

# Seismological Bulletin

from the

UNIVERSITY OF LISBON  
FACULTY OF SCIENCE

## IDL Seismic Network

November to December

2015

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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	37.3063N
Longitude	8.6508W
Height	650m

Messejana  
MESJ

Latitude	37.8395N
Longitude	8.2199W
Height	250m

November 1 2015 Hour: 2:50 20.1 Lat: 36.20N Lon: 8.19W 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	129	342	EP		250	38.98	-.100							1.0
MESJ	HZ	182	359	EP		250	45.590	.020							1.0
MESJ	HE	182	359	ES		251	4.250	.080							1.0
MESJ	HN	182	359	IAML		251	5.60			3	0.1				

November 1 2015 Hour: 3:45 57.9 Lat: 36.75N Lon: 7.12W Depth: 19F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	150	295	EP		346	20.06	-.110							1.0
MORF	HN	150	295	ES		346	36.29	-.110							1.0
MORF	HN	150	295	IAML		346	37.43			56	0.2				
MESJ	HZ	155	321	EP		346	20.930	.070							1.0
MESJ	HE	155	321	ES		346	37.740	.150							1.0
MESJ	HN	155	321	IAML		346	40.33			11	0.1				

November 1 2015 Hour: 15:16 15.9 Lat: 23.26S Lon: 68.28W Depth: 99F Agency: IGL Distant  
Magnitudes: 5.8Mb IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9158	44	EP		1528	26.810	.070							1.0
MORF	BZ	9158	44	IAMB		1528	32.65			430	2.0				
MESJ	BZ	9224	44	EP		1528	29.790	.050							1.0
MESJ	BZ	9224	44	IAMB		1528	33.66			114	1.1				
MESJ	BN	9224	44	ES		1538	40.65	-.130							1.0

November 1 2015 Hour: 20:45 10.3 Lat: 36.72N Lon: 8.08W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	83	322	EP		2045	23.60	-.040							1.0
MORF	HE	83	322	ES		2045	33.33	-.030							1.0
MORF	HE	83	322	IAML		2045	36.10			23	0.2				
MESJ	HZ	125	354	EP		2045	30.510	.040							1.0
MESJ	HN	125	354	ES		2045	45.200	.030							1.0
MESJ	HE	125	354	IAML		2045	48.03			7	0.1				

November 2 2015 Hour: 1:31 51.2 Lat: 37.32N Lon: 8.56W Depth: 8F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	259	EP		131	52.85	-.210							1.0
MORF	HN	8	259	ES		131	54.530	.070							1.0
MORF	HN	8	259	IAML		131	54.99			517	0.1				
MESJ	HZ	65	27	EP		132	1.740	.020							1.0
MESJ	HE	65	27	ES		132	9.560	.120							1.0
MESJ	HE	65	27	IAML		132	10.96			24	0.1				

November 3 2015 Hour: 2:43 19.5 Lat: 38.33N Lon: 8.07W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.1 secs

W VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	56	194	EP		243	28.570	.050							1.0
MESJ	HN	56	194	ES		243	35.04	-.070							1.0
MESJ	HN	56	194	IAML		243	36.19			148	0.1				
GGNV	HE	103	295	ES		243	48.27	-.070							1.0
GGNV	HN	103	295	IAML		243	52.01			174	0.2				
MORF	HZ	125	204	EP		243	39.710	.130							1.0
MORF	HE	125	204	ES		243	54.22	-.030							1.0

MORF HN 125 204 IAML 243 56.80 234 0.1

**November 3 2015 Hour: 5:51 17.4 Lat: 37.33N Lon: 8.59W Depth: 15F Agency: IGL Regional  
Magnitudes: 0.6ML 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	6	244	EP		551	19.79	-.270							1.0
MORF	HE	6	244	ES		551	22.170	.170							1.0
MORF	HN	6	244	IAML		551	22.96			27	0.1				
MESJ	HZ	65	30	EP		551	28.140	.140							1.0
MESJ	HN	65	30	ES		551	35.69	-.040							1.0
MESJ	HN	65	30	IAML		551	36.40			2	0.1				

**November 4 2015 Hour: 3:44 15.5 Lat: 8.35S Lon: 124.90E Depth: 14F Agency: IGL Distant  
Magnitudes: 6.5Ms IGL Rms: 0.0 secs**

**KEPULAUAN ALOR, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14313	312	312	EPP		4 5	27.530	.020							1.0
MESJ	BN14313	312	IAMs_20			5 2	16.06			7873	22.0				
GGNV	BZ14349	314	314	EPP		4 5	29.61	-.010							1.0
GGNV	BN14349	314	IAMs_20			457	24.44			13663	23.8				
MORF	BZ14371	312	312	EPP		4 5	30.96	-.010							1.0
MORF	BN14371	312	IAMs_20			456	15.59			12182	28.3				

**November 4 2015 Hour: 15: 2 39.4 Lat: 38.57N Lon: 7.93W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**W EVORA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	85	197	EP		15 2	52.99	-.100							1.0
MESJ	HN	85	197	ES		15 3	3.160	.100							1.0
MESJ	HN	85	197	IAML		15 3	4.96			13	0.2				

**November 4 2015 Hour: 19:26 57.5 Lat: 36.93N Lon: 5.56W Depth: 21F 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	256	294	EP		1927	32.73	-.050							1.0

**November 5 2015 Hour: 0:13 57.6 Lat: 37.32N Lon: 8.54W Depth: 9F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	261	EP		013	59.70	-.140							1.0
MORF	HN	10	261	ES		014	1.520	.050							1.0
MORF	HN	10	261	IAML		014	2.08			98	0.2				
MESJ	HZ	64	26	EP		014	8.270	.190							1.0
MESJ	HN	64	26	ES		014	15.63	-.090							1.0
MESJ	HN	64	26	IAML		014	18.73			2	0.1				

**November 5 2015 Hour: 1:59 22.8 Lat: 56.18N Lon: 162.32E Depth: 55F Agency: IGL Distant  
Magnitudes: 5.6Mb 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	9552	353	EP		211	56.580	.020							1.0
MESJ	BZ	9552	353	IAMB		212	2.56			107	2.3				
MORF	BZ	9614	353	EP		211	59.35	-.020							1.0
MORF	BZ	9614	353	IAMB		212	0.96			44	1.1				

**November 5 2015 Hour: 2:45 11.4 Lat: 36.75N Lon: 7.24W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	149	325	EP		245	32.720	.080							1.0
MESJ	HN	149	325	ES		245	48.08	-.080							1.0
MESJ	HN	149	325	IAML		245	54.45			5	0.2				

**November 5 2015 Hour: 4:16 29.7 Lat: 37.11N Lon: 3.63W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.2 secs**  
**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	414	283	EP		417	26.33	-.210							1.0
MESJ	HN	414	283	IAML		418	13.35			5	0.3				
MORF	HZ	446	274	EP		417	30.45	-.070							1.0
MORF	HE	446	274	ES		418	15.190	.280							1.0
MORF	HE	446	274	IAML		418	19.87			9	0.3				

**November 5 2015 Hour: 7:51 9.8 Lat: 36.64N Lon: 9.82W Depth: 15F 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	128	54	EP		751	29.64	-.020							1.0
MORF	HN	128	54	ES		751	44.09	-.070							1.0
MORF	HN	128	54	IAML		751	45.04			2	0.1				
MESJ	HZ	195	46	EP		751	37.960	.020							1.0
MESJ	HE	195	46	ES		751	58.550	.070							1.0
MESJ	HN	195	46	IAML		751	59.99			1	0.2				

**November 5 2015 Hour: 8:17 9.3 Lat: 36.42N Lon: 9.05W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	105	20	EP		817	26.240	.050							1.0
MORF	HN	105	20	ES		817	38.45	-.050							1.0
MORF	HN	105	20	IAML		817	40.06			12	0.1				

**November 5 2015 Hour: 10:4 42.3 Lat: 40.19N Lon: 8.76W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.1 secs**  
**MONTEMOR-O-VELHO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	265	170	EP		10 5	19.480	.070							1.0
MORF	HZ	320	178	EP		10 5	26.14	-.160							1.0
MORF	HE	320	178	ES		10 5	58.470	.090							1.0
MORF	HN	320	178	IAML		10 6	1.24			11	0.4				

**November 5 2015 Hour: 17:7 54.7 Lat: 38.23N Lon: 8.69W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.0 secs**  
**NE MELIDES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	60	136	EP		17 8	4.530	.060							1.0
MESJ	HE	60	136	ES		17 8	11.51	-.050							1.0
MESJ	HN	60	136	IAML		17 8	12.65			3	0.1				
MORF	HZ	103	178	EP		17 8	11.25	-.010							1.0
MORF	HN	103	178	ES		17 8	23.31	-.000							1.0
MORF	HN	103	178	IAML		17 8	24.02			4	0.2				

November 5 2015 Hour: 22:43 40.7 Lat: 36.36N Lon: 5.33W Depth: 0 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	305	303	EP		2244	23.990	.020							1.0
MESJ	HN	305	303	ES		2244	55.580	.010							1.0
MESJ	HN	305	303	IAML		2244	58.99			4	0.3				
MORF	HZ	314	290	EP		2244	25.14	-.030							1.0

November 6 2015 Hour: 0:4 36.7 Lat: 36.13N Lon: 8.45W Depth: 31F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	132	352	EP		0 4	55.160	.060							1.0
MORF	HN	132	352	ES		0 5	8.43	-.120							1.0
MORF	HN	132	352	IAML		0 5	11.01			2	0.1				
MESJ	HZ	191	6	EP		0 5	2.38	-.030							1.0
MESJ	HN	191	6	ES		0 5	21.270	.090							1.0
MESJ	HN	191	6	IAML		0 5	23.65			1	0.1				

November 6 2015 Hour: 1:9 54.8 Lat: 52.26N Lon: 169.52W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9865	15	EP		122	48.12	-.150							1.0
MESJ	BZ	9865	15	IAMB		122	48.69			19	1.2				
MORF	BZ	9915	15	EP		122	50.620	.150							1.0
MORF	BZ	9915	15	IAMB		122	51.77			52	1.3				

November 6 2015 Hour: 1:51 15.7 Lat: 37.13N Lon: 8.72W Depth: 6F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NW LAGOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	21	17	EP		151	19.05	-.110							1.0
MORF	HE	21	17	ES		151	21.69	-.010							1.0
MORF	HN	21	17	IAML		151	22.23			35	0.1				
MESJ	HN	90	29	ES		151	41.070	.120							1.0
MESJ	HN	90	29	IAML		151	43.13			8	0.2				

November 6 2015 Hour: 6:55 20.3 Lat: 38.78N Lon: 7.98W Depth: 4F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.2 secs

NE ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	106	191	EP		655	37.630	.170							1.0
MESJ	HN	106	191	ES		655	49.83	-.170							1.0
MESJ	HE	106	191	IAML		655	51.58			2	0.1				

November 6 2015 Hour: 16:9 33.1 Lat: 37.71N Lon: 8.34W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.1 secs

NW OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	18	36	EP		16 9	35.91	-.080							1.0
MESJ	HN	18	36	ES		16 9	38.180	.080							1.0
MESJ	HN	18	36	IAML		16 9	38.45			104	0.2				
MORF	HZ	53	212	EP		16 9	41.710	.130							1.0
MORF	HN	53	212	ES		16 9	47.63	-.140							1.0
MORF	HN	53	212	IAML		16 9	49.88			19	0.0				

**November 6 2015 Hour: 19:54 50.2 Lat: 15.66N Lon: 95.05W Depth: 38F Agency: IGL Distant**  
**Magnitudes: 5.2Mb IGL Rms: 0.1 secs**

**OFFSHORE OAXACA, MEXICO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8666	54	EP		20	6	44.300	0.060						1.0
MORF	BZ	8666	54	IAMB		20	6	45.92		60	1.6				
MESJ	BZ	8693	54	EP		20	6	45.46	-0.060						1.0
MESJ	BZ	8693	54	IAMB		20	6	49.81		28	1.5				

**November 7 2015 Hour: 3:32 28.6 Lat: 37.48N Lon: 9.19W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 1.1ML 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	52	112	EP		332	37.730	0.400							1.0
MORF	HE	52	112	ES		332	43.52	-0.200							1.0
MORF	HE	52	112	IAML		332	44.24			18	0.1				
MESJ	HZ	94	65	EP		332	43.41	-0.160							1.0
MESJ	HE	94	65	ES		332	54.46	-0.050							1.0
MESJ	HE	94	65	IAML		332	57.27			3	0.2				

**November 7 2015 Hour: 6:58 31.0 Lat: 8.48N Lon: 71.36W Depth: 13F Agency: IGL Distant**  
**Magnitudes: 5.8Mb IGL Rms: 0.0 secs**

**MERIDA, VENEZUELA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	7027	51	EP		7	8	58.61	-0.010						1.0
GGNV	BZ	7027	51	IAMB		7	9	4.44		64	0.8				
MORF	BZ	7041	53	EP		7	8	59.560	0.020						1.0
MORF	BZ	7041	53	IAMB		7	9	6.28		77	1.0				
MESJ	BZ	7089	52	EP		7	9	2.33	-0.010						1.0
MESJ	BZ	7089	52	IAMB		7	9	9.02		29	0.6				

**November 7 2015 Hour: 7:4 31.5 Lat: 29.45S Lon: 72.29W Depth: 12F Agency: IGL Distant**  
**Magnitudes: 5.8Mb IGL Rms: 0.1 secs**

**OFFSHORE COQUIMBO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BN	9924	46	ESKSac		727	56.760	0.230							0.9
GGNV	BN	9988	44	ESKSac		727	59.73	-0.050							1.0
MESJ	BN	9991	45	ESKSac		727	59.92	-0.060							1.0

**November 7 2015 Hour: 7:31 41.7 Lat: 30.91S Lon: 71.55W Depth: 38F Agency: IGL Distant**  
**Magnitudes: 6.8Ms IGL Rms: 0.1 secs**

**COQUIMBO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9985	45	EP		744	36.03	-0.090							1.0
MORF	BZ	9985	45	IAMs_20		820	47.68			48790	26.0				
MESJ	BZ10052	45	EP			744	38.930	0.060							1.0
MESJ	BZ10052	45	IAMs_20			820	54.45			42674	22.4				
GGNV	BZ10053	44	EP			744	38.860	0.030							1.0
GGNV	BZ10053	44	IAMs_20			820	55.38			70975	33.9				

**November 7 2015 Hour: 8:45 50.3 Lat: 35.16N Lon: 4.46W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	449	313	EP		846	48.71	-0.020							1.0
MESJ	HN	449	313	ES		847	31.410	0.020							1.0
MESJ	HN	449	313	IAML		847	37.20			7	0.2				

November 7 2015 Hour: 8:50 38.5 Lat: 37.20N Lon: 8.53W Depth: 20F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.0 secs

NE PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	16	318	EP		850	42.55	-.020							1.0
MORF	HN	16	318	ES		850	45.590	.020							1.0
MORF	HN	16	318	IAML		850	45.86			21	0.1				

November 7 2015 Hour: 8:52 36.2 Lat: 36.62N Lon: 11.24W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	243	71	EP		853	8.380	.000							1.0
MORF	HN	243	71	ES		853	31.83	-.060							1.0
MORF	HE	243	71	IAML		853	35.70			12	0.3				
MESJ	HZ	300	62	EP		853	15.540	.060							1.0

November 7 2015 Hour: 10:53 43.8 Lat: 30.75S Lon: 71.37W Depth: 38F Agency: IGL Distant  
Magnitudes: 5.7Mb IGL Rms: 0.0 secs

COQUIMBO, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9962	45	EP		11 6	37.17	-.010							1.0
MORF	BZ	9962	45	IAMB		11 6	37.50			34	1.1				
MESJ	BZ10029	45	EP			11 6	39.950	.010							1.0
MESJ	BZ10029	45	IAMB			11 6	40.85			80	1.7				

November 7 2015 Hour: 18:11 57.9 Lat: 36.71N Lon: 5.50W Depth: 0 Agency: IGL Regional  
Magnitudes: 3.8ML 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	272	298	EP		1812	37.310	.110							1.0
MESJ	HE	272	298	ES		1813	5.910	.060							1.0
MESJ	HN	272	298	IAML		1813	8.22			655	0.2				
MORF	HZ	288	284	EP		1812	39.06	-.200							1.0
MORF	HN	288	284	ES		1813	9.450	.030							1.0
MORF	HN	288	284	IAML		1813	10.76			381	0.3				

November 7 2015 Hour: 18:27 42.8 Lat: 36.44N Lon: 7.36W Depth: 11F 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	HN	150	310	ES		1828	22.640	.110							1.0
MORF	HE	150	310	IAML		1828	25.95			16	0.2				
MESJ	HZ	173	334	EP		1828	8.48	-.110							1.0

November 8 2015 Hour: 6:25 45.8 Lat: 38.90N Lon: 8.02W Depth: 18F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

SE MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	119	189	EP		626	4.480	.160							1.0
MESJ	HN	119	189	ES		626	17.65	-.160							1.0
MESJ	HN	119	189	IAML		626	18.85			25	0.2				

November 8 2015 Hour: 8:13 37.6 Lat: 17.37S Lon: 69.50W Depth: 165F Agency: IGL Distant  
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

LA PAZ, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8784	45	EP		825	22.96	-.030							1.0
MORF	BZ	8784	45	IAMB		825	25.05			144	0.8				
GGNV	BZ	8830	44	EP		825	25.170	.020							1.0
GGNV	BZ	8830	44	IAMB		825	26.63			142	1.2				
MESJ	BZ	8848	45	EP		825	26.040	.010							1.0
MESJ	BZ	8848	45	IAMB		825	28.57			121	1.0				



**November 8 2015 Hour: 10:50 34.7 Lat: 36.31N Lon: 8.26W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	116	343	EP		1050	53.26	-.020							1.0
MORF	HE	116	343	ES		1051	6.79	-.020							1.0
MORF	HE	116	343	IAML		1051	8.13		15	0.1					
MESJ	HZ	170	1	EP		1051	0.55	-.030							1.0
MESJ	HN	170	1	ES		1051	19.51	0.070							1.0
MESJ	HE	170	1	IAML		1051	20.31		10	0.1					

**November 9 2015 Hour: 1:26 42.5 Lat: 37.54N Lon: 9.20W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	55	118	EP		126	51.42	0.040							1.0
MORF	HE	55	118	ES		126	57.85	-.020							1.0
MORF	HE	55	118	IAML		126	58.69		11	0.1					
MESJ	HZ	93	69	EP		126	57.34	-.090							1.0
MESJ	HE	93	69	ES		127	8.40	0.070							1.0
MESJ	HN	93	69	IAML		127	9.31		3	0.2					

**November 9 2015 Hour: 7:32 34.1 Lat: 37.31N Lon: 8.60W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.2 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	265	EP		732	35.97	-.270							1.0
MORF	HE	5	265	ES		732	38.02	0.210							1.0
MORF	HN	5	265	IAML		732	38.64		15	0.1					
MESJ	HZ	68	30	EP		732	45.15	0.130							1.0
MESJ	HN	68	30	ES		732	52.94	-.060							1.0
MESJ	HN	68	30	IAML		732	54.47		5	0.1					

**November 9 2015 Hour: 13:36 32.3 Lat: 39.28N Lon: 8.47W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.0 secs**

**S CHAMUSCA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	161	172	EP		1336	57.68	0.000							1.0
MESJ	HN	161	172	ES		1337	16.22	-.000							1.0
MESJ	HN	161	172	IAML		1337	17.57		9	0.2					

**November 9 2015 Hour: 16:3 45.3 Lat: 51.74N Lon: 173.07W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.4Ms IGL Rms: 0.1 secs**

**ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9869	13	EP		1616	39.12	0.170							0.9
GGNV	BZ	9869	13	EPP		1620	8.43	-.000							1.0
GGNV	BN	9869	13	ESKSac		1627	8.48	-.010							1.0
GGNV	BZ	9869	13	IAMs_20	17	0	3.18		17173	25.7					
MESJ	BZ	9978	12	EP		1616	43.67	0.060							1.0
MESJ	BZ	9978	12	EPP		1620	16.25	-.080							1.0
MESJ	BE	9978	12	ESKSac		1627	14.48	0.080							1.0
MESJ	BE	9978	12	ESS		1633	34.98	0.030							1.0
MESJ	BZ	9978	12	IAMs_20	17	0	55.60		13390	20.1					
MORF	BZ10030	12	EP			1616	45.81	-.050							1.0
MORF	BZ10030	12	EPP			1620	20.02	-.090							1.0
MORF	BN10030	12	ESKSac			1627	17.23	-.010							1.0
MORF	BE10030	12	ESS			1633	41.74	-.080							1.0
MORF	BZ10030	12	IAMs_20	17	0	33.89			16445	17.2					

**November 9 2015 Hour: 22:13 34.3 Lat: 37.91N Lon: 7.94W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.2ML IGL Rms: 0.0 secs**  
**SW BEJA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	26	252	EP		2213	38.950	.030							1.0
MESJ	HN	26	252	ES		2213	42.25	-.030							1.0
MESJ	HN	26	252	IAML		2213	42.60			4	0.2				

**November 9 2015 Hour: 22:51 39.2 Lat: 37.09N Lon: 5.54W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 1.9ML IGL Rms: 0.1 secs**  
**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	251	290	EP		2252	14.84	-.040							1.0
MORF	HZ	277	276	EP		2252	18.08	-.070							1.0
MORF	HN	277	276	ES		2252	46.720	.110							1.0
MORF	HN	277	276	IAML		2252	51.37			6	0.3				

**November 10 2015 Hour: 2:54 54.7 Lat: 36.85N Lon: 8.52W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	52	347	EP		255	3.310	.050							1.0
MORF	HN	52	347	ES		255	9.47	-.050							1.0
MORF	HN	52	347	IAML		255	11.17			4	0.1				

**November 10 2015 Hour: 20:38 25.4 Lat: 38.54N Lon: 11.84W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.3 secs**  
**NORTH ATLANTIC OCEAN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	312	115	EP		2039	8.08	-.180							1.0
MORF	HN	312	115	ES		2039	39.970	.410							1.0
MORF	HN	312	115	IAML		2039	42.98			5	0.1				
MESJ	HZ	327	103	EP		2039	10.260	.220							1.0
MESJ	HE	327	103	ES		2039	42.17	-.460							1.0
MESJ	HN	327	103	IAML		2039	46.83			3	0.2				

**November 11 2015 Hour: 1:54 37.8 Lat: 29.44S Lon: 72.11W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 7.0Ms IGL Rms: 0.1 secs**  
**OFFSHORE COQUIMBO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9910	46	EP		2	7	33.360	.070						1.0
MORF	BZ	9910	46	EPP		211	2.96	-.090							1.0
MORF	BE	9910	46	ESKSac		218	2.680	.020							1.0
MORF	BZ	9910	46	IAMs_20		248	41.86			61719	19.0				
GGNV	BZ	9974	44	EP		2	7	35.950	.070						1.0
GGNV	BE	9974	44	ESKSac		218	5.980	.040							1.0
GGNV	BZ	9974	44	IAMs_20		245	28.87			59029	20.0				
MESJ	BZ	9977	45	EP		2	7	35.95	-.080						1.0
MESJ	BZ	9977	45	EPP		211	7.76	-.030							1.0
MESJ	BN	9977	45	ESKSac		218	6.12	-.000							1.0
MESJ	BZ	9977	45	IAMs_20		248	50.94			44030	15.3				

**November 11 2015 Hour: 2:46 20.8 Lat: 29.44S Lon: 72.17W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.3Ms IGL Rms: 0.1 secs**  
**OFFSHORE COQUIMBO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9915	46	EP		259	16.52	-.030							1.0
MORF	BZ	9915	46	IAMs_20		338	9.07			10130	18.8				
GGNV	BZ	9979	44	EP		259	19.270	.150							1.0
GGNV	BZ	9979	44	IAMs_20		337	40.85			18199	28.2				
MESJ	BZ	9982	45	EP		259	19.17	-.120							1.0
MESJ	BE	9982	45	ESKSac		3	9	49.43	-.000						1.0
MESJ	BZ	9982	45	IAMs_20		337	57.31			8404	18.8				

November 11 2015 Hour: 3:16 58.5 Lat: 37.28N Lon: 8.57W Depth: 12F Agency: IGL Regional  
Magnitudes: 0.2ML 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	292	EP		317	0.84	-.020							1.0
MORF	HN	8	292	ES		317	2.620	.020							1.0
MORF	HE	8	292	IAML		317	3.73			11	0.1				

November 11 2015 Hour: 12: 8 50.2 Lat: 9.69N Lon: 85.70W Depth: 26F Agency: IGL Distant  
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

OFF COAST OF COSTA RICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8227	54	EP		1220	23.26	-.030							1.0
MORF	BZ	8227	54	IAMB		1220	24.19			23	1.0				
MESJ	BZ	8265	53	EP		1220	25.260	.030							1.0
MESJ	BZ	8265	53	IAMB		1220	25.28			7	0.8				

November 11 2015 Hour: 14:33 28.4 Lat: 37.15N Lon: 9.10W Depth: 12F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	66	EP		1433	35.65	-.060							1.0
MORF	HN	44	66	ES		1433	41.01	-.020							1.0
MORF	HN	44	66	IAML		1433	41.94			11	0.2				
MESJ	HN	109	45	ES		1433	58.290	.080							1.0
MESJ	HE	109	45	IAML		1433	59.74			4	0.1				

November 11 2015 Hour: 19:55 20.6 Lat: 37.32N Lon: 8.55W Depth: 8F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	260	EP		1955	22.41	-.180							1.0
MORF	HN	9	260	ES		1955	24.140	.080							1.0
MORF	HN	9	260	IAML		1955	24.84			81	0.1				
MESJ	HZ	65	27	EP		1955	31.200	.110							1.0

November 11 2015 Hour: 23:36 18.9 Lat: 7.25S Lon: 128.95E Depth: 121F Agency: IGL Distant  
Rms: 0.0 secs

KEPULAUAN BABAR, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	14553	315	EPKPDF		2355	15.330	.010							1.0
MORF	BZ	14614	314	EPKPDF		2355	16.40	-.010							1.0

November 12 2015 Hour: 2: 4 15.8 Lat: 36.57N Lon: 12.25W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	331	75	EP		2	5	1.28	-.010						1.0
MORF	HN	331	75	ES		2	5	34.560	.080						1.0
MORF	HN	331	75	IAML		2	5	35.49			5	0.1			
MESJ	HN	384	67	ES		2	5	45.86	-.080						1.0
MESJ	HN	384	67	IAML		2	5	47.60			2	0.1			

November 13 2015 Hour: 0:56 11.4 Lat: 36.52N Lon: 9.75W Depth: 14F 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	131	48	EP		056	31.820	.020							1.0
MORF	HN	131	48	ES		056	46.66	-.020							1.0
MORF	HE	131	48	IAML		056	49.70				8	0.2			
MESJ	HZ	200	42	EP		056	40.21	-.080							1.0
MESJ	HE	200	42	ES		057	1.440	.080							1.0
MESJ	HE	200	42	IAML		057	2.64				3	0.2			

November 13 2015 Hour: 4:3 23.3 Lat: 35.80N Lon: 10.17W 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	216	39	EP		4 3	52.140	.060							1.0
MORF	HE	216	39	ES		4 4	13.170	.060							1.0
MORF	HN	216	39	IAML		4 4	15.22			5	0.2				
MESJ	HZ	285	37	EP		4 4	0.61	-.130							1.0

November 13 2015 Hour: 6:4 13.9 Lat: 29.87S Lon: 64.50W Depth: 11F Agency: IGL Distant  
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

CORDOBA, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9437	41	EP		616	48.52	-.120							1.0
MORF	BZ	9437	41	IAMs_20		655	15.13			2301	19.0				
MESJ	BZ	9506	41	EP		616	51.63	-.020							1.0
MESJ	BZ	9506	41	IAMs_20		655	8.69			1747	17.1				
GGNV	BZ	9514	40	EP		616	52.140	.140							1.0
GGNV	BZ	9514	40	IAMs_20		652	37.15			4239	26.7				

November 14 2015 Hour: 1:33 22.3 Lat: 36.45N Lon: 9.84W Depth: 28F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	142	48	EP		133	43.020	.020							1.0
MORF	HE	142	48	ES		133	58.07	-.010							1.0
MORF	HN	142	48	IAML		133	59.53			5	0.1				
MESJ	HZ	211	43	EP		133	51.47	-.010							1.0
MESJ	HN	211	43	ES		134	12.760	.000							1.0
MESJ	HE	211	43	IAML		134	14.38			3	0.1				

November 14 2015 Hour: 5:25 35.6 Lat: 7.18N Lon: 34.27W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.2Mb 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	4226	34	EP		532	53.60	-.080							1.0
MORF	BZ	4226	34	IAMB		532	57.05			49	0.8				
MESJ	BZ	4295	34	EP		532	58.80	-.050							1.0
MESJ	BZ	4295	34	IAMB		533	2.84			42	1.3				
MESJ	BE	4295	34	ES		538	56.170	.130							1.0

November 14 2015 Hour: 6:5 14.2 Lat: 35.97N Lon: 4.90W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	361	306	EP		6 6	2.660	.020							1.0
MESJ	HE	361	306	ES		6 6	37.98	-.010							1.0
MESJ	HE	361	306	IAML		6 6	39.55			4	0.3				
MORF	HZ	367	295	EP		6 6	3.29	-.050							1.0
MORF	HE	367	295	ES		6 6	39.240	.040							1.0
MORF	HN	367	295	IAML		6 6	41.22			3	0.2				

November 14 2015 Hour: 21:13 5.2 Lat: 38.28N Lon: 7.32W Depth: 2F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.0 secs

SE MOURAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	93	239	EP		2113	20.19	-.000							1.0
MESJ	HN	93	239	ES		2113	31.140	.010							1.0
MESJ	HN	93	239	IAML		2113	32.08			8	0.1				
MORF	HZ	159	228	EP		2113	30.320	.020							1.0
MORF	HN	159	228	ES		2113	48.59	-.030							1.0
MORF	HN	159	228	IAML		2113	53.56			8	0.4				

November 15 2015 Hour: 2:47 57.9 Lat: 38.18N Lon: 8.16W Depth: 2F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	38	188	EP		248	4.090	.030							1.0
MESJ	HN	38	188	ES		248	8.45-	.110							1.0
MESJ	HN	38	188	IAML		248	8.75			21	0.1				
MORF	HZ	106	204	EP		248	15.220	.190							1.0
MORF	HN	106	204	ES		248	27.43-	.100							1.0
MORF	HN	106	204	IAML		248	29.56			14	0.2				

November 15 2015 Hour: 10: 7 19.9 Lat: 35.18N Lon: 11.28W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	334	44	EP		10 8	4.260	.020							1.0
MORF	HN	334	44	ES		10 8	36.50-	.100							1.0
MORF	HN	334	44	IAML		10 8	38.32			5	0.2				
MESJ	HZ	403	42	EP		10 8	12.820	.100							1.0
MESJ	HN	403	42	ES		10 8	51.25-	.010							1.0
MESJ	HN	403	42	IAML		10 8	52.19			2	0.1				

November 15 2015 Hour: 10:38 53.2 Lat: 35.25N Lon: 4.09W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.9ML 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	468	309	EP		1039	56.67-	.070							1.0
MESJ	HE	468	309	ES		1040	43.180	.070							1.0
MESJ	HN	468	309	IAML		1040	45.53			3	0.4				

November 15 2015 Hour: 23:33 36.9 Lat: 38.54N Lon: 9.34W Depth: 5F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.0 secs

S OEIRAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	125	128	EP		2333	56.890	.000							1.0
MESJ	HN	125	128	ES		2334	11.51-	.000							1.0
MESJ	HE	125	128	IAML		2334	13.31			3	0.2				

November 16 2015 Hour: 0:39 34.0 Lat: 17.83N Lon: 81.86W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.4Ms IGL Rms: 0.0 secs

CAYMAN ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BE	7315	55	ES		059	6.09-	0.03							1.0
GGNV	BZ	7315	55	IAMs_20		116	15.87			2856	23.3				
MORF	BZ	7370	57	EP		050	22.28-	0.04							1.0
MORF	BN	7370	57	ES		059	12.41	0.05							1.0
MORF	BZ	7370	57	IAMs_20		111	4.85			4325	40.3				
MESJ	BZ	7403	56	EP		050	24.15-	0.02							1.0
MESJ	BN	7403	56	ES		059	15.91	0.04							1.0
MESJ	BZ	7403	56	IAMs_20		114	36.41			1830	15.6				

November 16 2015 Hour: 4:25 35.5 Lat: 36.72N Lon: 7.35W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	133	300	EP		425	56.72-	.190							1.0
MORF	HE	133	300	ES		426	12.610	.060							1.0
MORF	HN	133	300	IAML		426	14.71			5	0.2				
MESJ	HE	146	328	ES		426	16.260	.130							1.0
MESJ	HN	146	328	IAML		426	17.95			3	0.3				

November 16 2015 Hour: 16:49 13.3 Lat: 48.30N Lon: 154.28E Depth: 34F Agency: IGL Distant  
Magnitudes: 5.7Ms IGL Rms: 0.0 secs

KURIL ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10315	346	EP			17 2	21.87	-.010							1.0
MESJ	BN10315	346	ESKSac			1712	53.04	-.010							1.0
MESJ	BZ10315	346	IAMs_20			1749	47.16		3371	24.4					
MORF	BZ10381	346	EP			17 2	24.670	.020							1.0
MORF	BZ10381	346	IAMs_20			1749	58.31		2685	23.4					

November 16 2015 Hour: 22:56 19.1 Lat: 37.35N Lon: 8.55W Depth: 10F Agency: IGL Regional  
Magnitudes: 0.6ML 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	10	242	EP		2256	21.28	-.220							1.0
MORF	HN	10	242	ES		2256	23.430	.210							1.0
MORF	HN	10	242	IAML		2256	23.80		25	0.2					
MESJ	HZ	62	28	EP		2256	29.330	.120							1.0
MESJ	HE	62	28	ES		2256	36.47	-.100							1.0
MESJ	HN	62	28	IAML		2256	39.73		4	0.3					

November 17 2015 Hour: 7:10 8.0 Lat: 38.76N Lon: 20.45E Depth: 10F Agency: IGL Distant  
Magnitudes: 6.2Ms IGL Rms: 0.1 secs

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2500	277	EP		715	7.43	-.020							1.0
MESJ	BN	2500	277	IAMs_20		726	27.64		84825	20.4					
MORF	BZ	2549	276	EP		715	12.06	-.150							1.0
MORF	BE	2549	276	ES		719	23.590	.060							1.0
MORF	BN	2549	276	IAMs_20		721	44.11		202000	43.0					
GGNV	BZ	2562	279	EP		715	13.390	.020							1.0
GGNV	BE	2562	279	ES		719	25.380	.090							1.0
GGNV	BE	2562	279	IAMs_20		723	21.21		135000	22.5					

November 17 2015 Hour: 8:33 41.0 Lat: 38.74N Lon: 20.40E Depth: 2F Agency: IGL Distant  
Magnitudes: 4.7Mb IGL Rms: 0.1 secs

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2496	277	EP		838	41.16	-.090							1.0
MESJ	BZ	2496	277	IAMB		838	46.02		32	1.2					

November 17 2015 Hour: 10:0 12.4 Lat: 37.01N Lon: 8.28W Depth: 25F Agency: IGL Regional  
Magnitudes: 2.2ML 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	47	315	EP		10 0	20.61	-.030							1.0
MORF	HN	47	315	ES		10 0	26.660	.010							1.0
MORF	HE	47	315	IAML		10 0	27.22		252	0.2					
MESJ	HZ	92	3	EP		10 0	26.990	.010							1.0
MESJ	HN	92	3	ES		10 0	37.630	.010							1.0
MESJ	HE	92	3	IAML		10 0	40.17		39	0.1					

November 17 2015 Hour: 10:18 19.8 Lat: 37.04N Lon: 8.29W Depth: 27F 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	44	313	EP		1018	27.62	-.100							1.0
MORF	HN	44	313	ES		1018	33.550	.030							1.0
MORF	HE	44	313	IAML		1018	34.17		46	0.2					
MESJ	HZ	89	4	EP		1018	33.870	.030							1.0
MESJ	HE	89	4	ES		1018	44.160	.050							1.0
MESJ	HN	89	4	IAML		1018	45.29		3	0.2					

November 17 2015 Hour: 17:29 36.3 Lat: 40.37N Lon: 73.13E Depth: 16F Agency: IGL Distant  
Magnitudes: 5.5Ms IGL Rms: 0.1 secs

KYRGYZSTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6779	296	EP		1739	48.73	-.110							1.0
MESJ	BE	6779	296	ES		1748	7.530	.110							1.0
MESJ	BE	6779	296	IAMs_20		1811	37.26			2829	15.3				

November 18 2015 Hour: 0:26 52.0 Lat: 37.32N Lon: 8.57W Depth: 12F Agency: IGL Regional  
Magnitudes: 0.5ML 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	7	258	EP		026	54.24	-.100							1.0
MORF	HN	7	258	ES		026	56.120	.070							1.0
MORF	HN	7	258	IAML		026	57.02			46	0.1				
MESJ	HZ	65	28	EP		027	2.650	.060							1.0
MESJ	HE	65	28	ES		027	10.29	-.030							1.0
MESJ	HE	65	28	IAML		027	11.13			1	0.1				

November 18 2015 Hour: 5:18 15.5 Lat: 38.53N Lon: 20.39E Depth: 5F Agency: IGL Distant  
Magnitudes: 4.2Ms IGL Rms: 0.1 secs

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2498	277	EP		523	15.580	.060							1.0
MESJ	BZ	2498	277	IAMs_20		543	51.30			566	12.3				

November 18 2015 Hour: 12:15 38.5 Lat: 38.90N Lon: 20.52E Depth: 2F Agency: IGL Distant  
Magnitudes: 5.0Mb IGL Rms: 0.1 secs

GREECE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2504	276	EP		1220	39.55	-.020							1.0
MESJ	BZ	2504	276	IAMB		1220	42.11			83	1.6				

November 18 2015 Hour: 13:13 15.1 Lat: 36.73N Lon: 7.22W Depth: 24F Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	142	297	EP		1313	36.04	-.030							1.0
MORF	HN	142	297	ES		1313	51.370	.010							1.0
MORF	HN	142	297	IAML		1313	52.40			211	0.1				
MESJ	HZ	152	325	EP		1313	37.190	.000							1.0
MESJ	HN	152	325	ES		1313	53.310	.020							1.0
MESJ	HN	152	325	IAML		1313	58.09			101	0.3				

November 18 2015 Hour: 18:31 4.9 Lat: 8.93S Lon: 158.41E Depth: 13F Agency: IGL Distant  
Magnitudes: 7.2Ms IGL Rms: 0.1 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16508	341	EPKp $\bar{d}$ f			1850	46.890	.130							1.0
GGNV	BN16508	341	ESS			1913	28.08	-.060							1.0
GGNV	BZ16508	341	IAMs_20			20 8	16.19			34746	19.1				
MESJ	BZ16562	339	EPKp $\bar{d}$ f			1850	47.54	-.030							1.0
MESJ	BN16562	339	ESS			1913	33.52	-.100							1.0
MESJ	BZ16562	339	IAMs_20			20 9	5.37			36005	19.7				
MORF	BZ16632	339	EPKp $\bar{d}$ f			1850	48.670	.050							1.0
MORF	BZ16632	339	IAMs_20			1959	6.46			39895	17.3				

November 19 2015 Hour: 4:44 13.3 Lat: 37.32N Lon: 8.59W Depth: 12F Agency: IGL Regional  
Magnitudes: 1.2ML 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	6	254	EP		444	15.29	-.220							1.0
MORF	HE	6	254	ES		444	17.190	.060							1.0
MORF	HN	6	254	IAML		444	17.86		224	0.1					
MESJ	HZ	66	29	EP		444	24.180	.170							1.0
MESJ	HE	66	29	ES		444	31.850	.010							1.0
MESJ	HE	66	29	IAML		444	35.27		6	0.1					

November 19 2015 Hour: 4:54 28.7 Lat: 37.32N Lon: 8.59W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.6ML 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	6	254	EP		454	30.53	-.200							1.0
MORF	HN	6	254	ES		454	32.340	.100							1.0
MORF	HN	6	254	IAML		454	33.07		58	0.2					
MESJ	HZ	66	29	EP		454	39.510	.080							1.0
MESJ	HE	66	29	ES		454	47.320	.020							1.0
MESJ	HN	66	29	IAML		454	50.28		1	0.1					

November 19 2015 Hour: 11:11 1.4 Lat: 36.72N Lon: 9.67W Depth: 16F Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	54	EP		1111	19.120	.060							1.0
MORF	HN	112	54	ES		1111	32.070	.150							1.0
MORF	HN	112	54	IAML		1111	32.77		303	0.1					
MESJ	HZ	179	46	EP		1111	27.32	-.210							1.0
MESJ	HN	179	46	ES		1111	46.660	.080							1.0
MESJ	HN	179	46	IAML		1111	47.42		31	0.1					
GGNV	HN	226	12	ES		1111	56.65	-.100							0.9
GGNV	HN	226	12	IAML		1112	0.14		176	0.3					

November 19 2015 Hour: 21:57 4.0 Lat: 36.89N Lon: 8.87W Depth: 29F Agency: IGL Regional  
Magnitudes: 3.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	50	23	EP		2157	12.87	-.020							1.0
MORF	HN	50	23	ES		2157	19.37	-.020							1.0
MORF	HN	50	23	IAML		2157	20.17		1544	0.2					
MESJ	HZ	120	28	EP		2157	21.69	-.100							1.0
MESJ	HN	120	28	ES		2157	34.880	.100							1.0
MESJ	HN	120	28	IAML		2157	36.38		182	0.4					
GGNV	HN	204	353	ES		2157	52.870	.040							0.9
GGNV	HN	204	353	IAML		2157	55.81		108	0.2					

November 19 2015 Hour: 23:30 12.1 Lat: 36.89N Lon: 8.92W Depth: 35F Agency: IGL Regional  
Magnitudes: 0.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	52	27	EP		2330	21.40	-.030							1.0
MORF	HN	52	27	ES		2330	28.270	.030							1.0
MORF	HN	52	27	IAML		2330	31.00		3	0.2					

November 20 2015 Hour: 5:12 24.8 Lat: 38.68N Lon: 20.37E Depth: 2F Agency: IGL Distant  
Magnitudes: 4.3Mb IGL Rms: 0.0 secs

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2494	277	EP		517	24.81	-.020							1.0
MESJ	BZ	2494	277	IAMB		517	28.39		13	1.1					



November 20 2015 Hour: 5:31 52.3 Lat: 26.38N Lon: 142.71E Depth: 13F Agency: IGL Distant  
Magnitudes: 6.1Ms IGL Rms: 0.0 secs

BONIN ISLANDS, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ12248	337		EPP		550	57.000	.060							1.0
GGNV	BE12248	337		IAMs_20		642	35.40			4925	16.3				
MESJ	BZ12297	336		EPP		551	0.15-	.030							1.0
MESJ	BZ12297	336		IAMs_20		643	56.73			3721	16.1				
MORF	BZ12367	336		EPP		551	4.74-	.030							1.0
MORF	BZ12367	336		IAMs_20		643	38.22			4292	15.1				

November 20 2015 Hour: 5:37 34.0 Lat: 35.77N Lon: 4.61W Depth: 32F Agency: IGL Regional  
Magnitudes: 2.4ML 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	396	307	EP		538	26.090	.260							1.0
MESJ	HE	396	307	ES		539	3.810	.140							1.0
MESJ	HN	396	307	IAML		539	7.58			7	0.2				
MORF	HZ	400	296	EP		538	26.16-	.220							1.0
MORF	HE	400	296	ES		539	4.44-	.180							1.0
MORF	HN	400	296	IAML		539	7.70			17	0.2				

November 20 2015 Hour: 9:40 25.1 Lat: 39.19N Lon: 9.26W Depth: 18F Agency: IGL Regional  
Magnitudes: 2.3ML IGL Rms: 0.2 secs

SE LOURINHA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	53	170	EP		940	33.82-	.170							1.0
GGNV	HN	53	170	ES		940	40.690	.220							1.0
GGNV	HE	53	170	IAML		940	41.79			489	0.3				
MESJ	HZ	175	148	EP		940	50.52-	.070							0.9
MESJ	HN	175	148	ES		941	9.280	.100							0.9
MESJ	HE	175	148	IAML		941	16.70			17	0.3				
MORF	HZ	216	166	EP		940	55.46-	.200							0.9
MORF	HE	216	166	ES		941	18.070	.110							0.9
MORF	HN	216	166	IAML		941	19.72			14	0.1				

November 20 2015 Hour: 10:23 14.2 Lat: 37.31N Lon: 8.60W Depth: 15F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	265	EP		1023	16.890	.110							1.0
MORF	HN	5	265	ES		1023	18.55-	.110							1.0
MESJ	HZ	68	30	EP		1023	25.240	.100							1.0
MESJ	HN	68	30	ES		1023	33.04-	.100							1.0
MESJ	HE	68	30	IAML		1023	33.93			3	0.1				

November 20 2015 Hour: 17:5 31.2 Lat: 37.35N Lon: 8.48W Depth: 7F Agency: IGL Regional  
Magnitudes: 1.8ML 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	16	252	EP		17	5	33.84-	.230						1.0
MORF	HN	16	252	ES		17	5	36.210	.070						1.0
MORF	HN	16	252	IAML		17	5	36.69		276	0.2				
MESJ	HZ	59	23	EP		17	5	40.970	.160						1.0

November 20 2015 Hour: 19:32 34.9 Lat: 37.34N Lon: 2.06W Depth: 14F 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	547	278	EP		1933	46.41-	.020							1.0

November 21 2015 Hour: 0:31 17.5 Lat: 37.54N Lon: 8.34W Depth: 10F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.2 secs

SW OURIQUE, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	35	17	EP		031	23.25	-.130							1.0
MESJ	HE	35	17	ES		031	27.49	-.200							1.0
MESJ	HN	35	17	IAML		031	28.06			12	0.0				
MORF	HZ	38	228	EP		031	23.970	.170							1.0
MORF	HN	38	228	ES		031	28.590	.160							1.0
MORF	HN	38	228	IAML		031	29.58			7	0.1				

November 21 2015 Hour: 9: 6 12.6 Lat: 7.21S Lon: 129.93E Depth: 67F Agency: IGL Distant  
Rms: 0.0 secs

KEPULAUAN BABAR, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14626	315		EPKPdf		925	16.87	-.020							1.0
MESJ	BZ14626	315		EPP		927	36.25	-.060							1.0
GGNV	BZ14651	317		EPP		927	37.700	.010							1.0
MORF	BZ14688	315		EPKPdf		925	18.070	.090							1.0
MORF	BZ14688	315		EPP		927	39.90	-.020							1.0

November 21 2015 Hour: 23: 5 31.0 Lat: 30.58S Lon: 71.80W Depth: 24F Agency: IGL Distant  
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

OFFSHORE COQUIMBO, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ 9977	45		EP		2318	27.05	-.000							1.0
MORF	BZ 9977	45		IAMs_20		2359	5.50			3980	18.9				
MESJ	BZ10044	45		IAMs_20		2359	48.76			3461	14.4				
GGNV	BZ10044	44		EP		2318	29.59	-.140							1.0
GGNV	BZ10044	44		IAMs_20		2358	58.27			2825	13.3				
MESJ	BZ10044	45		EP		2318	29.940	.140							1.0

November 22 2015 Hour: 2: 2 53.6 Lat: 36.07N Lon: 8.50W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	138	354	EP		2 3	12.52	-.230							1.0
MORF	HN	138	354	ES		2 3	26.870	.120							1.0
MORF	HN	138	354	IAML		2 3	28.32			14	0.1				
MESJ	HZ	198	7	EP		2 3	20.310	.120							1.0

November 22 2015 Hour: 6:39 34.7 Lat: 37.56N Lon: 8.46W Depth: 19F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

SE ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	33	211	ES		639	44.98	-.100							1.0
MORF	HN	33	211	IAML		639	45.62			7	0.2				
MESJ	HZ	38	34	EP		639	41.510	.210							1.0
MESJ	HN	38	34	ES		639	46.04	-.110							1.0
MESJ	HN	38	34	IAML		639	46.56			4	0.1				

November 22 2015 Hour: 10:39 28.7 Lat: 42.82N Lon: 7.28W Depth: 1F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	559	189	EP		1040	43.07	-.030							1.0

November 22 2015 Hour: 13: 2 59.6 Lat: 37.29N Lon: 8.57W Depth: 13F Agency: IGL Regional  
Magnitudes: 1.0ML 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	7	284	EP		13	3	2.06	-.010						1.0
MORF	HE	7	284	ES		13	3	3.900	.010						1.0
MORF	HN	7	284	IAML		13	3	4.35		55	0.1				

November 22 2015 Hour: 18:16 4.6 Lat: 36.49N Lon: 71.46E Depth: 92F Agency: IGL Distant  
Magnitudes: 5.2Ms IGL Rms: 0.1 secs

HINDU KUSH REGION, AFGHANISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6847	298	EP		1826	12.45	0.10							1.0
MESJ	BE	6847	298	ES		1834	27.84	0.02							1.0
MESJ	BN	6847	298	IAMs_20		1843	23.51			779	11.4				
GGNV	BN	6878	299	ES		1834	31.18	-0.10							1.0
MORF	BZ	6907	297	EP		1826	16.07	0.03							1.0
MORF	BE	6907	297	ES		1834	34.69	-0.05							1.0
MORF	BZ	6907	297	IAMs_20		1858	8.02			1113	11.3				

November 22 2015 Hour: 22:39 26.8 Lat: 38.38N Lon: 8.22W Depth: 2F Agency: IGL Regional  
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NW VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	60	180	EP		2239	36.480	.020							1.0
MESJ	HE	60	180	ES		2239	43.50	-.020							1.0
MESJ	HE	60	180	IAML		2239	44.72			2	0.1				

November 23 2015 Hour: 8: 2 11.3 Lat: 36.79N Lon: 3.18W Depth: 3F Agency: IGL Regional  
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	461	286	EP		8	3	13.59	-.010						1.0

November 23 2015 Hour: 11:34 14.6 Lat: 37.16N Lon: 8.75W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NW LAGOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	19	28	EP		1134	17.39	-.190							1.0
MORF	HN	19	28	ES		1134	19.810	.060							1.0
MORF	HN	19	28	IAML		1134	20.54			47	0.1				
MESJ	HZ	89	32	EP		1134	29.090	.170							1.0
MESJ	HN	89	32	ES		1134	39.34	-.030							1.0
MESJ	HN	89	32	IAML		1134	41.76			7	0.2				

November 23 2015 Hour: 17:38 17.5 Lat: 36.58N Lon: 7.92W Depth: 5F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	104	321	EP		1738	34.13	-.110							1.0
MORF	HE	104	321	ES		1738	46.560	.110							1.0
MORF	HE	104	321	IAML		1738	48.03			3	0.1				

November 24 2015 Hour: 11:53 57.5 Lat: 37.31N Lon: 8.58W Depth: 13F Agency: IGL Regional  
Magnitudes: 0.2ML 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	266	EP		1153	59.860	.000							1.0
MORF	HN	6	266	ES		1154	1.61	-.000							1.0
MORF	HN	6	266	IAML		1154	2.01			10	0.1				

November 24 2015 Hour: 12: 7 51.5 Lat: 36.64N Lon: 9.74W Depth: 15F 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	122	52	EP		12 8	10.64	-.060							1.0
MORF	HE	122	52	ES		12 8	24.67	-.010							1.0
MORF	HN	122	52	IAML		12 8	25.91			37	0.2				
MESJ	HZ	190	45	EP		12 8	19.080	.030							1.0
MESJ	HN	190	45	ES		12 8	39.180	.040							1.0
MESJ	HN	190	45	IAML		12 8	42.48			11	0.1				

November 24 2015 Hour: 13:21 35.9 Lat: 18.79N Lon: 145.31E Depth: 586F Agency: IGL Distant  
 Rms: 0.0 secs

PAGAN REGION, NORTHERN MARIANA ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13178	336	EP	KPdf		1339	17.380	.000							1.0
MORF	BZ13248	336	EP	KPdf		1339	18.64	-.000							1.0

November 24 2015 Hour: 18:15 49.8 Lat: 35.77N Lon: 8.87W Depth: 32F 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	HE	172	7	ES		1816	31.35	-.120							1.0
MORF	HN	172	7	IAML		1816	32.82			11	0.2				
MESJ	HZ	237	14	EP		1816	22.070	.110							1.0
MESJ	HE	237	14	ES		1816	45.460	.020							1.0
MESJ	HE	237	14	IAML		1816	47.21			3	0.1				

November 24 2015 Hour: 20:45 2.4 Lat: 0.16S Lon: 17.85W Depth: 10F Agency: IGL Distant  
 Magnitudes: 5.1Ms IGL Rms: 0.1 secs

NORTH OF ASCENSION ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4257	12	EP		2052	22.80	-.070							1.0
MORF	BZ	4257	12	EPP		2053	50.130	.090							1.0
MORF	BN	4257	12	ES		2058	17.82	-.050							1.0
MORF	BZ	4257	12	IAMs_20		21 5	43.15			2188	17.7				
MESJ	BZ	4324	12	EP		2052	27.84	-.050							1.0
MESJ	BZ	4324	12	EPP		2053	56.52	-.090							1.0
MESJ	BE	4324	12	ES		2058	26.930	.040							1.0
MESJ	BZ	4324	12	IAMs_20		21 5	25.85			2438	25.0				
GGNV	BZ	4398	11	EPP		2054	4.000	.170							0.9
GGNV	BN	4398	11	ES		2058	36.78	-.020							1.0
GGNV	BE	4398	11	IAMs_20		21 7	50.94			4616	20.3				

November 24 2015 Hour: 22:45 39.3 Lat: 10.55S Lon: 70.90W Depth: 601F Agency: IGL Distant  
 Magnitudes: 6.7Mb IGL Rms: 0.1 secs

PERU-BRAZIL BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8371	47	EP		2256	22.020	.190							1.0
MORF	BZ	8371	47	IAMB		2256	30.12			5824	1.2				
MORF	BE	8371	47	ES		23 5	13.50	-.140							1.0
GGNV	BZ	8401	45	EP		2256	23.360	.130							1.0
GGNV	BZ	8401	45	IAMB		2256	30.51			1669	1.0				
GGNV	BE	8401	45	ES		23 5	16.31	-.050							1.0
MESJ	BZ	8431	47	EP		2256	24.780	.020							1.0
MESJ	BZ	8431	47	IAMB		2256	32.16			1724	1.2				
MESJ	BE	8431	47	ES		23 5	19.15	-.160							1.0

November 24 2015 Hour: 22:50 54.5 Lat: 10.05S Lon: 71.02W Depth:612F Agency: IGL Distant  
Magnitudes: 6.9Mb IGL Rms: 0.1 secs

PERU-BRAZIL BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8343	47	EP		23	1	34.59	-0.08						1.0
MORF	BZ	8343	47	I Amb		23	1	37.22		8723	1.1				
MORF	BE	8343	47	ES		2310	24.51	0.06							1.0
GGNV	BZ	8372	46	EP		23	1	36.07	0.06						1.0
GGNV	BZ	8372	46	I Amb		23	1	45.38		4860	1.1				
GGNV	BE	8372	46	ES		2310	27.15	0.10							1.0
MESJ	BZ	8403	47	EP		23	1	37.51	-0.08						1.0
MESJ	BZ	8403	47	I Amb		23	1	39.46		2390	1.1				
MESJ	BE	8403	47	ES		2310	30.03	-0.07							1.0

November 25 2015 Hour: 0:28 17.5 Lat: 11.03S Lon: 70.92W Depth:600F Agency: IGL Distant  
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

PERU-BRAZIL BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8409	47	EP		039	1.96	-.040							1.0
MORF	BZ	8409	47	I Amb		039	3.46			32	0.9				
MESJ	BZ	8469	46	EP		039	4.96	0.040							1.0
MESJ	BZ	8469	46	I Amb		039	5.67			18	1.0				

November 26 2015 Hour: 5:45 18.6 Lat: 9.19S Lon: 71.29W Depth:599F Agency: IGL Distant  
Magnitudes: 6.2Mb IGL Rms: 0.0 secs

PERU-BRAZIL BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8300	47	EP		555	57.69	0.030							1.0
MORF	BZ	8300	47	I Amb		556	0.41			1589	1.2				
MORF	BE	8300	47	ES		6	4	46.30	0.030						1.0
GGNV	BZ	8326	46	EP		555	58.87	-.020							1.0
GGNV	BZ	8326	46	I Amb		556	0.67			728	1.0				
GGNV	BE	8326	46	ES		6	4	48.73	0.060						1.0
MESJ	BZ	8359	47	EP		556	0.49	-.080							1.0
MESJ	BZ	8359	47	I Amb		556	2.49			575	1.2				
MESJ	BE	8359	47	ES		6	4	51.89	-.010						1.0

November 26 2015 Hour: 6:14 30.9 Lat: 37.32N Lon: 8.57W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		7	258	EP		614	33.06	-.050						1.0
MORF	HE		7	258	ES		614	34.78	0.050						1.0
MORF	HN		7	258	I AML		614	35.24		19	0.1				

November 26 2015 Hour: 16:25 14.1 Lat: 36.98N Lon: 10.79W Depth: 10F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	193	79	EP		1625	42.58	-.030							1.0
MORF	HE	193	79	ES		1626	3.39	-.020							1.0
MORF	HN	193	79	I AML		1626	4.57			13	0.1				
MESJ	HZ	247	66	EP		1625	49.24	0.050							1.0

November 27 2015 Hour: 0:52 56.2 Lat: 9.34S Lon: 71.15W Depth:626F Agency: IGL Distant  
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

PERU-BRAZIL BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8300	47	EP		1	3	33.02	-.010						1.0
MORF	BZ	8300	47	I Amb		1	3	33.30		58	0.9				
MESJ	BZ	8360	47	EP		1	3	35.95	0.010						1.0
MESJ	BZ	8360	47	I Amb		1	3	36.45		16	0.6				

**November 27 2015 Hour: 8:33 58.6 Lat: 22.50N Lon: 94.82E Depth: 22F Agency: IGL Distant**  
**Magnitudes: 5.6Mb 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 9586 309 EP 846 38.28-.030 1.0  
 MESJ BZ 9586 309 IAMB 846 39.77 52 1.3

**November 27 2015 Hour: 21:0 22.7 Lat: 24.82S Lon: 70.63W Depth: 35F Agency: IGL Distant**  
**Magnitudes: 6.2Ms IGL Rms: 0.1 secs**  
**ANTOFAGASTA, CHILE Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ 9448 45 EP 2112 54.10-.120 1.0  
 MORF BZ 9448 45 EPP 2116 10.66-.070 1.0  
 MORF BE 9448 45 ESKSac 2123 15.020.120 1.0  
 MORF BZ 9448 45 IAMS\_20 2145 42.38 12749 29.0  
 GGNV BZ 9506 44 EP 2112 56.760.040 1.0  
 GGNV BE 9506 44 ESKSac 2123 18.140.050 1.0  
 GGNV BE 9506 44 IAMS\_20 2144 10.38 13657 33.0  
 MESJ BZ 9514 45 EP 2112 57.05-.060 1.0  
 MESJ BE 9514 45 ESKSac 2123 18.620.040 1.0  
 MESJ BZ 9514 45 IAMS\_20 2145 47.72 10601 22.3

**November 28 2015 Hour: 2:51 5.8 Lat: 43.34N Lon: 146.48E Depth: 60F Agency: IGL Distant**  
**Magnitudes: 6.0Mb IGL Rms: 0.1 secs**  
**KURIL ISLANDS Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ10670 340 EP 3 4 25.89-.070 1.0  
 MESJ BZ10670 340 IAMB 3 4 27.33 56 1.3  
 MORF BZ10738 340 EP 3 4 28.860.070 1.0  
 MORF BZ10738 340 IAMB 3 4 30.73 46 0.9

**November 28 2015 Hour: 5:44 40.9 Lat: 30.34S Lon: 72.06W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.6Ms IGL Rms: 0.1 secs**  
**OFFSHORE COQUIMBO, CHILE Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ 9977 45 EP 557 39.260.050 1.0  
 MORF BE 9977 45 ESKSac 6 8 9.430.080 1.0  
 MORF BZ 9977 45 IAMS\_20 638 42.42 1913 18.3  
 GGNV BZ10042 44 EP 557 41.83-.020 1.0  
 GGNV BN10042 44 IAMS\_20 643 19.72 5235 41.0  
 MESJ BZ10043 45 EP 557 41.91-.040 1.0  
 MESJ BE10043 45 ESKSac 6 8 12.71-.080 1.0  
 MESJ BE10043 45 IAMS\_20 637 33.06 1661 18.4

**November 28 2015 Hour: 10:44 59.5 Lat: 36.26N Lon: 6.22W Depth: 0 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  
 MESJ HZ 250 315 EP 1045 35.84-.110 1.0  
 MESJ HN 250 315 ES 1046 2.690.110 1.0  
 MESJ HE 250 315 IAML 1046 4.27 8 0.5

**November 28 2015 Hour: 16:9 12.6 Lat: 35.74N Lon: 4.77W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 2.7ML 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  
 MESJ HZ 386 308 EP 1610 5.03-.010 1.0  
 MESJ HE 386 308 ES 1610 43.430.140 1.0  
 MESJ HN 386 308 IAML 1610 45.88 18 0.3  
 MORF HZ 389 298 EP 1610 5.27-.110 1.0  
 MORF HE 389 298 ES 1610 43.86-.020 1.0  
 MORF HN 389 298 IAML 1610 45.61 29 0.3

November 29 2015 Hour: 6:0 54.8 Lat: 36.84N Lon: 5.45W Depth: 14F 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	270	295	EP		6 1	32.32	-.060							1.0
MORF	HZ	290	281	EP		6 1	34.940	.060							1.0

November 29 2015 Hour: 6:18 46.2 Lat: 37.33N Lon: 8.71W Depth: 17F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

**NE ALJEZUR, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	117	EP		618	48.99	-.170							1.0
MORF	HE	6	117	ES		618	51.330	.030							1.0
MORF	HN	6	117	IAML		618	51.65		112	0.2					
MESJ	HZ	71	37	EP		618	57.820	.080							1.0
MESJ	HN	71	37	ES		619	6.230	.080							1.0
MESJ	HN	71	37	IAML		619	6.83		7	0.1					

November 29 2015 Hour: 6:25 32.2 Lat: 41.62N Lon: 8.41W Depth: 15F Agency: IGL Regional  
Rms: 0.0 secs

**SE VILA VERDE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	420	178	EP		626	28.24	-.040							1.0

November 29 2015 Hour: 8:39 4.5 Lat: 37.22N Lon: 8.45W Depth: 17F Agency: IGL Regional  
Magnitudes: 0.4ML IGL Rms: 0.1 secs

**N SILVES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	20	298	EP		839	8.60	-.160							1.0
MORF	HN	20	298	ES		839	11.950	.090							1.0
MORF	HN	20	298	IAML		839	12.95		7	0.1					
MESJ	HZ	72	16	EP		839	16.180	.070							1.0

November 29 2015 Hour: 18:52 49.6 Lat: 23.54S Lon: 64.61W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.8Ms IGL Rms: 0.0 secs

**JUJUY, ARGENTINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8924	42	EP		19 5	0.440	.000							1.0
MORF	BN	8924	42	ES		1915	6.30	-.010							1.0
MORF	BZ	8924	42	IAMs_20		1940	45.21		4732	17.1					
MESJ	BZ	8991	42	EP		19 5	3.630	.020							1.0
MESJ	BN	8991	42	ES		1915	12.49	-.010							1.0
MESJ	BZ	8991	42	IAMs_20		1940	52.51		4321	23.3					

December 1 2015 Hour: 2:25 17.8 Lat: 36.18N Lon: 3.44W Depth: 1 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	463	295	EP		226	20.640	.070							1.0
MORF	HZ	482	287	EP		226	22.74	-.070							1.0

December 1 2015 Hour: 4:3 47.9 Lat: 36.15N Lon: 3.47W Depth: 0 Agency: IGL Regional  
Rms: 0.0 secs

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	463	295	EP		4 4	50.700	.000							1.0

**December 1 2015 Hour: 5:36 49.8 Lat: 36.15N Lon: 3.48W Depth: 0 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	461	295	EP		537	52.41	-.030							1.0
MESJ	HE	461	295	ES		538	38.200	.000							1.0
MESJ	HN	461	295	IAML		538	39.43			2	0.3				
MORF	HZ	479	287	EP		537	54.650	.030							1.0

**December 1 2015 Hour: 10:52 13.4 Lat: 36.77N Lon: 7.24W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	139	296	EP		1052	33.94	-.080							1.0
MORF	HN	139	296	ES		1052	49.180	.080							1.0
MORF	HN	139	296	IAML		1052	50.13			64	0.2				
MESJ	HZ	147	324	EP		1052	34.98	-.020							1.0
MESJ	HE	147	324	ES		1052	50.820	.020							1.0
MESJ	HE	147	324	IAML		1052	51.77			12	0.1				

**December 1 2015 Hour: 11:10 3.4 Lat: 36.98N Lon: 11.86W Depth: 32F Agency: IGL Regional**  
**Magnitudes: 2.7ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	287	82	EP		1110	41.82	-.040							1.0
MORF	HN	287	82	ES		1111	9.90	-.050							1.0
MORF	HE	287	82	IAML		1111	11.87			57	0.2				
MESJ	HZ	336	72	EP		1110	47.79	-.080							1.0
MESJ	HE	336	72	ES		1111	20.520	.170							1.0
MESJ	HE	336	72	IAML		1111	25.55			17	0.1				

**December 1 2015 Hour: 13:39 53.1 Lat: 16.38S Lon: 71.18W Depth: 99F Agency: IGL Distant**  
**Magnitudes: 5.0Mb IGL Rms: 0.0 secs**

**SOUTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8836	46	EP		1351	48.50	-0.01							1.0
MORF	BZ	8836	46	IAMB		1351	53.27			107	2.0				
MESJ	BZ	8898	46	EP		1351	51.50	0.01							1.0
MESJ	BZ	8898	46	IAMB		1351	52.25			9	0.9				

**December 1 2015 Hour: 20:20 12.9 Lat: 6.98S Lon: 155.55E Depth: 55F 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
MORF	BZ16315	337	EPKP			2039	45.990	.000							1.0

**December 2 2015 Hour: 4:3 52.3 Lat: 36.52N Lon: 11.10W Depth: 12F 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	235	67	EP		4 4	25.72	-.080							1.0
MORF	HN	235	67	ES		4 4	50.250	.030							1.0
MORF	HN	235	67	IAML		4 4	53.89			2	0.1				
MESJ	HZ	295	59	EP		4 4	33.230	.060							1.0

**December 2 2015 Hour: 10:8 29.7 Lat: 6.27S Lon: 154.67E Depth: 63F Agency: IGL Distant**  
**Rms: 0.1 secs**

**BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16134	336	EPKP			1027	58.78	-.070							1.0
MORF	BZ16204	336	EPKP			1028	0.220	.070							1.0



**December 2 2015 Hour: 17:24 52.7 Lat: 37.10N Lon: 8.40W Depth: 29F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**

**SE LAGOA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	32	316	EP		1724	59.31	-.040							1.0
MORF	HE	32	316	ES		1725	4.260	.040							1.0
MORF	HN	32	316	IAML		1725	4.83		7	0.1					
MESJ	HN	84	11	ES		1725	15.640	.010							1.0
MESJ	HN	84	11	IAML		1725	17.41		1	0.1					

**December 2 2015 Hour: 17:25 14.4 Lat: 37.11N Lon: 8.39W Depth: 28F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**

**SE LAGOA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	32	313	EP		1725	20.85	-.100							1.0
MORF	HE	32	313	ES		1725	25.820	.080							1.0
MORF	HN	32	313	IAML		1725	26.40		24	0.1					
MESJ	HZ	82	10	EP		1725	27.560	.010							1.0
MESJ	HE	82	10	ES		1725	37.180	.010							1.0
MESJ	HE	82	10	IAML		1725	38.06		3	0.2					

**December 2 2015 Hour: 23:27 8.5 Lat: 39.27N Lon: 40.22E Depth: 5F Agency: IGL Distant**  
**Magnitudes: 5.4Mb IGL Rms: 0.1 secs**

**EASTERN TURKEY Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4175	284	EP		2334	23.600	.000							1.0
MESJ	BZ	4175	284	IAMB		2334	28.99		62	1.5					
MESJ	BE	4175	284	ES		2340	14.280	.050							1.0
GGNV	BZ	4223	285	EP		2334	27.15	-.120							1.0
GGNV	BZ	4223	285	IAMB		2334	33.08		307	1.2					
MORF	BZ	4229	283	EP		2334	27.850	.060							1.0
MORF	BZ	4229	283	IAMB		2334	31.26		81	1.5					
MORF	BE	4229	283	ES		2340	21.75	-.000							1.0

**December 4 2015 Hour: 4:18 20.4 Lat: 39.16N Lon: 10.26W Depth: 27F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	231	129	EP		418	52.140	.130							1.0
MESJ	HN	231	129	ES		419	15.140	.030							1.0
MESJ	HN	231	129	IAML		419	17.52		3	0.1					
MORF	HZ	249	145	EP		418	54.21	-.170							1.0

**December 4 2015 Hour: 6:25 4.7 Lat: 37.52N Lon: 7.58W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 0.6ML 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	67	302	EP		625	15.560	.020							1.0
MESJ	HE	67	302	ES		625	23.29	-.130							1.0
MESJ	HN	67	302	IAML		625	24.94		1	0.1					
MORF	HN	98	256	ES		625	31.680	.110							1.0
MORF	HE	98	256	IAML		625	32.72		2	0.1					

**December 4 2015 Hour: 7:42 16.1 Lat: 36.13N Lon: 10.28W Depth: 31F 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	196	48	EP		742	42.490	.010							1.0
MORF	HE	196	48	ES		743	1.67	-.040							1.0
MORF	HE	196	48	IAML		743	3.34		21	0.2					
MESJ	HZ	264	43	EP		742	50.86	-.080							1.0
MESJ	HN	264	43	ES		743	16.460	.120							1.0
MESJ	HE	264	43	IAML		743	18.11		7	0.1					

**December 4 2015 Hour: 12:56 52.3 Lat: 37.02N Lon: 8.39W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**

**SE LAGOA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	39	324	EP		1256	58.35	-.250							1.0
MORF	HN	39	324	ES		1257	3.22	-.010							1.0
MORF	HN	39	324	IAML		1257	4.81			23	0.1				
MESJ	HZ	92	9	EP		1257	7.270	.140							1.0
MESJ	HE	92	9	ES		1257	18.110	.130							1.0
MESJ	HN	92	9	IAML		1257	20.26			12	0.1				

**December 4 2015 Hour: 18:19 12.1 Lat: 37.26N Lon: 14.29W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	500	88	EP		1820	18.11	-.090							1.0
MORF	HN	500	88	ES		1821	6.34	-.120							1.0
MORF	HN	500	88	IAML		1821	9.68			5	0.2				
MESJ	HZ	540	81	EP		1820	23.080	.060							1.0
MESJ	HE	540	81	ES		1821	14.960	.160							1.0
MESJ	HN	540	81	IAML		1821	19.79			8	0.2				

**December 4 2015 Hour: 19:56 33.5 Lat: 38.08N Lon: 8.56W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.1 secs**

**S GRANDOLA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	40	132	EP		1956	39.90	-.120							1.0
MESJ	HE	40	132	ES		1956	44.880	.070							1.0
MESJ	HE	40	132	IAML		1956	45.21			7	0.1				
MORF	HZ	86	185	EP		1956	47.40	-.010							1.0
MORF	HN	86	185	ES		1956	57.670	.060							1.0
MORF	HN	86	185	IAML		1957	0.75			4	0.1				

**December 4 2015 Hour: 22:24 55.5 Lat: 47.64S Lon: 85.09E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 7.0Ms IGL Rms: 0.1 secs**

**SOUTHEAST INDIAN RIDGE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ13186	295	EPKp $\bar{d}$ f			2243	43.62	-.000							1.0
MORF	BZ13186	295	EPP			2245	1.28	-.070							1.0
MORF	BZ13186	295	IAMs_20			2322	43.98		104000	56.9					
MESJ	BZ13195	296	EPKp $\bar{d}$ f			2243	43.820	.110							1.0
MESJ	BZ13195	296	EPP			2245	1.75	-.080							1.0
MESJ	BZ13195	296	IAMs_20			2322	18.76		69334	47.9					
GGNV	BZ13319	296	EPP			2245	9.580	.050							1.0
GGNV	BZ13319	296	IAMs_20			2323	41.47		89259	57.0					

**December 4 2015 Hour: 23:21 12.7 Lat: 37.36N Lon: 8.53W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	60	27	EP		2321	22.710	.020							1.0
MESJ	HE	60	27	ES		2321	29.98	-.020							1.0
MESJ	HN	60	27	IAML		2321	31.09			3	0.1				

**December 4 2015 Hour: 23:46 8.5 Lat: 37.14N Lon: 8.87W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.1 secs**

**NE VILA DO BISPO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	27	46	EP		2346	14.820	.090							1.0
MORF	HN	27	46	ES		2346	19.22	-.050							1.0
MORF	HN	27	46	IAML		2346	20.17			19	0.1				
MESJ	HZ	97	36	EP		2346	23.29	-.040							1.0

**December 5 2015 Hour: 0:12 14.6 Lat: 36.53N Lon: 3.60W Depth: 1F 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	436	291	EP		013	14.170	.090							1.0
MESJ	HE	436	291	ES		013	57.39	-.090							1.0
MESJ	HN	436	291	IAML		013	59.92			2	0.3				

**December 5 2015 Hour: 5:26 18.3 Lat: 37.20N Lon: 8.56W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**NW PORTIMAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	14	326	EP		526	22.19	-.180							1.0
MORF	HN	14	326	ES		526	25.410	.070							1.0
MORF	HN	14	326	IAML		526	26.54			44	0.2				
MESJ	HZ	77	23	EP		526	30.910	.120							1.0
MESJ	HE	77	23	ES		526	39.90	-.010							1.0
MESJ	HN	77	23	IAML		526	41.35			10	0.1				

**December 5 2015 Hour: 8:13 51.0 Lat: 37.32N Lon: 8.61W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.3ML 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	4	247	EP		813	52.85	-.150							1.0
MORF	HN	4	247	ES		813	54.470	.030							1.0
MORF	HE	4	247	IAML		813	54.55			163	0.1				
MESJ	HZ	67	31	EP		814	2.060	.120							1.0

**December 5 2015 Hour: 19:55 41.5 Lat: 37.30N Lon: 8.59W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 0.4ML IGL Rms: 0.1 secs**

**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	277	EP		1955	42.92	-.190							1.0
MORF	HE	5	277	ES		1955	44.470	.170							1.0
MORF	HE	5	277	IAML		1955	45.14			41	0.2				
MESJ	HZ	68	29	EP		1955	52.560	.010							1.0
MESJ	HN	68	29	ES		1956	0.660	.010							1.0
MESJ	HN	68	29	IAML		1956	2.90			1	0.1				

**December 5 2015 Hour: 21:58 0.0 Lat: 37.43N Lon: 7.97W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**

**SE ALMODOVAR, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	51	334	EP		2158	8.310	.120							1.0
MESJ	HN	51	334	ES		2158	14.03	-.110							1.0
MESJ	HN	51	334	IAML		2158	15.87			46	0.1				
MORF	HZ	62	257	EP		2158	9.96	-.060							1.0
MORF	HN	62	257	ES		2158	17.350	.050							1.0
MORF	HN	62	257	IAML		2158	20.40			37	0.1				

**December 5 2015 Hour: 22:41 18.9 Lat: 36.32N Lon: 8.75W Depth: 3F 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	110	5	EP		2241	36.59	-.010							1.0
MORF	HE	110	5	ES		2241	49.540	.010							1.0
MORF	HN	110	5	IAML		2241	52.79			5	0.2				

**December 5 2015 Hour: 22:59 34.7 Lat: 43.89N Lon: 85.24E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.1ML IGL Rms: 0.0 secs**

**NORTHERN XINJIANG, CHINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7469	301	EP		2310	29.07	-.000							1.0
MESJ	BZ	7469	301	IAMB		2310	29.96			16	1.1				

**December 6 2015 Hour: 0:23 37.5 Lat: 36.63N Lon: 11.08W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 1.6ML 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	229	70	EP		024	10.570	.000							1.0
MORF	HE	229	70	ES		024	34.61	-.130							1.0
MORF	HN	229	70	IAML		024	37.05			6	0.2				
MESJ	HN	287	61	ES		024	47.320	.140							1.0
MESJ	HN	287	61	IAML		024	50.24			2	0.2				

**December 6 2015 Hour: 2:0 31.3 Lat: 39.28N Lon: 10.30W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.4ML 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	242	131	EP		2 1	3.30	-.030							1.0
MESJ	HE	242	131	ES		2 1	26.940	.220							1.0
MESJ	HN	242	131	IAML		2 1	28.89			2	0.2				
MORF	HZ	262	146	EP		2 1	5.72	-.200							1.0

**December 6 2015 Hour: 22:17 43.0 Lat: 35.09N Lon: 5.90W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 3.1ML IGL Rms: 0.1 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	349	316	EP		2218	28.98	-.170							1.0
MORF	HN	349	316	ES		2219	2.73	-.130							1.0
MORF	HN	349	316	IAML		2219	6.25			68	0.2				
MESJ	HZ	369	326	EP		2218	31.810	.160							1.0
MESJ	HN	369	326	ES		2219	7.330	.140							1.0
MESJ	HN	369	326	IAML		2219	9.75			56	0.2				

**December 7 2015 Hour: 7:50 8.4 Lat: 38.26N Lon: 72.72E Depth: 29F Agency: IGL Distant**  
**Magnitudes: 7.6Ms IGL Rms: 0.1 secs**

**TAJIKISTAN Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6854	297	EP		8 0	23.540	.010							1.0
MESJ	BN	6854	297	ES		8 8	44.800	.060							1.0
MESJ	BN	6854	297	IAMs_20		827	14.05			439000	18.5				
GGNV	BZ	6880	299	EP		8 0	25.01	-.060							1.0
GGNV	BN	6880	299	ES		8 8	47.63	-.010							1.0
GGNV	BN	6880	299	IAMs_20		820	10.68			753000	46.0				
MORF	BZ	6915	297	EP		8 0	27.20	-.120							1.0
MORF	BN	6915	297	ES		8 8	51.960	.120							1.0
MORF	BN	6915	297	IAMs_20		827	40.47			421000	21.1				

**December 8 2015 Hour: 2:12 59.2 Lat: 37.26N Lon: 9.07W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.0 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	38	82	EP		213	6.680	.080							1.0
MORF	HN	38	82	ES		213	11.98	-.020							1.0
MORF	HN	38	82	IAML		213	12.78			21	0.2				
MESJ	HZ	99	49	EP		213	14.25	-.050							1.0
MESJ	HN	99	49	ES		213	25.30	-.020							1.0
MESJ	HN	99	49	IAML		213	26.94			2	0.1				

December 8 2015 Hour: 8:32 20.9 Lat: 37.32N Lon: 8.51W Depth: 12F 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	13	263	EP		832	23.64	-.140							1.0
MORF	HN	13	263	ES		832	25.91	0.040							1.0
MORF	HN	13	263	IAML		832	26.47			80	0.3				
MESJ	HZ	63	24	EP		832	31.26	0.110							1.0

December 8 2015 Hour: 10:53 51.5 Lat: 37.59N Lon: 7.98W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE ALMODOVAR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	35	323	EP		1053	57.03	-.060							1.0
MESJ	HN	35	323	ES		1054	1.26	0.060							1.0
MESJ	HN	35	323	IAML		1054	1.83			7	0.2				

December 8 2015 Hour: 10:56 57.0 Lat: 36.39N Lon: 4.47W Depth: 70F Agency: IGL Regional  
Magnitudes: 1.9ML 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
MESJ	HZ	370	297	EP		1057	45.41	0.040							1.0
MESJ	HN	370	297	ES		1058	20.60	-.060							1.0
MESJ	HN	370	297	IAML		1058	23.09			3	0.2				
MORF	HN	386	287	ES		1058	24.16	0.020							1.0
MORF	HN	386	287	IAML		1058	25.13			3	0.1				

December 8 2015 Hour: 12:56 7.9 Lat: 30.79S Lon: 71.74W Depth: 30F Agency: IGL Distant  
Magnitudes: 5.5Ms IGL Rms: 0.0 secs

OFFSHORE COQUIMBO, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9989	45	EP		13	9	3.54	-.040						1.0
MORF	BZ	9989	45	IAMs_20		1348	16.82			1882	16.7				
MESJ	BZ10056	45	EP		13	9	6.36	0.040							1.0
MESJ	BZ10056	45	IAMs_20		1348	5.96				1731	21.1				

December 8 2015 Hour: 23:51 31.8 Lat: 35.30N Lon: 3.62W Depth: 22F Agency: IGL Regional  
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	499	306	EP		2352	36.90	0.010							1.0

December 9 2015 Hour: 10:21 51.4 Lat: 4.12S Lon: 129.48E Depth: 34F Agency: IGL Distant  
Magnitudes: 6.9Ms IGL Rms: 0.2 secs

BANDA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14347	317	EPKp $\bar{d}$ f		1040	55.13	0.080								1.0
MESJ	BZ14347	317	EPP		1043	2.26	-.130								1.0
MESJ	BZ14347	317	IAMs_20		1148	34.67				19941	17.5				
GGNV	BZ14366	318	EPKp $\bar{d}$ f		1040	55.29	-.060								1.0
GGNV	BZ14366	318	EPP		1043	3.50	0.000								1.0
GGNV	BZ14366	318	IAMs_20		1145	45.71				37712	30.7				
MORF	BZ14409	316	EPKp $\bar{d}$ f		1040	56.51	0.340								0.9
MORF	BZ14409	316	EPP		1043	5.95	-.190								1.0
MORF	BZ14409	316	IAMs_20		1145	26.33				23763	22.4				

December 9 2015 Hour: 16:41 0.0 Lat: 35.35N Lon: 3.62W Depth: 20F 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	496	305	EP		1642	4.76	-.110							1.0
MESJ	HE	496	305	ES		1642	52.19	-.020							1.0
MESJ	HN	496	305	IAML		1642	58.75			6	0.5				

MORF HZ 501 297 EP 1642 5.690.130 1.0

**December 11 2015 Hour: 7:20 57.7 Lat: 35.76N Lon: 4.71W Depth: 20F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	389	307	EP		721	49.520	.000							1.0
MESJ	HN	389	307	ES		722	27.33-	.030							1.0
MESJ	HN	389	307	IAML		722	29.48		4	0.2					1.0
MORF	HN	392	297	ES		722	28.180	.030							1.0
MORF	HN	392	297	IAML		722	29.26		10	0.1					

**December 11 2015 Hour: 8:28 29.7 Lat: 37.23N Lon: 8.53W Depth: 20F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.0 secs**

**NW SILVES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	14	308	EP		828	33.580	.030							1.0
MORF	HN	14	308	ES		828	36.390	.000							1.0
MORF	HN	14	308	IAML		828	37.25		17	0.0					
MESJ	HZ	73	22	EP		828	41.51-	.000							1.0
MESJ	HN	73	22	ES		828	50.13-	.040							1.0
MESJ	HN	73	22	IAML		828	51.44		5	0.1					

**December 11 2015 Hour: 8:35 14.3 Lat: 37.67N Lon: 8.36W Depth: 1F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs**

**W OURIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	23	33	EP		835	17.85-	.060							1.0
MESJ	HN	23	33	ES		835	20.650	.080							1.0
MESJ	HN	23	33	IAML		835	21.08		32	0.1					
MORF	HZ	48	213	EP		835	21.98-	.020							1.0

**December 11 2015 Hour: 16:38 50.5 Lat: 36.62N Lon: 9.62W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	115	48	EP		1639	8.700	.020							1.0
MESJ	HZ	184	42	EP		1639	17.21-	.030							1.0
MESJ	HN	184	42	ES		1639	36.740	.010							1.0
MESJ	HN	184	42	IAML		1639	38.46		1	0.1					

**December 12 2015 Hour: 2:21 4.3 Lat: 36.62N Lon: 11.39W Depth: 32F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	312	63	EP		221	45.870	.060							1.0
MESJ	HE	312	63	ES		222	16.06-	.060							1.0
MESJ	HE	312	63	IAML		222	17.83		0.50	0.0					

**December 12 2015 Hour: 7:52 20.2 Lat: 37.03N Lon: 5.34W Depth: 5F Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.0 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	271	290	EP		752	58.77-	.010							1.0
MORF	HN	296	277	ES		753	32.460	.010							1.0
MORF	HN	296	277	IAML		753	33.81		27	0.2					

**December 12 2015 Hour: 8:34 46.9 Lat: 37.80N Lon: 21.13E Depth: 1F Agency: IGL Distant  
Magnitudes: 4.5Mb IGL Rms: 0.0 secs**

**SOUTHERN GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2574	279	EP		839	54.710	.010							1.0
MESJ	BZ	2574	279	IAMB		839	55.87		18	1.1					

December 12 2015 Hour: 9: 6 19.6 Lat: 36.30N Lon: 8.56W Depth: 5F Agency: IGL Regional  
Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	356	EP		9 6	37.680	.060							1.0

December 12 2015 Hour: 15:24 6.2 Lat: 37.05N Lon: 10.56W Depth: 21F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	172	80	EP		1524	30.92	-.100							1.0
MORF	HN	172	80	ES		1524	49.220	.070							1.0
MORF	HN	172	80	IAML		1524	50.22			12	0.1				
MESJ	HN	225	66	ES		1525	0.490	.020							1.0
MESJ	HE	225	66	IAML		1525	2.42			3	0.0				

December 12 2015 Hour: 17: 6 2.9 Lat: 37.25N Lon: 13.26W Depth: 6F Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	409	88	EP		17 6	58.56	-.020							1.0
MORF	HE	409	88	ES		17 7	39.14	-.070							1.0
MORF	HN	409	88	IAML		17 7	42.37			15	0.3				
MESJ	HZ	450	80	EP		17 7	3.700	.100							1.0

December 12 2015 Hour: 22:55 59.0 Lat: 36.97N Lon: 8.84W Depth: 30F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	41	24	EP		2256	6.75	-.060							1.0
MORF	HN	41	24	ES		2256	12.570	.060							1.0
MORF	HN	41	24	IAML		2256	13.12			5	0.1				

December 13 2015 Hour: 8:17 45.5 Lat: 36.95N Lon: 8.80W Depth: 27F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	18	EP		817	53.330	.080							1.0
MORF	HN	42	18	ES		817	58.78	-.080							1.0
MORF	HN	42	18	IAML		818	0.38			4	0.2				

December 13 2015 Hour: 8:40 48.3 Lat: 36.64N Lon: 9.70W Depth: 22F 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	HE	119	51	ES		841	19.78	-.010							1.0
MORF	HN	119	51	IAML		841	20.89			4	0.1				
MESJ	HZ	187	44	EP		841	14.90	-.010							1.0
MESJ	HE	187	44	ES		841	34.340	.020							1.0
MESJ	HE	187	44	IAML		841	35.17			0.90	0.1				

December 13 2015 Hour: 9:31 17.2 Lat: 37.20N Lon: 13.12W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	396	87	EP		932	11.840	.060							1.0
MORF	HE	396	87	ES		932	51.56	-.060							1.0
MORF	HN	396	87	IAML		932	54.18			8	0.2				
MESJ	HZ	439	79	EP		932	17.030	.060							1.0
MESJ	HN	439	79	ES		933	0.55	-.060							1.0
MESJ	HN	439	79	IAML		933	3.71			1	0.1				

**December 13 2015 Hour: 21:55 52.8 Lat: 36.76N Lon: 9.69W Depth: 14F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	111	56	EP		2156	10.250	.050							1.0
MORF	HN	111	56	ES		2156	23.080	.140							1.0
MORF	HE	111	56	IAML		2156	25.85		11	0.1					
MESJ	HZ	177	47	EP		2156	18.64	-.160							1.0
MESJ	HN	177	47	ES		2156	37.78	-.040							1.0
MESJ	HN	177	47	IAML		2156	39.30		5	0.3					

**December 14 2015 Hour: 1:58 56.7 Lat: 36.71N Lon: 9.73W Depth: 27F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	55	EP		159	14.290	.010							1.0
MORF	HN	117	55	ES		159	27.06	-.020							1.0
MORF	HE	117	55	IAML		159	27.56		8	0.1					
MESJ	HZ	183	46	EP		159	22.47	-.070							1.0
MESJ	HN	183	46	ES		159	41.450	.080							1.0
MESJ	HN	183	46	IAML		159	42.75		2	0.1					

**December 14 2015 Hour: 13:26 25.3 Lat: 32.32N Lon: 7.84W Depth: 6F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.0 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	613	357	EP		1327	45.75	-.010							1.0
MESJ	HE	613	357	ES		1328	44.510	.010							1.0
MESJ	HN	613	357	IAML		1328	48.83		2	0.1					

**December 15 2015 Hour: 9:48 38.5 Lat: 36.76N Lon: 8.88W Depth: 28F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	64	19	EP		948	49.250	.090							1.0
MORF	HE	64	19	ES		948	56.84	-.140							1.0
MORF	HN	64	19	IAML		948	58.04		110	0.1					
MESJ	HZ	133	26	EP		948	58.040	.080							1.0
MESJ	HE	133	26	ES		949	12.17	-.030							1.0
MESJ	HN	133	26	IAML		949	13.41		16	0.2					

**December 16 2015 Hour: 8:29 50.3 Lat: 37.64N Lon: 8.37W Depth: 16F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.0 secs**

**W OURIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	26	31	EP		829	55.13	-.000							1.0
MESJ	HE	26	31	ES		829	58.670	.000							1.0
MESJ	HE	26	31	IAML		829	59.45		10	0.1					

**December 16 2015 Hour: 9:47 37.7 Lat: 39.50N Lon: 12.74W Depth: 1 Agency: IGL Regional  
Magnitudes: 2.5ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	432	123	EP		948	36.820	.080							1.0
MESJ	HE	435	114	ES		949	20.16	-.080							1.0
MESJ	HN	435	114	IAML		949	25.25		10	0.3					



December 16 2015 Hour: 14:41 52.5 Lat: 36.21N Lon: 1.55W Depth: 1 Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.0 secs

WESTERN MEDITERRANEAN SEA Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	620	289	EP		1443	14.250	.030							1.0
MESJ	HE	620	289	ES		1444	13.89-	.030							1.0
MESJ	HE	620	289	IAML		1444	17.25			7	0.3				

December 17 2015 Hour: 7:55 10.0 Lat: 37.08N Lon: 9.45W Depth: 27F Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	75	70	EP		755	22.19-	.090							1.0
MORF	HN	75	70	ES		755	31.290	.070							1.0
MORF	HN	75	70	IAML		755	32.06			217	0.1				
MESJ	HZ	138	52	EP		755	30.160	.020							1.0

December 17 2015 Hour: 19:49 52.5 Lat: 15.89N Lon: 93.45W Depth: 98F Agency: IGL Distant  
Magnitudes: 6.4Ms IGL Rms: 0.1 secs

CHIAPAS, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8443	53	EP		20	1	28.480	.090						1.0
GGNV	BE	8443	53	ES		2011	3.640	.160							1.0
GGNV	BZ	8443	53	IAMs_20		2027	37.52			28500	23.4				
MORF	BZ	8512	55	EP		20	1	31.93-	.060						1.0
MORF	BE	8512	55	ES		2011	10.24-	.170							1.0
MORF	BZ	8512	55	IAMs_20		2027	12.29			35261	36.3				
MESJ	BZ	8539	54	EP		20	1	33.24-	.080						1.0
MESJ	BE	8539	54	ES		2011	13.070	.060							1.0
MESJ	BZ	8539	54	IAMs_20		2026	33.11			37836	45.5				

December 18 2015 Hour: 8:43 19.2 Lat: 37.02N Lon: 4.32W Depth: 1F Agency: IGL Regional  
Magnitudes: 2.3ML 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	357	286	EP		844	8.86-	.050							1.0
MORF	HN	386	276	ES		844	51.560	.050							1.0
MORF	HN	386	276	IAML		844	55.31			8	0.2				

December 18 2015 Hour: 8:47 42.2 Lat: 37.31N Lon: 8.54W Depth: 6F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.2 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	268	EP		847	43.91-	.240							1.0
MORF	HN	10	268	ES		847	45.680	.140							1.0
MORF	HN	10	268	IAML		847	46.19			175	0.3				
MESJ	HZ	65	26	EP		847	52.920	.110							1.0

December 18 2015 Hour: 18:29 30.4 Lat: 39.58N Lon: 12.22W Depth: 24F Agency: IGL Regional  
Magnitudes: 2.8ML IGL Rms: 0.0 secs

NORTH ATLANTIC OCEAN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	401	128	EP		1830	23.43-	.020							1.0
MORF	HE	401	128	ES		1831	2.210	.020							1.0
MORF	HN	401	128	IAML		1831	6.24			24	0.2				

December 18 2015 Hour: 22:14 10.7 Lat: 17.07S Lon: 178.99W Depth: 541F Agency: IGL Distant  
Rms: 0.1 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17558	20	EPKpdf			2233	4.750	.070							1.0
MORF	BZ17596	21	EPKpdf			2233	5.07-	.070							1.0

**December 19 2015 Hour: 6:9 44.6 Lat: 36.98N Lon: 8.79W Depth: 10F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	108	28	EP		610	1.67	-.020							1.0
MESJ	HN	108	28	ES		610	14.220	.020							1.0
MESJ	HN	108	28	IAML		610	15.78			2	0.2				

**December 19 2015 Hour: 19:25 4.5 Lat: 30.65S Lon: 71.37W Depth: 46F Agency: IGL Distant  
Magnitudes: 6.0Mb IGL Rms: 0.0 secs**

**COQUIMBO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9953	45	EP		1937	56.58	-.030							1.0
MORF	BZ	9953	45	IAMB		1937	57.65			48	0.9				
MESJ	BZ10020	45	EP			1937	59.390	.030							1.0
MESJ	BZ10020	45	IAMB			1938	1.19			192	1.7				

**December 20 2015 Hour: 13:48 36.8 Lat: 36.74N Lon: 9.67W Depth: 19F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	110	55	EP		1348	54.240	.070							1.0
MORF	HN	110	55	ES		1349	6.76	-.090							1.0
MORF	HE	110	55	IAML		1349	9.20			55	0.2				
MESJ	HZ	177	46	EP		1349	2.41	-.040							1.0
MESJ	HE	177	46	ES		1349	21.240	.070							1.0
MESJ	HE	177	46	IAML		1349	21.69			11	0.1				

**December 20 2015 Hour: 23:53 28.0 Lat: 36.64N Lon: 7.11W Depth: 18F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	156	299	EP		2353	51.190	.060							1.0
MORF	HE	156	299	ES		2354	7.98	-.020							1.0
MORF	HN	156	299	IAML		2354	8.93			12	0.1				
MESJ	HZ	166	324	EP		2353	52.400	.090							1.0
MESJ	HN	166	324	ES		2354	9.90	-.130							1.0
MESJ	HE	166	324	IAML		2354	11.88			8	0.1				

**December 21 2015 Hour: 2:17 8.0 Lat: 36.86N Lon: 12.73W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	366	81	EP		217	58.88	-.060							1.0
MORF	HE	366	81	ES		218	35.99	-.120							1.0
MORF	HN	366	81	IAML		218	38.05			7	0.1				
MESJ	HZ	414	73	EP		218	4.940	.050							1.0
MESJ	HN	414	73	ES		218	46.530	.140							1.0
MESJ	HE	414	73	IAML		218	49.39			3	0.2				

**December 21 2015 Hour: 12:38 23.7 Lat: 37.22N Lon: 7.76W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs**

**NE S.BRAS DE ALPORTEL, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	80	277	EP		1238	36.45	-.120							1.0
MORF	HN	80	277	ES		1238	46.080	.120							1.0
MORF	HN	80	277	IAML		1238	48.48			12	0.3				

**December 21 2015 Hour: 16:45 56.9 Lat: 37.31N Lon: 8.48W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 1.1ML 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	269	EP		1646	0.490	.060							1.0
MORF	HE	15	269	ES		1646	2.97-	.060							1.0
MORF	HN	15	269	IAML		1646	3.46			43	0.3				

**December 22 2015 Hour: 20:24 43.7 Lat: 35.55N Lon: 3.82W Depth: 3F Agency: IGL Regional**  
**Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	468	304	EP		2025	46.860	.010							1.0
MORF	HZ	475	296	EP		2025	47.71-	.010							1.0

**December 22 2015 Hour: 20:34 16.5 Lat: 15.18S Lon: 72.81W Depth: 80F Agency: IGL Distant**  
**Magnitudes: 5.1Mb IGL Rms: 0.0 secs**

**SOUTHERN PERU Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8872	47	EP		2046	15.77-	.020							1.0
MORF	BZ	8872	47	IAMB		2046	17.10			18	0.9				
MESJ	BZ	8933	47	EP		2046	18.730	.020							1.0
MESJ	BZ	8933	47	IAMB		2046	20.63			53	1.6				

**December 22 2015 Hour: 21: 6 3.9 Lat: 37.24N Lon: 8.52W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 0.8ML 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	14	302	EP		21 6	7.08-	.230							1.0
MORF	HN	14	302	ES		21 6	9.940	.130							1.0
MORF	HN	14	302	IAML		21 6	10.16			36	0.1				
MESJ	HZ	72	22	EP		21 6	15.540	.080							1.0
MESJ	HN	72	22	ES		21 6	23.920	.030							1.0
MESJ	HN	72	22	IAML		21 6	25.85			2	0.1				

**December 22 2015 Hour: 23:46 0.4 Lat: 36.51N Lon: 8.03W Depth: 14F 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	104	328	EP		2346	16.93-	.010							1.0
MESJ	HZ	149	354	EP		2346	22.87-	.080							1.0
MESJ	HE	149	354	ES		2346	39.470	.090							1.0
MESJ	HN	149	354	IAML		2346	41.12			5	0.1				

**December 23 2015 Hour: 2:29 32.6 Lat: 36.72N Lon: 8.63W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.2 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	65	358	EP		229	43.15	0.08							1.0
MORF	HN	65	358	ES		229	50.46-	0.27							1.0
MORF	HN	65	358	IAML		229	53.13			7	0.1				
MESJ	HN	129	16	ES		230	8.90	0.21							1.0
MESJ	HE	129	16	IAML		230	10.75			7	0.3				

**December 23 2015 Hour: 5:44 54.3 Lat: 37.24N Lon: 8.67W Depth: 10F Agency: IGL Regional**  
**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	8	13	EP		544	56.400	.020							1.0
MORF	HN	8	13	ES		544	57.89-	.020							1.0

**December 23 2015 Hour: 13:18 29.9 Lat: 36.68N Lon: 9.80W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	124	55	EP		1318	49.390	.070							1.0
MORF	HN	124	55	ES		1319	3.39	-.060							1.0
MORF	HN	124	55	IAML		1319	4.73		54	0.1					
MESJ	HZ	190	47	EP		1318	57.48	-.080							1.0
MESJ	HE	190	47	ES		1319	17.770	.060							1.0
MESJ	HE	190	47	IAML		1319	19.41		9	0.1					

**December 23 2015 Hour: 19:34 38.9 Lat: 36.52N Lon: 7.62W Depth: 26F 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
MORF	HZ	127	314	EP		1934	57.57	-.160							1.0
MORF	HN	127	314	ES		1935	11.42	-.070							1.0
MORF	HN	127	314	IAML		1935	11.90		45	0.2					
MESJ	HZ	156	340	EP		1935	1.510	.200							1.0
MESJ	HN	156	340	ES		1935	17.730	.040							1.0
MESJ	HE	156	340	IAML		1935	20.89		33	0.1					

**December 23 2015 Hour: 20:45 31.4 Lat: 36.47N Lon: 7.59W Depth: 32F 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	133	315	EP		2045	50.43	-.180							1.0
MORF	HN	133	315	ES		2046	4.59	-.060							1.0
MORF	HE	133	315	IAML		2046	5.65		13	0.2					
MESJ	HZ	162	340	EP		2045	54.390	.160							1.0
MESJ	HN	162	340	ES		2046	11.010	.090							1.0
MESJ	HN	162	340	IAML		2046	12.75		5	0.1					

**December 24 2015 Hour: 6:52 10.6 Lat: 36.70N Lon: 10.93W Depth: 6F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	214	71	EP		652	41.95	-.030							1.0
MESJ	HZ	272	61	EP		652	49.06	-.080							1.0
MESJ	HN	272	61	ES		653	17.420	.110							1.0
MESJ	HN	272	61	IAML		653	19.13		3	0.1					

**December 24 2015 Hour: 12:38 17.3 Lat: 36.57N Lon: 4.46W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	363	294	EP		1239	4.14	-.260							1.0
MESJ	HN	363	294	ES		1239	38.900	.160							1.0
MESJ	HN	363	294	IAML		1239	40.59		4	0.2					
MORF	HZ	382	284	EP		1239	6.930	.070							1.0
MORF	HN	382	284	ES		1239	43.030	.030							1.0
MORF	HN	382	284	IAML		1239	44.60		6	0.3					

**December 24 2015 Hour: 23:10 58.1 Lat: 7.25S Lon: 128.99E Depth: 119F Agency: IGL Distant**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**KEPULAUAN BABAR, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14557	315	EP	KPdf		2329	54.860	.030							1.0
MORF	BZ14618	314	EP	KPdf		2329	55.88	-.030							1.0

**December 25 2015 Hour: 3: 8 1.4 Lat: 38.41N Lon: 8.12W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.1 secs**  
**NW VIANA DO ALENTEJO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	188	EP		3 8	11.57	-.130							1.0
MESJ	HN	64	188	ES		3 8	19.21	-.010							1.0
MESJ	HN	64	188	IAML		3 8	19.71			4	0.2				
MORF	HZ	131	201	EP		3 8	22.680	.150							1.0

**December 25 2015 Hour: 16:28 42.3 Lat: 34.96N Lon: 5.92W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.7ML 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	358	317	EP		1629	28.79	-.060							1.0
MORF	HE	358	317	ES		1630	2.75	-.060							1.0
MORF	HN	358	317	IAML		1630	4.03			2	0.1				
MESJ	HZ	380	328	EP		1629	31.600	.050							1.0
MESJ	HE	380	328	ES		1630	7.550	.070							1.0
MESJ	HE	380	328	IAML		1630	8.93			2	0.2				

**December 25 2015 Hour: 19:14 47.0 Lat: 36.49N Lon: 71.14E Depth:206F Agency: IGL Distant**  
**Magnitudes: 6.2Mb IGL Rms: 0.1 secs**  
**HINDU KUSH REGION, AFGHANISTAN Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6821	298	EP		1924	40.99	-.060							1.0
MESJ	BZ	6821	298	IAMB		1924	45.19			419	1.1				
MESJ	BZ	6821	298	EP		1925	28.190	.120							1.0
MESJ	BE	6821	298	ES		1932	45.710	.020							1.0
GGNV	BZ	6853	299	EP		1924	42.950	.050							1.0
GGNV	BZ	6853	299	IAMB		1924	47.32			923	1.1				
GGNV	BZ	6853	299	EP		1925	30.120	.130							1.0
GGNV	BE	6853	299	ES		1932	49.170	.010							1.0
MORF	BZ	6881	297	EP		1924	44.46	-.260							0.9
MORF	BZ	6881	297	IAMB		1924	48.57			477	1.3				
MORF	BZ	6881	297	EP		1925	31.870	.060							1.0
MORF	BE	6881	297	ES		1932	52.47	-.100							1.0

**December 27 2015 Hour: 15:33 54.7 Lat: 39.04N Lon: 13.55W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 0.0 secs**  
**NORTH ATLANTIC OCEAN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	470	113	EP		1534	55.760	.000							1.0
MORF	HN	470	113	ES		1535	40.31	-.000							1.0
MORF	HN	470	113	IAML		1535	41.87			20	0.1				

**December 28 2015 Hour: 6:55 29.7 Lat: 14.59N Lon: 61.37W Depth:153F Agency: IGL Distant**  
**Magnitudes: 5.4Mb IGL Rms: 0.0 secs**  
**MARTINIQUE REGION, WINDWARD ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5763	54	EP		7 4	21.770	.050							1.0
MORF	BZ	5763	54	IAMB		7 4	24.08			79	0.9				

**December 28 2015 Hour: 9:40 16.0 Lat: 39.16N Lon: 10.49W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**  
**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	261	141	EP		940	53.05	-.060							1.0
MORF	HN	261	141	ES		941	20.280	.060							1.0
MORF	HE	261	141	IAML		941	21.82			11	0.1				

December 29 2015 Hour: 1:51 41.6 Lat: 6.29S Lon: 154.76E Depth: 29F 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
MORF	BZ16210	336	EPKP			211	16.50	-.040							1.0

December 29 2015 Hour: 4:31 56.1 Lat: 36.65N Lon: 9.80W 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	126	54	EP		432	14.40	-.120							1.0
MORF	HE	126	54	ES		432	28.060	.120							1.0
MORF	HE	126	54	IAML		432	29.67		4	0.1					

December 30 2015 Hour: 7:12 33.1 Lat: 37.07N Lon: 8.81W Depth: 26F Agency: IGL Regional  
Magnitudes: 2.3ML IGL Rms: 0.0 secs

**E VILA DO BISPO, PORTUGAL**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	30	28	EP		712	39.23	-.010							1.0
MORF	HN	30	28	ES		712	43.760	.010							1.0
MORF	HN	30	28	IAML		712	44.08		312	0.1					

December 31 2015 Hour: 14:9 5.2 Lat: 31.85N Lon: 7.56W Depth: 0 Agency: IGL Regional  
Rms: 0.0 secs

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	614	351	EP		1410	26.29	-.040							1.0

December 31 2015 Hour: 20:4 41.0 Lat: 36.50N Lon: 7.31W Depth: 30F Agency: IGL Regional  
Magnitudes: 2.8ML IGL Rms: 0.0 secs

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	149	307	EP		20	5	2.34	-.040						1.0
MORF	HN	149	307	ES		20	5	18.040	.040						1.0
MORF	HE	149	307	IAML		20	5	25.76		126	0.2				