

Seismological Bulletin

from the

UNIVERSITY OF LISBON
FACULTY OF SCIENCE

IDL Seismic Network

November to December

2017

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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 2017 Hour: 0:9 30.1 Lat: 21.71S Lon: 168.93E Depth: 10F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.0 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18134	355	EPK	pdf		029	32.000	.040							1.0
GGNV	BZ18134	355	EPP			034	6.830	.060							1.0
GGNV	BZ18134	355	IAMs	_20		141	18.81		4298	28.4					
MORF	BZ18284	353	EPK	pdf		029	33.25-	.080							1.0
MORF	BZ18284	353	EPP			034	13.94-	.020							1.0
MORF	BZ18284	353	IAMs	_20		137	1.08		4212	27.0					

November 1 2017 Hour: 2:23 56.1 Lat: 21.63S Lon: 168.88E Depth: 10F Agency: IGL Distant
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18124	355	EPK	pdf		243	57.98	0.06							1.0
GGNV	BZ18124	355	EPP			248	32.44	0.07							1.0
GGNV	BZ18124	355	IAMs	_20		352	45.92		11954	22.9					
MORF	BZ18274	353	EPK	pdf		243	59.24-	0.05							1.0
MORF	BZ18274	353	EPP			248	39.46-	0.09							1.0
MORF	BZ18274	353	IAMs	_20		351	37.40		11122	22.5					

November 1 2017 Hour: 5:9 1.0 Lat: 21.79S Lon: 168.92E Depth: 10F Agency: IGL Distant
Magnitudes: 5.8Ms IGL Rms: 0.0 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18142	355	EPK	pdf		529	3.050	.080							1.0
GGNV	BZ18142	355	IAMs	_20		649	58.93		1455	20.7					
MORF	BZ18292	353	EPK	pdf		529	4.30-	.030							1.0
MORF	BZ18292	353	EPP			533	45.26-	.040							1.0
MORF	BZ18292	353	IAMs	_20		657	19.35		1279	16.7					

November 1 2017 Hour: 19:27 11.2 Lat: 36.02N Lon: 8.56W Depth: 36F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	143	357	EP		1927	31.60-	.110							1.0
MORF	HE	143	357	ES		1927	46.810	.110							1.0
MORF	HN	143	357	IAML		1927	48.00		6	0.1					

November 1 2017 Hour: 23:29 17.2 Lat: 15.35N Lon: 93.98W Depth: 64F Agency: IGL Distant
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

OFFSHORE CHIAPAS, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8593	55	EP		2341	4.620	.010							1.0
MORF	BZ	8593	55	IAMB		2341	5.91		19	1.2					

November 2 2017 Hour: 3:27 27.3 Lat: 21.82S Lon: 168.79E Depth: 10F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18144	354	EPK	pdf		347	29.370	.120							1.0
GGNV	BZ18144	354	IAMs	_20		5 0	59.24		9224	62.8					
MORF	BZ18294	352	EPK	pdf		347	30.49-	.110							1.0
MORF	BZ18294	352	EPP			352	11.63-	.000							1.0
MORF	BZ18294	352	IAMs	_20		455	0.68		786	16.9					

November 2 2017 Hour: 7:10 44.9 Lat: 37.30N Lon: 8.58W Depth: 13F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 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	274	EP		710	47.350	.010							1.0
MORF	HE	6	274	ES		710	49.10-	.010							1.0
MORF	HN	6	274	IAML		710	49.60		38	0.0					

November 2 2017 Hour: 19:33 36.0 Lat: 36.63N Lon: 11.18W Depth: 27F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	237	71	EP		1934	8.640	.090							1.0
MORF	HE	237	71	ES		1934	32.18-	.090							1.0
MORF	HE	237	71	IAML		1934	34.97		9	0.2					

November 2 2017 Hour: 22:37 12.0 Lat: 37.26N Lon: 7.92W Depth: 19F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs
NW S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	65	275	EP		2237	22.59-	.100							1.0
MORF	HN	65	275	ES		2237	30.580	.100							1.0
MORF	HN	65	275	IAML		2237	32.74		5	0.3					

November 3 2017 Hour: 6:15 6.1 Lat: 37.20N Lon: 8.58W Depth: 22F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs
NW PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	331	EP		615	10.13-	.040							1.0
MORF	HE	13	331	ES		615	13.200	.040							1.0
MORF	HN	13	331	IAML		615	14.32		6	0.1					

November 3 2017 Hour: 11:52 10.1 Lat: 18.74N Lon: 106.64W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3Ms IGL Rms: 0.0 secs
OFF COAST OF JALISCO, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9456	52	EP		12	4	45.82-	.050						1.0
MORF	BE	9456	52	ESKSac		1215	9.410	.050							1.0
MORF	BZ	9456	52	IAMs_20		1243	56.66		1364	24.0					

November 3 2017 Hour: 17:19 4.5 Lat: 36.15N Lon: 4.13W Depth: 11F Agency: IGL Regional
Magnitudes: 3.9ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	424	289	EP		1720	1.550	.010							1.0
MORF	HE	424	289	ES		1720	43.14-	.010							1.0
MORF	HN	424	289	IAML		1720	49.08		266	0.2					

November 3 2017 Hour: 17:22 21.2 Lat: 36.24N Lon: 4.12W Depth: 0 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
MORF	HZ	422	288	EP		1723	18.97-	.140							1.0
MORF	HN	422	288	ES		1724	1.500	.140							1.0
MORF	HN	422	288	IAML		1724	3.08		5	0.2					

November 3 2017 Hour: 18:18 5.6 Lat: 36.34N Lon: 7.62W Depth: 1 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	141	320	EP		1818	28.410	.140							1.0
MORF	HN	141	320	ES		1818	44.68-	.140							1.0
MORF	HE	141	320	IAML		1818	45.53		12	0.1					

November 4 2017 Hour: 0:16 35.8 Lat: 2.48N Lon: 76.02W Depth:161F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	7848	50	EP		027	33.04	-.000							1.0
GGNV	BZ	7848	50	IAmb		027	33.72			137	1.0				
MORF	BZ	7857	51	EP		027	33.59	0.000							1.0
MORF	BZ	7857	51	IAmb		027	35.37			91	1.1				

November 4 2017 Hour: 4:52 12.3 Lat: 35.32N Lon: 9.68W Depth: 31F 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	239	22	EP		452	43.91	-.100							1.0
MORF	HE	239	22	ES		453	7.26	0.100							1.0
MORF	HE	239	22	IAML		453	8.26			7	0.2				

November 4 2017 Hour: 9:0 20.3 Lat: 15.36S Lon: 173.22W Depth: 10F Agency: IGL Distant
Magnitudes: 7.3Ms IGL Rms: 0.1 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	17010	28	EPKPdf		920	9.69	0.070							1.0
GGNV	BE	17010	28	ESS		943	34.56	-.050							1.0
GGNV	BZ	17010	28	IAMs_20		1021	36.17			80974	26.1				
MORF	BZ	17163	29	EPKPdf		920	11.60	-.070							1.0
MORF	BZ	17163	29	EPP		924	9.36	0.130							1.0
MORF	BN	17163	29	ESS		943	49.66	-.080							1.0
MORF	BZ	17163	29	IAMs_20		1020	23.73			38069	26.1				

November 5 2017 Hour: 8:41 42.7 Lat: 37.33N Lon: 8.56W Depth: 13F Agency: IGL Regional
Magnitudes: 1.7ML 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		841	45.21	-.120							1.0
MORF	HE	9	251	ES		841	47.33	0.120							1.0
MORF	HN	9	251	IAML		841	48.08			256	0.1				

November 5 2017 Hour: 22:2 21.9 Lat: 36.25N Lon: 4.14W Depth: 0 Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	419	288	EP		22	3	19.45	-.080						1.0
MORF	HN	419	288	ES		22	4	1.65	0.080						1.0
MORF	HE	419	288	IAML		22	4	4.52			12	0.3			

November 7 2017 Hour: 4:59 25.3 Lat: 37.03N Lon: 8.40W Depth: 17F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SE LAGOA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	38	324	EP		459	31.74	-.110							1.0
MORF	HE	38	324	ES		459	36.77	0.110							1.0
MORF	HE	38	324	IAML		459	37.00				7	0.2			

November 7 2017 Hour: 14:7 53.4 Lat: 35.90N Lon: 8.63W Depth: 12F 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	156	359	EP		14	8	17.18	0.120						1.0
MORF	HE	156	359	ES		14	8	34.33	0.030						1.0
MORF	HN	156	359	IAML		14	8	36.05			4	0.0			
MESJ	HZ	218	10	EP		14	8	24.75	-.040						1.0
MESJ	HN	218	10	ES		14	8	47.55	-.120						1.0
MESJ	HE	218	10	IAML		14	8	49.71			2	0.2			

November 7 2017 Hour: 18:59 35.1 Lat: 36.88N Lon: 4.23W Depth: 34F Agency: IGL Regional
Magnitudes: 2.2ML 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	369	288	EP		19 0	23.62	-.010							1.0
MESJ	HN	369	288	ES		19 0	59.090	.010							1.0
MESJ	HN	369	288	IAML		19 1	2.16			8	0.2				

November 7 2017 Hour: 21:26 38.1 Lat: 4.23S Lon: 143.48E Depth:107F Agency: IGL Distant
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

NEW GUINEA, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15318	328	EP	KPdf		2145	48.92	-.070							1.0
GGNV	BZ15318	328	EPP			2148	36.820	.060							1.0
GGNV	BN15318	328	IAMs	_20		2244	8.24			7498	21.9				
MESJ	BZ15332	326	EP	KPdf		2145	49.17	-.080							1.0
MESJ	BZ15332	326	EPP			2148	37.680	.100							1.0
MESJ	BZ15332	326	IAMs	_20		2243	16.29			6643	33.1				
MORF	BZ15401	326	EP	KPdf		2145	50.34	-.090							1.0
MORF	BZ15401	326	EPP			2148	41.570	.080							1.0
MORF	BZ15401	326	IAMs	_20		2250	26.70			5497	25.7				

November 8 2017 Hour: 4:17 22.6 Lat: 39.23N Lon: 10.72W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	267	125	EP		418	0.08	-.110							1.0
MESJ	HN	267	125	ES		418	27.770	.110							1.0
MESJ	HE	267	125	IAML		418	29.28			1	0.1				

November 8 2017 Hour: 4:31 21.1 Lat: 36.53N Lon: 4.46W Depth: 73F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	365	295	EP		432	8.810	.010							1.0
MESJ	HE	365	295	ES		432	43.680	.050							1.0
MESJ	HN	365	295	IAML		432	44.99			37	0.2				
MORF	HZ	384	284	EP		432	11.120	.000							1.0
MORF	HN	384	284	ES		432	47.57	-.070							1.0
MORF	HN	384	284	IAML		432	48.75			60	0.1				

November 8 2017 Hour: 11: 2 4.5 Lat: 39.17N Lon: 9.00W Depth: 15F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

SE CADAVAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HN	52	194	ES		11 2	19.32	-.050							1.0
GGNV	HN	52	194	IAML		11 2	20.39			146	0.1				
MESJ	HZ	163	155	EP		11 2	28.820	.120							1.0
MESJ	HE	163	155	ES		11 2	46.420	.080							1.0
MESJ	HE	163	155	IAML		11 2	49.11			5	0.3				
MORF	HZ	209	172	EP		11 2	34.39	-.140							0.9

November 8 2017 Hour: 16: 4 19.2 Lat: 38.33N Lon: 9.04W Depth: 7F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	90	127	EP		16 4	33.61	-.150							1.0
MESJ	HE	90	127	ES		16 4	44.630	.210							1.0
MESJ	HE	90	127	IAML		16 4	47.02			8	0.1				
MORF	HZ	119	163	EP		16 4	38.11	-.030							1.0
MORF	HN	119	163	ES		16 4	51.96	-.030							1.0
MORF	HE	119	163	IAML		16 4	53.11			34	0.1				

November 9 2017 Hour: 0:32 52.6 Lat: 37.18N Lon: 8.19W Depth: 10F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

NE ALBUFEIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	289	EP		032	59.72	-.060							1.0
MORF	HE	43	289	ES		033	5.080	.060							1.0
MORF	HN	43	289	IAML		033	6.60			47	0.1				

November 9 2017 Hour: 5:29 14.1 Lat: 37.30N Lon: 8.60W Depth: 10F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	276	EP		529	15.89	-.120							1.0
MORF	HN	5	276	ES		529	17.490	.120							1.0
MORF	HN	5	276	IAML		529	17.93			109	0.1				

November 9 2017 Hour: 20:49 59.4 Lat: 37.12N Lon: 5.20W Depth: 1 Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	279	288	EP		2050	39.380	.030							1.0

November 10 2017 Hour: 0:15 31.7 Lat: 37.08N Lon: 8.49W Depth: 17F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SW LAGOA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	29	330	EP		015	36.92	-.160							1.0
MORF	HN	29	330	ES		015	41.000	.020							1.0
MORF	HE	29	330	IAML		015	41.46			21	0.2				
MESJ	HZ	88	16	EP		015	45.740	.010							1.0
MESJ	HE	88	16	ES		015	56.070	.130							1.0
MESJ	HE	88	16	IAML		015	57.57			4	0.2				

November 10 2017 Hour: 0:49 57.9 Lat: 37.32N Lon: 8.52W Depth: 10F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	262	EP		050	0.33	-.090							1.0
MORF	HE	12	262	ES		050	2.410	.120							1.0
MORF	HN	12	262	IAML		050	2.96			333	0.3				
MESJ	HZ	63	25	EP		050	8.20	-.020							1.0

November 10 2017 Hour: 1:9 2.4 Lat: 36.82N Lon: 8.77W Depth: 24F 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	55	11	EP		1 9	11.63	-.060							1.0
MORF	HE	55	11	ES		1 9	18.540	.050							1.0
MORF	HE	55	11	IAML		1 9	18.77			15	0.2				
MESJ	HE	123	23	ES		1 9	34.400	.010							1.0
MESJ	HE	123	23	IAML		1 9	35.08			0.80	0.1				

November 10 2017 Hour: 10:44 1.2 Lat: 35.04N Lon: 8.16W Depth: 31F 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	255	350	EP		1044	35.020	.090							1.0
MESJ	HE	311	359	ES		1045	11.35	-.100							1.0
MESJ	HN	311	359	IAML		1045	14.25			3	0.1				

November 10 2017 Hour: 11:40 46.7Lat: 36.24N Lon: 8.14W Depth: 24F 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	127	339	EP		1141	5.60	-.100							1.0
MESJ	HZ	178	358	EP		1141	12.070	.070							1.0
MESJ	HN	178	358	ES		1141	30.500	.040							1.0
MESJ	HN	178	358	IAML		1141	31.94			4	0.1				

November 10 2017 Hour: 14:30 2.0 Lat: 36.05N Lon: 6.26W Depth: 2F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	264	319	EP		1430	40.07	-.020							1.0

November 10 2017 Hour: 15:45 17.9Lat: 37.36N Lon: 16.34W Depth: 18F 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	681	88	EP		1546	45.480	.080							1.0
MORF	HE	681	88	ES		1547	49.18	-.120							1.0
MORF	HN	681	88	IAML		1547	50.31			6	0.3				
MESJ	HZ	719	83	EP		1546	49.900	.080							1.0
MESJ	HN	719	83	ES		1547	56.92	-.030							1.0
MESJ	HN	719	83	IAML		1547	58.72			3	0.1				

November 10 2017 Hour: 16:52 23.9Lat: 35.25N Lon: 6.04W Depth: 35F Agency: IGL Regional
Magnitudes: 1.5ML 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	327	315	EP		1653	7.06	-.250							1.0
MORF	HE	327	315	ES		1653	39.180	.170							1.0
MORF	HE	327	315	IAML		1653	40.67			5	0.1				
MESJ	HZ	347	326	EP		1653	9.950	.160							1.0
MESJ	HN	347	326	ES		1653	43.22	-.070							1.0
MESJ	HN	347	326	IAML		1653	45.86			0.70	0.1				

November 10 2017 Hour: 18:35 44.0Lat: 36.57N Lon: 7.80W Depth: 1 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	111	317	EP		1836	1.80	-.130							1.0
MORF	HN	111	317	ES		1836	15.170	.130							1.0
MORF	HN	111	317	IAML		1836	16.19			6	0.2				
MESJ	HE	146	345	ES		1836	24.37	-.000							1.0
MESJ	HE	146	345	IAML		1836	27.15			1	0.1				

November 10 2017 Hour: 21:29 4.2 Lat: 43.13N Lon: 14.69W Depth: 15F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	803	135	EP		2130	46.490	.110							1.0
MESJ	HE	803	135	ES		2132	1.040	.090							1.0
MESJ	HN	803	135	IAML		2132	4.82			1	0.3				
MORF	HZ	826	140	EP		2130	48.95	-.100							1.0
MORF	HE	826	140	ES		2132	5.46	-.110							1.0
MORF	HN	826	140	IAML		2132	7.15			3	0.2				

November 10 2017 Hour: 23:17 16.2 Lat: 36.15N Lon: 7.88W Depth: 6F 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	146	332	EP		2317	39.09	-.040							1.0
MORF	HN	146	332	ES		2317	55.84	-.050							1.0
MORF	HN	146	332	IAML		2317	58.34			14	0.2				
MESJ	HZ	190	351	EP		2317	44.72	0.100							1.0

November 11 2017 Hour: 0:36 14.8 Lat: 11.75S Lon: 14.10W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

ASCENSION ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5460	6	EP		045	2.34	-.050							1.0
MORF	BN	5460	6	ES		052	8.06	-.210							1.0
MORF	BN	5460	6	IAMs_20		1 3	28.56			14034	10.9				
MESJ	BZ	5524	6	EP		045	6.67	-.050							1.0
MESJ	BZ	5524	6	EPP		047	0.94	0.090							1.0
MESJ	BN	5524	6	ES		052	16.41	0.190							1.0
MESJ	BN	5524	6	IAMs_20		1 2	47.72			14410	26.1				
GGNV	BZ	5611	5	EP		045	12.62	-.000							1.0
GGNV	BN	5611	5	ES		052	27.10	0.030							1.0
GGNV	BZ	5611	5	IAMs_20		1 3	19.22			14036	19.0				

November 11 2017 Hour: 1:33 30.5 Lat: 36.42N Lon: 3.39W Depth: 11F Agency: IGL Regional
Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	457	292	EP		1 4	31.38	-.070							1.0

November 11 2017 Hour: 6:53 46.5 Lat: 36.69N Lon: 10.46W Depth: 22F Agency: IGL Regional
Magnitudes: 1.4ML 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	175	66	EP		654	11.60	0.030							1.0
MORF	HN	175	66	ES		654	29.90	0.010							1.0
MORF	HE	175	66	IAML		654	31.12			4	0.1				
MESJ	HZ	236	57	EP		654	19.11	-.050							1.0

November 12 2017 Hour: 2:10 52.7 Lat: 37.29N Lon: 8.54W Depth: 12F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	279	EP		210	55.07	-.200							1.0
MORF	HN	10	279	ES		210	57.21	0.040							1.0
MORF	HE	10	279	IAML		210	58.19			179	0.1				
MESJ	HZ	67	25	EP		211	3.73	0.200							1.0
MESJ	HN	67	25	ES		211	11.43	-.030							1.0
MESJ	HE	67	25	IAML		211	12.65			8	0.1				

November 12 2017 Hour: 4:33 31.4 Lat: 38.08N Lon: 8.40W Depth: 0 Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	31	149	EP		4 3	36.25	-.180							1.0
MESJ	HN	31	149	ES		4 3	40.13	0.050							1.0
MESJ	HN	31	149	IAML		4 3	41.69			8	0.2				
MORF	HZ	89	195	EP		4 3	45.78	0.010							1.0
MORF	HN	89	195	ES		4 3	56.36	0.120							1.0
MORF	HN	89	195	IAML		4 3	57.00			9	0.2				

November 12 2017 Hour: 6:37 56.4 Lat: 36.58N Lon: 9.82W Depth: 16F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	131	52	EP		638	16.670	.010							1.0
MORF	HN	131	52	ES		638	31.40	-.030							1.0
MORF	HN	131	52	IAML		638	32.64		58	0.1					
MESJ	HZ	199	45	EP		638	25.02	-.030							1.0
MESJ	HN	199	45	ES		638	46.010	.050							1.0
MESJ	HE	199	45	IAML		638	47.20		9	0.2					

November 12 2017 Hour: 18:18 16.9 Lat: 34.89N Lon: 45.94E Depth: 23F Agency: IGL Distant
Magnitudes: 7.6Mb IGL Rms: 0.1 secs

IRAN-IRAQ BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4804	290	EP		1826	15.95	-.140							1.0
MESJ	BZ	4804	290	IAMB		1826	28.39		22748	3.6					
MESJ	BN	4804	290	ES		1832	42.470	.110							1.0
MORF	BZ	4855	290	EP		1826	19.870	.010							1.0
MORF	BZ	4855	290	IAMB		1826	30.38		16222	3.2					
MORF	BN	4855	290	ES		1832	49.18	-.010							1.0
GGNV	BZ	4862	292	EP		1826	20.300	.090							1.0
GGNV	BZ	4862	292	IAMB		1826	33.14		32127	2.8					
GGNV	BN	4862	292	ES		1832	49.76	-.070							1.0

November 12 2017 Hour: 22:6 22.7 Lat: 37.32N Lon: 8.49W Depth: 6F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	263	EP		22	6	25.15	-.090						1.0
MORF	HE	15	263	ES		22	6	27.190	.070						1.0
MORF	HE	15	263	IAML		22	6	27.63		38	0.1				
MESJ	HZ	62	22	EP		22	6	32.860	.080						1.0
MESJ	HE	62	22	ES		22	6	40.11	-.060						1.0
MESJ	HN	62	22	IAML		22	6	40.95		1	0.1				

November 12 2017 Hour: 23:42 21.0 Lat: 37.37N Lon: 9.07W Depth: 30F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	38	101	EP		2342	28.33	-.070							1.0
MORF	HE	38	101	ES		2342	33.890	.070							1.0
MORF	HE	38	101	IAML		2342	34.18		15	0.1					

November 13 2017 Hour: 2:28 23.2 Lat: 9.53N Lon: 84.50W Depth: 19F Agency: IGL Distant
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

COSTA RICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8091	52	EP		239	49.81	-.160							1.0
GGNV	BN	8091	52	ES		249	15.04	-.040							1.0
GGNV	BZ	8091	52	IAMs_20		3	9	55.33	51348	22.1					
MORF	BZ	8131	54	EP		239	52.380	.180							1.0
MORF	BE	8131	54	ES		249	19.370	.030							1.0
MORF	BZ	8131	54	IAMs_20		3	5	52.58	63139	26.9					
MESJ	BZ	8170	53	EP		239	54.260	.040							1.0
MESJ	BN	8170	53	ES		249	23.20	-.040							1.0
MESJ	BZ	8170	53	IAMs_20		3	5	50.80	30608	20.6					

November 13 2017 Hour: 14:55 20.5 Lat: 38.35N Lon: 7.99W Depth: 17F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NE VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	60	200	EP		1455	30.510	.110							1.0
MESJ	HN	60	200	ES		1455	37.48	-.110							1.0
MESJ	HN	60	200	IAML		1455	37.94			5	0.1				

November 14 2017 Hour: 18:44 2.4 Lat: 18.92S Lon: 171.70W Depth: 10F Agency: IGL Distant
Rms: 0.0 secs

TONGA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17390	34	EP	KPdf		19 3	56.56	-.050							1.0
MORF	BZ17407	36	EP	KPdf		19 3	56.920	.050							1.0

November 14 2017 Hour: 20:18 58.1 Lat: 37.81N Lon: 9.31W Depth: 6F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.2 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	81	134	EP		2019	10.78	-.350							1.0
MORF	HN	81	134	ES		2019	20.820	.150							1.0
MORF	HN	81	134	IAML		2019	23.16			11	0.1				
MESJ	HZ	96	88	EP	4	2019	13.610	.030							1.0
MESJ	HN	96	88	ES	4	2019	25.100	.190							1.0
MESJ	HN	96	88	IAML		2019	26.71			5	0.2				

November 14 2017 Hour: 22:35 14.7 Lat: 37.72N Lon: 8.96W Depth: 22F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.2 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	54	149	EP		2235	23.48	-.270							1.0
MORF	HE	54	149	ES		2235	30.430	.040							1.0
MORF	HE	54	149	IAML		2235	32.01			11	0.1				
MESJ	HZ	67	78	EP		2235	25.650	.030							1.0
MESJ	HE	67	78	ES		2235	33.820	.200							1.0
MESJ	HE	67	78	IAML		2235	34.91			2	0.1				

November 15 2017 Hour: 0:24 33.7 Lat: 13.07N Lon: 143.71E Depth: 128F Agency: IGL Distant
Rms: 0.1 secs

GUAM REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13681	334	EP	KPdf		043	14.550	.090							1.0
MORF	BZ13752	334	EP	KPdf		043	15.63	-.090							1.0

November 15 2017 Hour: 0:36 11.6 Lat: 6.10S Lon: 154.50E Depth: 58F 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	BZ16109	336	EP	KP		055	40.58	-.050							1.0
MORF	BZ16180	336	EP	KP		055	42.320	.050							1.0

November 15 2017 Hour: 4:45 24.9 Lat: 38.73N Lon: 9.52W Depth: 0 Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.0 secs

NW CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	151	131	EP		445	49.03	-.020							1.0
MESJ	HN	151	131	ES		446	6.710	.020							1.0
MESJ	HN	151	131	IAML		446	9.84			1	0.1				

November 16 2017 Hour: 5:54 12.3 Lat: 35.90N Lon: 10.07W Depth: 33F Agency: IGL Regional
 Magnitudes: 3.8ML 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	201	39	EP		554	40.240	.180							1.0
MORF	HE	201	39	ES		555	0.30-	.010							1.0
MORF	HE	201	39	IAML		555	3.59		843	0.1					
MESJ	HZ	271	37	EP		554	48.810	.060							1.0
MESJ	HN	271	37	ES		555	15.550	.200							1.0
MESJ	HN	271	37	IAML		555	17.53		232	0.2					
GGNV	HZ	323	14	EP		554	54.76-	.420							0.9
GGNV	HN	323	14	ES		555	26.42-	.050							0.9
GGNV	HN	323	14	IAML		555	30.77		649	0.5					

November 16 2017 Hour: 7: 2 38.0 Lat: 21.52S Lon: 168.48E Depth: 10F Agency: IGL Distant
 Rms: 0.1 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18108	354	EPK	Pdf		722	39.730	.070							1.0
MESJ	BZ18191	351	EPK	Pdf		722	40.550	.130							1.0
MESJ	BZ18191	351	EPK	Pab		723	31.91-	.160							1.0
MESJ	BZ18191	351	EPP			727	17.520	.050							1.0
MORF	BZ18257	352	EPK	Pdf		722	41.060	.030							1.0
MORF	BZ18257	352	EPK	Pab		723	34.49-	.220							0.9
MORF	BZ18257	352	EPP			727	20.660	.050							1.0

November 16 2017 Hour: 7: 3 57.6 Lat: 21.47S Lon: 168.67E Depth: 10F Agency: IGL Distant
 Rms: 0.0 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18189	351	EPK	Pab		724	51.55-	.040							1.0
MORF	BZ18254	352	EPK	Pab		724	54.250	.040							1.0

November 16 2017 Hour: 7:37 21.6 Lat: 21.54S Lon: 168.46E Depth: 10F Agency: IGL Distant
 Rms: 0.0 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18193	351	EPK	P		758	15.750	.030							1.0
MORF	BZ18259	352	EPK	P		758	18.34-	.030							1.0

November 16 2017 Hour: 9:30 51.0 Lat: 34.92N Lon: 4.28W Depth: 7F 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	474	305	EP		931	54.57-	.000							1.0
MORF	HN	474	305	ES		932	41.100	.140							1.0
MORF	HN	474	305	IAML		932	45.38		9	0.3					
MESJ	HN	480	314	ES		932	41.88-	.130							1.0
MESJ	HN	480	314	IAML		932	46.88		6	0.2					

November 16 2017 Hour: 9:43 35.7 Lat: 32.28N Lon: 140.53E Depth: 80F Agency: IGL Distant
 Magnitudes: 5.4Ms IGL Rms: 0.0 secs

IZU ISLANDS, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11611	335	EPP			10 1	50.750	.040							1.0
MESJ	BZ11611	335	IAMs_20			1049	32.07		1318	24.1					

November 16 2017 Hour: 11:52 51.0Lat: 36.00N Lon: 7.72W Depth: 7F 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	167	330	EP		1153	16.40	-.130							1.0
MESJ	HZ	209	348	EP		1153	21.840	.130							1.0
MESJ	HE	209	348	ES		1153	44.120	.000							1.0
MESJ	HN	209	348	IAML		1153	45.20			2	0.1				

November 16 2017 Hour: 14:50 4.0 Lat: 10.08S Lon: 160.93E Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.0 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16773	342	EP	KPab		1510	3.460	.050							1.0
MORF	BZ16842	343	EP	KPab		1510	6.01	-.050							1.0
MORF	BZ16842	343	IAMs_20			1623	58.60			801	27.7				

November 16 2017 Hour: 17:22 51.7Lat: 37.49N Lon: 7.59W Depth: 20F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

NW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	68	305	EP		1723	2.74	-.000							1.0
MESJ	HN	68	305	ES		1723	10.67	-.160							1.0
MESJ	HN	68	305	IAML		1723	11.92			10	0.2				
MORF	HZ	96	258	EP		1723	7.070	.070							1.0
MORF	HE	96	258	ES		1723	18.290	.090							1.0
MORF	HN	96	258	IAML		1723	19.73			8	0.3				

November 17 2017 Hour: 5: 8 17.0 Lat: 36.64N Lon: 9.76W Depth: 16F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	53	EP		5 8	36.19	-.020							1.0
MORF	HN	123	53	ES		5 8	50.250	.020							1.0
MORF	HE	123	53	IAML		5 8	51.88			15	0.2				
MESJ	HZ	191	45	EP		5 8	44.51	-.070							1.0
MESJ	HN	191	45	ES		5 9	4.780	.070							1.0
MESJ	HN	191	45	IAML		5 9	6.42			2	0.1				

November 17 2017 Hour: 13:40 39.8Lat: 2.49S Lon: 79.79W Depth: 79F Agency: IGL Distant
Magnitudes: 4.9Mb IGL Rms: 0.3 secs

NEAR COAST OF ECUADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8529	51	EP		1352	22.570	.410							1.0
MORF	BZ	8529	51	IAMB		1352	24.90			55	1.5				
MORF	BZ	8529	51	EP	P	1352	42.37	-.470							1.0
MESJ	BZ	8580	50	EP		1352	24.61	-.080							1.0
MESJ	BZ	8580	50	IAMB		1352	26.39			8	1.0				
MESJ	BZ	8580	50	EP	P	1352	45.570	.180							1.0
MESJ	BZ	8580	50	ES	P	1352	54.26	-.060							1.0

November 17 2017 Hour: 13:46 37.2Lat: 36.64N Lon: 11.15W Depth: 30F 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	234	71	EP		1347	9.05	-.070							1.0
MORF	HE	234	71	ES		1347	32.520	.070							1.0
MORF	HE	234	71	IAML		1347	34.38			2	0.1				

November 17 2017 Hour: 16:45 46.8 Lat: 19.81S Lon: 69.22W Depth:106F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

TARAPACA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9019	45	EP		1657	50.170	.020							1.0
MESJ	BZ	9019	45	IAMB		1657	54.08			17	1.3				

November 17 2017 Hour: 18:42 20.1 Lat: 37.37N Lon: 8.56W Depth: 12F Agency: IGL Regional
Magnitudes: 0.7ML 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	11	228	EP		1842	22.69	-.100							1.0
MORF	HN	11	228	ES		1842	24.790	.040							1.0
MORF	HN	11	228	IAML		1842	25.57			45	0.1				
MESJ	HZ	60	30	EP		1842	29.940	.050							1.0
MESJ	HN	60	30	ES		1842	37.050	.020							1.0
MESJ	HN	60	30	IAML		1842	38.21			2	0.2				

November 17 2017 Hour: 22:34 19.3 Lat: 29.83N Lon: 94.98E Depth: 8F Agency: IGL Distant
Magnitudes: 6.4Ms IGL Rms: 0.1 secs

EASTERN XIZANG-INDIAN BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9082	309	EP		2246	38.20	-.010							1.0
MESJ	BN	9082	309	ES		2256	51.710	.070							1.0
MESJ	BZ	9082	309	IAMs_20		2328	43.88			17196	21.2				
GGNV	BZ	9100	310	EP		2246	39.04	-.010							1.0
GGNV	BE	9100	310	ES		2256	53.17	-.110							1.0
GGNV	BN	9100	310	IAMs_20		2328	15.63			14474	15.3				
MORF	BZ	9145	309	EP		2246	41.24	-.040							1.0
MORF	BN	9145	309	ES		2256	57.710	.090							1.0
MORF	BZ	9145	309	IAMs_20		2330	58.42			13933	14.1				

November 18 2017 Hour: 4:23 45.4 Lat: 2.89S Lon: 79.68W Depth: 29F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

NEAR COAST OF ECUADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8547	51	EP		435	34.600	.020							1.0
MORF	BZ	8547	51	IAMB		435	38.36			46	1.3				
MESJ	BZ	8599	50	EP		435	37.10	-.020							1.0
MESJ	BZ	8599	50	IAMB		435	42.33			54	1.8				

November 18 2017 Hour: 8:29 42.6 Lat: 36.79N Lon: 7.93W Depth: 24F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	86	312	EP		829	56.19	-.160							1.0
MORF	HN	86	312	ES		830	6.430	.070							1.0
MORF	HN	86	312	IAML		830	7.14			7	0.1				
MESJ	HZ	119	348	EP		830	0.690	.030							1.0
MESJ	HE	119	348	ES		830	13.880	.060							1.0
MESJ	HN	119	348	IAML		830	14.60			3	0.1				

November 18 2017 Hour: 16: 7 2.4 Lat: 2.38N Lon: 128.14E Depth: 20F Agency: IGL Distant
Magnitudes: 5.7Ms IGL Rms: 0.1 secs

HALMAHERA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	13713	319	EPP		1627	37.47	-.020							1.0
MESJ	BZ	13713	319	IAMs_20		1720	53.47			922	15.1				
GGNV	BZ	13723	321	EPP		1627	38.160	.070							1.0
GGNV	BZ	13723	321	IAMs_20		1734	47.89			1769	11.1				
MORF	BZ	13778	319	EPP		1627	41.44	-.050							1.0
MORF	BZ	13778	319	IAMs_20		1725	6.96			1290	18.6				

November 18 2017 Hour: 16:22 50.6 Lat: 36.61N Lon: 4.88W Depth: 31F Agency: IGL Regional
 Magnitudes: 1.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	326	296	EP		1623	33.05	-.100							1.0
MESJ	HN	326	296	ES		1624	4.230	.020							1.0
MESJ	HN	326	296	IAML		1624	7.31			3	0.2				
MORF	HZ	345	284	EP		1623	35.550	.080							1.0

November 18 2017 Hour: 17:7 24.9 Lat: 15.22N Lon: 93.85W Depth: 61F Agency: IGL Distant
 Magnitudes: 5.0Mb IGL Rms: 0.1 secs

OFFSHORE CHIAPAS, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8590	55	EP		1719	12.580	.120							1.0
MORF	BZ	8590	55	IAMB		1719	14.81			24	1.0				
MESJ	BZ	8618	54	EP		1719	13.69	-.120							1.0
MESJ	BZ	8618	54	IAMB		1719	15.47			10	0.7				

November 18 2017 Hour: 23:51 48.8 Lat: 38.77N Lon: 8.02W Depth: 20F Agency: IGL Regional
 Magnitudes: 2.1ML IGL Rms: 0.1 secs

NW ARRAILOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	105	190	EP		2352	5.300	.010							1.0
MESJ	HE	105	190	ES		2352	17.510	.180							1.0
MESJ	HN	105	190	IAML		2352	18.57			38	0.1				
MORF	HZ	172	199	EP		2352	13.51	-.200							1.0

November 19 2017 Hour: 0:8 22.0 Lat: 38.79N Lon: 8.02W Depth: 17F Agency: IGL Regional
 Magnitudes: 1.7ML IGL Rms: 0.0 secs

NW ARRAILOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	107	189	EP		0 8	38.90	-.050							1.0
MESJ	HE	107	189	ES		0 8	51.28	-.010							1.0
MESJ	HN	107	189	IAML		0 8	52.48			17	0.1				
MORF	HZ	174	199	EP		0 8	47.540	.060							1.0

November 19 2017 Hour: 2:53 11.0 Lat: 37.34N Lon: 8.54W Depth: 12F Agency: IGL Regional
 Magnitudes: 0.8ML IGL Rms: 0.2 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	248	EP		253	13.38	-.300							1.0
MORF	HN	11	248	ES		253	15.820	.190							1.0
MORF	HN	11	248	IAML		253	16.18			80	0.2				
MESJ	HZ	62	27	EP		253	21.220	.100							1.0
MESJ	HN	62	27	ES		253	28.520	.020							1.0
MESJ	HN	62	27	IAML		253	31.07			2	0.1				

November 19 2017 Hour: 9:25 50.1 Lat: 21.58S Lon: 168.61E Depth: 25F Agency: IGL Distant
 Magnitudes: 6.5Ms IGL Rms: 0.1 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18116	354	EPKp \bar{d} f			945	49.26	-.030							1.0
GGNV	BZ18116	354	IAMs $\bar{2}$ 0			11 0	0.66			8681	20.9				
MESJ	BZ18200	351	EPKp \bar{d} f			945	50.05	-.000							1.0
MESJ	BZ18200	351	EPP			950	27.590	.060							1.0
MESJ	BZ18200	351	IAMs $\bar{2}$ 0			1058	32.68			7484	21.6				
MORF	BZ18265	352	EPKp \bar{d} f			945	50.710	.060							1.0
MORF	BZ18265	352	EPP			950	30.58	-.080							1.0
MORF	BZ18265	352	IAMs $\bar{2}$ 0			11 0	19.07			9296	30.3				

November 19 2017 Hour: 9:55 10.2 Lat: 36.07N Lon: 9.68W Depth: 31F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	165	34	EP		955	32.66	-.110							1.0
MORF	HN	165	34	ES		955	49.05	-.170							1.0
MORF	HN	165	34	IAML		955	50.48			129	0.2				
MESJ	HZ	236	33	EP		955	41.570	.060							1.0
MESJ	HN	236	33	ES		956	4.570	.230							1.0
MESJ	HE	236	33	IAML		956	7.49			17	0.2				

November 19 2017 Hour: 15:9 3.1 Lat: 21.52S Lon: 168.54E Depth: 14F Agency: IGL Distant
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18109	354	EPK	Pdf		1529	4.160	.060							1.0
GGNV	BZ18109	354	IAMs	_20		1637	23.49			17018	28.8				
MESJ	BZ18192	351	EPK	Pdf		1529	4.920	.050							1.0
MESJ	BZ18192	351	EPP			1533	41.97	-.010							1.0
MESJ	BZ18192	351	IAMs	_20		1638	17.40			14432	29.0				
MORF	BZ18258	352	EPK	Pdf		1529	5.36	-.110							1.0
MORF	BZ18258	352	EPP			1533	45.120	.010							1.0
MORF	BZ18258	352	IAMs	_20		1637	35.87			9827	18.0				

November 19 2017 Hour: 22:43 29.2 Lat: 21.33S Lon: 168.68E Depth: 10F Agency: IGL Distant
Magnitudes: 7.1Ms IGL Rms: 0.1 secs

LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18089	354	EPK	Pdf		23 3	30.72	-.010							1.0
GGNV	BZ18089	354	EPP			23 8	3.82	-.010							1.0
GGNV	BZ18089	354	IAMs	_20		2418	28.97			30193	19.6				
MESJ	BZ18174	351	EPK	Pdf		23 3	31.520	.010							1.0
MESJ	BZ18174	351	EPP			23 8	7.920	.050							1.0
MESJ	BZ18174	351	IAMs	_20		2417	55.54			35710	23.8				
MORF	BZ18239	352	EPK	Pdf		23 3	32.06	-.060							1.0
MORF	BZ18239	352	EPK	Pab		23 4	25.380	.130							1.0
MORF	BZ18239	352	EPP			23 8	10.90	-.100							1.0
MORF	BZ18239	352	IAMs	_20		2418	10.03			36080	30.6				

November 20 2017 Hour: 2:50 27.6 Lat: 35.75N Lon: 9.94W Depth: 32F 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	207	33	EP		250	56.330	.150							1.0
MORF	HE	207	33	ES		251	16.88	-.150							1.0
MORF	HN	207	33	IAML		251	17.91			5	0.1				

November 20 2017 Hour: 23:27 37.4 Lat: 36.71N Lon: 9.72W Depth: 21F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	116	55	EP		2327	55.25	-.040							1.0
MORF	HN	116	55	ES		2328	8.380	.070							1.0
MORF	HN	116	55	IAML		2328	9.15			5	0.2				
MESJ	HZ	183	46	EP		2328	3.51	-.080							1.0
MESJ	HN	183	46	ES		2328	22.740	.050							1.0
MESJ	HN	183	46	IAML		2328	23.72			0.50	0.2				

November 21 2017 Hour: 6:7 40.8 Lat: 37.03N Lon: 8.11W Depth: 20F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

SW LOULE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	57	302	EP		6 7	50.09	-.220							1.0
MORF	HN	57	302	ES		6 7	57.450	.200							1.0
MORF	HN	57	302	IAML		6 7	58.87			19	0.2				
MESJ	HZ	90	354	EP		6 7	55.260	.010							1.0
MESJ	HN	90	354	ES		6 8	5.820	.020							1.0
MESJ	HN	90	354	IAML		6 8	6.83			8	0.2				

November 21 2017 Hour: 7:0 19.3 Lat: 36.65N Lon: 12.67W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	365	77	ES		7 1	41.20	-.030							1.0
MORF	HE	365	77	IAML		7 1	42.41			4	0.1				
MESJ	HZ	416	70	EP		7 1	12.910	.070							1.0
MESJ	HN	416	70	ES		7 1	51.91	-.040							1.0
MESJ	HE	416	70	IAML		7 1	53.30			0.90	0.1				

November 22 2017 Hour: 5:52 21.9 Lat: 38.08N Lon: 8.92W Depth: 10F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	67	113	EP		552	32.69	-.180							1.0
MESJ	HE	67	113	ES		552	40.950	.090							1.0
MESJ	HE	67	113	IAML		552	42.58			2	0.1				
MORF	HZ	89	165	EP		552	36.390	.130							1.0
MORF	HN	89	165	ES		552	46.67	-.050							1.0
MORF	HE	89	165	IAML		552	48.50			3	0.1				

November 22 2017 Hour: 12:0 59.5 Lat: 36.96N Lon: 8.59W Depth: 16F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	39	352	EP		12 1	6.04	-.140							1.0
MORF	HE	39	352	ES		12 1	11.130	.090							1.0
MORF	HE	39	352	IAML		12 1	12.09			60	0.1				
MESJ	HZ	103	18	EP		12 1	15.880	.070							1.0
MESJ	HN	103	18	ES		12 1	27.69	-.020							1.0
MESJ	HN	103	18	IAML		12 1	29.21			4	0.1				

November 22 2017 Hour: 22:33 39.6 Lat: 36.62N Lon: 11.10W Depth: 13F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	231	70	EP		2234	12.42	-.060							1.0
MORF	HN	231	70	ES		2234	36.580	.120							1.0
MORF	HE	231	70	IAML		2234	37.64			4	0.1				
MESJ	HZ	289	61	EP		2234	19.65	-.050							1.0
MESJ	HN	289	61	ES		2234	48.95	-.000							1.0
MESJ	HE	289	61	IAML		2234	50.33			0.40	0.1				

November 23 2017 Hour: 5:33 36.1 Lat: 36.94N Lon: 8.74W Depth: 29F 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	41	11	EP		533	43.81	-.050							1.0
MORF	HN	41	11	ES		533	49.630	.100							1.0
MORF	HE	41	11	IAML		533	50.37			14	0.1				
MESJ	HZ	110	25	EP		533	52.59	-.050							1.0

November 23 2017 Hour: 9:43 35.5 Lat: 29.36N Lon: 108.10E Depth: 10F Agency: IGL Distant
Magnitudes: 5.8Mb IGL Rms: 0.1 secs
CHONGQING-HUBEI BORDER REGION, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10065	315	EP			956	37.800	.080							1.0
MESJ	BZ10065	315	IAMB			956	38.53			99	1.7				

November 23 2017 Hour: 12:34 45.6 Lat: 36.74N Lon: 8.06W Depth: 23F 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
MESJ	HZ	123	353	EP		1235	4.420	.030							1.0
MESJ	HN	123	353	ES		1235	18.09	-.030							1.0
MESJ	HE	123	353	IAML		1235	19.99			2	0.1				

November 24 2017 Hour: 14: 5 32.4 Lat: 35.42N Lon: 3.75W Depth: 14F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	481	305	EP		14 6	35.96	-.020							1.0
MESJ	HN	481	305	ES		14 7	22.38	-.040							1.0
MESJ	HE	481	305	IAML		14 7	25.22			6	0.2				
MORF	HZ	487	297	EP		14 6	36.740	.050							1.0

November 24 2017 Hour: 18:51 39.0 Lat: 36.84N Lon: 21.45E Depth: 10F Agency: IGL Distant
Magnitudes: 4.7Mb IGL Rms: 0.1 secs
SOUTHERN GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2621	281	EP		1856	49.87	-.090							1.0
MESJ	BZ	2621	281	IAMB		1856	50.38			21	0.9				

November 24 2017 Hour: 22:20 36.5 Lat: 35.67N Lon: 3.63W Depth: 0 Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	476	302	EP		2221	40.93	-.010							1.0
MESJ	HN	476	302	ES		2222	27.990	.020							1.0
MESJ	HN	476	302	IAML		2222	35.10			9	0.3				
MORF	HZ	486	293	EP		2221	42.17	-.000							1.0

November 24 2017 Hour: 23:58 22.2 Lat: 36.47N Lon: 7.69W Depth: 31F Agency: IGL Regional
Magnitudes: 2.8ML 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	126	317	EP		2358	39.65	-.260							1.0
MESJ	HZ	159	343	EP		2358	44.100	.140							1.0
MESJ	HE	159	343	ES		2358	60.000	.140							1.0
MESJ	HN	159	343	IAML		2359	2.37			108	0.1				

November 25 2017 Hour: 4:44 11.9 Lat: 36.09N Lon: 4.12W Depth: 2F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.2 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	414	299	EP		445	8.38	-.140							1.0
MESJ	HN	414	299	ES		445	49.81	-.060							1.0
MESJ	HN	414	299	IAML		445	53.87			8	0.2				
MORF	HZ	427	290	EP		445	10.07	-.140							1.0
MORF	HN	427	290	ES		445	53.140	.350							1.0
MORF	HN	427	290	IAML		445	57.72			36	0.3				

November 25 2017 Hour: 7: 5 57.6 Lat: 37.32N Lon: 8.61W Depth: 16F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	4	245	EP		7 6	0.380	.020							1.0
MORF	HN	4	245	ES		7 6	2.32	-.020							1.0
MORF	HN	4	245	IAML		7 6	3.01			81	0.1				

November 25 2017 Hour: 7:19 34.3 Lat: 37.27N Lon: 8.40W Depth: 8F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

NE SILVES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	23	280	EP		719	38.16	-.020							1.0
MORF	HN	23	280	ES		719	41.040	.000							1.0
MORF	HE	23	280	IAML		719	41.54			1021	0.2				
MESJ	HZ	65	14	EP		719	45.060	.200							1.0
MESJ	HN	65	14	ES		719	52.40	-.190							1.0
MESJ	HN	65	14	IAML		719	56.54			73	0.1				

November 25 2017 Hour: 13: 3 18.5 Lat: 36.14N Lon: 10.78W Depth: 27F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	230	55	EP		13 3	50.150	.030							1.0
MORF	HN	230	55	ES		13 4	13.190	.010							1.0
MORF	HN	230	55	IAML		13 4	15.71			24	0.3				
MESJ	HZ	296	50	EP		13 3	58.17	-.120							1.0
MESJ	HE	296	50	ES		13 4	27.390	.080							1.0
MESJ	HE	296	50	IAML		13 4	28.53			5	0.1				

November 25 2017 Hour: 20:45 14.5 Lat: 36.33N Lon: 7.90W 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	HZ	127	328	EP		2045	34.030	.070							1.0
MORF	HN	127	328	ES		2045	48.10	-.070							1.0
MORF	HN	127	328	IAML		2045	49.73			3	0.1				

November 25 2017 Hour: 22:54 31.9 Lat: 35.71N Lon: 4.69W Depth: 25F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	394	308	EP		2255	24.080	.050							1.0
MESJ	HN	394	308	ES		2256	2.08	-.020							1.0
MESJ	HN	394	308	IAML		2256	4.21			19	0.2				
MORF	HZ	397	298	EP		2255	24.26	-.140							1.0
MORF	HN	397	298	ES		2256	2.850	.120							1.0
MORF	HN	397	298	IAML		2256	4.77			29	0.1				

November 26 2017 Hour: 2: 9 42.0 Lat: 36.31N Lon: 8.12W Depth: 10F 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	120	337	EP		210	1.050	.000							1.0
MESJ	HZ	170	357	EP		210	7.600	.010							1.0
MESJ	HE	170	357	ES		210	26.23	-.010							1.0
MESJ	HN	170	357	IAML		210	26.74			3	0.2				

November 26 2017 Hour: 4:19 53.3 Lat: 36.69N Lon: 12.61W Depth: 31F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	359	78	EP		420	39.990	.100							1.0
MORF	HN	359	78	ES		421	13.91	-.010							1.0
MORF	HE	359	78	IAML		421	15.90			28	0.1				
MESJ	HZ	410	71	EP		420	45.95	-.110							1.0
MESJ	HE	410	71	ES		421	24.600	.010							1.0
MESJ	HN	410	71	IAML		421	28.06			10	0.1				

November 26 2017 Hour: 6:56 58.7 Lat: 38.76N Lon: 8.03W Depth: 7F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NW ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	104	189	EP		657	15.430	.140							1.0
MESJ	HN	104	189	ES		657	27.41	-.030							1.0
MESJ	HE	104	189	IAML		657	28.40			9	0.2				
MORF	HZ	171	199	EPg		657	26.08	-.110							1.0

November 26 2017 Hour: 14: 7 48.3 Lat: 37.33N Lon: 8.60W Depth: 10F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	239	EP		14	7	50.06	-.140						1.0
MORF	HE	5	239	ES		14	7	51.740	.140						1.0
MORF	HN	5	239	IAML		14	7	52.18			18	0.1			

November 27 2017 Hour: 0:20 7.1 Lat: 35.02N Lon: 3.74W Depth: 8F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	510	309	EP		021	14.71	-.040							1.0
MESJ	HE	510	309	ES		022	4.330	.180							1.0
MORF	HZ	510	301	EP		021	14.68	-.140							1.0
MESJ	HN	510	309	IAML		022	9.24				20	0.3			

November 27 2017 Hour: 7:11 9.6 Lat: 4.62S Lon: 153.21E Depth: 57F Agency: IGL Distant
Magnitudes: 5.8Ms IGL Rms: 0.1 secs

NEW IRELAND REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15859	337	EPKp \bar{d} f			730	35.37	-.020							1.0
GGNV	BZ15859	337	IAMs \bar{u}	20		835	40.33			2760	28.2				
MESJ	BZ15901	335	EPKp \bar{d} f			730	35.97	-.110							1.0
MESJ	BZ15901	335	EPP			733	46.110	.110							1.0
MESJ	BZ15901	335	IAMs \bar{u}	20		826	53.58			1909	26.6				
MORF	BZ15972	335	EPKp \bar{d} f			730	37.270	.030							1.0
MORF	BZ15972	335	IAMs \bar{u}	20		829	52.37			2705	29.3				

November 27 2017 Hour: 8: 5 19.6 Lat: 36.79N Lon: 8.42W Depth: 8F 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	61	340	EP		8	5	29.37	-.090						1.0
MORF	HN	61	340	ES		8	5	36.710	.030						1.0
MORF	HE	61	340	IAML		8	5	39.03			35	0.2			
MESJ	HZ	118	9	EP		8	5	38.410	.090						1.0
MESJ	HE	118	9	ES		8	5	51.98	-.030						1.0
MESJ	HN	118	9	IAML		8	5	53.62			3	0.1			

November 27 2017 Hour: 10:30 57.1 Lat: 37.31N Lon: 8.51W Depth: 11F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	267	EP		1030	59.74	-.100							1.0
MORF	HE	13	267	ES		1031	1.960	.100							1.0
MORF	HE	13	267	IAML		1031	2.32			28	0.2				

November 27 2017 Hour: 22:28 35.1 Lat: 37.63N Lon: 8.39W Depth: 11F Agency: IGL Regional
Rms: 0.0 secs

W OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	28	33	EP		2228	39.940	.000							1.0
MESJ	HN	28	33	ES		2228	43.45	-.000							1.0

November 28 2017 Hour: 13:15 45.6 Lat: 72.67N Lon: 3.11E Depth: 10F Agency: IGL Distant
Magnitudes: 5.1Ms IGL Rms: 0.0 secs

NORWEGIAN SEA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BN	3837	197	ES		1328	3.50	-.020							1.0
GGNV	BZ	3837	197	IAMs_20		1335	23.58			4035	21.4				
MESJ	BZ	3925	196	EP		1322	40.71	-.060							1.0
MESJ	BE	3925	196	ES		1328	15.800	.060							1.0
MESJ	BZ	3925	196	IAMs_20		1335	51.57			2405	17.2				
MORF	BZ	3988	196	EP		1322	45.730	.050							1.0
MORF	BE	3988	196	ES		1328	24.48	-.030							1.0
MORF	BZ	3988	196	IAMs_20		1336	17.61			3206	16.8				

November 29 2017 Hour: 2:29 5.7 Lat: 37.31N Lon: 8.57W Depth: 12F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	265	EP		229	7.92	-.080							1.0
MORF	HN	7	265	ES		229	9.780	.060							1.0
MORF	HN	7	265	IAML		229	10.06			12	0.2				
MESJ	HE	66	28	ES		229	24.250	.020							1.0

November 29 2017 Hour: 6:29 5.9 Lat: 14.47S Lon: 76.31W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

NEAR COAST OF CENTRAL PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9097	48	EP		641	25.100	.090							1.0
MORF	BE	9097	48	ES		651	38.64	-.040							1.0
MORF	BZ	9097	48	IAMs_20		712	23.26			2114	30.3				
GGNV	BZ	9124	47	EP		641	26.12	-.110							1.0
GGNV	BE	9124	47	ES		651	40.96	-.130							1.0
GGNV	BZ	9124	47	IAMs_20		713	4.77			4314	17.7				
MESJ	BZ	9156	48	EP		641	27.850	.080							1.0
MESJ	BE	9156	48	ES		651	44.190	.100							1.0
MESJ	BZ	9156	48	IAMs_20		713	12.01			1712	22.1				

November 29 2017 Hour: 10:39 1.0 Lat: 36.40N Lon: 7.76W Depth: 20F 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
MESJ	HZ	165	346	EP		1039	24.98	-.080							1.0
MESJ	HE	165	346	ES		1039	42.670	.080							1.0
MESJ	HN	165	346	IAML		1039	43.75			2	0.1				

November 29 2017 Hour: 12:50 17.5 Lat: 37.17N Lon: 7.99W Depth: 0 Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE LOULE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	61	284	EP		1250	27.20	-.040							1.0
MORF	HN	61	284	ES		1250	34.26	-.120							1.0
MORF	HN	61	284	IAML		1250	35.98			8	0.4				
MESJ	HZ	77	345	EP		1250	29.980	.100							1.0
MESJ	HE	77	345	ES		1250	39.000	.050							1.0
MESJ	HE	77	345	IAML		1250	40.86			3	0.1				

November 29 2017 Hour: 13:13 40.7 Lat: 33.48N Lon: 16.84W Depth: 29F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.2 secs

MADEIRA ISLANDS, PORTUGAL REGION Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	856	58	EP		1315	27.89	-.010							1.0
MORF	HE	856	58	ES		1316	45.96	-.170							1.0
MORF	HN	856	58	IAML		1316	48.65			16	0.2				
MESJ	HZ	918	56	EP		1315	35.440	.300							1.0
MESJ	HE	918	56	ES		1316	58.55	-.100							1.0
MESJ	HN	918	56	IAML		1317	4.23			4	0.4				

November 29 2017 Hour: 15:13 44.9 Lat: 37.64N Lon: 9.00W Depth: 25F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

W ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	48	140	EP		1513	53.18	-.140							1.0
MORF	HN	48	140	ES		1513	59.46	-.040							1.0
MORF	HN	48	140	IAML		1514	0.09			19	0.1				
MESJ	HZ	72	72	EP		1513	56.800	.180							1.0

November 30 2017 Hour: 1:45 15.1 Lat: 36.38N Lon: 8.17W Depth: 18F 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	111	337	EP		145	32.46	-.200							1.0
MESJ	HZ	162	358	EP		145	39.020	.070							1.0
MESJ	HN	162	358	ES		145	56.480	.130							1.0
MESJ	HN	162	358	IAML		145	57.64			2	0.1				

November 30 2017 Hour: 2:41 45.7 Lat: 37.34N Lon: 8.46W Depth: 14F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	18	257	EP		241	49.22	-.120							1.0
MORF	HN	18	257	ES		241	52.120	.120							1.0
MORF	HE	18	257	IAML		241	52.24			27	0.1				
MESJ	HN	59	21	ES		242	2.460	.010							1.0
MESJ	HE	59	21	IAML		242	4.84			1	0.1				

November 30 2017 Hour: 3:44 47.5 Lat: 35.38N Lon: 3.77W Depth: 5F Agency: IGL Regional
Magnitudes: 2.3ML 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	483	306	EP		345	52.310	.060							1.0
MESJ	HN	483	306	ES		346	39.49	-.060							1.0
MESJ	HN	483	306	IAML		346	43.05			6	0.2				

November 30 2017 Hour: 5:50 19.3 Lat: 4.36S Lon: 143.80E Depth: 97F Agency: IGL Distant
Rms: 0.2 secs

NEW GUINEA, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15364	326	EP	KPdf		6 9	32.160	.020							1.0
MESJ	BZ15364	326	EPP			612	21.800	.190							1.0
MORF	BZ15433	326	EPP			612	25.30	-.220							1.0

November 30 2017 Hour: 6:32 51.0 Lat: 1.11S Lon: 23.42W Depth: 10F Agency: IGL Distant
Magnitudes: 6.3Ms IGL Rms: 0.1 secs

CENTRAL MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4519	18	EP		640	30.95	-.110							1.0
MORF	BZ	4519	18	EPP		642	4.370	.080							1.0
MORF	BN	4519	18	ES		646	41.820	.080							1.0
MORF	BE	4519	18	IAMs_20		649	52.05		53990	21.3					
MESJ	BZ	4589	18	EP		640	36.02	-.150							1.0
MESJ	BZ	4589	18	EPP		642	11.100	.050							1.0
MESJ	BN	4589	18	ES		646	50.980	.010							1.0
MESJ	BN	4589	18	IAMs_20		650	41.65		34609	31.4					
GGNV	BZ	4647	17	EP		640	40.36	-.110							1.0
GGNV	BZ	4647	17	EPP		642	16.840	.100							1.0
GGNV	BE	4647	17	ES		646	58.780	.040							1.0
GGNV	BE	4647	17	IAMs_20		650	40.36		59871	24.6					

November 30 2017 Hour: 23: 1 41.8 Lat: 37.86N Lon: 1.76W Depth: 11F 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	568	272	EP		23 2	56.300	.050							1.0
MORF	HZ	611	266	EP		23 3	1.49	-.050							1.0

December 1 2017 Hour: 2:32 45.1 Lat: 30.77N Lon: 57.33E Depth: 10F Agency: IGL Distant
Magnitudes: 6.1Mb IGL Rms: 0.1 secs

EASTERN IRAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5965	296	EP		242	6.740	.100							1.0
MESJ	BZ	5965	296	IAMB		242	9.78		117	1.4					
MESJ	BE	5965	296	ES		249	41.04	-.090							1.0
MORF	BZ	6016	296	EP		242	10.130	.060							1.0
MORF	BZ	6016	296	IAMB		242	11.93		838	2.5					
MORF	BE	6016	296	ES		249	47.490	.030							1.0
GGNV	BZ	6022	298	EP		242	10.380	.030							1.0
GGNV	BZ	6022	298	IAMB		242	14.19		342	1.3					
GGNV	BN	6022	298	ES		249	47.85	-.130							1.0

December 1 2017 Hour: 7:41 9.2 Lat: 36.58N Lon: 9.84W Depth: 28F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	133	52	EP		741	28.68	-.040							1.0
MORF	HN	133	52	ES		741	42.92	-.020							1.0
MORF	HE	133	52	IAML		741	45.58		40	0.1					
MESJ	HZ	201	45	EP		741	37.08	-.020							1.0
MESJ	HE	201	45	ES		741	57.520	.090							1.0
MESJ	HE	201	45	IAML		741	58.17		5	0.1					

December 2 2017 Hour: 3:5 8.9 Lat: 37.32N Lon: 8.52W Depth: 7F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs
E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	262	EP		3	5	11.02							1.0
MORF	HN	12	262	ES		3	5	12.960							1.0
MORF	HN	12	262	IAML		3	5	13.47		111	0.1				
MESJ	HZ	63	25	EP		3	5	19.280							1.0

December 2 2017 Hour: 7:6 35.1 Lat: 37.23N Lon: 8.68W Depth: 7F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs
SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	16	EP		7	6	36.90							1.0
MORF	HN	9	16	ES		7	6	38.250							1.0
MORF	HE	9	16	IAML		7	6	38.74		51	0.2				

December 2 2017 Hour: 8:19 35.0 Lat: 36.17N Lon: 9.80W Depth: 33F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	162	39	EP		819	57.970	0.030							1.0
MORF	HN	162	39	ES		820	14.67	-0.020							1.0
MORF	HE	162	39	IAML		820	15.04			5	0.2				
MESJ	HZ	233	37	EP		820	6.63	-0.010							1.0

December 2 2017 Hour: 16:37 44.6 Lat: 39.24N Lon: 10.27W Depth: 30F 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
MESJ	HZ	237	130	EP		1638	16.73	-0.080							1.0
MESJ	HE	237	130	ES		1638	40.430	0.080							1.0
MESJ	HN	237	130	IAML		1638	43.82			2	0.1				

December 2 2017 Hour: 18:5 52.5 Lat: 36.89N Lon: 8.77W Depth: 29F 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	47	13	EP		18	6	0.92							1.0
MORF	HE	47	13	ES		18	6	7.330							1.0
MORF	HE	47	13	IAML		18	6	7.75		17	0.2				
MESJ	HZ	116	25	EP		18	6	9.76							1.0

December 2 2017 Hour: 18:39 33.2 Lat: 36.38N Lon: 9.86W Depth: 40F 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	149	46	EP		1839	54.47	-0.020							1.0
MORF	HE	149	46	ES		1840	9.93	-0.110							1.0
MORF	HN	149	46	IAML		1840	11.21			12	0.1				
MESJ	HZ	218	41	EP		1840	3.060	0.030							1.0
MESJ	HE	218	41	ES		1840	24.920	0.100							1.0
MESJ	HN	218	41	IAML		1840	27.44			3	0.2				

December 3 2017 Hour: 1:0 48.2 Lat: 36.71N Lon: 7.48W Depth: 17F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	303	EP		1	1	7.24							1.0
MORF	HN	123	303	ES		1	1	21.36							1.0
MORF	HN	123	303	IAML		1	1	22.41		9	0.1				
MESJ	HZ	141	333	EP		1	1	9.750							1.0
MESJ	HE	141	333	ES		1	1	25.220							1.0

MESJ HN 141 333 IAML 1 1 26.03 2 0.1

**December 3 2017 Hour: 1:38 4.4 Lat: 37.24N Lon: 8.55W Depth: 17F Agency: IGL Regional
Magnitudes: 1.0ML 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	12	308	EP		138	7.47	-.240							1.0
MORF	HN	12	308	ES		138	10.230	.090							1.0
MORF	HN	12	308	IAML		138	10.48		80	0.2					
MESJ	HZ	73	24	EP		138	16.250	.140							1.0
MESJ	HN	73	24	ES		138	24.690	.020							1.0
MESJ	HE	73	24	IAML		138	25.47		3	0.1					

**December 3 2017 Hour: 6:25 53.7 Lat: 36.35N Lon: 9.81W Depth: 28F 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	148	44	EP		626	15.090	.000							1.0
MORF	HN	148	44	ES		626	30.720	.050							1.0
MORF	HE	148	44	IAML		626	32.56		204	0.2					
MESJ	HZ	217	40	EP		626	23.61	-.090							1.0
MESJ	HE	217	40	ES		626	45.610	.040							1.0
MESJ	HE	217	40	IAML		626	46.83		40	0.1					

**December 3 2017 Hour: 11:19 6.7 Lat: 0.48S Lon: 80.28W Depth: 24F Agency: IGL Distant
Magnitudes: 6.1Ms IGL Rms: 0.1 secs**

NEAR COAST OF ECUADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8422	50	EP		1130	50.160	.110							1.0
GGNV	BZ	8422	50	IAMs_20		12	5	41.82	7429	11.4					
MORF	BZ	8432	51	EP		1130	50.660	.020							1.0
MORF	BN	8432	51	ES		1140	31.61	-.150							1.0
MORF	BZ	8432	51	IAMs_20		1157	31.93		7878	16.6					
MESJ	BZ	8481	51	EP		1130	53.190	.070							1.0
MESJ	BE	8481	51	ES		1140	36.52	-.040							1.0
MESJ	BZ	8481	51	IAMs_20		1157	32.92		10146	26.9					

**December 3 2017 Hour: 13:18 12.6 Lat: 37.06N Lon: 7.93W Depth: 28F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs**

N FARO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	70	293	EP		1318	24.210	.070							1.0
MORF	HE	70	293	ES		1318	32.49	-.040							1.0
MORF	HN	70	293	IAML		1318	34.23		145	0.2					
MESJ	HZ	90	344	EPg		1318	26.95	-.020							1.0
MESJ	HN	90	344	ES		1318	37.12	-.010							1.0
MESJ	HN	90	344	IAML		1318	38.30		97	0.1					

**December 3 2017 Hour: 16:50 28.2 Lat: 9.85N Lon: 40.64W Depth: 10F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.1 secs**

CENTRAL MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4488	41	EP		1658	5.940	.060							1.0
MESJ	BZ	4488	41	IAMB		1658	7.58		27	1.2					

**December 3 2017 Hour: 18:39 59.2 Lat: 37.03N Lon: 5.53W Depth: 12F 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	255	291	EP		1840	35.030	.010							1.0
MORF	HZ	279	277	EP		1840	38.10	-.010							1.0

December 4 2017 Hour: 0:8 5.6 Lat: 32.83S Lon: 178.74W Depth: 10F Agency: IGL Distant
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

SOUTH OF KERMADEC ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	18873	52	EPKp \bar{d} f		028	12.890	.050							1.0
GGNV	BZ	18873	52	EPP		033	17.00	-.020							1.0
GGNV	BN	18873	52	IAMs_20		142	33.73		8910	60.9					
MORF	BZ	18987	58	EPKp \bar{d} f		028	13.44	-.080							1.0
MORF	BZ	18987	58	EPP		033	22.14	-.090							1.0
MORF	BZ	18987	58	IAMs_20		149	19.33		1064	14.8					
MESJ	BZ	18993	55	EPKp \bar{d} f		028	13.550	.060							1.0
MESJ	BZ	18993	55	EPP		033	22.520	.080							1.0
MESJ	BZ	18993	55	IAMs_20		138	19.08		1218	29.7					

December 4 2017 Hour: 6:29 21.4 Lat: 37.99N Lon: 8.37W Depth: 12F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.0 secs

NW ALJUSTREL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	21	142	EP		629	25.410	.020							1.0
MESJ	HE	21	142	ES		629	28.27	-.020							1.0
MESJ	HE	21	142	IAML		629	28.39		3	0.2					

December 4 2017 Hour: 8:47 18.4 Lat: 38.73N Lon: 0.95W Depth: 12F 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	643	263	EP		848	41.87	-.010							1.0
MORF	HZ	694	259	EP		848	48.090	.010							1.0

December 4 2017 Hour: 18:28 0.1 Lat: 35.78N Lon: 5.37W Depth: 9F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	339	301	EP		1828	46.68	-.070							1.0
MESJ	HZ	342	313	EP		1828	47.06	-.010							1.0
MESJ	HN	342	313	ES		1829	21.470	.080							1.0
MESJ	HN	342	313	IAML		1829	29.03		7	0.6					

December 4 2017 Hour: 22:8 34.9 Lat: 41.98N Lon: 25.68W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.0 secs

AZORES ISLANDS REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	1448	99	EPn		2211	39.970	.020							1.0
MORF	BZ	1548	104	EPn		2211	52.300	.030							1.0
MORF	BZ	1548	104	IAMB		2211	56.11		26	0.7					
MESJ	BZ	1559	101	EPn		2211	53.55	-.050							1.0
MESJ	BZ	1559	101	IAMB		2211	56.25		29	0.3					

December 4 2017 Hour: 22:21 8.3 Lat: 37.02N Lon: 5.56W Depth: 12F 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	252	292	EP		2221	43.87	-.000							1.0
MESJ	HE	252	292	ESg		2222	18.850	.080							1.0
MESJ	HN	252	292	IAML		2222	21.89		6	0.4					
MORF	HZ	276	277	EP		2221	46.70	-.210							1.0
MORF	HN	276	277	ESg		2222	25.660	.130							1.0
MORF	HN	276	277	IAML		2222	29.12		18	0.4					

December 5 2017 Hour: 2:46 17.7 Lat: 36.28N Lon: 10.01W Depth: 32F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	166	46	ES		246	58.290	.080							1.0
MORF	HE	166	46	IAML		246	59.44			15	0.1				
MESJ	HZ	235	42	EP		246	49.65	-.010							1.0
MESJ	HE	235	42	ES		247	12.92	-.070							1.0
MESJ	HN	235	42	IAML		247	14.04			2	0.1				

December 5 2017 Hour: 13: 8 36.2 Lat: 37.09N Lon: 5.54W Depth: 0 Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	251	290	EP		13 9	12.890	.030							1.0
MORF	HZ	277	276	EP		13 9	16.10	-.030							1.0

December 5 2017 Hour: 20:46 55.6 Lat: 37.31N Lon: 8.48W Depth: 9F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	268	EP		2046	58.40	-.110							1.0
MORF	HN	15	268	ES		2047	0.650	.020							1.0
MORF	HN	15	268	IAML		2047	1.21			482	0.2				
MESJ	HZ	63	21	EP		2047	5.890	.010							1.0
MESJ	HE	63	21	ES		2047	13.470	.080							1.0
MESJ	HN	63	21	IAML		2047	17.00			17	0.1				

December 6 2017 Hour: 4: 5 43.0 Lat: 42.47N Lon: 10.31W Depth: 24F Agency: IGL Regional
Magnitudes: 2.3ML 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
MESJ	HZ	544	160	EP		4 6	53.34	-.040							1.0
MESJ	HN	544	160	ES		4 7	44.770	.040							1.0
MESJ	HE	544	160	IAML		4 7	46.25			4	0.1				

December 6 2017 Hour: 15:19 50.1 Lat: 30.64N Lon: 79.19E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

UTTARANCHAL, INDIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7795	303	EP		1531	2.56	-.040							1.0
MESJ	BZ	7795	303	IAMB		1531	3.43			22	0.5				

December 7 2017 Hour: 4:23 58.2 Lat: 38.07N Lon: 9.08W Depth: 9F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.2 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	80	108	EP		424	10.90	-.220							1.0
MESJ	HE	80	108	ES		424	20.800	.240							1.0
MESJ	HN	80	108	IAML		424	23.49			21	0.2				
MORF	HZ	93	156	EP		424	13.150	.020							1.0
MORF	HE	93	156	ES		424	24.00	-.040							1.0
MORF	HN	93	156	IAML		424	26.51			42	0.1				

December 7 2017 Hour: 4:49 14.6 Lat: 37.34N Lon: 8.75W Depth: 1 Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.0 secs

NE ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	115	EP		449	16.20	-.020							1.0
MORF	HE	9	115	ES		449	17.380	.020							1.0
MORF	HN	9	115	IAML		449	17.73			17	0.1				

December 7 2017 Hour: 12:29 10.6 Lat: 38.06N Lon: 8.83W Depth: 5F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.2 secs

SW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	59	114	EP		1229	19.76	-.390							1.0
MESJ	HE	59	114	ES		1229	27.250	.130							1.0
MESJ	HE	59	114	IAML		1229	27.99			22	0.2				
MORF	HZ	85	169	EP		1229	24.630	.230							1.0
MORF	HN	85	169	ES		1229	34.510	.040							1.0
MORF	HE	85	169	IAML		1229	36.29			24	0.3				

December 7 2017 Hour: 12:53 46.4 Lat: 41.21N Lon: 7.92W Depth: 19F Agency: IGL Regional
Magnitudes: 3.2ML IGL Rms: 0.0 secs

NE AGUEDA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	375	184	EP		1254	36.590	.010							1.0
MESJ	HE	375	184	ES		1255	13.23	-.000							1.0
MESJ	HE	375	184	IAML		1255	37.09			81	0.1				
MORF	HZ	438	189	EP		1254	44.30	-.050							1.0
MORF	HN	438	189	ES		1255	26.720	.040							1.0
MORF	HE	438	189	IAML		1255	29.14			42	0.2				

December 8 2017 Hour: 0:22 54.4 Lat: 10.12N Lon: 140.22E Depth: 13F Agency: IGL Distant
Magnitudes: 6.8Ms IGL Rms: 0.1 secs

STATE OF YAP, MICRONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ13763	331	EPP			043	33.830	.040							1.0
GGNV	BN13763	331	IAMs_20			129	11.64			25658	10.7				
MESJ	BZ13790	330	EPKp \bar{d} \bar{f}			041	52.180	.170							0.9
MESJ	BZ13790	330	EPP			043	35.47	-.010							1.0
MESJ	BN13790	330	ESS			1 0	26.03	-.070							1.0
MESJ	BZ13790	330	IAMs_20			132	6.26			14811	25.2				
MORF	BZ13861	330	EPKp \bar{d} \bar{f}			041	53.21	-.060							1.0
MORF	BZ13861	330	EPP			043	39.71	-.070							1.0
MORF	BE13861	330	ESS			1 0	34.200	.020							1.0
MORF	BZ13861	330	IAMs_20			132	10.59			21140	26.9				

December 8 2017 Hour: 2:9 59.1 Lat: 30.80S Lon: 178.65W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0Ms IGL Rms: 0.1 secs

KERMADEC ISLANDS, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18719	45	EPKp \bar{d} \bar{f}			230	5.530	.040							1.0
GGNV	BZ18719	45	IAMs_20			342	15.55			7689	47.8				
MESJ	BZ18844	46	EPKp \bar{d} \bar{f}			230	6.16	-.100							1.0
MESJ	BZ18844	46	IAMs_20			343	11.73			1236	18.3				
MORF	BZ18849	49	EPKp \bar{d} \bar{f}			230	6.400	.060							1.0
MORF	BZ18849	49	IAMs_20			356	43.14			1316	14.1				

December 8 2017 Hour: 3:34 2.3 Lat: 35.29N Lon: 4.13W Depth: 0 Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	463	309	EP		335	5.01	-.120							1.0
MESJ	HN	463	309	ES		335	51.150	.160							1.0
MESJ	HN	463	309	IAML		335	53.89			6	0.3				
MORF	HZ	464	300	EP		335	5.27	-.010							1.0
MORF	HN	464	300	ES		335	51.21	-.040							1.0
MORF	HE	464	300	IAML		335	52.47			4	0.3				

December 8 2017 Hour: 6:42 49.7 Lat: 38.44N Lon: 7.81W Depth: 0 Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

SE EVORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	76	208	EP		643	2.030	.070							1.0
MESJ	HE	76	208	ES		643	10.81	-.070							1.0
MESJ	HN	76	208	IAML		643	12.68			2	0.1				

December 8 2017 Hour: 9:51 11.2 Lat: 10.01N Lon: 140.13E Depth: 20F Agency: IGL Distant
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

STATE OF YAP, MICRONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ13769	331	EPP			1011	49.81	-.020							1.0
GGNV	BN13769	331	IAMs_20			1057	19.89			21994	15.6				
MESJ	BZ13796	330	EPKp \bar{d} f			1010	7.810	.100							1.0
MESJ	BZ13796	330	EPP			1011	51.610	.120							1.0
MESJ	BZ13796	330	IAMs_20			11	0	25.86		14018	24.9				
MORF	BZ13867	330	EPKp \bar{d} f			1010	8.91	-.060							1.0
MORF	BZ13867	330	EPP			1011	55.63	-.160							1.0
MORF	BN13867	330	IAMs_20			11	0	5.84		15838	22.4				

December 8 2017 Hour: 17:25 41.3 Lat: 37.25N Lon: 8.61W Depth: 12F Agency: IGL Regional
Magnitudes: 0.5ML 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	328	EP		1725	43.750	.100							1.0
MORF	HE	7	328	ES		1725	45.24	-.100							1.0
MORF	HN	7	328	IAML		1725	45.68			24	0.1				

December 8 2017 Hour: 19:9 23.0 Lat: 37.87N Lon: 8.21W Depth: 4F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.0 secs

W ALJUSTREL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	4	195	EP		19	9	23.910	.000						1.0
MESJ	HE	4	195	ES		19	9	24.55	-.000						1.0
MESJ	HN	4	195	IAML		19	9	25.75		32	0.1				

December 8 2017 Hour: 23:42 12.2 Lat: 16.13S Lon: 173.95W Depth: 129F 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
MESJ	BZ17248	27	EPKp \bar{d} f			24	1	49.070	.100						1.0
MORF	BZ17275	29	EPKp \bar{d} f			24	1	49.26	-.100						1.0

December 9 2017 Hour: 15:14 25.6 Lat: 10.09N Lon: 140.21E Depth: 10F Agency: IGL Distant
Magnitudes: 6.3Ms IGL Rms: 0.0 secs

STATE OF YAP, MICRONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ13766	331	EPP			1535	5.630	.020							1.0
GGNV	BZ13766	331	IAMs_20			1624	47.31			8702	23.8				
MESJ	BZ13793	330	EPP			1535	7.26	-.020							1.0
MESJ	BZ13793	330	IAMs_20			1623	10.53			7300	27.2				

December 9 2017 Hour: 19:43 40.7 Lat: 37.35N Lon: 8.57W Depth: 11F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.2 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	235	EP		1943	42.81	-.250							1.0
MORF	HN	9	235	ES		1943	44.890	.110							1.0
MORF	HN	9	235	IAML		1943	45.21			22	0.2				
MESJ	HZ	63	30	EP		1943	51.110	.200							1.0
MESJ	HE	63	30	ES		1943	58.31	-.050							1.0
MESJ	HN	63	30	IAML		1944	1.37			2	0.3				

December 10 2017 Hour: 6:32 16.5 Lat: 37.31N Lon: 8.56W Depth: 18F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

S MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	266	EP		632	19.760	.010							1.0
MORF	HN	8	266	ES		632	22.09	-.010							1.0
MORF	HE	8	266	IAML		632	22.50			22	0.1				

December 11 2017 Hour: 3:22 47.2 Lat: 36.68N Lon: 6.95W Depth: 31F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	167	295	EP		323	9.85	-.120							1.0
MESJ	HZ	171	319	EP		323	10.490	.010							1.0
MESJ	HE	171	319	ES		323	27.560	.100							1.0
MESJ	HN	171	319	IAML		323	29.07			6	0.2				

December 11 2017 Hour: 8:17 30.9 Lat: 36.49N Lon: 9.71W Depth: 11F Agency: IGL Regional
Magnitudes: 3.1ML 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	131	46	EP		817	51.44	-.040							1.0
MORF	HN	131	46	ES		818	6.600	.130							1.0
MORF	HN	131	46	IAML		818	7.82			232	0.1				
MESJ	HZ	200	41	EP		817	59.90	-.210							1.0
MESJ	HE	200	41	ES		818	21.450	.050							1.0
MESJ	HN	200	41	IAML		818	23.48			54	0.2				
GGNV	HE	252	11	ES		818	32.640	.060							0.9
GGNV	HN	252	11	IAML		818	33.67			353	0.2				

December 11 2017 Hour: 17:29 10.6 Lat: 14.35S Lon: 167.45E Depth: 187F Agency: IGL Distant
Magnitudes: 0.0Ms IGL Rms: 0.0 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17395	351	EPKP			1749	11.90	-.010							1.0
MORF	BZ17460	352	EPKP			1749	14.510	.010							1.0

December 12 2017 Hour: 4:35 26.8 Lat: 37.08N Lon: 2.27W Depth: 0 Agency: IGL Regional
Magnitudes: 2.0ML 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	533	281	EP		436	37.97	-.110							1.0
MESJ	HN	533	281	ES		437	30.250	.110							1.0
MESJ	HN	533	281	IAML		437	32.86			2	0.4				

December 12 2017 Hour: 5:45 42.8 Lat: 37.34N Lon: 8.66W Depth: 16F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	4	171	EP		545	45.31	-.250							1.0
MORF	HN	4	171	ES		545	47.700	.170							1.0
MORF	HN	4	171	IAML		545	48.09			95	0.2				
MESJ	HZ	68	35	EP		545	53.910	.090							1.0
MESJ	HN	68	35	ES		546	1.82	-.010							1.0
MESJ	HE	68	35	IAML		546	2.79			6	0.1				

December 12 2017 Hour: 8:43 19.1 Lat: 30.76N Lon: 57.29E Depth: 10F Agency: IGL Distant
Magnitudes: 5.4Ms IGL Rms: 0.1 secs

EASTERN IRAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5962	296	EP		852	40.33	-.090							1.0
MESJ	BN	5962	296	ES		9	0	14.760	.020						1.0
MESJ	BZ	5962	296	IAMs_20		922	35.63			1734	10.7				

MORF BN	6013	296	ES		9	0	21.02	-.050											1.0
MORF BZ	6013	296	IAMs_20		927		27.40			2032	14.4								
GGNV BN	6019	298	ES		9	0	21.740	.130											1.0

December 12 2017 Hour: 11:152.9 Lat: 38.36N Lon: 8.00W Depth: 0 Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NE VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	61	199	EP		11	2	2.820	.070						1.0
MESJ	HN	61	199	ES		11	2	9.85	-.070						1.0
MESJ	HN	61	199	IAML		11	2	10.34		10	0.1				

December 12 2017 Hour: 21:4130.6 Lat: 30.84N Lon: 57.28E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6Ms IGL Rms: 0.0 secs

EASTERN IRAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5957	296	EP		2150	51.64	-.040							1.0
MESJ	BN	5957	296	ES		2158	25.72	-.010							1.0
MESJ	BZ	5957	296	IAMs_20		2215	51.49			4266	25.0				
MORF	BZ	6008	296	EP		2150	55.08	-.030							1.0
MORF	BZ	6008	296	IAMs_20		2221	13.63			4919	18.4				
GGNV	BZ	6014	298	EP		2150	55.440	.060							1.0
GGNV	BE	6014	298	ES		2158	32.600	.020							1.0
GGNV	BZ	6014	298	IAMs_20		2216	27.06			5840	18.5				

December 13 2017 Hour: 0:315.9 Lat: 37.15N Lon: 4.28W Depth: 23F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	357	284	EP		0	4	3.800	.060						1.0

December 13 2017 Hour: 0:80.1 Lat: 37.04N Lon: 4.47W Depth: 8F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	344	286	EP		0	8	47.470	.040						1.0
MESJ	HN	344	286	ES		0	9	21.94	-.040						1.0
MESJ	HN	344	286	IAML		0	9	25.40		3	0.4				

December 14 2017 Hour: 4:249.0 Lat: 35.30N Lon: 3.62W Depth: 2F 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	499	306	EP		4	3	55.91	-.070						1.0
MESJ	HN	499	306	ES		4	4	44.85	-.050						1.0
MESJ	HN	499	306	IAML		4	4	46.90		4	0.3				
MORF	HZ	504	298	EP		4	3	56.56	-.050						1.0
MORF	HN	504	298	ES		4	4	46.150	.170						1.0
MORF	HN	504	298	IAML		4	4	47.77		4	0.3				

December 14 2017 Hour: 18:5427.1 Lat: 35.15N Lon: 101.88E Depth: 9F Agency: IGL Distant
Magnitudes: 5.5Mb IGL Rms: 0.0 secs

NORTHERN QINGHAI, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9196	311	EP		19	6	51.26	-.010						1.0
MESJ	BZ	9196	311	IAMB		19	6	54.78		43	1.3				

December 14 2017 Hour: 20:1638.3 Lat: 36.98N Lon: 8.97W Depth: 30F 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	46	38	EP		2016	46.61	-.050							1.0
MORF	HN	46	38	ES		2016	52.830	.050							1.0
MORF	HE	46	38	IAML		2016	53.35			10	0.1				

December 14 2017 Hour: 22:22 59.8 Lat: 36.15N Lon: 8.44W Depth: 32F 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	130	352	EP		2223	18.760	.100							1.0
MORF	HN	130	352	ES		2223	32.34	-.100							1.0
MORF	HE	130	352	IAML		2223	33.21			20	0.2				

December 14 2017 Hour: 23:40 32.8 Lat: 7.39S Lon: 156.25E Depth: 79F Agency: IGL Distant
Rms: 0.0 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16316	337	EPKP			24 0	6.530	.040							1.0
MORF	BZ16387	337	EPKP			24 0	9.02	-.040							1.0

December 15 2017 Hour: 3:55 57.8 Lat: 36.74N Lon: 7.28W Depth: 2F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	137	298	ES		356	35.88	-.110							1.0
MORF	HN	137	298	IAML		356	37.89			4	0.1				
MESJ	HZ	148	326	EP		356	21.600	.140							1.0
MESJ	HN	148	326	ES		356	38.67	-.030							1.0
MESJ	HE	148	326	IAML		356	39.44			0.70	0.1				

December 15 2017 Hour: 9:7 44.1 Lat: 14.70N Lon: 91.52W Depth:111F Agency: IGL Distant
Rms: 0.1 secs

GUATEMALA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8419	55	EpP		919	45.320	.130							1.0
MESJ	BZ	8449	54	EpP		919	46.60	-.080							1.0

December 15 2017 Hour: 10:25 26.7 Lat: 36.80N Lon: 7.64W Depth: 27F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	106	302	ES		1025	54.920	.120							1.0
MORF	HN	106	302	IAML		1025	55.46			6	0.1				
MESJ	HZ	126	336	EP		1025	45.32	-.120							1.0

December 15 2017 Hour: 16:47 58.3 Lat: 7.73S Lon: 108.02E Depth: 91F Agency: IGL Distant
Rms: 0.1 secs

JAVA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12843	308	EPKpdf			17 6	29.17	-.010							1.0
MESJ	BZ12843	308	EPP			17 7	31.26	-.170							0.9
MESJ	BE12843	308	ESS			1723	24.02	-.070							1.0
MORF	BZ12891	308	EPKpdf			17 6	30.230	.160							1.0
MORF	BZ12891	308	EPP			17 7	34.51	-.020							1.0
GGNV	BZ12904	309	EPP			17 7	35.390	.110							1.0

December 15 2017 Hour: 17:31 18.8 Lat: 37.98N Lon: 8.25W Depth: 7F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

SW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	16	170	EP		1731	21.680	.070							1.0
MESJ	HN	16	170	ES		1731	23.59	-.070							1.0
MESJ	HN	16	170	IAML		1731	23.85			13	0.1				

December 15 2017 Hour: 20:44 41.3 Lat: 36.82N Lon: 4.21W Depth: 22F Agency: IGL Regional
Magnitudes: 1.3ML 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	373	289	EP		2045	31.080	.010							1.0
MESJ	HN	373	289	ES		2046	7.35-	.010							1.0
MESJ	HN	373	289	IAML		2046	7.92			0.90	0.1				

December 17 2017 Hour: 8:46 40.5 Lat: 36.48N Lon: 3.17W Depth: 5F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	473	290	EP		847	44.190	.030							1.0
MESJ	HE	473	290	ES		848	30.56-	.030							1.0
MESJ	HE	473	290	IAML		848	33.64			4	0.4				

December 17 2017 Hour: 15:36 54.8 Lat: 38.21N Lon: 8.04W Depth: 10F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.0 secs
SW ALVITO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	44	201	EP		1537	2.170	.030							1.0
MESJ	HN	44	201	ES		1537	7.44-	.030							1.0
MESJ	HN	44	201	IAML		1537	7.80			2	0.1				

December 17 2017 Hour: 18:57 58.7 Lat: 5.90S Lon: 154.74E Depth:156F 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	BZ16099	336	EPKP			1917	16.060	.010							1.0

December 18 2017 Hour: 11:54 35.4 Lat: 37.00N Lon: 5.55W Depth: 15F Agency: IGL Regional
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	254	292	EP		1155	10.970	.060							1.0
MORF	HZ	278	278	EP		1155	13.83-	.060							1.0

December 18 2017 Hour: 23:12 12.0 Lat: 36.64N Lon: 4.60W Depth: 56F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	347	294	EP		2312	57.44-	.030							1.0
MESJ	HN	347	294	ES		2313	30.730	.030							1.0
MESJ	HN	347	294	IAML		2313	33.55			5	0.4				

December 19 2017 Hour: 3:42 54.8 Lat: 36.45N Lon: 9.84W Depth: 32F 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	142	48	EP		343	15.290	.070							1.0
MORF	HE	142	48	ES		343	30.200	.060							1.0
MORF	HN	142	48	IAML		343	30.67			8	0.1				
MESJ	HZ	211	43	EP		343	23.67-	.070							1.0
MESJ	HE	211	43	ES		343	44.80-	.070							1.0
MESJ	HE	211	43	IAML		343	45.63			0.80	0.1				

December 20 2017 Hour: 4:28 11.4 Lat: 40.33N Lon: 2.96W Depth: 5F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.0 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	532	240	EP		429	22.13-	.020							1.0
MESJ	HN	532	240	ES		430	13.74-	.050							1.0
MESJ	HN	532	240	IAML		430	47.99			26	0.6				

MORF HZ	597	238	EP		429	30.090.010													1.0
MORF HE	597	238	ES		430	27.560.050													1.0
MORF HN	597	238	IAML		430	31.32			23	0.3									

**December 20 2017 Hour: 17:46 0.3 Lat: 36.83N Lon: 4.20W Depth: 38F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs**

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	374	289	EP			1746	49.29-	.040							1.0
MESJ HN	374	289	ES			1747	25.140.	0.040							1.0
MESJ HE	374	289	IAML			1747	26.66		0.70	0.1					

**December 21 2017 Hour: 8:24 19.0 Lat: 36.46N Lon: 7.63W Depth: 38F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	131	316	EP			824	38.04-	.040							1.0
MORF HN	131	316	ES			824	51.92-	.070							1.0
MORF HE	131	316	IAML			824	52.91		4	0.1					
MESJ HZ	162	341	EP			824	42.130.	0.230							1.0
MESJ HE	162	341	ES			824	58.49-	.110							1.0
MESJ HN	162	341	IAML			825	0.16		4	0.2					

**December 21 2017 Hour: 19:21 42.2 Lat: 37.01N Lon: 1.34W Depth: 12F Agency: IGL Regional
Magnitudes: 2.3ML 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	616	281	EP			1923	2.25-	.080							1.0
MESJ HN	616	281	ES			1924	0.930.	0.110							1.0
MESJ HN	616	281	IAML			1924	6.39		4	0.2					
MORF HZ	650	275	EP			1923	6.50-	.040							1.0

**December 21 2017 Hour: 19:26 40.3 Lat: 4.14N Lon: 76.20W Depth: 156F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.0 secs**

COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ	7758	52	EP			1937	33.30-	.000							1.0
MORF BZ	7758	52	IAMB			1937	34.27		13	0.6					
MESJ BZ	7807	51	EP			1937	35.910.	0.000							1.0
MESJ BZ	7807	51	IAMB			1937	37.07		9	0.8					

**December 22 2017 Hour: 3:24 36.9 Lat: 36.53N Lon: 6.47W Depth: 24F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HN	213	314	ES			325	28.260.	0.120							1.0
MORF HN	213	294	ES			325	28.230.	0.060							1.0
MESJ HZ	213	314	EP			325	6.32-	.180							1.0
MORF HE	213	294	IAML			325	29.40		5	0.1					
MESJ HN	213	314	IAML			325	34.60		7	0.1					

**December 22 2017 Hour: 5:47 42.9 Lat: 35.94N Lon: 7.42W Depth: 5F 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	187	324	EP			548	11.08-	.080							1.0
MESJ HZ	223	342	EP			548	15.580.	0.080							1.0

December 22 2017 Hour: 8:012.9 Lat: 65.50N Lon: 134.05W Depth: 1F Agency: IGL Distant
Magnitudes: 5.9Mb IGL Rms: 0.0 secs

NORTHERN YUKON TERRITORY, CANADA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7636	44	EP		811	18.220	.050							1.0
MESJ	BZ	7636	44	IAmb		811	19.74			74	1.4				
MORF	BZ	7677	44	EP		811	20.51	-.050							1.0
MORF	BZ	7677	44	IAmb		811	21.55			101	1.0				

December 22 2017 Hour: 14:44 17.6 Lat: 53.84N Lon: 160.53E Depth: 46F Agency: IGL Distant
Magnitudes: 5.4Mb IGL Rms: 0.0 secs

NEAR EAST COAST OF KAMCHATKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9794	351	EP		1457	2.91	-.020							1.0
MESJ	BZ	9794	351	IAmb		1457	6.97			25	1.4				
MORF	BZ	9858	351	EP		1457	5.690	.020							1.0
MORF	BZ	9858	351	IAmb		1457	8.65			35	1.2				

December 22 2017 Hour: 16:43 7.2 Lat: 37.35N Lon: 8.11W Depth: 8F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW ALMODOVAR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	48	264	EP		16	4	45.03	-.100						1.0
MORF	HE	48	264	ES		16	4	50.91	-.010						1.0
MORF	HN	48	264	IAML		16	4	52.59			22	0.1			
MESJ	HZ	55	350	EP		16	4	46.270	.060						1.0
MESJ	HN	55	350	ES		16	4	52.840	.060						1.0
MESJ	HN	55	350	IAML		16	4	53.37			6	0.1			

December 23 2017 Hour: 18:31 21.4 Lat: 37.34N Lon: 8.57W Depth: 5F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.2 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	242	EP		1831	22.76	-.290							1.0
MORF	HE	8	242	ES		1831	24.390	.170							1.0
MORF	HE	8	242	IAML		1831	25.36				18	0.1			
MESJ	HZ	64	29	EP		1831	31.64	-.060							1.0
MESJ	HN	64	29	ES		1831	39.390	.190							1.0
MESJ	HE	64	29	IAML		1831	40.68				2	0.1			

December 23 2017 Hour: 21:27 41.7 Lat: 36.91N Lon: 2.43W Depth: 11F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	523	283	EP		2128	50.68	-.020							1.0

December 24 2017 Hour: 7:44 3.1 Lat: 36.27N Lon: 9.84W Depth: 24F 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	156	42	EP		744	25.830	.070							1.0
MORF	HE	156	42	ES		744	42.21	-.080							1.0
MORF	HE	156	42	IAML		744	43.32				6	0.1			
MESJ	HZ	226	39	EP		744	34.40	-.000							1.0
MESJ	HN	226	39	ES		744	57.260	.020							1.0
MESJ	HN	226	39	IAML		744	58.78				2	0.2			

December 24 2017 Hour: 9:22 35.7 Lat: 38.12N Lon: 13.62W Depth: 30F Agency: IGL Regional
Magnitudes: 1.4ML 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	447	100	EP		923	33.930	0.050							1.0
MESJ	HZ	475	92	EP		923	37.19	-0.070							1.0
MESJ	HN	475	92	ES		924	22.250	0.020							1.0
MESJ	HE	475	92	IAML		924	23.77			0.70	0.2				

December 24 2017 Hour: 9:42 20.4 Lat: 36.87N Lon: 7.13W Depth: 31F 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	144	290	EP		942	40.23	-0.10							1.0
MESJ	HZ	145	318	EP		942	40.52	0.11							1.0
MESJ	HE	145	318	ES		942	54.98	-0.01							1.0
MESJ	HN	145	318	IAML		942	56.47			7	0.1				

December 25 2017 Hour: 1:14 29.1 Lat: 35.44N Lon: 3.75W Depth: 0 Agency: IGL Regional
Magnitudes: 1.6ML 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	480	305	EP		115	33.93	-0.190							1.0
MESJ	HN	480	305	ES		116	21.700	0.150							1.0
MESJ	HE	480	305	IAML		116	26.62			1	0.3				
MORF	HZ	486	297	EP		115	34.890	0.040							1.0

December 26 2017 Hour: 1:10 3.7 Lat: 36.64N Lon: 4.43W Depth: 31F 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	361	293	EP		110	50.610	0.030							1.0
MESJ	HN	361	293	ES		111	24.77	-0.050							1.0
MESJ	HN	361	293	IAML		111	27.05			11	0.3				
MORF	HZ	383	282	EP		110	53.18	-0.050							1.0
MORF	HE	383	282	ES		111	29.490	0.080							1.0
MORF	HN	383	282	IAML		111	32.79			14	0.2				

December 26 2017 Hour: 1:41 43.8 Lat: 35.72N Lon: 9.98W Depth: 30F 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	212	34	EP		142	12.92	-0.060							1.0
MORF	HE	212	34	ES		142	34.22	-0.080							1.0
MORF	HE	212	34	IAML		142	34.61			7	0.2				
MESJ	HZ	283	33	EP		142	21.60	-0.120							1.0
MESJ	HE	283	33	ES		142	49.700	0.280							1.0
MESJ	HN	283	33	IAML		142	53.85			1	0.3				

December 26 2017 Hour: 4:9 43.3 Lat: 36.65N Lon: 4.45W Depth: 79F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	360	293	EP		410	30.32	-0.050							1.0
MESJ	HN	360	293	ES		411	4.720	0.020							1.0
MESJ	HN	360	293	IAML		411	6.73			7	0.1				
MORF	HZ	381	282	EP		410	32.950	0.010							1.0
MORF	HE	381	282	ES		411	9.160	0.020							1.0
MORF	HE	381	282	IAML		411	14.46			16	0.2				

December 26 2017 Hour: 9:36 49.1 Lat: 38.73N Lon: 7.90W Depth: 11F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

E ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	103	196	EP		937	5.26	-.120							1.0
MESJ	HE	103	196	ES		937	17.390	.120							1.0
MESJ	HE	103	196	IAML		937	18.17			2	0.2				

December 26 2017 Hour: 10:33 37.6 Lat: 37.23N Lon: 8.80W Depth: 27F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

S ALJEZUR, PORTUGAL Ner: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	58	EP		1033	42.49	-.020							1.0
MORF	HN	15	58	ES		1033	46.100	.020							1.0
MORF	HN	15	58	IAML		1033	46.71			9	0.1				

December 26 2017 Hour: 12:16 55.3 Lat: 36.68N Lon: 8.27W Depth: 22F 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	77	334	EP		1217	7.76	-.100							1.0
MORF	HE	77	334	ES		1217	17.110	.100							1.0
MORF	HE	77	334	IAML		1217	18.57			5	0.0				

December 26 2017 Hour: 12:21 28.2 Lat: 38.86N Lon: 11.92W Depth: 31F 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	335	120	EP		1222	12.010	.170							1.0
MORF	HN	335	120	ES		1222	43.53	-.150							1.0
MORF	HN	335	120	IAML		1222	44.71			19	0.2				
MESJ	HZ	343	108	EP		1222	12.930	.120							1.0
MESJ	HN	343	108	ES		1222	45.22	-.140							1.0
MESJ	HE	343	108	IAML		1222	47.84			8	0.1				

December 26 2017 Hour: 13: 2 29.0 Lat: 38.56N Lon: 8.40W Depth: 12F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

SE VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	82	169	EP		13 2	41.93	-.050							1.0
MESJ	HE	82	169	ES		13 2	51.48	-.010							1.0
MESJ	HE	82	169	IAML		13 2	52.70			1	0.1				
MORF	HN	141	189	ES		13 3	6.710	.060							1.0
MORF	HN	141	189	IAML		13 3	7.78			7	0.4				

December 26 2017 Hour: 15:26 13.5 Lat: 17.48S Lon: 69.47W Depth:152FAgency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.1 secs

LA PAZ, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8791	45	EP		1538	0.760	.110							1.0
MORF	BZ	8791	45	IAMB		1538	2.29			19	0.8				
MESJ	BZ	8855	45	EP		1538	3.59	-.110							1.0
MESJ	BZ	8855	45	IAMB		1538	4.89			12	0.8				

December 28 2017 Hour: 3:54 51.9 Lat: 24.89S Lon: 70.18W Depth: 52F Agency: IGL Distant
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9421	45	EP		4 7	20.26	-.010							1.0
MORF	BZ	9421	45	IAMB		4 7	23.05			58	1.3				
MESJ	BZ	9487	45	EP		4 7	23.200	.010							1.0
MESJ	BZ	9487	45	IAMB		4 7	26.84			115	1.7				

December 28 2017 Hour: 11:21 20.3 Lat: 36.80N Lon: 8.43W Depth: 4F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	59	341	EP		1121	29.970	.060							1.0
MORF	HE	59	341	ES		1121	36.83	-.090							1.0
MORF	HE	59	341	IAML		1121	39.82		48	0.1					
MESJ	HZ	117	9	EP		1121	39.170	.040							1.0
MESJ	HE	117	9	ES		1121	52.880	.000							1.0
MESJ	HE	117	9	IAML		1121	53.26		2	0.2					

December 28 2017 Hour: 20:23 34.4 Lat: 22.01N Lon: 94.38E Depth: 87F Agency: IGL Distant
Magnitudes: 4.8Mb IGL Rms: 0.0 secs

MYANMAR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9585	309	EP		2036	6.040	.010							1.0
MESJ	BZ	9585	309	IAMB		2036	8.19		8	0.9					

December 29 2017 Hour: 0:40 4.3 Lat: 35.43N Lon: 3.65W Depth: 2F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	488	305	EP		041	10.050	.040							1.0
MESJ	HE	488	305	ES		041	57.94	-.040							1.0
MESJ	HN	488	305	IAML		042	3.75		2	0.2					

December 29 2017 Hour: 2:14 37.6 Lat: 36.79N Lon: 8.47W Depth: 9F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SLAGOA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	59	344	EP		214	47.13	-.120							1.0
MORF	HE	59	344	ES		214	54.440	.120							1.0
MORF	HE	59	344	IAML		214	56.14		9	0.3					

December 29 2017 Hour: 5:17 26.7 Lat: 37.64N Lon: 4.26W Depth: 12F Agency: IGL Regional
Magnitudes: 3.3ML 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	349	275	EP		518	14.530	.190							1.0
MESJ	HN	349	275	ES		518	48.95	-.170							1.0
MESJ	HN	349	275	ESg		519	4.26	-.010							1.0
MESJ	HN	349	275	IAML		519	9.96		46	0.3					
MORF	HZ	390	266	EP		518	19.39	-.030							1.0
MORF	HN	390	266	ES		518	57.930	.020							1.0
MORF	HN	390	266	IAML		519	22.70		147	0.4					

December 29 2017 Hour: 18:8 24.6 Lat: 38.79N Lon: 7.96W Depth: 2F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

NE ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	108	192	EP		18 8	41.97	-.060							1.0
MESJ	HE	108	192	ES		18 8	54.790	.060							1.0
MESJ	HE	108	192	IAML		18 8	55.79		1	0.2					

December 30 2017 Hour: 1:38 25.0 Lat: 38.28N Lon: 8.21W Depth: 6F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

SW VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	49	181	EP		138	32.89	-.030							1.0
MESJ	HN	49	181	ES		138	38.750	.020							1.0
MESJ	HN	49	181	IAML		138	39.27		2	0.1					
MORF	HE	115	200	ES		138	56.930	.010							1.0
MORF	HN	115	200	IAML		138	57.97		4	0.2					

December 30 2017 Hour: 2:17 38.7 Lat: 37.27N Lon: 8.33W Depth: 19F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE SILVES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	29	278	EP		217	43.97	-.190							1.0
MORF	HE	29	278	ES		217	48.250	.080							1.0
MORF	HE	29	278	IAML		217	49.37			6	0.1				
MESJ	HZ	64	9	EP		217	49.260	.120							1.0
MESJ	HE	64	9	ES		217	56.78	-.010							1.0
MESJ	HN	64	9	IAML		217	58.42			3	0.1				

December 30 2017 Hour: 8:20 49.5 Lat: 19.25S Lon: 69.14W Depth: 83F Agency: IGL Distant
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

TARAPACA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8904	45	EP		832	50.140	.020							1.0
MORF	BZ	8904	45	IAMB		832	57.96			64	1.1				
MESJ	BZ	8969	45	EP		832	53.16	-.020							1.0
MESJ	BZ	8969	45	IAMB		833	0.51			22	0.7				

December 31 2017 Hour: 3:20 45.3 Lat: 35.63N Lon: 4.56W Depth: 72F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	408	308	EP		321	38.08	-.120							1.0
MESJ	HE	408	308	ES		322	16.930	.100							1.0
MESJ	HN	408	308	IAML		322	18.76			6	0.2				
MORF	HZ	411	298	EP		321	38.560	.020							1.0