31N Lon: 9.66W Depth: 9F 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	142	39	EP		1445	24.270	.090							1.0
MORF	HE	142	39	ES		1445	40.34	-.090							1.0
MORF	HE	142	39	IAML		1445	42.62		7	0.2					