

Seismological Bulletin

from the

UNIVERSITY OF LISBON

IDL Seismic Network

September to October

2013

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IDL.UL.PT

STATIONS USED

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

Lisboa (IGIDL)
GGNV

Latitude	38.7165N
Longitude	9.1491W
Height	77m

Almeirim (Fazendas)
ALMR

Latitude	39.1554N
Longitude	8.5768W
Height	165m

Marmelete (Picos)
MORF

Latitude	37.3063N
Longitude	8.6508W
Height	650m

Messejana
MESJ

Latitude	37.8395N
Longitude	8.2199W
Height	250m

September 1 2013 Hour: 0:50 11.0 Lat: 38.95N Lon: 8.74W Depth: 9F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.1 secs

SE BENAVENTE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	44	234	EP		050	18.14	-0.11							1.0
GGNV	HE	44	234	ES		050	23.60	0.06							1.0
GGNV	HN	44	234	AML		050	25.43			987	0.3				
MORF	HZ	183	178	EP		050	38.31	0.05							0.9
MORF	HN	183	178	ES		050	58.17	0.01							0.9
MORF	HN	183	178	AML		051	4.63			178	0.1				

September 1 2013 Hour: 11:52 32.5 Lat: 7.54S Lon: 128.28E Depth:132F Agency: IGL Distant
Magnitudes: 6.1MS IGL Rms: 0.0 secs

KEPULAUAN BARAT DAYA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ14551	316	EPKpdf			1211	27.50	-0.03							1.0
GGNV	BZ14551	316	EPP			1213	44.79	0.03							1.0
GGNV	BE14551	316	AMS			13 3	7.68			4083	15.1				
MORF	BZ14583	314	EPKpdf			1211	28.12	-0.03							1.0
MORF	BZ14583	314	EPP			1213	46.73	0.03							1.0
MORF	BZ14583	314	AMS			1312	38.54			2721	16.8				

September 1 2013 Hour: 19:50 39.4 Lat: 29.25S Lon: 176.33W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4MS IGL Rms: 0.1 secs

KERMADEC ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ18569	49	EPKpdf			2010	44.94	0.09							1.0
MORF	BZ18569	49	AMS			2124	11.07			672	28.8				

September 1 2013 Hour: 23:10 9.8 Lat: 36.96N Lon: 13.50W Depth: 10F Agency: IGL Regional
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	433	83	EP		2311	7.98	0.01							1.0

September 2 2013 Hour: 1:14 14.0 Lat: 39.51N Lon: 15.40E Depth:326F Agency: IGL Distant
Magnitudes: 3.8MB IGL Rms: 0.1 secs

SOUTHERN ITALY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	2108	271	EP		118	12.59	0.10							1.0
MORF	BZ	2108	271	AMb		118	16.00			46	1.8				

September 2 2013 Hour: 2:27 17.4 Lat: 37.33N Lon: 8.56W Depth: 16F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

N MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	252	EP		227	20.29	-0.02							1.0
MORF	HN	8	252	ES		227	22.49	0.02							1.0
MORF	HN	8	252	AML		227	22.96			23	0.3				

September 2 2013 Hour: 4:30 18.5 Lat: 6.57S Lon: 155.06E Depth: 49F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.1 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16135	338	EPKpdf			449	49.65	0.12							1.0
GGNV	BE16135	338	AMS			557	37.35			1451	24.4				
MORF	BZ16251	336	EPKpdf			449	51.26	-0.12							1.0
MORF	BZ16251	336	EPKpdf			449	51.50								
MORF	BZ16251	336	AMS			558	52.69			1562	20.0				

September 2 2013 Hour: 12:36 38.0 Lat: 43.44N Lon: 0.62W Depth: 1 Agency: IGL Regional
Rms: 0.0 secs

PYRENEES Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	963	228	EP		1238	40.40	0.00							1.0

September 2 2013 Hour: 12:59 30.9 Lat: 36.45N Lon: 9.15W Depth: 21F 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	105	25	EP		1259	47.38	-0.03							1.0
MORF	HN	105	25	ES		1259	59.48	0.03							1.0
MORF	HN	105	25	AML		13	0	2.27		49	0.4				

September 3 2013 Hour: 20:19 6.6 Lat: 51.20N Lon: 130.40W Depth: 1F Agency: IGL Distant
Magnitudes: 6.2MS IGL Rms: 0.1 secs

QUEEN CHARLOTTE ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BE	8516	43	AMS		21	3	33.21		11808	18.8				
GGNV	BZ	8530	43	EP		2030	59.66	0.07							1.0
GGNV	BN	8530	43	ES		2040	48.47	0.14							1.0
GGNV	BZ	8530	43	AMS		21	2	58.49		13765	16.4				
MORF	BZ	8684	44	EP		2031	7.32	-0.17							1.0
MORF	BN	8684	44	ES		2041	3.56	-0.04							1.0
MORF	BZ	8684	44	AMS		21	6	18.40		9670	23.5				

September 4 2013 Hour: 0:18 24.0 Lat: 30.01N Lon: 138.79E Depth: 40F Agency: IGL Distant
Rms: 0.1 secs

IZU ISLANDS, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ11721	334	EPP			036	14.64	0.00							1.0
MORF	BZ11837	333	EPdif			031	52.29	0.10							1.0
MORF	BZ11837	333	EPP			036	22.42	0.08							1.0
MORF	BN11837	333	ESKSac			041	51.32	-0.19							1.0

September 4 2013 Hour: 0:23 12.0 Lat: 51.20N Lon: 129.90W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0MS IGL Rms: 0.0 secs

QUEEN CHARLOTTE ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	8492	43	AMS		1	6	24.36		6502	17.9				
GGNV	BZ	8505	44	EP		035	2.32	0.05							1.0
GGNV	BN	8505	44	ES		044	48.82	0.00							1.0
GGNV	BZ	8505	44	AMS		1	6	59.92		7383	14.5				
MORF	BZ	8660	44	EP		035	10.14	-0.05							1.0
MORF	BZ	8660	44	AMS		110	17.84			5705	18.3				

September 4 2013 Hour: 2:32 33.1 Lat: 51.59N Lon: 174.76W Depth: 40F Agency: IGL Distant
Magnitudes: 6.5MS 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	9908	11	EP		245	23.98	0.08							1.0
GGNV	BE	9908	11	ESKSac		255	50.47	0.02							1.0
GGNV	BN	9908	11	ESS		3	2	6.54	0.06						1.0
GGNV	BZ	9908	11	AMS		333	4.32			18496	22.2				
MORF	BZ10070	11	EP			245	30.71	-0.07							1.0
MORF	BZ10070	11	EPP			249	6.57	0.01							1.0
MORF	BN10070	11	ESKSac			255	59.15	0.03							1.0
MORF	BN10070	11	ESS			3	2	27.48	-0.14						1.0
MORF	BZ10070	11	AMS			333	55.51			17659	17.4				

September 4 2013 Hour: 4:16 31.2 Lat: 51.60N Lon: 174.81W Depth: 35F Agency: IGL Distant
 Magnitudes: 5.8MB IGL Rms: 0.2 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	9909	11	EP		429	22.82	0.18							1.0
GGNV	BZ	9909	11	AMB		429	27.25			93	1.0				

September 4 2013 Hour: 6:27 5.1 Lat: 51.57N Lon: 174.99W Depth: 33F Agency: IGL Distant
 Magnitudes: 5.7MS 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	9914	11	EP		639	57.15	0.13							1.0
GGNV	BZ	9914	11	AMS		717	37.80			3201	25.4				
MORF	BZ10075		11	EP		640	3.82	-0.08							1.0
MORF	BN10075		11	ESKSac		650	32.98	-0.05							1.0
MORF	BZ10075		11	AMS		718	29.46			3322	24.3				

September 4 2013 Hour: 7:42 9.6 Lat: 37.33N Lon: 8.55W Depth: 12F Agency: IGL Regional
 Magnitudes: 0.9ML IGL Rms: 0.1 secs
 NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	254	EP		742	12.00	-0.11							1.0
MORF	HE	9	254	ES		742	14.06	0.11							1.0
MORF	HN	9	254	AML		742	14.94			51	0.1				

September 4 2013 Hour: 12:25 15.3 Lat: 36.38N Lon: 4.70W Depth: 55F Agency: IGL Regional
 Magnitudes: 2.8ML IGL Rms: 0.1 secs
 STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	367	287	EP		1226	3.13	-0.09							1.0
MORF	HN	367	287	ES		1226	38.28	0.09							1.0
MORF	HN	367	287	AML		1226	43.75			30	0.2				

September 4 2013 Hour: 15:31 38.8 Lat: 37.10N Lon: 8.21W Depth: 3F Agency: IGL Regional
 Magnitudes: 1.3ML IGL Rms: 0.1 secs
 NE ALBUFEIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	45	300	EP		1531	46.06	-0.11							1.0
MORF	HN	45	300	ES		1531	51.63	0.11							1.0
MORF	HN	45	300	AML		1531	54.74			25	0.3				

September 4 2013 Hour: 19:32 16.4 Lat: 36.08N Lon: 11.37W Depth: 31F Agency: IGL Regional
 Magnitudes: 2.5ML IGL Rms: 0.1 secs
 AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	279	60	EP		1932	52.89	-0.11							1.0
MORF	HN	279	60	ES		1933	19.87	0.11							1.0
MORF	HN	279	60	AML		1933	21.74			24	0.2				

September 4 2013 Hour: 23:43 13.2 Lat: 36.78N Lon: 7.64W Depth: 5F Agency: IGL Regional
 Magnitudes: 2.3ML IGL Rms: 0.2 secs
 STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	107	303	EP		2343	30.38	-0.15							1.0
MORF	HE	107	303	ES		2343	43.33	0.15							1.0
MORF	HN	107	303	AML		2343	44.96			70	0.1				

September 5 2013 Hour: 1:32 39.0 Lat: 35.22N Lon: 4.15W Depth: 0 Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	466	301	EP		133	42.30	-0.02							1.0
MORF	HE	466	301	ES		134	28.54	0.02							1.0
MORF	HN	466	301	AML		134	33.38			7	0.4				

September 5 2013 Hour: 4:1 35.9 Lat: 15.21N Lon: 45.11W Depth: 10F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4347	49	EP		4 9	3.10	0.00							1.0
MORF	BE	4347	49	ES		415	3.52	0.08							1.0
MORF	BZ	4347	49	AMS		421	41.61		20772	26.8					
GGNV	BZ	4375	46	EP		4 9	5.10	-0.01							1.0
GGNV	BE	4375	46	ES		415	6.98	-0.07							1.0
GGNV	BZ	4375	46	AMS		425	19.67		22091	20.6					

September 5 2013 Hour: 12:29 14.8 Lat: 10.59N Lon: 86.11W Depth: 18F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.1 secs

OFF COAST OF COSTA RICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8159	53	EP		1240	45.40	-0.04							1.0
GGNV	BZ	8159	53	AMS		1315	15.79		4136	19.5					
MORF	BZ	8205	54	EP		1240	47.91	-0.03							1.0
MORF	BN	8205	54	ES		1250	18.88	0.07							1.0
MORF	BZ	8205	54	AMS		13 8	0.48		3258	20.9					

September 5 2013 Hour: 16:49 23.1 Lat: 37.31N Lon: 8.55W Depth: 8F Agency: IGL Regional
Magnitudes: 1.7ML 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	9	267	EP		1649	25.00	-0.06							1.0
MORF	HN	9	267	ES		1649	26.57	0.06							1.0
MORF	HN	9	267	AML		1649	27.26		469	0.1					

September 6 2013 Hour: 2:0 14.3 Lat: 37.31N Lon: 8.63W Depth: 15F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	2	258	EP		2 0	16.87	0.02							1.0
MORF	HN	2	258	ES		2 0	18.65	-0.02							1.0
MORF	HN	2	258	AML		2 0	19.19		33	0.4					

September 6 2013 Hour: 11:33 53.8 Lat: 20.19N Lon: 122.31E Depth: 178F Agency: IGL Distant
Magnitudes: 5.4MS IGL Rms: 0.1 secs

BATAN ISLANDS REGION, PHILIPPINES Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ11777	322	EPP			1152	9.34	0.15							1.0
GGNV	BE11777	322	AMS			1242	28.31		1644	23.0					
MORF	BZ11851	321	EPdif			1147	47.21	0.04							1.0
MORF	BZ11851	321	EPP			1152	13.95	-0.20							1.0
MORF	BN11851	321	AMS			1234	40.59		716	16.5					

September 6 2013 Hour: 20:38 39.2 Lat: 36.89N Lon: 10.70W Depth: 22F 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	188	75	EP		2039	5.86	-0.06							1.0
MORF	HN	188	75	ES		2039	25.50	0.06							1.0
MORF	HN	188	75	AML		2039	26.64		9	0.2					

September 7 2013 Hour: 0:13 27.6 Lat: 14.64N Lon: 92.10W Depth: 67F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.2 secs

GUATEMALA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8410	53	EP		025	5.39	0.13							1.0
GGNV	BN	8410	53	ES		034	41.21	-0.23							1.0
GGNV	BZ	8410	53	AMS		052	4.09			9343	29.3				
MORF	BZ	8474	55	EP		025	8.80	0.16							1.0
MORF	BN	8474	55	ES		034	47.87	-0.06							1.0
MORF	BZ	8474	55	AMS		051	44.41			6366	23.4				

September 7 2013 Hour: 0:21 22.9 Lat: 37.20N Lon: 11.22W 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	229	86	EP		021	56.67	0.07							1.0
MORF	HN	229	86	ES		022	21.14	-0.07							1.0
MORF	HN	229	86	AML		022	24.02			9	0.1				

September 7 2013 Hour: 0:23 35.5 Lat: 36.54N Lon: 7.65W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	314	EP		023	52.69	-0.16							1.0
MORF	HN	123	314	ES		024	5.67	0.16							1.0
MORF	HN	123	314	AML		024	6.69			12	0.3				

September 7 2013 Hour: 9:24 45.6 Lat: 36.54N Lon: 8.10W Depth: 23F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	98	330	EP		925	1.24	0.03							1.0
MORF	HE	98	330	ES		925	12.57	-0.03							1.0
MORF	HN	98	330	AML		925	15.77			72	0.2				

September 7 2013 Hour: 13:55 50.0 Lat: 6.44S Lon: 130.30E Depth: 118F Agency: IGL Distant
Rms: 0.0 secs

BANDA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	14657	315	EPKpdf		1414	48.58	-0.01							1.0

September 8 2013 Hour: 5:11 11.3 Lat: 36.43N Lon: 9.81W Depth: 11F 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	142	46	EP		511	33.27	-0.04							1.0
MORF	HN	142	46	ES		511	49.40	0.04							1.0
MORF	HE	142	46	AML		511	51.96			8	0.1				

September 8 2013 Hour: 11:15 13.7 Lat: 36.91N Lon: 8.59W Depth: 27F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	353	EP		1115	21.85	0.09							1.0
MORF	HN	44	353	ES		1115	27.54	-0.09							1.0
MORF	HN	44	353	AML		1115	28.47			158	0.2				

September 8 2013 Hour: 12: 7 26.7 Lat: 36.92N Lon: 8.54W Depth: 20F 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	44	347	EP		12	7	34.36	0.05						1.0
MORF	HN	44	347	ES		12	7	39.84	-0.05						1.0
MORF	HN	44	347	AML		12	7	40.98			4	0.3			

September 9 2013 Hour: 11:52 22.5 Lat: 36.98N Lon: 8.35W Depth: 20F 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	45	324	EP		1152	30.30	0.07							1.0
MORF	HE	45	324	ES		1152	35.84	-0.07							1.0
MORF	HN	45	324	AML		1152	37.83				18	0.1			

September 10 2013 Hour: 8:42 11.3 Lat: 36.37N Lon: 9.68W Depth: 15F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	139	41	EP		842	32.43	-0.13							1.0
MORF	HN	139	41	ES		842	48.18	0.13							1.0
MORF	HN	139	41	AML		842	51.24				8	0.3			

September 11 2013 Hour: 0:49 52.4 Lat: 37.06N Lon: 5.43W Depth: 11F Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.2 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	287	277	EP		050	32.19	-0.22							1.0
MORF	HE	287	277	ES		051	1.85	0.22							1.0
MORF	HN	287	277	AML		051	5.41				29	0.0			

September 11 2013 Hour: 1:43 39.6 Lat: 35.95N Lon: 8.74W Depth: 28F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	151	3	EP		144	1.34	0.04							1.0
MORF	HN	151	3	ES		144	17.10	-0.04							1.0
MORF	HN	151	3	AML		144	21.65				17	0.3			

September 11 2013 Hour: 12:44 13.2 Lat: 4.65S Lon: 104.82W Depth: 10F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.2 secs

CENTRAL EAST PACIFIC RISE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10876	53	EP			1257	48.62	0.20							1.0
MORF	BE10876	53	ESKSac			13	8	25.50	-0.20						1.0
MORF	BZ10876	53	AMS			1335	13.79				2175	19.5			

September 11 2013 Hour: 18: 2 40.6 Lat: 36.94N Lon: 8.64W Depth: 29F Agency: IGL Regional
Magnitudes: 0.7ML 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	41	359	EP		18	2	48.34	0.04						1.0
MORF	HN	41	359	ES		18	2	53.88	-0.04						1.0
MORF	HE	41	359	AML		18	2	54.79			5	0.3			

September 11 2013 Hour: 22: 4 57.1 Lat: 36.55N Lon: 9.69W Depth: 30F 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	125	47	EP		22	5	15.44	-0.03						1.0
MORF	HE	125	47	ES		22	5	28.90	0.03						1.0
MORF	HN	125	47	AML		22	5	30.52			16	0.1			

September 12 2013 Hour: 12:25 49.8 Lat: 37.33N Lon: 8.50W Depth: 16F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	14	259	EP		1225	53.23	-0.02							1.0
MORF	HN	14	259	ES		1225	55.76	0.02							1.0
MORF	HN	14	259	AML		1225	56.21			18	0.3				

September 13 2013 Hour: 6:24 19.4 Lat: 37.33N Lon: 8.60W Depth: 13F Agency: IGL Regional
Magnitudes: 0.7ML 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	5	240	EP		624	21.73	-0.02							1.0
MORF	HE	5	240	ES		624	23.47	0.02							1.0
MORF	HN	5	240	AML		624	23.91			31	0.2				

September 14 2013 Hour: 2:47 43.4 Lat: 38.26N Lon: 8.95W Depth: 16F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

NW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	109	166	EP		248	0.70	0.04							1.0
MORF	HN	109	166	ES		248	13.21	-0.04							1.0
MORF	HN	109	166	AML		248	18.27			18	0.3				

September 14 2013 Hour: 5:11 0.6 Lat: 36.12N Lon: 8.56W Depth: 1 Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	132	356	EP		511	21.91	-0.03							1.0
MORF	HE	132	356	ES		511	37.52	0.03							1.0
MORF	HN	132	356	AML		511	42.58			10	0.2				

September 14 2013 Hour: 12:31 4.3 Lat: 36.80N Lon: 12.53W Depth: 1 Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 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	350	80	EP		1231	53.14	0.05							1.0
MORF	HN	350	80	ES		1232	28.65	-0.05							1.0
MORF	HE	350	80	AML		1232	31.19			2	0.3				

September 14 2013 Hour: 15:42 46.8 Lat: 51.55N Lon: 174.72W Depth: 25F Agency: IGL Distant
Magnitudes: 5.6MS IGL Rms: 0.0 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	9912	11	EP		1555	39.94	0.06							1.0
GGNV	BN	9912	11	ESKSac		16	6	8.12	0.02						1.0
GGNV	BZ	9912	11	AMS		1636	53.36			2229	22.2				
MORF	BZ10073	11	EP			1555	46.75	-0.01							1.0
MORF	BN10073	11	ESKSac			16	6	16.70	-0.07						1.0
MORF	BZ10073	11	AMS			1637	45.18			2910	18.9				

September 14 2013 Hour: 18:16 49.9 Lat: 37.31N Lon: 8.59W Depth: 15F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	266	EP		1816	52.39	-0.11							1.0
MORF	HE	5	266	ES		1816	54.53	0.11							1.0
MORF	HE	5	266	AML		1816	55.43			7	0.1				

September 15 2013 Hour: 2:35 10.7 Lat: 37.40N Lon: 15.70W Depth: 19F Agency: IGL Regional
Magnitudes: 3.0ML 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	625	89	EP		236	31.26	-0.01							1.0
MORF	HE	625	89	ES		237	30.10	0.01							1.0
MORF	HN	625	89	AML		237	35.93			18	0.2				

September 15 2013 Hour: 9:31 5.7 Lat: 36.08N Lon: 7.59W Depth: 22F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	166	325	EP		931	29.54	-0.15							1.0
MORF	HE	166	325	ES		931	47.36	0.15							1.0
MORF	HN	166	325	AML		931	52.87			35	0.1				

September 15 2013 Hour: 16:21 37.3 Lat: 51.58N Lon: 174.73W Depth: 23F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.2 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	9910	11	EP		1634	30.83	0.26							1.0
GGNV	BN	9910	11	ESKSac		1644	58.89	-0.10							1.0
GGNV	BN	9910	11	ESS		1651	14.29	-0.30							1.0
GGNV	BN	9910	11	AMS		1722	7.51			3660	19.0				
MORF	BZ10071	11	EP			1634	37.64	0.19							1.0
MORF	BN10071	11	ESKSac			1645	7.61	-0.06							1.0
MORF	BZ10071	11	AMS			1716	36.96			4935	19.4				

September 15 2013 Hour: 18:43 27.2 Lat: 37.32N Lon: 8.61W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	4	247	EP		1843	29.06	-0.09							1.0
MORF	HE	4	247	ES		1843	30.67	0.09							1.0
MORF	HN	4	247	AML		1843	31.51			78	0.1				

September 16 2013 Hour: 2:3 24.7 Lat: 36.88N Lon: 12.32W Depth: 1 Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.2 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	329	81	EP		2 4	11.14	0.18							1.0
MORF	HN	329	81	ES		2 4	44.53	-0.18							1.0
MORF	HN	329	81	AML		2 4	48.49			24	0.5				

September 16 2013 Hour: 3:29 13.1 Lat: 37.09N Lon: 5.48W Depth: 5F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	283	276	EP		329	53.15	-0.01							1.0
MORF	HN	283	276	ES		330	22.43	0.01							1.0
MORF	HE	283	276	AML		330	25.51			8	0.2				

September 16 2013 Hour: 5:40 43.6 Lat: 36.77N Lon: 8.52W Depth: 20F 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	61	349	EP		540	53.62	-0.01							1.0
MORF	HN	61	349	ES		541	0.98	0.01							1.0
MORF	HE	61	349	AML		541	2.66			6	0.2				

September 16 2013 Hour: 7:19 17.4 Lat: 36.95N Lon: 5.30W Depth: 19F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	300	279	EP		719	58.36	0.01							1.0

September 16 2013 Hour: 13: 4 0.1 Lat: 36.15N Lon: 8.51W Depth: 32F 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	129	354	EP		13 4	18.92	-0.01							1.0
MORF	HN	129	354	ES		13 4	32.67	0.01							1.0
MORF	HE	129	354	AML		13 4	33.23			9	0.2				

September 17 2013 Hour: 13:14 34.8 Lat: 36.17N Lon: 10.52W Depth: 10F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	209	52	EP		1315	5.19	-0.06							1.0
MORF	HN	209	52	ES		1315	27.54	0.06							1.0
MORF	HE	209	52	AML		1315	29.19			17	0.2				

September 17 2013 Hour: 22:26 0.1 Lat: 36.98N Lon: 5.36W Depth: 7F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	295	278	EP		2226	41.54	0.04							1.0

September 18 2013 Hour: 8:29 11.6 Lat: 36.92N Lon: 8.54W Depth: 12F 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	44	347	EP		829	18.93	0.00							1.0
MORF	HN	44	347	ES		829	24.31	0.00							1.0
MORF	HN	44	347	AML		829	25.27			9	0.2				

September 18 2013 Hour: 9: 8 20.3 Lat: 37.23N Lon: 12.64W Depth: 0 Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	354	87	EP		9 9	9.58	-0.12							1.0
MORF	HN	354	87	ES		9 9	45.91	0.12							1.0
MORF	HN	354	87	AML		9 9	52.58			11	0.3				

September 19 2013 Hour: 17:57 50.5 Lat: 36.26N Lon: 8.42W Depth: 15F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	350	EP		1758	9.02	-0.09							1.0
MORF	HE	118	350	ES		1758	22.76	0.09							1.0
MORF	HE	118	350	AML		1758	24.63			19	0.2				

September 20 2013 Hour: 14:10 30.8 Lat: 36.63N Lon: 11.03W Depth: 10F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	225	70	EP		1411	3.15	-0.02							1.0
MORF	HN	225	70	ES		1411	26.84	0.02							1.0
MORF	HN	225	70	AML		1411	29.15			6	0.4				

September 20 2013 Hour: 21: 0 25.1 Lat: 37.31N Lon: 8.60W Depth: 17F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.2 secs
W MONCHIQUÉ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		5	265	EP		21	0							1.0
MORF	HN		5	265	ES		21	0							1.0
MORF	HN		5	265	AML		21	0			8		0.2		

September 21 2013 Hour: 0:10 59.2 Lat: 36.37N Lon: 3.81W Depth: 0 Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.3 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		444	285	EP		011	59.48							1.0
MORF	HE		444	285	ES		012	44.39							1.0
MORF	HN		444	285	AML		012	48.29			11		0.3		

September 21 2013 Hour: 0:43 35.7 Lat: 37.31N Lon: 8.57W Depth: 9F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs
SW MONCHIQUÉ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		7	267	EP		043	37.53							1.0
MORF	HE		7	267	ES		043	39.11							1.0
MORF	HN		7	267	AML		043	39.85			26		0.1		

September 21 2013 Hour: 1:39 15.9 Lat: 7.26S Lon: 119.96E Depth: 537F Agency: IGL Distant
Magnitudes: 5.4MS IGL Rms: 0.1 secs
CHIQUAHUA, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ13882		311	EPKpdf		157	14.34								1.0

September 21 2013 Hour: 12:16 12.0 Lat: 27.79N Lon: 105.77W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4MS IGL Rms: 0.1 secs
CHIQUAHUA, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8778	54	EP		1228	15.90								1.0
MORF	BN	8778	54	ES		1238	15.32								1.0
MORF	BZ	8778	54	AMS		13	3	4.07			2100		21.6		

September 21 2013 Hour: 16:48 59.3 Lat: 33.51S Lon: 178.09W Depth: 10F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.1 secs
SOUTH OF KERMADEC ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18867		57	EPKpdf		17	9	6.67							1.0
GGNV	BZ18867		57	EPP		1714	10.41								1.0
GGNV	BE18867		57	AMS		1829	33.23				1443		18.9		
MORF	BZ18970		63	EPKpdf		17	9	7.09							1.0
MORF	BZ18970		63	EPP		1714	15.15								1.0
MORF	BZ18970		63	AMS		1831	25.62				1652		20.2		

September 21 2013 Hour: 19: 2 20.5 Lat: 36.69N Lon: 11.04W Depth: 33F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ		223	71	EP		19	2							1.0
MORF	HN		223	71	ES		19	3							1.0
MORF	HN		223	71	AML		19	3			4		0.3		

September 22 2013 Hour: 12:36 34.3 Lat: 37.20N Lon: 7.87W Depth: 21F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

NE S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	70	280	EP		1236	45.94	0.10							1.0
MORF	HE	70	280	ES		1236	54.14	-0.10							1.0
MORF	HN	70	280	AML		1236	57.56			19	0.4				

September 22 2013 Hour: 14:36 13.6 Lat: 36.23N Lon: 8.50W Depth: 24F 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	120	354	EP		1436	31.68	-0.10							1.0
MORF	HN	120	354	ES		1436	45.15	0.10							1.0
MORF	HE	120	354	AML		1436	49.12			247	0.1				

September 22 2013 Hour: 16:15 5.1 Lat: 37.10N Lon: 4.99W Depth: 13F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	325	275	EP		1615	49.71	-0.03							1.0

September 23 2013 Hour: 6:59 13.4 Lat: 36.05N Lon: 10.51W Depth: 31F Agency: IGL Regional
Magnitudes: 3.7ML 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	217	49	EP		659	42.25	-0.11							1.0
MORF	HN	217	49	ES		7 0	3.51	-0.02							1.0
MORF	HE	217	49	AML		7 0	7.53			521	0.2				
GGNV	HN	320	22	ES		7 0	25.64	0.14							1.0
GGNV	HN	320	22	AML		7 0	28.69			240	0.5				

September 23 2013 Hour: 10:53 5.2 Lat: 37.41N Lon: 8.54W Depth: 21F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	221	EP		1053	9.44	0.06							1.0
MORF	HN	15	221	ES		1053	12.34	-0.06							1.0
MORF	HN	15	221	AML		1053	13.19			18	0.1				

September 23 2013 Hour: 16:26 18.1 Lat: 36.62N Lon: 9.76W Depth: 31F Agency: IGL Regional
Magnitudes: 2.5ML 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	125	52	EP		1626	35.63	-0.02							1.0
MORF	HN	125	52	ES		1626	48.47	0.02							1.0
MORF	HN	125	52	AML		1626	51.26			84	0.3				

September 24 2013 Hour: 5:35 50.8 Lat: 36.69N Lon: 15.66W Depth: 31F Agency: IGL Regional
Magnitudes: 4.0ML IGL Rms: 0.4 secs

AZORE-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HN	617	67	ES		538	5.16	-0.36							1.0
GGNV	HE	617	67	AML		538	10.37			230	0.7				
MORF	HZ	628	82	EP		537	10.53	0.50							1.0
MORF	HN	628	82	ES		538	7.77	-0.13							1.0
MORF	HN	628	82	AML		538	12.14			134	0.6				

September 24 2013 Hour: 9:52 45.4 Lat: 38.82N Lon: 8.04W Depth: 19F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.0 secs

NW ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	176	198	EP		953	10.98	0.04							1.0
MORF	HN	176	198	ESg		953	32.81	-0.04							1.0
MORF	HN	176	198	AML		953	36.68			145	0.2				

September 24 2013 Hour: 11:29 47.8 Lat: 26.97N Lon: 65.52E Depth: 15F Agency: IGL Distant
Magnitudes: 7.9MS IGL Rms: 0.1 secs

PAKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6920	300	EP		1140	8.83	-0.02							1.0
MORF	BN	6920	300	ES		1148	34.81	-0.06							1.0
MORF	BN	6920	300	AMS		1211	10.87		935000	25.0					
GGNV	BZ	6925	302	EP		1140	9.17	0.09							1.0
GGNV	BN	6925	302	ES		1148	35.31	-0.01							1.0
GGNV	BZ	6925	302	AMS		1212	48.54		1007000	24.5					

September 24 2013 Hour: 13:1 40.6 Lat: 27.34N Lon: 65.64E Depth: 28F Agency: IGL Distant
Magnitudes: 5.2MB IGL Rms: 0.1 secs

PAKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6910	300	EP		1311	59.05	-0.10							1.0
MORF	BZ	6910	300	AMb		1312	10.11			46	1.0				

September 24 2013 Hour: 14:8 33.2 Lat: 27.52N Lon: 65.71E Depth: 27F Agency: IGL Distant
Magnitudes: 5.1MB IGL Rms: 0.0 secs

PAKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6906	300	EP		1418	51.60	-0.04							1.0
MORF	BZ	6906	300	AMb		1418	58.91			40	1.4				

September 24 2013 Hour: 14:48 32.1 Lat: 36.87N Lon: 11.01W Depth: 31F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	215	76	EP		1449	0.71	-0.19							1.0
MORF	HN	215	76	ES		1449	22.11	0.19							1.0
MORF	HN	215	76	AML		1449	24.57			8	0.4				

September 24 2013 Hour: 15:39 30.4 Lat: 67.56N Lon: 142.83E Depth: 15F Agency: IGL Distant
Magnitudes: 5.0MB IGL Rms: 0.0 secs

NORTHEASTERN SAKHA, RUSSIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8131	337	EP		1551	0.42	-0.04							1.0
MORF	BZ	8131	337	AMb		1551	4.66			39	2.1				

September 24 2013 Hour: 22:4 43.4 Lat: 38.69N Lon: 8.45W Depth: 1 Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

NE VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	155	187	EP		22	5	8.20	0.22						1.0
MORF	HN	155	187	ES		22	5	25.67	-0.22						1.0
MORF	HN	155	187	AML		22	5	27.24		6	0.4				

September 24 2013 Hour: 23:38 26.3 Lat: 24.45S Lon: 175.18W Depth: 33F Agency: IGL Distant
Magnitudes: 5.0MS IGL Rms: 0.1 secs

SOUTH OF TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ18109	39	EPKpdf			2358	24.33	-0.06							1.0
MORF	BZ18109	39	AMS			25	7	38.19		330	28.5				

September 25 2013 Hour: 2:14 7.6 Lat: 37.14N Lon: 8.60W Depth: 21F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs
W PORTIMAO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	19	346	EP		214	12.13	-0.03							1.0
MORF	HN	19	346	ES		214	15.49	0.03							1.0
MORF	HE	19	346	AML		214	16.14			11	0.2				

September 25 2013 Hour: 2:15 27.7 Lat: 36.90N Lon: 8.40W Depth: 13F 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	50	334	EP		215	36.12	0.08							1.0
MORF	HN	50	334	ES		215	42.03	-0.08							1.0
MORF	HE	50	334	AML		215	43.42			30	0.1				

September 25 2013 Hour: 11:13 47.1 Lat: 37.31N Lon: 8.47W Depth: 26F 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	HN	16	269	ES		1113	55.56	0.12							1.0
MORF	HN	16	269	AML		1113	55.89			32	0.2				
MORF	HZ	16	269	EP		1113	51.82	-0.12							1.0

September 25 2013 Hour: 11:13 48.2 Lat: 37.31N Lon: 8.50W Depth: 26F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs
E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	268	EP		1113	52.77	-0.01							1.0
MORF	HN	13	268	ES		1113	56.16	0.01							1.0
MORF	HN	13	268	AML		1113	57.03			116	0.2				

September 25 2013 Hour: 13:58 14.9 Lat: 52.92N Lon: 171.33E Depth: 12F Agency: IGL Distant
Magnitudes: 5.3MS IGL Rms: 0.1 secs
NEAR ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10014	360	EP			1411	14.42	0.07							1.0
MORF	BZ10014	360	AMS			1453	59.48			801	14.3				

September 25 2013 Hour: 16:42 44.2 Lat: 15.88S Lon: 74.54W Depth: 40F Agency: IGL Distant
Magnitudes: 7.5MS IGL Rms: 0.1 secs
NEAR COAST OF SOUTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9061	47	EP		1654	57.23	0.09							1.0
MORF	BN	9061	47	ES		17	5	5.94	-0.09						1.0
MORF	BZ	9061	47	AMS		1728	9.87			185000	21.6				
GGNV	BZ	9094	46	EP		1654	58.65	0.01							1.0
GGNV	BE	9094	46	ES		17	5	9.15	0.15						1.0
GGNV	BN	9094	46	ESS		1710	27.52	-0.17							1.0
GGNV	BZ	9094	46	AMS		1728	33.87			258000	23.5				

September 25 2013 Hour: 23:11 48.0 Lat: 37.45N Lon: 8.95W Depth: 9F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs
NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	31	121	EP		2311	53.24	0.06							1.0
MORF	HN	31	121	ES		2311	56.93	-0.06							1.0
MORF	HN	31	121	AML		2311	58.48			45	0.2				

September 26 2013 Hour: 1:18 54.2 Lat: 57.57N Lon: 33.07W Depth: 10F Agency: IGL Distant
Magnitudes: 4.9MS IGL Rms: 0.1 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2719	130	EP		124	13.19	-0.02							1.0
GGNV	BN	2719	130	ES		128	34.67	0.20							1.0
GGNV	BZ	2719	130	AMS		131	46.87			5190	22.0				
MORF	BZ	2875	131	EP		124	25.99	-0.09							1.0
MORF	BN	2875	131	ES		128	56.88	-0.08							1.0
MORF	BZ	2875	131	AMS		132	18.87			3371	21.5				

September 26 2013 Hour: 1:57 57.0 Lat: 36.92N Lon: 8.74W Depth: 28F 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	HN	44	10	ES		158	10.80	-0.05							1.0
MORF	HE	44	10	AML		158	12.40			5	0.3				
MORF	HZ	44	10	EP		158	5.07	0.05							1.0

September 26 2013 Hour: 3:52 8.5 Lat: 35.06N Lon: 5.95W Depth: 35F 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
MORF	HZ	348	317	EP		352	54.61	0.08							1.0

September 26 2013 Hour: 6:46 3.7 Lat: 14.42N Lon: 93.36W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4MS IGL Rms: 0.0 secs

OFFSHORE CHIAPAS, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8533	53	EP		657	55.07	0.05							1.0
GGNV	BZ	8533	53	AMS		735	34.49			1497	16.8				
MORF	BZ	8598	54	EP		657	58.38	-0.05							1.0
MORF	BZ	8598	54	AMS		734	47.66			1693	16.5				

September 26 2013 Hour: 13:35 52.6 Lat: 37.32N Lon: 13.84W Depth: 10F Agency: IGL Regional
Magnitudes: 3.1ML IGL Rms: 0.0 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	460	89	EP		1336	54.09	0.00							1.0
MORF	HE	460	89	ES		1337	38.98	0.00							1.0
MORF	HN	460	89	AML		1337	44.20			44	0.2				

September 27 2013 Hour: 19:48 59.1 Lat: 37.21N Lon: 13.81W Depth: 0 Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.0 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	458	87	EP		1950	1.40	0.00							1.0
MORF	HE	458	87	ES		1950	46.86	0.00							1.0
MORF	HN	458	87	AML		1950	49.10			11	0.4				

September 28 2013 Hour: 5:12 50.2 Lat: 37.69N Lon: 3.90W Depth: 11F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	422	266	EP		513	47.08	0.05							1.0

September 28 2013 Hour: 7:34 6.8 Lat: 27.26N Lon: 65.59E Depth: 15F Agency: IGL Distant
Magnitudes: 6.7MS IGL Rms: 0.0 secs

PAKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6909	300	EP		744	27.29	0.03							1.0
MORF	BN	6909	300	ES		752	52.68	-0.05							1.0
MORF	BE	6909	300	AMS		821	46.17			47482	14.3				

GGNV BZ 6914 301 EP	744 27.50 0.06																		1.0
GGNV BN 6914 301 ES	752 53.04-0.04																		1.0
GGNV BE 6914 301 AMS	818 50.13								44560	20.4									

September 29 2013 Hour: 0:40 48.9 Lat: 37.27N Lon: 8.93W Depth: 24F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

SW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	25	81	EP		040	54.29	-0.09							1.0
MORF	HN	25	81	ES		040	58.46	0.09							1.0
MORF	HN	25	81	AML		041	0.70		6	0.1					

September 29 2013 Hour: 12:50 5.5 Lat: 36.51N Lon: 7.66W Depth: 17F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	315	EP		1250	24.88	0.00							1.0
MORF	HE	125	315	ES		1250	39.01	0.00							1.0
MORF	HN	125	315	AML		1250	41.93		13	0.1					

September 29 2013 Hour: 14: 7 54.9 Lat: 37.30N Lon: 8.58W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML 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	276	EP		14 7	56.85	-0.03							1.0
MORF	HN	6	276	ES		14 7	58.36	0.03							1.0
MORF	HN	6	276	AML		14 7	58.87		77	0.2					

September 29 2013 Hour: 16:55 44.8 Lat: 37.25N Lon: 8.55W Depth: 2F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

S MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	305	EP		1655	46.46	-0.15							1.0
MORF	HN	11	305	ES		1655	48.07	0.15							1.0
MORF	HN	11	305	AML		1655	48.60		57	0.1					

September 30 2013 Hour: 5:55 55.1 Lat: 30.88S Lon: 178.38W Depth: 42F Agency: IGL Distant
Magnitudes: 6.5MS IGL Rms: 0.0 secs

KERMADEC ISLANDS, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18707	46	EPKpdf			615	56.46	-0.01							1.0
GGNV	BZ18707	46	EPP			620	54.20	-0.03							1.0
GGNV	BE18707	46	ESS			641	42.50	0.04							1.0
GGNV	BZ18707	46	AMS			730	10.19		7571	22.6					

September 30 2013 Hour: 8:16 9.3 Lat: 49.50N Lon: 28.49W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3MB IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ 1947	121	EP			820	13.53	-0.15							1.0
GGNV	BZ 1947	121	AMb			820	16.82		206	2.0					
GGNV	BN 1947	121	ES			823	30.02	0.15							1.0

October 1 2013 Hour: 3:38 21.7 Lat: 53.17N Lon: 152.77E Depth: 578F Agency: IGL Distant
Magnitudes: 6.0MB IGL Rms: 0.1 secs

SEA OF OKHOTSK Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ 9681	346	EP			350	6.36	-0.07							1.0
GGNV	BZ 9681	346	AMb			350	7.33		712	0.9					
GGNV	BZ 9681	346	EpP			352	11.75	-0.05							1.0
GGNV	BN 9681	346	ESKSac			359	38.85	0.15							1.0
MESJ	BZ 9761	345	EP			350	9.91	0.07							1.0
MESJ	BZ 9761	345	AMb			350	12.07		704	1.4					
MESJ	BZ 9761	345	EpP			352	15.50	0.07							1.0

MESJ	BE	9761	345	ESKSac		359	42.99	-0.06									1.0
MORF	BZ	9826	345	EP		350	12.66	0.02									1.0
MORF	BZ	9826	345	AMb		350	14.44			1077	1.2						
MORF	BZ	9826	345	EpP		352	18.45	0.05									1.0
MORF	BE	9826	345	ESKSac		359	46.44	-0.18									1.0

October 1 2013 Hour: 11:20 17.6 Lat: 38.02N Lon: 8.47W Depth: 4F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	30	132	EP		1120	22.27	-0.14							1.0
MESJ	HN	30	132	ES		1120	26.08	0.14							1.0
MESJ	HN	30	132	AML		1120	27.95			35	0.3				

October 1 2013 Hour: 19:41 32.1 Lat: 55.78N Lon: 34.85W Depth: 7F Agency: IGL Distant
Magnitudes: 4.8MS IGL Rms: 0.2 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2813	124	EP		1946	58.97	-0.24							1.0
MESJ	BN	2813	124	ES		1951	26.57	0.01							1.0
MESJ	BZ	2813	124	AMS		1954	54.16			4160	20.6				
MORF	BZ	2838	125	EP		1947	1.59	0.23							1.0
MORF	BZ	2838	125	AMS		1955	10.09			2948	22.5				

October 2 2013 Hour: 1: 6 37.2 Lat: 11.26N Lon: 57.55E Depth: 10F Agency: IGL Distant
Magnitudes: 5.6MB IGL Rms: 0.2 secs

OWEN FRACTURE ZONE REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7132	307	EP		117	11.62	0.10							1.0
MESJ	BZ	7132	307	AMb		117	14.66			106	1.4				
MESJ	BN	7132	307	ES		125	48.98	-0.08							1.0
MORF	BZ	7164	306	EP		117	13.58	0.11							1.0
MORF	BZ	7164	306	AMb		117	18.58			43	1.9				
MORF	BN	7164	306	ES		125	52.44	-0.29							1.0
GGNV	BZ	7222	307	EP		117	17.06	0.23							1.0
GGNV	BZ	7222	307	AMb		117	20.71			294	1.2				
GGNV	BE	7222	307	ES		125	59.02	-0.07							1.0

October 2 2013 Hour: 1:52 39.5 Lat: 36.69N Lon: 9.70W Depth: 19F 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	116	53	EP		152	57.58	0.01							1.0
MORF	HE	116	53	ES		153	10.62	-0.12							1.0
MORF	HN	116	53	AML		153	12.93			7	0.2				
MESJ	HZ	183	45	EP		153	5.88	-0.02							1.0
MESJ	HN	183	45	ES		153	25.29	0.14							1.0
MESJ	HE	183	45	AML		153	26.92			2	0.2				

October 2 2013 Hour: 3:10 9.6 Lat: 36.40N Lon: 9.67W Depth: 15F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	136	42	EP		310	30.37	-0.11							1.0
MORF	HE	136	42	ES		310	45.81	0.11							1.0
MORF	HN	136	42	AML		310	47.37			7	0.2				

October 2 2013 Hour: 5:51 25.5 Lat: 37.24N Lon: 8.59W Depth: 18F Agency: IGL Regional
Magnitudes: 1.9ML 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	9	324	EP		551	28.61	-0.15							1.0
MORF	HN	9	324	ES		551	31.19	0.04							1.0
MORF	HN	9	324	AML		551	32.02			302	0.1				

MESJ HZ	74	26	EP	551	37.54	0.07											1.0
MESJ HN	74	26	ES	551	46.25	0.04											1.0
MESJ HN	74	26	AML	551	47.86				55	0.2							

October 2 2013 Hour: 18:30 38.8 Lat: 36.70N Lon: 9.61W Depth: 22F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	109	51	EP			1830	55.67	-0.07							1.0
MORF HE	109	51	ES			1831	8.10	0.03							1.0
MORF HN	109	51	AML			1831	9.18		27	0.1					
MESJ HZ	177	44	EP			1831	4.22	0.08							1.0
MESJ HN	177	44	ES			1831	22.58	-0.03							1.0
MESJ HN	177	44	AML			1831	25.96		9	0.2					

October 2 2013 Hour: 19:24 39.2 Lat: 37.62N Lon: 9.25W Depth: 1F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.2 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	63	123	EP			1924	49.31	-0.14							1.0
MORF HE	63	123	ES			1924	56.85	-0.07							1.0
MORF HN	63	123	AML			1925	1.67		116	0.3					
MESJ HZ	94	75	EP			1924	54.60	0.22							1.0

October 2 2013 Hour: 20: 8 51.8 Lat: 37.63N Lon: 9.32W Depth: 0 Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	69	121	EP			20 9	3.02	0.08							1.0
MORF HN	69	121	ES			20 9	11.02	-0.08							1.0
MORF HN	69	121	AML			20 9	12.25		7	0.2					

October 3 2013 Hour: 5:35 55.2 Lat: 37.24N Lon: 8.86W Depth: 20F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

SW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	20	68	EP			535	59.49	-0.18							1.0
MORF HE	20	68	ES			536	2.87	-0.10							1.0
MORF HN	20	68	AML			536	3.22		60	0.1					
MESJ HZ	87	40	EP			536	9.13	-0.03							1.0
MESJ HN	87	40	ES			536	19.70	0.32							1.0
MESJ HE	87	40	AML			536	21.75		16	0.1					

October 3 2013 Hour: 15:59 30.2 Lat: 36.52N Lon: 7.26W Depth: 32F 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	152	306	EP			1559	51.71	-0.10							1.0
MORF HN	152	306	ES			16 0	7.60	0.02							1.0
MORF HN	152	306	AML			16 0	13.29		16	0.2					
MESJ HZ	169	330	EP			1559	54.18	0.18							1.0
MESJ HN	169	330	ES			16 0	11.27	-0.10							1.0
MESJ HN	169	330	AML			16 0	13.61		8	0.2					

October 4 2013 Hour: 8:47 54.3 Lat: 36.62N Lon: 11.10W Depth: 15F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	231	70	EP			848	27.02	-0.02							1.0
MORF HE	231	70	ES			848	50.89	-0.02							1.0
MORF HN	231	70	AML			848	54.28		6	0.4					
MESJ HZ	289	61	EP			848	34.28	0.05							1.0
MESJ HN	289	61	ES			849	3.34	-0.01							1.0
MESJ HN	289	61	AML			849	8.63		3	0.4					

October 4 2013 Hour: 8:59 41.8 Lat: 36.24N Lon: 4.71W Depth: 24F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	359	301	EP		9 0	29.67	0.03							1.0
MESJ	HN	359	301	ES		9 1	4.53	-0.03							1.0
MESJ	HN	359	301	AML		9 1	7.45			2	0.2				

October 5 2013 Hour: 9: 2 29.2 Lat: 37.30N Lon: 8.56W Depth: 20F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.2 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	275	EP		9 2	32.58	-0.11							1.0
MORF	HN	8	275	ES		9 2	35.13	-0.10							1.0
MORF	HN	8	275	AML		9 2	35.82			23	0.4				
MESJ	HN	67	27	ES		9 2	48.39	0.22							1.0
MESJ	HE	67	27	AML		9 2	50.45			5	0.1				

October 5 2013 Hour: 9:49 58.3 Lat: 36.37N Lon: 7.49W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	176	339	EP		950	24.60	0.03							1.0
MESJ	HN	176	339	ES		950	43.69	-0.03							1.0
MESJ	HN	176	339	AML		950	48.92			3	0.3				

October 5 2013 Hour: 10:52 4.6 Lat: 37.38N Lon: 8.53W Depth: 12F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	14	233	EP		1052	7.48	-0.10							1.0
MORF	HN	14	233	ES		1052	9.73	-0.02							1.0
MORF	HN	14	233	AML		1052	10.29			28	0.1				
MESJ	HZ	58	28	EP		1052	14.13	0.07							1.0
MESJ	HN	58	28	ES		1052	21.01	0.06							1.0
MESJ	HN	58	28	AML		1052	21.72			3	0.1				

October 5 2013 Hour: 12: 4 12.9 Lat: 35.49N Lon: 5.87W Depth: 0 Agency: IGL Regional
Magnitudes: 2.3ML 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
MORF	HZ	321	310	EP		12 4	58.24	-0.04							1.0
MORF	HN	321	310	ES		12 5	31.19	-0.19							1.0
MORF	HN	321	310	AML		12 5	35.05			13	0.3				
MESJ	HZ	335	322	EP		12 4	59.87	-0.12							1.0
MESJ	HN	335	322	ES		12 5	34.69	0.35							1.0
MESJ	HN	335	322	AML		12 5	38.14			11	0.5				

October 5 2013 Hour: 13: 4 49.8 Lat: 38.50N Lon: 6.78W Depth: 10F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	146	240	EP		13 5	12.41	0.05							1.0
MESJ	HN	146	240	ES		13 5	28.80	-0.03							1.0
MESJ	HN	146	240	AML		13 5	31.35			9	0.1				
MORF	HZ	211	232	EP		13 5	20.50	0.00							1.0
MORF	HN	211	232	ES		13 5	42.91	-0.01							1.0
MORF	HN	211	232	AML		13 5	48.93			7	0.3				

October 5 2013 Hour: 13:26 25.8 Lat: 36.71N Lon: 12.75W Depth: 31F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.2 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	371	79	EP		1327	13.68	-0.26							1.0
MORF	HN	371	79	ES		1327	49.28	0.21							1.0
MORF	HE	371	79	AML		1327	51.27		14	0.2					
MESJ	HZ	421	71	EP		1327	19.90	-0.07							1.0
MESJ	HN	421	71	ES		1327	59.61	0.11							1.0
MESJ	HE	421	71	AML		1328	2.91		6	0.2					

October 6 2013 Hour: 0:41 25.7 Lat: 38.13N Lon: 9.60W Depth: 4F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HN	125	104	ES		042	0.41	-0.08							1.0
MESJ	HN	125	104	AML		042	2.83		4	0.3					
MESJ	HZ	125	104	EP		041	45.87	0.08							1.0

October 6 2013 Hour: 1:3 2.4 Lat: 35.30N Lon: 9.34W Depth: 30F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	231	15	EP		1 3	33.79	-0.14							1.0
MORF	HN	231	15	ES		1 3	56.92	-0.04							1.0
MORF	HE	231	15	AML		1 3	58.39		10	0.1					
MESJ	HZ	299	19	EP		1 3	42.44	0.09							1.0
MESJ	HE	299	19	ES		1 4	11.63	0.10							1.0
MESJ	HN	299	19	AML		1 4	13.77		7	0.1					

October 6 2013 Hour: 1:37 20.2 Lat: 45.64N Lon: 26.69E Depth:134F Agency: IGL Distant
Magnitudes: 4.5MB IGL Rms: 0.2 secs

ROMANIA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3003	266	EP		142	49.92	0.22							1.0
MESJ	BZ	3003	266	AMb		142	51.95		31	1.7					
MESJ	BN	3003	266	ES		147	18.02	-0.21							1.0
MORF	BN	3065	265	ES		147	27.03	-0.01							1.0

October 6 2013 Hour: 16:38 8.6 Lat: 12.28N Lon: 141.69E Depth:104F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.1 secs

MARIANA ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ13626	333	EPP			1658	28.87	-0.06							1.0
GGNV	BE13626	333	AMS			1745	53.59		2712	19.3					
MESJ	BZ13659	332	EPKpdf			1656	51.86	-0.06							1.0
MESJ	BZ13659	332	EPP			1658	31.05	0.08							1.0
MESJ	BE13659	332	ESS			1715	6.64	0.01							1.0
MESJ	BZ13659	332	AMS			1757	27.86		1055	16.8					
MORF	BZ13729	332	EPKpdf			1656	53.31	0.13							1.0
MORF	BZ13729	332	EPP			1658	35.29	0.00							1.0
MORF	BE13729	332	ESS			1715	14.63	-0.10							1.0
MORF	BZ13729	332	AMS			1758	13.30		967	10.6					

October 8 2013 Hour: 0:37 42.6 Lat: 36.56N Lon: 7.60W Depth: 17F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	312	EP		038	1.78	-0.21							1.0
MESJ	HZ	152	339	EP		038	5.41	0.06							1.0
MESJ	HE	152	339	ES		038	22.09	0.16							1.0
MESJ	HN	152	339	AML		038	25.72		7	0.2					

**October 8 2013 Hour: 10:54 30.2 Lat: 36.84N Lon: 8.31W Depth: 10F Agency: IGL Regional
Magnitudes: 1.3ML 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	60	330	EP		1054	39.88	-0.16							1.0
MORF	HN	60	330	ES		1054	47.52	0.31							1.0
MORF	HN	60	330	AML		1054	50.33			20	0.3				
MESJ	HZ	111	4	EP		1054	47.71	-0.15							1.0
MESJ	HN	111	4	ES		1055	0.74	0.00							1.0
MESJ	HN	111	4	AML		1055	3.98			5	0.1				

**October 8 2013 Hour: 21:47 46.5 Lat: 38.85N Lon: 8.34W Depth: 2F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.2 secs**

SW MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	113	175	EP		2148	4.91	0.22							1.0
MESJ	HE	113	175	ES		2148	17.73	-0.22							1.0
MESJ	HE	113	175	AML		2148	19.25			3	0.3				

**October 9 2013 Hour: 1: 8 59.5 Lat: 36.58N Lon: 7.54W Depth: 25F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs**

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	152	337	EP		1 9	21.64	0.02							1.0
MESJ	HN	152	337	ES		1 9	37.71	-0.02							1.0
MESJ	HN	152	337	AML		1 9	40.66			4	0.2				

**October 9 2013 Hour: 17: 3 46.4 Lat: 22.12S Lon: 67.16W Depth:155FAgency: IGL Distant
Magnitudes: 4.9MB IGL Rms: 0.1 secs**

POTOSI, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8988	44	EP		1715	42.95	0.13							1.0
MORF	BZ	8988	44	AMb		1715	48.60			81	2.4				
MESJ	BZ	9054	43	EP		1715	45.76	-0.13							1.0
MESJ	BZ	9054	43	AMb		1715	48.67			61	1.9				

**October 9 2013 Hour: 23:17 52.6 Lat: 36.96N Lon: 8.80W Depth: 24F 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
MESJ	HZ	110	28	EP		2318	9.46	-0.01							1.0
MESJ	HN	110	28	ES		2318	21.83	0.01							1.0
MESJ	HE	110	28	AML		2318	24.37			1	0.2				

**October 10 2013 Hour: 3:32 22.7 Lat: 20.90S Lon: 67.21W Depth:200FAgency: IGL Distant
Magnitudes: 4.6MB IGL Rms: 0.1 secs**

POTOSI, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8894	44	EP		344	9.45	-0.07							1.0
MORF	BZ	8894	44	AMb		344	14.30			41	1.6				
MESJ	BZ	8959	43	EP		344	12.67	0.07							1.0
MESJ	BZ	8959	43	AMb		344	16.13			18	1.2				

**October 10 2013 Hour: 3:52 19.9 Lat: 37.70N Lon: 9.06W Depth: 26F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs**

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	57	140	EP		352	29.63	0.07							1.0
MORF	HN	57	140	ES		352	36.56	-0.05							1.0
MORF	HN	57	140	AML		352	37.51			35	0.2				
MESJ	HN	76	78	ES		352	41.09	-0.02							1.0
MESJ	HN	76	78	AML		352	43.74			5	0.2				

October 11 2013 Hour: 14:42 14.8 Lat: 36.87N Lon: 11.09W Depth: 10F Agency: IGL Regional
Magnitudes: 2.2ML 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	222	77	EP		1442	46.86	0.02							1.0
MORF	HN	222	77	ES		1443	10.23	-0.02							1.0
MORF	HN	222	77	AML		1443	13.05			15	0.2				

October 11 2013 Hour: 21:24 58.7 Lat: 30.75S Lon: 178.44W Depth: 146F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.1 secs

KERMADEC ISLANDS, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	18701	45	EPKpdf		2144	47.27	0.13							1.0
GGNV	BZ	18701	45	AMS		2259	34.44			1414	19.9				
MESJ	BZ	18826	46	EPKpdf		2144	47.91	-0.01							1.0
MESJ	BZ	18826	46	EPP		2149	51.35	0.10							1.0
MESJ	BE	18826	46	ESS		2210	35.53	-0.02							1.0
MESJ	BZ	18826	46	AMS		23 2	30.69			766	27.3				
MORF	BZ	18830	50	EPKpdf		2144	47.97	-0.03							1.0
MORF	BZ	18830	50	EPP		2149	51.36	-0.15							1.0
MORF	BN	18830	50	ESS		2210	36.02	-0.02							1.0
MORF	BE	18830	50	AMS		23 0	40.26			868	18.6				

October 11 2013 Hour: 22:57 33.5 Lat: 36.67N Lon: 10.61W Depth: 27F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	188	67	EP		2258	0.00	0.04							1.0
MORF	HE	188	67	ES		2258	19.16	-0.08							1.0
MORF	HN	188	67	AML		2258	20.90			26	0.2				
MESJ	HZ	249	58	EP		2258	7.43	0.00							1.0
MESJ	HN	249	58	ES		2258	32.21	0.04							1.0
MESJ	HN	249	58	AML		2258	34.35			8	0.2				

October 12 2013 Hour: 2:10 30.5 Lat: 10.88N Lon: 62.28W Depth: 79F Agency: IGL Distant
Magnitudes: 5.7MB IGL Rms: 0.2 secs

OFFSHORE SUCRE, VENEZUELA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	6089	50	EP		219	51.66	0.04							1.0
GGNV	BZ	6089	50	AMb		219	53.80			415	0.9				
GGNV	BN	6089	50	ES		227	26.51	-0.11							1.0
MORF	BZ	6090	52	EP		219	52.04	0.22							1.0
MORF	BZ	6090	52	AMb		219	54.78			379	1.5				
MORF	BN	6090	52	ES		227	27.09	0.11							1.0
MESJ	BZ	6142	51	EP		219	55.10	-0.01							1.0
MESJ	BZ	6142	51	AMb		219	58.99			119	1.9				
MESJ	BE	6142	51	ES		227	32.83	-0.26							1.0

October 12 2013 Hour: 2:44 26.3 Lat: 36.53N Lon: 9.78W Depth: 16F 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	132	49	EP		244	46.77	0.13							1.0
MORF	HN	132	49	ES		245	1.34	-0.17							1.0
MORF	HN	132	49	AML		245	3.72			5	0.2				
MESJ	HZ	201	43	EP		244	55.15	0.06							1.0
MESJ	HN	201	43	ES		245	16.12	-0.01							1.0
MESJ	HN	201	43	AML		245	18.90			1	0.1				

October 12 2013 Hour: 13:11 54.0 Lat: 35.56N Lon: 23.31E Depth: 47F Agency: IGL Distant
Magnitudes: 6.1MB IGL Rms: 0.1 secs

CRETE, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2816	285	EP		1317	16.30	0.00							1.0
MESJ	BZ	2816	285	AMb		1317	43.15			1057	2.0				
MESJ	BN	2816	285	ES		1321	40.08	0.05							1.0
MORF	BZ	2859	283	EP		1317	19.65	-0.23							1.0
MORF	BZ	2859	283	AMb		1317	49.87			599	1.5				
MORF	BN	2859	283	ES		1321	46.28	-0.01							1.0
GGNV	BZ	2890	287	EP		1317	22.56	0.22							1.0
GGNV	BZ	2890	287	AMb		1317	53.13			1637	1.7				
GGNV	BN	2890	287	ES		1321	50.56	-0.02							1.0

October 12 2013 Hour: 15:43 18.4 Lat: 38.80N Lon: 8.05W Depth: 17F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NW ARRAILOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	108	188	EP		1543	35.30	-0.07							1.0
MESJ	HE	108	188	ES		1543	47.86	0.07							1.0
MESJ	HE	108	188	AML		1543	48.87			5	0.1				

October 12 2013 Hour: 19:29 14.0 Lat: 37.34N Lon: 8.75W Depth: 16F Agency: IGL Regional
Magnitudes: 2.9ML 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	10	113	EP		1929	16.99	-0.07							1.0
MORF	HN	10	113	ES		1929	19.19	-0.09							1.0
MORF	HN	10	113	AML		1929	19.60			7028	0.1				
MESJ	HZ	73	40	EP		1929	25.93	0.21							1.0
MESJ	HN	73	40	ES		1929	34.22	-0.04							1.0
MESJ	HN	73	40	AML		1929	36.78			205	0.4				

October 13 2013 Hour: 1:11 50.3 Lat: 36.85N Lon: 8.53W Depth: 22F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	52	348	EP		111	59.21	0.03							1.0
MORF	HN	52	348	ES		112	5.72	0.09							1.0
MORF	HN	52	348	AML		112	7.93			7	0.1				
MESJ	HN	113	14	ES		112	20.35	-0.13							1.0
MESJ	HN	113	14	AML		112	22.21			2	0.4				

October 13 2013 Hour: 1:17 54.1 Lat: 36.45N Lon: 70.72E Depth: 206F Agency: IGL Distant
Magnitudes: 4.8MB IGL Rms: 0.0 secs

HINDU KUSH REGION, AFGHANISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6790	297	EP		127	46.32	0.04							1.0
MESJ	BZ	6790	297	AMb		127	47.80			74	1.1				
MORF	BZ	6850	297	EP		127	49.92	-0.04							1.0
MORF	BZ	6850	297	AMb		127	52.36			47	1.9				

October 13 2013 Hour: 3:22 23.2 Lat: 37.90N Lon: 9.07W Depth: 8F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	75	95	EP		322	35.37	-0.05							1.0
MESJ	HN	75	95	ES		322	44.47	0.16							1.0
MESJ	HN	75	95	AML		322	46.43			2	0.2				
MORF	HZ	76	151	EP		322	35.28	-0.22							1.0
MORF	HE	76	151	ES		322	44.57	0.11							1.0
MORF	HN	76	151	AML		322	47.43			5	0.2				

October 13 2013 Hour: 7:34 7.0 Lat: 63.75N Lon: 22.65W Depth: 10F Agency: IGL Distant
Magnitudes: 4.3MS IGL Rms: 0.1 secs

ICELAND REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3038	155	EP		739	52.05	0.09							1.0
MESJ	BN	3038	155	ES		744	32.66	0.01							1.0
MESJ	BN	3038	155	AMS		749	8.62			943	24.5				
MORF	BZ	3086	156	EP		739	55.89	-0.03							1.0
MORF	BN	3086	156	ES		744	39.53	-0.07							1.0
MORF	BN	3086	156	AMS		749	3.65			1095	23.5				

October 13 2013 Hour: 9:53 13.2 Lat: 34.63N Lon: 6.11W Depth: 3F Agency: IGL Regional
Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	375	323	EP		954	5.16	0.16							1.0
MESJ	HZ	403	333	EP		954	8.32	-0.17							1.0

October 13 2013 Hour: 10:30 20.9 Lat: 37.24N Lon: 7.90W Depth: 13F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NW S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	67	277	EP		1030	31.58	-0.15							1.0
MORF	HE	67	277	ES		1030	39.72	0.07							1.0
MORF	HN	67	277	AML		1030	42.72			6	0.1				
MESJ	HZ	72	337	EP		1030	32.45	-0.06							1.0
MESJ	HE	72	337	ES		1030	41.14	0.14							1.0
MESJ	HE	72	337	AML		1030	44.05			4	0.1				

October 13 2013 Hour: 14:50 41.4 Lat: 36.64N Lon: 7.44W Depth: 19F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	150	333	EP		1451	3.47	-0.15							1.0
MESJ	HE	150	333	ES		1451	20.03	0.15							1.0
MESJ	HN	150	333	AML		1451	22.36			7	0.2				

October 13 2013 Hour: 17:32 45.8 Lat: 4.02N Lon: 96.01E Depth: 51F Agency: IGL Distant
Magnitudes: 4.7MS IGL Rms: 0.0 secs

NORTHERN SUMATRA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10989	309	EP			1746	19.44	0.00							1.0
MESJ	BZ10989	309	AMS			1834	44.58			324	26.3				

October 13 2013 Hour: 18:22 16.4 Lat: 37.77N Lon: 9.08W Depth: 5F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	64	143	EP		1822	26.87	0.07							1.0
MESJ	HZ	76	84	EP		1822	28.76	0.01							1.0
MESJ	HE	76	84	ES		1822	37.66	-0.08							1.0
MESJ	HE	76	84	AML		1822	40.74			8	0.3				

October 14 2013 Hour: 10:42 36.4 Lat: 35.74N Lon: 4.77W Depth: 10F 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
MESJ	HZ	386	308	EP		1043	28.84	0.08							1.0
MESJ	HN	386	308	ES		1044	6.95	-0.06							1.0
MESJ	HN	386	308	AML		1044	9.78			3	0.1				
MORF	HZ	389	298	EP		1043	29.04	-0.06							1.0
MORF	HN	389	298	ES		1044	7.63	0.03							1.0
MORF	HN	389	298	AML		1044	9.68			9	0.1				

October 14 2013 Hour: 11:35 47.7 Lat: 37.63N Lon: 8.36W Depth: 15F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.2 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	28	EP		1135	52.71	0.21							1.0
MESJ	HN	26	28	ES		1135	55.94	-0.09							1.0
MESJ	HN	26	28	AML		1135	56.85			3	0.2				
MORF	HZ	44	216	EP		1135	54.97	-0.13							1.0

October 14 2013 Hour: 12:32 37.2 Lat: 37.38N Lon: 8.52W Depth: 12F Agency: IGL Regional
Magnitudes: 2.0ML 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	14	235	EP		1232	40.25	-0.04							1.0
MORF	HN	14	235	ES		1232	42.52	0.00							1.0
MORF	HN	14	235	AML		1232	43.70			543	0.3				
MESJ	HZ	58	27	EP		1232	46.79	0.17							1.0
MESJ	HE	58	27	ES		1232	53.35	-0.12							1.0
MESJ	HN	58	27	AML		1232	54.18			77	0.2				

October 14 2013 Hour: 13:33 28.7 Lat: 32.35N Lon: 7.77W Depth: 2F Agency: IGL Regional
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	556	352	EP		1334	42.80	0.12							1.0

October 14 2013 Hour: 16:36 58.9 Lat: 37.06N Lon: 8.17W Depth: 11F 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	51	303	EP		1637	7.40	0.11							1.0
MORF	HN	51	303	ES		1637	13.31	-0.11							1.0
MORF	HN	51	303	AML		1637	15.04			5	0.2				

October 14 2013 Hour: 17:9 58.2 Lat: 37.36N Lon: 8.87W Depth: 0 Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.2 secs

NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	20	107	EP		1710	1.67	0.19							1.0
MORF	HN	20	107	ES		1710	3.68	-0.19							1.0
MORF	HN	20	107	AML		1710	4.27			20	0.1				

October 15 2013 Hour: 0:12 33.0 Lat: 9.87N Lon: 124.01E Depth: 20F Agency: IGL Distant
Magnitudes: 7.0MS IGL Rms: 0.1 secs

BOHOL, PHILIPPINES Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12785	320	EPdif			027	22.45	0.04							1.0
MESJ	BZ12785	320	EPKpdf			031	12.14	0.05							1.0
MESJ	BZ12785	320	EPP			032	10.62	0.03							1.0
MESJ	BN12785	320	ESS			048	6.21	0.00							1.0
MESJ	BN12785	320	AMS			121	17.69			34269	25.5				
GGNV	BZ12791	321	EPdif			027	22.70	0.06							1.0
GGNV	BZ12791	321	EPP			032	11.01	0.05							1.0
GGNV	BN12791	321	ESS			048	6.95	0.05							1.0
GGNV	BZ12791	321	AMS			127	32.64			47417	19.0				
MORF	BZ12851	320	EPdif			027	24.97	-0.12							1.0
MORF	BZ12851	320	EPKpdf			031	13.24	-0.04							1.0
MORF	BZ12851	320	EPP			032	14.68	-0.13							1.0
MORF	BE12851	320	AMS			123	45.44			39939	25.8				

October 15 2013 Hour: 21:32 48.9 Lat: 36.57N Lon: 9.78W Depth: 24F Agency: IGL Regional
Magnitudes: 2.2ML 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	130	51	EP		2133	8.24	-0.02							1.0
MORF	HE	130	51	ES		2133	22.49	0.11							1.0
MORF	HN	130	51	AML		2133	23.63			51	0.1				
MESJ	HZ	198	44	EP		2133	16.72	0.05							1.0
MESJ	HN	198	44	ES		2133	36.80	-0.13							1.0
MESJ	HN	198	44	AML		2133	39.05			17	0.3				

October 16 2013 Hour: 10:31 0.9 Lat: 6.49S Lon: 154.93E Depth: 54F Agency: IGL Distant
Magnitudes: 6.8MS IGL Rms: 0.1 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16122	338	EPK	pdf		1050	30.88	-0.21							1.0
GGNV	BZ16122	338	EPP			1053	49.49	0.03							1.0
GGNV	BN16122	338	AMS			1155	25.26			17186	24.9				
MESJ	BZ16167	336	EPK	pdf		1050	31.87	0.06							1.0
MESJ	BZ16167	336	EPP			1053	51.79	-0.12							1.0
MESJ	BN16167	336	ESS			1112	40.02	0.03							1.0
MESJ	BZ16167	336	AMS			1155	34.05			17399	26.6				
MORF	BZ16237	336	EPK	pdf		1050	33.15	0.22							1.0
MORF	BZ16237	336	AMS			1159	36.35			24160	17.4				

October 16 2013 Hour: 17:33 43.8 Lat: 36.66N Lon: 11.18W Depth: 14F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	236	72	EP		1734	17.18	-0.06							1.0
MORF	HN	236	72	ES		1734	41.70	0.05							1.0
MORF	HN	236	72	AML		1734	44.01			33	0.2				
MESJ	HZ	293	63	EP		1734	24.18	-0.12							1.0
MESJ	HE	293	63	ES		1734	53.99	0.12							1.0
MESJ	HN	293	63	AML		1734	56.99			9	0.2				

October 17 2013 Hour: 3:51 51.5 Lat: 35.62N Lon: 4.65W Depth: 16F 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	403	309	EP		352	45.29	-0.10							1.0
MESJ	HE	403	309	ES		353	24.85	0.11							1.0
MESJ	HN	403	309	AML		353	27.01			2	0.2				
MORF	HZ	404	299	EP		352	45.53	-0.08							1.0
MORF	HE	404	299	ES		353	25.19	0.07							1.0
MORF	HN	404	299	AML		353	26.57			3	0.2				

October 17 2013 Hour: 14: 5 7.6 Lat: 36.44N Lon: 9.90W Depth: 30F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	147	49	EP		14 5	28.77	0.09							1.0
MORF	HE	147	49	ES		14 5	43.97	-0.13							1.0
MORF	HN	147	49	AML		14 5	46.31			20	0.0				
MESJ	HZ	215	43	EP		14 5	37.23	0.10							1.0
MESJ	HE	215	43	ES		14 5	58.67	-0.05							1.0
MESJ	HN	215	43	AML		14 6	1.43			8	0.2				

October 17 2013 Hour: 21:40 32.4 Lat: 36.06N Lon: 4.61W Depth: 72F Agency: IGL Regional
Magnitudes: 3.0ML IGL Rms: 0.3 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	377	303	EP		2141	21.80	0.13							1.0
MESJ	HN	377	303	ES		2141	58.04	0.41							1.0
MESJ	HN	377	303	AML		2142	0.39			33	0.1				
MORF	HZ	387	292	EP		2141	22.55	-0.28							1.0
MORF	HE	387	292	ES		2141	59.37	-0.26							1.0
MORF	HN	387	292	AML		2142	2.98			52	0.1				

October 18 2013 Hour: 17:36 6.6 Lat: 36.01N Lon: 12.31W Depth: 30F Agency: IGL Regional
Magnitudes: 3.5ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	357	65	EP		1736	53.89	0.00							1.0
MORF	HN	357	65	ES		1737	28.38	0.01							1.0
MORF	HN	357	65	AML		1737	28.90			283	0.4				
MESJ	HZ	417	60	EP		1737	1.25	0.06							1.0
MESJ	HE	417	60	ES		1737	40.93	-0.08							1.0
MESJ	HN	417	60	AML		1737	46.84			52	0.0				

October 19 2013 Hour: 0:19 18.2 Lat: 36.23N Lon: 9.73W Depth: 30F Agency: IGL Regional
Magnitudes: 4.4ML IGL Rms: 0.3 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	153	39	EP		019	40.19	0.04							1.0
MORF	HN	153	39	ES		019	55.67	-0.47							1.0
MORF	HN	153	39	AML		019	56.66			4501	0.2				
MESJ	HZ	224	36	EP		019	48.88	0.06							1.0
MESJ	HN	224	36	ES		020	11.35	0.21							1.0
MESJ	HN	224	36	AML		020	13.37			1851	0.3				
GGNV	HZ	281	10	EP		019	55.79	-0.12							0.9
GGNV	HE	281	10	ES		020	23.72	0.32							0.9
GGNV	HN	281	10	AML		020	29.50			2898	0.3				

October 19 2013 Hour: 5:36 28.4 Lat: 38.02N Lon: 8.43W Depth: 0 Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.2 secs

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	27	137	EP		536	32.66	-0.17							1.0
MESJ	HN	27	137	ES		536	35.91	-0.13							1.0
MESJ	HE	27	137	AML		536	37.60			21	0.1				
MORF	HZ	82	194	EP		536	41.91	0.32							1.0
MORF	HN	82	194	ES		536	51.20	0.00							1.0
MORF	HN	82	194	AML		536	53.85			27	0.2				

October 19 2013 Hour: 17:54 56.9 Lat: 26.27N Lon: 110.18W Depth: 8F Agency: IGL Distant
Magnitudes: 7.0MS IGL Rms: 0.2 secs

GULF OF CALIFORNIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9118	51	EP		18 7	17.62	0.11							1.0
GGNV	BN	9118	51	ES		1817	32.67	0.17							1.0
GGNV	BN	9118	51	AMS		1837	2.60			78825	22.4				
MORF	BZ	9229	52	EP		18 7	22.65	-0.16							1.0
MORF	BN	9229	52	ES		1817	42.50	-0.36							1.0
MORF	BZ	9229	52	AMS		1842	48.87			50490	18.8				
MESJ	BZ	9235	51	EP		18 7	23.03	-0.01							1.0
MESJ	BN	9235	51	ES		1817	43.57	0.25							1.0
MESJ	BZ	9235	51	AMS		1842	38.66			59434	17.7				

**October 19 2013 Hour: 20:51 9.8 Lat: 36.34N Lon: 9.87W Depth: 31F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	153	45	EP		2051	30.76	-0.01							1.0
MORF	HN	153	45	ES		2051	46.03	-0.09							1.0
MORF	HN	153	45	AML		2051	47.93			14	0.2				
MESJ	HZ	222	41	EP		2051	39.29	-0.03							1.0
MESJ	HN	222	41	ES		2052	1.05	0.14							1.0
MESJ	HN	222	41	AML		2052	2.90			6	0.3				

**October 20 2013 Hour: 0:35 8.8 Lat: 42.33N Lon: 8.44W Depth: 5F Agency: IGL Regional
Rms: 0.0 secs**

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	498	178	EP		036	15.39	-0.03							1.0
MORF	HZ	557	182	EP		036	22.64	0.03							1.0

**October 20 2013 Hour: 12:27 9.1 Lat: 36.37N Lon: 9.74W 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	HZ	142	43	EP		1227	29.46	-0.11							1.0
MORF	HE	142	43	ES		1227	44.35	-0.14							1.0
MORF	HN	142	43	AML		1227	47.33			14	0.4				
MESJ	HZ	212	39	EP		1227	38.33	0.16							1.0
MESJ	HE	212	39	ES		1227	59.49	0.11							1.0
MESJ	HN	212	39	AML		1228	1.96			4	0.2				

**October 20 2013 Hour: 19:45 5.3 Lat: 35.78N Lon: 77.41E Depth: 75F Agency: IGL Distant
Magnitudes: 4.9MB IGL Rms: 0.0 secs**

KASHMIR-XINJIANG BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7353	300	EP		1955	44.80	0.01							1.0
MESJ	BZ	7353	300	AMB		1955	46.23			29	1.1				

**October 21 2013 Hour: 2:27 19.3 Lat: 35.33N Lon: 76.98E Depth: 97F Agency: IGL Distant
Magnitudes: 5.0MB IGL Rms: 0.1 secs**

KASHMIR-XINJIANG BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7345	300	EP		237	55.76	-0.07							1.0
MESJ	BZ	7345	300	AMB		238	3.84			46	1.2				
MESJ	BN	7345	300	ES		246	36.98	0.07							1.0

**October 21 2013 Hour: 4:15 7.0 Lat: 22.88S Lon: 174.89W Depth: 24F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.0 secs**

TONGA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17936	35	EP	KPdf		421	54.80	0.04							1.0
MESJ	BZ17936	35	AMS			529	18.98			701	14.9				
MORF	BZ17954	36	EP	KPdf		421	54.94	-0.04							1.0
MORF	BZ17954	36	AMS			530	45.55			872	17.0				

**October 22 2013 Hour: 9:35 23.8 Lat: 37.66N Lon: 18.51W Depth: 0 Agency: IGL Regional
Magnitudes: 3.7ML IGL Rms: 0.0 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	872	90	EP		937	15.75	0.00							1.0
MORF	HN	872	90	ES		938	37.51	0.04							1.0
MORF	HN	872	90	AML		938	46.46			50	0.2				
MESJ	HN	907	86	ES		938	44.33	-0.04							1.0
MESJ	HN	907	86	AML		938	49.89			41	0.3				

October 22 2013 Hour: 21:15 51.6 Lat: 6.38S Lon: 154.98E Depth: 50F Agency: IGL Distant
Rms: 0.0 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16158	336	EPK	pdf		2135	22.94	0.03							1.0

October 23 2013 Hour: 8:23 30.0 Lat: 23.01S Lon: 177.18W Depth: 155F Agency: IGL Distant
Rms: 0.0 secs

SOUTH OF FIJI ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18073	30	EPK	pdf		843	12.54	0.04							1.0
MORF	BZ18098	32	EPK	pdf		843	12.74	-0.04							1.0

October 23 2013 Hour: 12:21 0.7 Lat: 35.08N Lon: 4.32W Depth: 0 Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.3 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	461	304	EP		1222	3.28	-0.12							1.0
MESJ	HZ	465	312	EP		1222	3.53	-0.25							1.0
MESJ	HE	465	312	ES		1222	50.20	0.37							1.0
MESJ	HE	465	312	AML		1222	57.48			9	0.6				

October 23 2013 Hour: 13:57 32.0 Lat: 35.33N Lon: 9.34W Depth: 31F Agency: IGL Regional
Magnitudes: 4.7ML 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	228	16	EP		1358	2.15	-0.19							1.0
MORF	HE	228	16	ES		1358	24.66	0.16							1.0
MORF	HE	228	16	AML		1358	27.12			4562	0.4				
MESJ	HZ	296	19	EP		1358	10.58	-0.18							1.0
MESJ	HE	296	19	ES		1358	39.13	0.05							1.0
MESJ	HN	296	19	AML		1358	42.36			2985	0.4				
GGNV	HZ	376	3	EP		1358	20.55	-0.14							0.9
GGNV	HE	376	3	ES		1358	56.55	0.31							0.9
GGNV	HN	376	3	AML		1358	57.64			3546	0.4				

October 24 2013 Hour: 0:25 45.6 Lat: 31.00S Lon: 178.27W Depth: 35F Agency: IGL Distant
Magnitudes: 5.5MS IGL Rms: 0.1 secs

KERMADEC ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18832	48	EPK	pdf		045	48.65	0.07							1.0
MESJ	BZ18832	48	AMS			2 4	10.85			581	15.2				
MORF	BZ18835	51	EPK	pdf		045	48.57	-0.07							1.0
MORF	BE18835	51	AMS			2 0	47.92			606	21.9				

October 24 2013 Hour: 2:42 3.2 Lat: 37.70N Lon: 9.27W Depth: 0 Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SW SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	70	128	EP		242	14.39	-0.07							1.0
MORF	HN	70	128	ES		242	22.53	-0.18							1.0
MORF	HN	70	128	AML		242	24.73			11	0.2				
MESJ	HZ	94	80	EP		242	18.48	0.19							1.0
MESJ	HE	94	80	ES		242	29.40	0.06							1.0
MESJ	HN	94	80	AML		242	31.96			6	0.4				

October 25 2013 Hour: 1:12 15.2 Lat: 36.56N Lon: 11.14W Depth: 20F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	237	69	EP		112	48.02	-0.12							1.0
MORF	HN	237	69	ES		113	12.32	0.11							1.0
MORF	HN	237	69	AML		113	14.59			19	0.2				

MESJ HZ	296	60	EP	112	55.37	-0.04												1.0
MESJ HN	296	60	ES	113	24.85	0.05												1.0
MESJ HE	296	60	AML	113	28.73					4	0.2							

**October 25 2013 Hour: 17:10 18.0 Lat: 37.15N Lon: 144.68E Depth: 26F Agency: IGL Distant
Magnitudes: 7.4MS IGL Rms: 0.1 secs**

OFF EAST COAST OF HONSHU, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ11202	339	EP			1724	3.85	0.05							1.0
GGNV	BZ11202	339	EPP			1728	11.29	-0.13							1.0
GGNV	BE11202	339	ESS			1742	38.83	0.19							1.0
GGNV	BN11202	339	AMS			1813	59.45		187000	24.0					
MESJ	BZ11262	338	EP			1724	6.26	-0.01							1.0
MESJ	BZ11262	338	EPP			1728	15.47	-0.12							1.0
MESJ	BN11262	338	ESKSac			1734	43.61	-0.05							1.0
MESJ	BE11262	338	ESS			1742	46.50	0.18							1.0
MESJ	BN11262	338	AMS			18 7	57.50		94742	19.3					
MORF	BZ11332	339	EP			1724	9.05	-0.03							1.0
MORF	BZ11332	339	EPP			1728	20.19	-0.13							1.0
MORF	BE11332	339	ESS			1742	55.08	0.06							1.0
MORF	BE11332	339	AMS			18 8	4.97		112000	20.0					

**October 25 2013 Hour: 18: 8 27.5 Lat: 36.09N Lon: 10.52W Depth: 32F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.2 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	215	51	EP		18 8	57.03	0.03							1.0
MORF	HE	215	51	ES		18 9	18.27	-0.24							1.0
MORF	HN	215	51	AML		18 9	21.91		132	0.3					
MESJ	HZ	282	46	EP		18 9	5.32	-0.03							1.0
MESJ	HN	282	46	ES		18 9	33.20	0.25							1.0
MESJ	HN	282	46	AML		18 9	35.90		40	0.5					

**October 26 2013 Hour: 2:36 22.6 Lat: 36.69N Lon: 8.19W Depth: 12F 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	80	329	EP		236	35.48	0.12							1.0
MORF	HE	80	329	ES		236	44.57	-0.12							1.0
MORF	HE	80	329	AML		236	46.12		25	0.1					

**October 26 2013 Hour: 3:18 27.8 Lat: 38.03N Lon: 8.40W Depth: 6F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs**

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	26	143	EP		318	32.15	-0.06							1.0
MESJ	HE	26	143	ES		318	35.36	-0.05							1.0
MESJ	HE	26	143	AML		318	35.71		221	0.2					
MORF	HZ	83	195	EP		318	41.45	0.13							1.0
MORF	HN	83	195	ES		318	51.14	-0.01							1.0
MORF	HN	83	195	AML		318	54.02		168	0.1					

**October 26 2013 Hour: 18: 2 53.4 Lat: 36.63N Lon: 6.18W Depth: 39F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	225	307	EP		18 3	24.23	0.09							1.0
MESJ	HN	225	307	ES		18 3	46.53	-0.07							1.0
MESJ	HN	225	307	AML		18 3	47.81		3	0.1					
MORF	HN	232	290	ES		18 3	48.13	-0.02							1.0
MORF	HE	232	290	AML		18 3	50.22		4	0.2					

October 26 2013 Hour: 19: 6 12.9 Lat: 38.79N Lon: 7.97W Depth: 4F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.2 secs

NE ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HE	108	192	ES		19 6	43.27	0.25							1.0
MESJ	HE	108	192	AML		19 6	44.43			16	0.2				
MORF	HZ	175	200	EP		19 6	39.44	-0.34							1.0
MORF	HN	175	200	ES		19 6	59.45	0.07							1.0
MORF	HN	175	200	AML		19 7	4.35			22	0.3				

October 27 2013 Hour: 3:32 7.6 Lat: 37.04N Lon: 13.52W Depth: 28F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.2 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	433	85	EP		333	4.35	0.12							1.0
MORF	HN	433	85	ES		333	45.37	-0.21							1.0
MORF	HN	433	85	AML		333	46.91			16	0.2				
MESJ	HZ	477	78	EP		333	9.61	0.10							1.0

October 27 2013 Hour: 5:25 4.9 Lat: 37.15N Lon: 13.25W Depth: 9F Agency: IGL Regional
Magnitudes: 2.1ML 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	86	EP		526	0.14	-0.14							1.0
MORF	HN	409	86	ES		526	40.67	0.00							1.0
MORF	HN	409	86	AML		526	44.24			5	0.2				
MESJ	HZ	451	79	EP		526	5.60	0.14							1.0

October 27 2013 Hour: 15:28 21.7 Lat: 8.32N Lon: 82.52W Depth: 57F Agency: IGL Distant
Magnitudes: 5.1MB IGL Rms: 0.1 secs

PANAMA-COSTA RICA BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8076	53	EP		1539	43.10	0.10							1.0
MESJ	BZ	8076	53	AMB		1539	59.08			36	0.9				

October 27 2013 Hour: 16:25 22.2 Lat: 36.54N Lon: 9.75W Depth: 14F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	130	49	EP		1625	42.38	-0.02							1.0
MORF	HN	130	49	ES		1625	57.03	-0.12							1.0
MORF	HN	130	49	AML		1625	59.61			7	0.1				
MESJ	HZ	198	43	EP		1625	50.87	0.00							1.0
MESJ	HN	198	43	ES		1626	11.95	0.15							1.0
MESJ	HE	198	43	AML		1626	14.09			2	0.1				

October 27 2013 Hour: 20:53 34.7 Lat: 36.93N Lon: 8.68W Depth: 21F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	4	EP		2053	42.18	0.11							1.0
MORF	HN	42	4	ES		2053	47.41	-0.05							1.0
MORF	HE	42	4	AML		2053	49.62			15	0.3				
MESJ	HN	109	22	ES		2054	3.98	-0.06							1.0
MESJ	HE	109	22	AML		2054	4.47			2	0.1				

October 28 2013 Hour: 12:46 11.7 Lat: 37.30N Lon: 8.48W Depth: 15F Agency: IGL Regional
Magnitudes: 1.8ML 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	273	EP		1246	15.18	0.02							1.0
MORF	HE	15	273	ES		1246	17.69	0.03							1.0
MORF	HN	15	273	AML		1246	19.65			196	0.1				

MESJ HZ	64	21	EP	1246	22.22	0.05											1.0
MESJ HE	64	21	ES	1246	29.68	-0.11											1.0
MESJ HE	64	21	AML	1246	30.64				41	0.2							

October 29 2013 Hour: 13:51 17.9 Lat: 36.27N Lon: 7.80W Depth: 17F Agency: IGL Regional
Magnitudes: 2.4ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	138	327	EP			1351	38.64	-0.25							1.0
MORF HN	138	327	ES			1351	54.34	0.16							1.0
MORF HE	138	327	AML			1351	58.80		57	0.3					
MESJ HE	178	348	ES			1352	2.89	0.10							1.0
MESJ HN	178	348	AML			1352	10.14		39	0.1					

October 30 2013 Hour: 2:29 12.0 Lat: 35.32S Lon: 73.00W Depth: 13F Agency: IGL Distant
Rms: 0.0 secs

OFFSHORE MAULE, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ10422	46	EPP				246	13.33	-0.01							1.0
MESJ BZ10490	46	EPP				246	18.08	0.01							1.0

October 30 2013 Hour: 2:51 50.4 Lat: 35.30S Lon: 72.93W Depth: 18F Agency: IGL Distant
Magnitudes: 6.5MS IGL Rms: 0.1 secs

OFFSHORE MAULE, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ10416	46	EP				3 5	5.64	0.03							1.0
MORF BZ10416	46	EPP				3 8	50.53	-0.07							1.0
MORF BZ10416	46	AMS				346	0.27		15231	20.3					
MESJ BZ10484	46	EP				3 5	8.32	-0.02							1.0
MESJ BZ10484	46	EPP				3 8	55.22	-0.10							1.0
MESJ BN10484	46	ESS				322	41.99	-0.02							1.0
MESJ BZ10484	46	AMS				346	28.19		12317	14.4					
GGNV BZ10489	45	EP				3 5	8.58	0.07							1.0
GGNV BZ10489	45	EPP				3 8	55.68	-0.01							1.0
GGNV BE10489	45	ESKSac				315	42.73	0.13							1.0
GGNV BZ10489	45	AMS				348	33.83		19280	19.6					

October 30 2013 Hour: 7:13 35.3 Lat: 37.43N Lon: 5.72W Depth: 17F Agency: IGL Regional
Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ	225	282	EP			714	7.16	0.05							1.0
MORF HZ	260	268	EP			714	11.39	-0.05							1.0

October 31 2013 Hour: 12: 2 9.0 Lat: 23.59N Lon: 121.44E Depth: 12F Agency: IGL Distant
Magnitudes: 6.8MS IGL Rms: 0.1 secs

TAIWAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR BZ11352	322	EPdif				1216	2.80	-0.04							1.0
ALMR BZ11352	322	EPP				1220	14.32	0.00							1.0
ALMR BN11352	322	AMS				13 1	26.26		20096	15.1					
GGNV BZ11422	322	EPdif				1216	5.64	0.03							1.0
GGNV BZ11422	322	EPP				1220	18.94	-0.06							1.0
GGNV BZ11422	322	AMS				13 9	42.15		28076	15.8					
MESJ BZ11431	321	EPdif				1216	6.16	0.16							1.0
MESJ BZ11431	321	EPP				1220	19.55	-0.10							1.0
MESJ BN11431	321	ESS				1235	1.01	0.02							1.0
MESJ BN11431	321	AMS				13 0	39.73		21052	20.7					

**October 31 2013 Hour: 15: 8 36.3 Lat: 38.78N Lon: 7.97W Depth: 6F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs**

NE ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	67	309	EP		15	8	47.03	-0.13						1.0
ALMR	HE	67	309	ES		15	8	55.11	0.03						1.0
ALMR	HN	67	309	AML		15	8	56.73		33	0.6				
MESJ	HZ	107	192	EP		15	8	53.61	0.13						1.0
MESJ	HE	107	192	ES		15	9	5.99	-0.02						1.0
MESJ	HE	107	192	AML		15	9	7.81							7

**October 31 2013 Hour: 18:13 18.0 Lat: 37.38N Lon: 8.52W Depth: 10F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.0 secs**

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	14	235	EP		1813	20.88	0.00							1.0
MORF	HE	14	235	ES		1813	22.98	0.02							1.0
MORF	HN	14	235	AML		1813	23.67			586	0.1				
MESJ	HZ	58	27	EP		1813	27.47	0.03							1.0
MESJ	HE	58	27	ES		1813	34.26	-0.05							1.0
MESJ	HN	58	27	AML		1813	35.11			39	0.1				

**October 31 2013 Hour: 23: 4 2.7 Lat: 30.30S Lon: 71.56W Depth: 29F Agency: IGL Distant
Magnitudes: 6.7MS 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	9939	45	EP		2316	56.48	0.11							1.0
MORF	BZ	9939	45	AMS		2357	20.94			32254	20.1				
GGNV	BZ10006	44	EP			2316	58.99	-0.06							1.0
GGNV	BZ10006	44	AMS			2355	54.74			28687	20.6				
MESJ	BZ10006	45	EP			2316	59.27	0.15							1.0
MESJ	BZ10006	45	AMS			2354	55.19			25862	22.9				
ALMR	BZ10075	44	EP			2317	1.74	-0.21							1.0
ALMR	BZ10075	44	AMS			2356	13.43			27043	16.7				