

# Seismological Bulletin

from the

UNIVERSITY OF LISBON

## IDL Seismic Network

March to April

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

**March 1 2013 Hour: 1:34 19.8 Lat: 37.34N Lon: 8.66W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.0ML 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	168	EP		134	21.59	-0.20							1.0
MORF	HE	4	168	ES		134	23.30	0.07							1.0
MORF	HN	4	168	AML		134	23.66			90	0.2				
MESJ	HZ	68	35	EP		134	30.96	0.14							1.0

**March 1 2013 Hour: 5:25 8.0 Lat: 32.68N Lon: 5.46W Depth: 4F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL 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	590	331	EP		526	25.87	0.01							1.0
MESJ	HZ	625	337	EP		526	30.05	-0.01							1.0

**March 1 2013 Hour: 12:53 52.0 Lat: 50.94N Lon: 157.51E Depth: 41F Agency: IGL Distant**  
**Magnitudes: 5.6MB 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
GGNV	BZ	9994	350	EP		13	6	46.55	0.28						1.0
GGNV	BZ	9994	350	AMb		13	7	23.40		105	0.4				
GGNV	BZ	9994	350	EPP		1310	19.66	-0.17							1.0
MESJ	BZ10078	349	EP			13	6	49.92	0.09						1.0
MESJ	BZ10078	349	AMb			13	6	56.43		41	1.0				
MESJ	BZ10078	349	EPP			1310	25.75	-0.11							1.0
MORF	BZ10142	349	EP			13	6	52.58	0.00						1.0
MORF	BZ10142	349	AMb			13	6	59.62		47	1.8				
MORF	BZ10142	349	EPP			1310	30.41	-0.08							1.0

**March 1 2013 Hour: 13:20 50.6 Lat: 50.94N Lon: 157.48E Depth: 32F Agency: IGL Distant**  
**Magnitudes: 5.6MB 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
GGNV	BZ	9993	350	EP		1333	46.01	-0.02							1.0
GGNV	BZ	9993	350	AMb		1333	49.60			95	2.0				
MESJ	BZ10077	349	EP			1333	49.66	0.07							1.0
MESJ	BZ10077	349	AMb			1333	52.92			88	1.7				
MESJ	BZ10077	349	EPP			1337	25.48	0.03							1.0
MESJ	BN10077	349	ESKSac			1344	18.68	-0.12							1.0
MORF	BZ10141	349	EP			1333	52.47	0.14							1.0
MORF	BZ10141	349	AMb			1333	54.98			143	2.0				
MORF	BE10141	349	ESKSac			1344	22.12	-0.11							1.0

**March 1 2013 Hour: 13:55 11.3 Lat: 37.81N Lon: 8.29W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.2 secs**  
**SW ALJUSTREL, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	7	62	EP		1355	12.22	-0.20							1.0
MESJ	HN	7	62	ESg		1355	13.46	0.19							1.0
MESJ	HE	7	62	AML		1355	13.59			119	0.1				
MORF	HZ	64	210	EP		1355	21.80	0.16							1.0
MORF	HN	64	210	ES		1355	29.08	-0.14							1.0
MORF	HN	64	210	AML		1355	31.09			14	0.2				

**March 1 2013 Hour: 17:14 0.6 Lat: 21.36S Lon: 178.66W Depth: 534F Agency: IGL Distant**  
**Magnitudes: 1.1ML IGL Rms: 0.0 secs**  
**FIJI REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17983	25	EPKPdf			1732	59.70	0.04							1.0
MORF	BZ18015	26	EPKPdf			1732	59.96	-0.04							1.0

March 1 2013 Hour: 19:44 30.5 Lat: 36.54N Lon: 11.17W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.0 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	240	68	EP		1945	5.84	0.00							1.0
MORF	HE	240	68	ES		1945	31.59	-0.02							1.0
MORF	HN	240	68	AML		1945	33.98			6	0.2				
MESJ	HZ	299	60	EP		1945	13.13	0.00							1.0
MESJ	HN	299	60	ES		1945	44.24	0.01							1.0
MESJ	HN	299	60	AML		1945	48.41			3	0.2				

March 1 2013 Hour: 21:44 55.0 Lat: 37.73N Lon: 8.30W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.1ML IGL Rms: 0.0 secs

**NW OURIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	14	30	EP		2144	57.27	-0.02							1.0
MESJ	HE	14	30	ES		2144	58.97	0.02							1.0
MESJ	HE	14	30	AML		2144	59.51			9	0.1				

March 2 2013 Hour: 1:16 22.9 Lat: 37.09N Lon: 12.87W Depth: 30F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.4 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	376	85	EP		117	11.96	-0.40							1.0
MESJ	HZ	420	77	EP		117	18.29	0.54							1.0
MESJ	HN	420	77	ES		117	57.70	-0.11							1.0
MESJ	HN	420	77	AML		118	6.11			3	0.3				

March 2 2013 Hour: 1:30 39.0 Lat: 24.69N Lon: 92.22E Depth: 37F Agency: IGL Distant  
Magnitudes: 5.2MB IGL Rms: 0.0 secs

**INDIA-BANGLADESH BORDER REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9225	308	EP		143	0.18	0.03							1.0
MESJ	BZ	9225	308	AMB		143	3.43			49	2.0				
MORF	BZ	9285	308	EP		143	2.97	-0.03							1.0
MORF	BZ	9285	308	AMB		143	5.53			62	1.5				

March 2 2013 Hour: 2:12 10.7 Lat: 37.17N Lon: 12.71W Depth: 1 Agency: IGL Regional  
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	361	86	EP		213	0.84	-0.03							1.0
MESJ	HZ	404	78	EP		213	6.26	0.03							1.0

March 2 2013 Hour: 5:48 58.3 Lat: 37.22N Lon: 12.83W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.3 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	413	79	EP		549	54.80	-0.27							1.0
MESJ	HE	413	79	ES		550	36.77	0.27							1.0
MESJ	HE	413	79	AML		550	39.07			3	0.6				

March 2 2013 Hour: 6:28 23.5 Lat: 37.15N Lon: 7.48W Depth: 17F 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
MESJ	HZ	101	320	EP		628	39.49	0.01							1.0
MESJ	HN	101	320	ES		628	51.10	-0.03							1.0
MESJ	HE	101	320	AML		628	53.13			4	0.1				
MORF	HN	105	280	ES		628	52.40	0.02							1.0
MORF	HN	105	280	AML		628	53.01			16	0.5				

**March 3 2013 Hour: 5:41 22.2 Lat: 26.01N Lon: 99.78E Depth: 40F Agency: IGL Distant**  
**Magnitudes: 4.9MS IGL Rms: 0.1 secs**  
**YUNNAN, CHINA Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9718	311	EP		554	5.36	0.13							1.0
MESJ	BZ	9718	311	AMS		637	45.75			444	19.5				
MORF	BZ	9781	311	EP		554	7.87	-0.13							1.0
MORF	BN	9781	311	AMS		633	50.80			433	18.0				

**March 5 2013 Hour: 2:31 53.7 Lat: 36.35N Lon: 9.08W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 1.9ML 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	113	20	EP		232	11.32	-0.18							1.0
MORF	HE	113	20	ES		232	24.70	0.21							1.0
MORF	HN	113	20	AML		232	27.62			25	0.3				
MESJ	HZ	182	25	EP		232	20.17	-0.03							1.0

**March 5 2013 Hour: 8:33 54.7 Lat: 67.67N Lon: 142.47E Depth: 14F Agency: IGL Distant**  
**Magnitudes: 5.3MB IGL Rms: 0.3 secs**  
**NORTHEASTERN SAKHA, RUSSIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8114	336	EP		845	23.69	-0.25							1.0
MORF	BZ	8114	336	AMB		845	27.23			69	2.0				

**March 5 2013 Hour: 17:32 20.3 Lat: 36.72N Lon: 7.58W Depth: 11F 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	115	305	EP		1732	38.54	-0.04							1.0
MESJ	HZ	137	336	EP		1732	41.90	0.25							1.0
MESJ	HE	137	336	ES		1732	56.99	-0.21							1.0
MESJ	HE	137	336	AML		1732	59.06			8					

**March 6 2013 Hour: 21:0 9.2 Lat: 35.87N Lon: 10.35W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	220	43	EP		21	0	39.34	-0.02						1.0
MORF	HN	220	43	ES		21	1	1.32	-0.04						1.0
MORF	HN	220	43	AML		21	1	2.35		61	0.2				
MESJ	HZ	290	40	EP		21	0	47.88	-0.05						1.0
MESJ	HE	290	40	ES		21	1	16.30	0.11						1.0
MESJ	HN	290	40	AML		21	1	18.54		17	0.2				

**March 6 2013 Hour: 21:32 28.7 Lat: 35.92N Lon: 10.18W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.6ML 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	206	41	EP		2132	57.05	0.01							1.0
MESJ	HZ	276	39	EP		2133	5.64	-0.02							1.0

**March 8 2013 Hour: 11:18 55.2 Lat: 36.64N Lon: 9.76W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.1 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	53	EP		1119	14.49	-0.10							1.0
MORF	HN	123	53	ES		1119	28.81	0.06							1.0
MORF	HN	123	53	AML		1119	29.69			22	0.3				
MESJ	HZ	191	45	EP		1119	22.90	-0.06							1.0
MESJ	HN	191	45	ES		1119	43.32	0.10							1.0
MESJ	HN	191	45	AML		1119	45.38			8	0.1				

March 8 2013 Hour: 18:10 40.2 Lat: 36.59N Lon: 7.63W Depth: 21F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	121	311	EP		1810	58.69	0.03							1.0
MORF	HE	121	311	ES		1811	12.11	-0.05							1.0
MORF	HN	121	311	AML		1811	13.77			40	0.2				
MESJ	HZ	148	339	EP		1811	1.99	-0.05							1.0
MESJ	HN	148	339	ES		1811	18.07	0.07							1.0
MESJ	HN	148	339	AML		1811	21.64			11	0.1				

March 9 2013 Hour: 3:50 32.9 Lat: 37.00N Lon: 9.25W Depth: 18F Agency: IGL Regional  
Magnitudes: 1.1ML 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	63	57	EP		350	43.63	0.35							1.0
MORF	HN	63	57	ES		350	50.83	0.00							1.0
MORF	HN	63	57	AML		350	52.25			8	0.2				
MESJ	HZ	130	44	EP		350	52.59	-0.24							1.0
MESJ	HN	130	44	ES		351	7.22	-0.14							1.0
MESJ	HN	130	44	AML		351	9.67			3	0.4				

March 9 2013 Hour: 13:0 39.0 Lat: 37.42N Lon: 7.93W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.4ML 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	53	331	EP		13	0	47.84	-0.10						1.0
MESJ	HE	53	331	ES		13	0	54.46	0.01						1.0
MESJ	HN	53	331	AML		13	0	55.55			14	0.2			
MORF	HZ	65	259	EP		13	0	49.64	-0.08						1.0
MORF	HE	65	259	ES		13	0	57.70	0.17						1.0
MORF	HE	65	259	AML		13	1	0.18			20	0.2			

March 9 2013 Hour: 15:52 0.8 Lat: 38.74N Lon: 9.38W Depth: 16F Agency: IGL Regional  
Magnitudes: 2.3ML IGL Rms: 0.4 secs

S SINTRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	20	97	EP		1552	4.51	-0.42							1.0
GGNV	HE	20	97	ES		1552	8.37	0.44							1.0
GGNV	HN	20	97	AML		1552	9.16			654	0.2				
MESJ	HZ	142	134	EP		1552	21.95	-0.45							0.9
MESJ	HN	142	134	ES		1552	38.39	0.23							0.9
MESJ	HN	142	134	AML		1552	41.64			17	0.2				
MORF	HN	172	158	ES		1552	44.66	0.20							0.9
MORF	HN	172	158	AML		1552	50.75			51	0.4				

March 10 2013 Hour: 16:49 19.9 Lat: 5.30S Lon: 151.51E Depth: 60F Agency: IGL Distant  
Magnitudes: 5.4MS IGL Rms: 0.0 secs

NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15887	333	EPKpdf			17	8	45.77	-0.03						1.0
MESJ	BZ15887	333	AMS			1812	57.96			431	12.8				
MORF	BZ15958	333	EPKpdf			17	8	46.99	0.03						1.0
MORF	BE15958	333	AMS			1752	55.79			467	16.2				

March 10 2013 Hour: 21:39 48.8 Lat: 37.60N Lon: 7.96W Depth: 8F 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	319	EP		2139	54.68	0.06							1.0
MESJ	HN	35	319	ES		2139	58.81	-0.06							1.0
MESJ	HN	35	319	AML		2140	0.92			6	0.2				

**March 10 2013 Hour: 22:51 52.3 Lat: 6.65S Lon: 148.15E Depth: 29F Agency: IGL Distant**  
**Magnitudes: 6.9MS IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15813	331	EPK	pdf		2311	21.03	0.04							1.0
GGNV	BE15813	331	ESS			2333	0.13	0.06							1.0
GGNV	BZ15813	331	AMS			2418	11.23		35852	21.9					
MESJ	BZ15836	329	EPK	pdf		2311	21.29	-0.10							1.0
MESJ	BE15836	329	ESS			2333	2.51	-0.04							1.0
MESJ	BZ15836	329	AMS			2417	59.14		21662	23.2					
MORF	BZ15906	329	EPK	pdf		2311	22.60	0.05							1.0
MORF	BE15906	329	ESS			2333	9.88	-0.01							1.0
MORF	BE15906	329	AMS			24 6	23.27		20891	24.5					

**March 11 2013 Hour: 3:36 47.1 Lat: 36.72N Lon: 7.47W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	124	302	ES		337	18.56	-0.01							1.0
MORF	HE	124	302	AML		337	19.54		17	0.2					
MESJ	HZ	141	332	EP		337	7.55	0.15							1.0
MESJ	HE	141	332	ES		337	22.09	-0.14							1.0
MESJ	HN	141	332	AML		337	23.65		8	0.1					

**March 11 2013 Hour: 4:23 21.6 Lat: 36.84N Lon: 8.50W Depth: 6F 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	54	346	EP		423	30.15	-0.15							1.0
MORF	HE	54	346	ES		423	36.79	0.15							1.0
MORF	HN	54	346	AML		423	39.17		31	0.1					
MESJ	HN	114	13	ES		423	53.14	-0.01							1.0
MESJ	HN	114	13	AML		423	55.47		8	0.1					

**March 11 2013 Hour: 17:23 10.0 Lat: 36.84N Lon: 8.88W Depth: 14F 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	56	21	EP		1723	19.00	-0.16							1.0
MORF	HN	56	21	ES		1723	26.02	0.19							1.0
MORF	HN	56	21	AML		1723	26.59		7	0.1					
MESJ	HN	125	28	ES		1723	43.95	-0.04							1.0
MESJ	HN	125	28	AML		1723	44.94		4	0.2					

**March 12 2013 Hour: 1:5 22.7 Lat: 36.38N Lon: 10.37W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.5ML 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	185	56	EP		1 5	49.47	-0.17							1.0
MORF	HN	185	56	ES		1 6	9.47	0.17							1.0
MORF	HE	185	56	AML		1 6	10.81		4	0.4					

**March 12 2013 Hour: 3:26 48.2 Lat: 37.20N Lon: 8.61W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.2 secs**

**NW PORTIMAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	343	EP		326	49.95	-0.23							1.0
MORF	HN	12	343	ES		326	51.83	0.17							1.0
MORF	HN	12	343	AML		326	52.70		132	0.1					
MESJ	HZ	79	26	EP		327	1.08	0.19							1.0
MESJ	HN	79	26	ES		327	10.05	-0.13							1.0
MESJ	HN	79	26	AML		327	11.89		5	0.2					

**March 12 2013 Hour: 4:20 48.2 Lat: 37.21N Lon: 7.86W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.2 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	71	279	EP		420	59.54	-0.13							1.0
MORF	HE	71	279	ES		421	8.23	0.21							1.0
MORF	HN	71	279	AML		421	10.28			4	0.3				
MESJ	HZ	77	336	EP		421	0.65	0.12							1.0
MESJ	HN	77	336	ES		421	9.32	-0.20							1.0
MESJ	HN	77	336	AML		421	12.25			4	0.0				

**March 13 2013 Hour: 3:12 54.3 Lat: 60.22N Lon: 163.36E Depth: 14F Agency: IGL Distant**  
**Magnitudes: 5.5MS IGL Rms: 0.1 secs**

**KAMCHATKA PENINSULA, RUSSIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9020	354	EP		325	9.11	0.02							1.0
GGNV	BN	9020	354	ES		335	19.00	0.10							1.0
GGNV	BE	9020	354	AMS		4	6	20.44		2262	22.3				
MESJ	BZ	9111	353	EP		325	13.42	-0.05							1.0
MESJ	BN	9111	353	ES		335	27.51	0.05							1.0
MESJ	BZ	9111	353	AMS		411	28.38			1800	19.5				
MORF	BZ	9173	354	EP		325	16.29	-0.14							1.0
MORF	BN	9173	354	ES		335	33.24	0.01							1.0
MORF	BZ	9173	354	AMS		4	9	43.55		2359	15.6				

**March 13 2013 Hour: 12:53 51.8 Lat: 36.91N Lon: 9.63W Depth: 18F 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	98	63	EP		1254	7.38	0.07							1.0
MORF	HE	98	63	ES		1254	18.62	-0.01							1.0
MORF	HN	98	63	AML		1254	20.15			33	0.2				
MESJ	HZ	162	50	EP		1254	15.47	-0.15							1.0
MESJ	HE	162	50	ES		1254	33.11	0.09							1.0
MESJ	HN	162	50	AML		1254	34.88			10	0.2				

**March 13 2013 Hour: 15:25 40.7 Lat: 37.66N Lon: 9.03W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.2 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	52	139	EP		1525	48.84	-0.25							1.0
MORF	HN	52	139	ES		1525	55.30	0.04							1.0
MORF	HN	52	139	AML		1525	57.86			37	0.2				
MESJ	HZ	74	74	EP		1525	52.79	0.11							1.0
MESJ	HN	74	74	ES		1526	1.57	0.11							1.0
MESJ	HN	74	74	AML		1526	4.06			15	0.1				

**March 14 2013 Hour: 16:58 28.5 Lat: 35.45N Lon: 1.34W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 0.3 secs**

**NORTHERN ALGERIA Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	670	295	EP		1659	55.36	0.36							1.0
MESJ	HN	670	295	ES		17	0	57.94	-0.19						1.0
MESJ	HN	670	295	AML		17	1	4.02		10	0.4				
MORF	HZ	687	290	EP		1659	57.01	-0.17							1.0

**March 14 2013 Hour: 23:10 43.3 Lat: 36.54N Lon: 8.25W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	92	337	EP		2310	58.07	0.01							1.0
MORF	HE	92	337	ES		2311	8.78	-0.04							1.0
MORF	HN	92	337	AML		2311	10.42			15	0.2				



MESJ HN 144 1 ES 2311 20.63 0.03 1.0  
 MESJ HN 144 1 AML 2311 24.37 5 0.1

**March 15 2013 Hour: 7:59 16.2 Lat: 38.24N Lon: 8.27W Depth: 0 Agency: IGL Regional  
 Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**W ALVITO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	45	174	EP		759	23.40	-0.01							1.0
MESJ	HN	45	174	ES		759	28.60	-0.07							1.0
MESJ	HN	45	174	AML		759	29.27		13	0.1					
MORF	HZ	109	198	EP		759	33.93	0.16							1.0
MORF	HE	109	198	ES		759	46.52	-0.08							1.0
MORF	HN	109	198	AML		759	47.49		8	0.3					

**March 15 2013 Hour: 14:22 37.9 Lat: 32.20N Lon: 7.52W Depth: 31F 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	576	350	EP		1423	51.51	-0.13							1.0
MESJ	HZ	629	354	EP		1423	58.18	0.14							1.0

**March 15 2013 Hour: 17:37 33.5 Lat: 39.04N Lon: 10.51W Depth: 20F 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
MESJ	HZ	240	123	EP		1738	7.02	0.09							1.0
MESJ	HN	240	123	ES		1738	31.20	-0.09							1.0
MESJ	HN	240	123	AML		1738	43.85		10	0.6					

**March 16 2013 Hour: 9:49 28.6 Lat: 35.83N Lon: 5.60E Depth: 20F Agency: IGL Distant  
 Rms: 0.1 secs**

**NORTHERN ALGERIA Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	1252	284	EP		952	8.43	0.09							1.0

**March 16 2013 Hour: 16:39 43.1 Lat: 6.22S Lon: 149.86E Depth: 58F Agency: IGL Distant  
 Magnitudes: 5.2MS IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15891	331	EPKpdf			1659	9.39	0.09							1.0
MESJ	BZ15891	331	EPP			17 2	18.76	-0.08							1.0
MESJ	BZ15891	331	AMS			1811	35.21		250	13.7					
MORF	BZ15961	331	EPKpdf			1659	10.35	-0.10							1.0
MORF	BZ15961	331	EPP			17 2	22.78	0.09							1.0
MORF	BN15961	331	AMS			18 4	43.93		423	21.2					

**March 16 2013 Hour: 21:32 56.0 Lat: 37.05N Lon: 3.66W Depth: 1 Agency: IGL Regional  
 Rms: 0.0 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	413	284	EP		2133	52.61	0.00							1.0

**March 17 2013 Hour: 5:10 28.5 Lat: 36.58N Lon: 7.81W Depth: 16F Agency: IGL Regional  
 Magnitudes: 1.0ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	110	317	EP		510	45.73	-0.17							1.0
MORF	HN	110	317	ES		510	58.83	0.24							1.0
MORF	HN	110	317	AML		510	59.89		3	0.1					
MESJ	HZ	144	346	EP		510	50.13	-0.22							1.0
MESJ	HN	144	346	ES		511	6.43	0.15							1.0
MESJ	HN	144	346	AML		511	7.62		3	0.2					

March 17 2013 Hour: 6: 6 30.5 Lat: 37.02N Lon: 4.96W Depth: 0 Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	302	288	EP		6	7	13.52	0.01						1.0

March 17 2013 Hour: 8:31 6.2 Lat: 36.45N Lon: 8.10W Depth: 15F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	107	333	EP		831	22.92	-0.20							1.0
MORF	HE	107	333	ES		831	35.58	0.12							1.0
MORF	HN	107	333	AML		831	38.82			5	0.3				
MESJ	HN	155	356	ES		831	46.37	0.08							1.0
MESJ	HN	155	356	AML		831	48.41			2	0.1				

March 17 2013 Hour: 14:19 9.4 Lat: 36.55N Lon: 7.61W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	313	EP		1419	28.62	0.03							1.0
MORF	HN	125	313	ES		1419	42.65	0.03							1.0
MORF	HN	125	313	AML		1419	46.43			17	0.2				
MESJ	HZ	153	339	EP		1419	31.86	-0.18							1.0
MESJ	HN	153	339	ES		1419	48.72	0.13							1.0
MESJ	HN	153	339	AML		1419	50.02			7	0.0				

March 17 2013 Hour: 18:54 40.2 Lat: 36.46N Lon: 5.31W Depth: 31F Agency: IGL Regional  
Magnitudes: 3.3ML 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
MESJ	HZ	300	301	EP		1855	20.39	0.11							1.0
MESJ	HN	300	301	ES		1855	49.23	-0.29							1.0
MESJ	HN	300	301	AML		1855	52.07			104	0.2				
MORF	HZ	312	288	EP		1855	21.77	-0.02							1.0
MORF	HN	312	288	ES		1855	51.94	-0.20							1.0
MORF	HN	312	288	AML		1855	54.43			139	0.2				
ALMR	HZ	415	317	EP		1855	34.59	0.19							0.9
ALMR	HN	415	317	ES		1856	14.19	0.25							0.9
ALMR	HN	415	317	AML		1856	16.72			93	0.4				

March 18 2013 Hour: 7: 8 57.7 Lat: 37.05N Lon: 4.90W Depth: 1F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.2 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	307	288	EP		7	9	41.15	-0.05						1.0
MESJ	HN	307	288	ES		710	12.78	-0.18							1.0
MESJ	HE	307	288	AML		710	16.94			5	0.6				
MORF	HE	335	276	ES		710	19.19	0.23							1.0
MORF	HE	335	276	AML		710	22.90			12	0.3				

March 18 2013 Hour: 11:56 28.1 Lat: 37.34N Lon: 8.61W Depth: 8F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	224	EP		1156	29.60	-0.10							1.0
MORF	HN	5	224	ES		1156	30.97	0.10							1.0
MORF	HN	5	224	AML		1156	31.52			124	0.2				

March 18 2013 Hour: 15: 1 31.7 Lat: 36.70N Lon: 7.32W Depth: 17F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	136	300	EP		15 1	52.49	-0.01							1.0
MORF	HN	136	300	ES		15 2	7.69	0.04							1.0
MORF	HN	136	300	AML		15 2	8.83			6	0.5				
MESJ	HZ	150	328	EP		15 1	54.12	0.00							1.0
MESJ	HN	150	328	ES		15 2	10.43	-0.03							1.0
MESJ	HN	150	328	AML		15 2	12.05			3	0.0				

March 18 2013 Hour: 19: 8 48.3 Lat: 42.72N Lon: 1.74W Depth: 1F Agency: IGL Regional  
Magnitudes: 3.1ML IGL Rms: 0.2 secs

PYRENEES Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	699	238	EP		1910	19.88	0.26							1.0
ALMR	HE	699	238	ES		1911	26.24	-0.05							1.0
ALMR	HE	699	238	AML		1911	28.60			20	0.6				
MESJ	HZ	773	228	EP		1910	28.34	-0.04							1.0
MORF	HZ	842	227	EP		1910	36.36	-0.20							0.9

March 18 2013 Hour: 20:45 17.3 Lat: 36.23N Lon: 9.87W Depth: 24F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	162	42	EP		2045	40.66	0.04							1.0
MORF	HN	162	42	ES		2045	57.66	0.02							1.0
MORF	HN	162	42	AML		2045	59.74			4	0.2				
MESJ	HZ	231	39	EP		2045	49.18	-0.06							1.0

March 18 2013 Hour: 21:14 29.3 Lat: 42.72N Lon: 1.70W Depth: 1F 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	844	227	EP		2116	17.77	-0.03							1.0

March 18 2013 Hour: 21:32 2.1 Lat: 42.72N Lon: 1.71W Depth: 0F 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	844	227	EP		2133	50.64	-0.04							1.0

March 18 2013 Hour: 22:43 12.1 Lat: 36.61N Lon: 9.63W Depth: 17F 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	117	48	EP		2243	30.42	-0.01							1.0
MORF	HN	117	48	ES		2243	43.85	0.05							1.0
MORF	HE	117	48	AML		2243	44.77			1	0.0				
MESJ	HZ	185	42	EP		2243	38.91	-0.02							1.0
MESJ	HN	185	42	ES		2243	58.46	-0.03							1.0
MESJ	HN	185	42	AML		2244	0.51			2	0.5				

March 19 2013 Hour: 2:39 29.8 Lat: 36.28N Lon: 9.73W Depth: 28F 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	149	40	EP		239	51.32	0.00							1.0
MORF	HN	149	40	ES		240	6.96	-0.06							1.0
MORF	HN	149	40	AML		240	8.66			21	0.3				
MESJ	HZ	219	37	EP		239	59.91	-0.06							1.0
MESJ	HN	219	37	ES		240	22.10	0.12							1.0
MESJ	HN	219	37	AML		240	23.10			2	0.1				

March 19 2013 Hour: 3:11 31.4 Lat: 36.47N Lon: 5.50W Depth: 30F Agency: IGL Regional  
 Magnitudes: 4.5ML 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
MESJ	HZ	286	303	EP		312	9.58	-0.11							1.0
MESJ	HE	286	303	ES		312	37.30	-0.35							1.0
MESJ	HN	286	303	AML		312	39.70		2278	0.5					
MORF	HZ	296	289	EP		312	10.63	-0.37							1.0
MORF	HN	296	289	ES		312	39.86	-0.06							1.0
MORF	HE	296	289	AML		312	41.68		1168	0.6					
ALMR	HZ	403	319	EP		312	24.30	0.09							0.9
ALMR	HN	403	319	ES		313	2.64	-0.13							0.9
ALMR	HN	403	319	AML		313	5.86		2195	0.3					
GGNV	HZ	408	309	EP		312	25.19	0.42							0.9
GGNV	HE	408	309	ES		313	4.36	0.62							0.9
GGNV	HE	408	309	AML		313	6.70		1570	0.6					

March 19 2013 Hour: 3:29 1.1 Lat: 58.92S Lon: 24.41W Depth: 31F Agency: IGL Distant  
 Magnitudes: 5.8MS IGL Rms: 0.4 secs

**SOUTH SANDWICH ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10744	13	EP			342	28.05	0.68							1.0
MORF	BN10744	13	ESKSac			353	2.48	-0.37							1.0
MORF	BE10744	13	ESS			4 0	25.05	0.27							1.0
MORF	BZ10744	13	AMS			420	28.77		2018	22.7					
MESJ	BZ10808	13	EP			342	29.54	-0.35							1.0
MESJ	BN10808	13	ESKSac			353	5.77	0.03							1.0
MESJ	BZ10808	13	AMS			423	58.85		2375	14.9					
ALMR	BN10948	12	ESKSac			353	11.92	-0.22							1.0
ALMR	BZ10948	12	AMS			422	31.92		3901	17.9					

March 19 2013 Hour: 10:19 26.2 Lat: 36.30N Lon: 5.58W Depth: 45F Agency: IGL Regional  
 Magnitudes: 2.0ML IGL Rms: 0.4 secs

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	291	307	EP		1020	5.37	0.37							1.0
MESJ	HE	291	307	ES		1020	32.92	-0.37							1.0
MESJ	HN	291	307	AML		1020	34.25		7	0.2					

March 19 2013 Hour: 16: 8 9.9 Lat: 36.22N Lon: 9.29W Depth: 1 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	133	25	EP		16 8	31.39	-0.02							1.0
MORF	HN	133	25	ES		16 8	47.22	0.11							1.0
MORF	HN	133	25	AML		16 8	50.70		24	0.1					
MESJ	HZ	203	28	EP		16 8	40.44	-0.09							1.0

March 19 2013 Hour: 16:24 47.3 Lat: 36.46N Lon: 5.52W Depth: 44F Agency: IGL Regional  
 Magnitudes: 2.8ML 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	284	303	EP		1625	25.33	-0.02							1.0
MESJ	HN	284	303	ES		1625	53.02	-0.10							1.0
MESJ	HE	284	303	AML		1625	54.61		40	0.2					
MORF	HZ	294	290	EP		1625	26.38	-0.21							1.0
MORF	HN	294	290	ES		1625	55.30	0.05							1.0
MORF	HE	294	290	AML		1625	57.43		30	0.1					
ALMR	HZ	402	319	EP		1625	39.62	-0.01							0.9
ALMR	HN	402	319	ES		1626	18.14	0.32							0.9
ALMR	HN	402	319	AML		1626	21.08		49	0.4					

**March 19 2013 Hour: 22:20 0.7 Lat: 36.68N Lon: 8.05W Depth: 16F 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	88	323	EP		2220	14.79	0.07							1.0
MORF	HN	88	323	ES		2220	25.00	0.05							1.0
MORF	HN	88	323	AML		2220	28.53			67	0.3				
MESJ	HZ	130	353	EP		2220	20.54	-0.16							1.0
MESJ	HN	130	353	ES		2220	35.47	0.19							1.0
MESJ	HN	130	353	AML		2220	36.48			40	0.2				
ALMR	HZ	279	351	EP		2220	38.96	-0.24							0.9
ALMR	HN	279	351	ES		2221	7.35	0.06							0.9
ALMR	HN	279	351	AML		2221	10.44			14	0.5				

**March 20 2013 Hour: 0:41 48.6 Lat: 36.79N Lon: 8.46W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	60	344	EP		041	58.47	-0.05							1.0
MORF	HN	60	344	ES		042	5.83	0.05							1.0
MORF	HE	60	344	AML		042	7.34			9	0.0				

**March 20 2013 Hour: 2:31 6.1 Lat: 36.94N Lon: 8.62W Depth: 29F 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	41	356	EP		231	13.61	-0.18							1.0
MORF	HE	41	356	ES		231	19.59	0.18							1.0
MORF	HE	41	356	AML		231	20.59			8	0.2				
MESJ	HZ	106	19	EP		231	22.12	0.00							1.0

**March 20 2013 Hour: 4:13 5.1 Lat: 36.76N Lon: 4.96W Depth: 22F 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	313	294	EP		413	47.25	-0.07							1.0
MESJ	HN	313	294	ES		414	18.00	-0.13							1.0
MESJ	HN	313	294	AML		414	19.38			3	0.5				
MORF	HN	334	282	ES		414	22.83	0.12							1.0
MORF	HN	334	282	AML		414	26.34			9	0.2				
ALMR	HZ	414	311	EP		413	59.95	0.08							0.9

**March 20 2013 Hour: 15:12 50.8 Lat: 36.33N Lon: 7.82W Depth: 30F 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	131	326	EP		1513	9.88	-0.06							1.0
MORF	HE	131	326	ES		1513	23.78	-0.14							1.0
MORF	HN	131	326	AML		1513	24.91			53	0.4				
MESJ	HZ	171	348	EP		1513	14.87	0.00							1.0
MESJ	HN	171	348	ES		1513	32.65	0.20							1.0
MESJ	HE	171	348	AML		1513	34.29			30	0.2				

**March 20 2013 Hour: 17:10 40.7 Lat: 36.79N Lon: 12.35W Depth: 0 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	334	79	EP		1711	27.42	-0.25							1.0
MORF	HN	334	79	ES		1712	1.97	0.03							1.0
MORF	HN	334	79	AML		1712	4.05			13	0.3				
MESJ	HN	384	71	ES		1712	12.90	0.23							1.0
MESJ	HN	384	71	AML		1712	16.17			6	0.2				

**March 20 2013 Hour: 22:29 0.1 Lat: 55.55N Lon: 35.06W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.0MS 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
ALMR	BZ	2675	122	EP		2234	15.47	-0.05							1.0
ALMR	BZ	2675	122	AMS		2241	45.64			6425	20.4				
GGNV	BZ	2683	123	EP		2234	16.26	0.10							1.0
GGNV	BZ	2683	123	AMS		2241	46.69			5278	19.3				
MESJ	BZ	2809	123	EP		2234	26.60	0.03							1.0
MESJ	BZ	2809	123	AMS		2242	21.09			4936	22.1				
MORF	BZ	2834	125	EP		2234	28.58	-0.08							1.0
MORF	BZ	2834	125	AMS		2242	34.98			3634	17.7				

**March 20 2013 Hour: 23:13 49.7 Lat: 38.73N Lon: 9.38W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.2 secs**

**NE CASCAIS, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	20	94	EP		2313	53.02	-0.14							1.0
GGNV	HN	20	94	ES		2313	55.98	0.31							1.0
GGNV	HN	20	94	AML		2313	58.12			212	0.2				
ALMR	HZ	84	56	EP		2314	3.32	-0.02							1.0
ALMR	HN	84	56	ES		2314	13.27	-0.02							1.0
ALMR	HN	84	56	AML		2314	14.77			46	0.4				
MESJ	HZ	142	134	EP		2314	12.01	-0.05							0.9
MESJ	HE	142	134	ES		2314	28.50	0.13							0.9
MESJ	HE	142	134	AML		2314	32.33			7	0.2				
MORF	HZ	170	158	EP		2314	15.43	-0.24							0.9
MORF	HE	170	158	ES		2314	34.61	-0.01							0.9
MORF	HN	170	158	AML		2314	37.67			11	0.3				

**March 21 2013 Hour: 11:48 38.5 Lat: 36.64N Lon: 8.07W Depth: 11F 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	90	325	EP		1148	52.88	-0.09							1.0
MORF	HN	90	325	ES		1149	3.51	0.01							1.0
MORF	HE	90	325	AML		1149	5.40			68	0.3				
MESJ	HZ	134	354	EP		1148	59.47	-0.03							1.0
MESJ	HN	134	354	ES		1149	14.90	0.11							1.0
MESJ	HE	134	354	AML		1149	16.70			20	0.2				

**March 21 2013 Hour: 14:31 37.0 Lat: 42.82N Lon: 1.82W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.1 secs**

**PYRENEES Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	699	237	EP		1433	8.41	0.06							1.0
MESJ	HZ	775	227	EP		1433	17.26	-0.10							1.0
MORF	HZ	845	226	EP		1433	25.60	0.04							0.9

**March 21 2013 Hour: 21:44 6.0 Lat: 37.21N Lon: 8.59W Depth: 6F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.0 secs**

**NW PORTIMAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	333	EP		2144	8.14	-0.02							1.0
MORF	HN	12	333	ES		2144	9.80	0.03							1.0
MORF	HN	12	333	AML		2144	10.17			74	0.1				
MESJ	HZ	77	25	EP		2144	18.43	-0.01							1.0
MESJ	HE	77	25	ES		2144	27.55	0.00							1.0
MESJ	HN	77	25	AML		2144	31.26			3	0.2				

March 22 2013 Hour: 0:48 35.0 Lat: 36.57N Lon: 7.42W Depth: 29F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	158	333	EP		048	57.46	0.02							1.0
MESJ	HN	158	333	ES		049	13.82	-0.02							1.0
MESJ	HN	158	333	AML		049	15.85			7	0.2				

March 22 2013 Hour: 11:38 15.7 Lat: 37.41N Lon: 7.93W Depth: 18F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.0 secs

SE ALMODOVAR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	54	332	EP		1138	24.66	-0.03							1.0
MESJ	HE	54	332	ES		1138	31.29	0.03							1.0
MESJ	HE	54	332	AML		1138	33.47			27	0.2				

March 22 2013 Hour: 21:34 10.8 Lat: 36.71N Lon: 9.71W Depth: 20F 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	115	55	EP		2134	28.67	0.02							1.0
MORF	HN	115	55	ES		2134	41.71	0.01							1.0
MORF	HN	115	55	AML		2134	42.51			13	0.2				
MESJ	HZ	182	46	EP		2134	36.94	0.01							1.0
MESJ	HN	182	46	ES		2134	55.99	-0.04							1.0
MESJ	HN	182	46	AML		2134	58.39			4	0.1				

March 23 2013 Hour: 2:57 40.0 Lat: 42.82N Lon: 1.81W Depth: 0 Agency: IGL Regional  
Rms: 0.1 secs

PYRENEES Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	699	237	EP		259	11.38	-0.16							1.0
MESJ	HZ	776	227	EP		259	20.69	0.15							1.0
MORF	HZ	845	226	EP		259	28.78	0.04							0.9

March 23 2013 Hour: 16:38 42.0 Lat: 37.22N Lon: 8.99W Depth: 22F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs

NW VILA DO BISPO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	32	72	EP		1638	47.94	-0.11							1.0
MORF	HN	32	72	ES		1638	52.45	-0.04							1.0
MORF	HE	32	72	AML		1638	53.83			37	0.1				
MESJ	HZ	97	44	EP		1638	57.27	0.05							1.0
MESJ	HN	97	44	ES		1639	8.46	0.10							1.0
MESJ	HE	97	44	AML		1639	10.17			17	0.2				

March 23 2013 Hour: 23:51 51.5 Lat: 36.94N Lon: 11.02W Depth: 31F 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	214	78	EP		2352	20.95	-0.01							1.0
MORF	HN	214	78	ES		2352	42.60	0.17							1.0
MORF	HN	214	78	AML		2352	44.18			33	0.3				
MESJ	HZ	267	67	EP		2352	27.36	-0.13							1.0
MESJ	HN	267	67	ES		2352	53.74	0.00							1.0
MESJ	HN	267	67	AML		2352	58.51			8	0.2				
ALMR	HN	326	40	ES		2353	6.37	-0.03							0.9
ALMR	HN	326	40	AML		2353	9.12			13	0.4				

**March 24 2013 Hour: 4:18 35.1 Lat: 50.72N Lon: 160.15E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.8MS IGL Rms: 0.2 secs**

**EAST OF KURIL ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9994	351	EP		431	34.24	0.27							1.0
ALMR	BZ	9994	351	EPP		435	6.76	-0.41							1.0
ALMR	BE	9994	351	ESKSac		442	4.85	-0.09							1.0
ALMR	BE	9994	351	ESS		448	26.63	-0.06							1.0
ALMR	BN	9994	351	AMS		515	50.38		2820	20.3					
GGNV	BZ10049	352	EP			431	36.41	0.18							1.0
GGNV	BE10049	352	ESKSac			442	7.88	0.11							1.0
GGNV	BE10049	352	AMS			515	28.67		3606	15.6					
MESJ	BZ10135	351	EP			431	40.21	0.31							1.0
MESJ	BZ10135	351	EPP			435	16.94	-0.30							1.0
MESJ	BN10135	351	ESKSac			442	12.34	0.01							1.0
MESJ	BN10135	351	ESS			448	44.81	-0.22							1.0
MESJ	BZ10135	351	AMS			523	1.57		2736	13.4					
MORF	BZ10199	351	EP			431	42.95	0.35							1.0
MORF	BE10199	351	ESKSac			442	15.51	-0.17							1.0
MORF	BE10199	351	ESS			448	53.34	0.00							1.0
MORF	BZ10199	351	AMS			523	44.52		3214	15.5					

**March 24 2013 Hour: 4:24 53.2 Lat: 37.10N Lon: 7.10W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.0ML 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	129	310	EP		425	13.75	-0.17							1.0
MESJ	HN	129	310	ES		425	29.14	0.05							1.0
MESJ	HN	129	310	AML		425	34.94		17	0.2					
MORF	HZ	140	280	EP		425	15.52	-0.17							1.0
MORF	HN	140	280	ES		425	32.43	0.29							1.0
MORF	HN	140	280	AML		425	36.44		36	0.2					

**March 24 2013 Hour: 7:7 45.1 Lat: 36.75N Lon: 11.35W Depth: 31F 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	248	75	EP		7 8	18.82	0.13							1.0
MORF	HE	248	75	ES		7 8	43.35	0.15							1.0
MORF	HN	248	75	AML		7 8	46.71		18	0.3					
MESJ	HZ	303	66	EP		7 8	25.50	0.04							1.0
MESJ	HE	303	66	ES		7 8	54.80	-0.11							1.0
MESJ	HN	303	66	AML		7 8	59.00		7	0.2					
ALMR	HN	362	42	ES		7 9	7.29	-0.24							0.9
ALMR	HN	362	42	AML		7 9	10.52		12	0.3					

**March 24 2013 Hour: 16:48 46.5 Lat: 39.22N Lon: 10.32W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 0.4 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	116	118	EP		1649	4.90	0.44							1.0
GGNV	HE	116	118	ES		1649	17.75	0.16							1.0
GGNV	HN	116	118	AML		1649	20.72		332	0.1					
ALMR	HZ	151	92	EP		1649	9.22	0.40							1.0
ALMR	HE	151	92	ES		1649	24.92	-0.22							1.0
ALMR	HE	151	92	AML		1649	27.57		146	0.3					
MESJ	HZ	239	129	EP		1649	19.61	-0.13							0.9
MESJ	HE	239	129	ES		1649	43.98	-0.06							0.9
MESJ	HE	239	129	AML		1649	46.18		31	0.1					
MORF	HZ	258	145	EP		1649	21.44	-0.70							0.9



March 24 2013 Hour: 17:26 19.3 Lat: 37.55N Lon: 8.80W Depth: 29F Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.1 secs

SW ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	30	154	EP		1726	25.61	-0.16							1.0
MORF	HN	30	154	ES		1726	30.42	-0.07							1.0
MORF	HN	30	154	AML		1726	31.22			1971	0.1				
MESJ	HZ	60	58	EP		1726	29.66	0.12							1.0
MESJ	HN	60	58	ES		1726	37.13	0.12							1.0
MESJ	HE	60	58	AML		1726	38.61			231	0.1				

March 24 2013 Hour: 19: 1 10.0 Lat: 35.58N Lon: 3.71W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.8ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	475	303	EP		19 2	14.21	-0.05							1.0
MESJ	HN	475	303	ES		19 3	1.41	0.21							1.0
MESJ	HN	475	303	AML		19 3	6.70			20	0.3				
MORF	HZ	483	295	EP		19 2	15.09	-0.17							1.0

March 24 2013 Hour: 19:55 6.5 Lat: 37.20N Lon: 13.14W Depth: 1 Agency: IGL Regional  
Magnitudes: 2.7ML 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	398	87	EP		1956	1.47	0.12							1.0
MORF	HE	398	87	ES		1956	41.33	-0.04							1.0
MORF	HN	398	87	AML		1956	44.18			26	0.3				
MESJ	HZ	441	79	EP		1956	6.48	-0.05							1.0
MESJ	HE	441	79	ES		1956	50.31	-0.03							1.0
MESJ	HN	441	79	AML		1956	55.83			15	0.1				

March 24 2013 Hour: 21: 9 41.4 Lat: 35.58N Lon: 3.71W 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	474	303	EP		2110	45.66	0.01							1.0
MORF	HZ	482	295	EP		2110	46.63	-0.01							1.0

March 25 2013 Hour: 10:53 54.2 Lat: 37.27N Lon: 5.26W Depth: 7F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	269	284	EP		1054	32.30	-0.01							1.0
MORF	HZ	301	272	EP		1054	36.28	0.01							1.0

March 25 2013 Hour: 23: 2 13.7 Lat: 14.60N Lon: 90.43W Depth: 200F Agency: IGL Distant  
Magnitudes: 5.3MB 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	8268	53	EP		2313	28.96	-0.15							1.0
GGNV	BZ	8268	53	AMb		2313	32.05			198	2.0				
GGNV	BZ	8268	53	EpP		2314	16.79	0.19							1.0
GGNV	BE	8268	53	ES		2322	46.98	0.00							1.0
ALMR	BZ	8312	53	EP		2313	31.02	-0.38							0.9
ALMR	BZ	8312	53	AMb		2313	34.27			305	1.1				
ALMR	BZ	8312	53	EpP		2314	19.30	0.35							0.9
ALMR	BE	8312	53	ES		2322	51.26	-0.13							1.0
MORF	BZ	8329	55	EP		2313	32.42	0.04							1.0
MORF	BZ	8329	55	AMb		2313	34.97			66	1.0				
MORF	BZ	8329	55	EpP		2314	20.19	0.26							1.0
MORF	BE	8329	55	ES		2322	53.21	-0.04							1.0
MESJ	BZ	8360	54	EP		2313	33.73	-0.17							1.0
MESJ	BZ	8360	54	AMb		2313	36.68			70	1.1				

MESJ BZ 8360 54 EpP 2314 21.51 0.02 1.0  
 MESJ BN 8360 54 ES 2322 56.20 0.01 1.0

**March 26 2013 Hour: 0:14 48.8 Lat: 34.61N Lon: 16.15W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 3.0ML IGL Rms: 0.2 secs**

**MADEIRA ISLANDS, PORTUGAL REGION Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	739	64	EP		016	23.56	-0.10							1.0
MORF	HN	739	64	ES		017	32.93	-0.01							1.0
MORF	HN	739	64	AML		017	37.08			24	0.4				
MESJ	HZ	798	61	EP		016	30.84	0.37							1.0
MESJ	HN	798	61	ES		017	44.63	-0.08							1.0
MESJ	HN	798	61	AML		017	51.97			8	0.2				
ALMR	HZ	842	51	EP		016	35.55	-0.18							0.9

**March 26 2013 Hour: 3:44 7.6 Lat: 38.12N Lon: 8.33W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 3.0ML IGL Rms: 0.2 secs**

**NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	33	163	EP		344	13.08	-0.03							1.0
MESJ	HE	33	163	ES		344	17.03	-0.07							1.0
MESJ	HN	33	163	AML		344	17.51			890	0.2				
MORF	HZ	95	197	EP		344	23.30	0.46							1.0
MORF	HE	95	197	ES		344	33.96	0.02							1.0
MORF	HN	95	197	AML		344	36.23			529	0.1				
GGNV	HZ	98	313	EP		344	23.17	-0.08							1.0
GGNV	HE	98	313	ES		344	34.51	-0.12							1.0
GGNV	HN	98	313	AML		344	37.51			345	0.4				
ALMR	HZ	117	350	EP		344	26.09	-0.10							1.0
ALMR	HN	117	350	ES		344	39.65	-0.08							1.0
ALMR	HN	117	350	AML		344	41.70			518	0.3				

**March 26 2013 Hour: 6:31 40.6 Lat: 37.32N Lon: 8.56W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	259	EP		631	42.88	-0.13							1.0
MORF	HE	8	259	ES		631	44.88	0.11							1.0
MORF	HE	8	259	AML		631	45.28			155	0.1				
MESJ	HZ	65	27	EP		631	51.18	0.07							1.0
MESJ	HE	65	27	ES		631	58.75	-0.05							1.0
MESJ	HN	65	27	AML		632	2.22			7	0.0				

**March 26 2013 Hour: 9:30 44.2 Lat: 35.64N Lon: 7.70W Depth: 10F 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	204	336	EP		931	13.74	-0.20							1.0
MORF	HE	204	336	ES		931	35.73	0.06							1.0
MORF	HN	204	336	AML		931	38.96			7	0.3				
MESJ	HZ	248	349	EP		931	19.59	0.10							1.0
MESJ	HN	248	349	ES		931	45.30	0.04							1.0
MESJ	HN	248	349	AML		931	46.93			3	0.7				

**March 26 2013 Hour: 13: 4 48.4 Lat: 16.21N Lon: 98.14W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.4MB 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
GGNV	BZ	8823	53	EP		1316	54.08	-0.14							1.0
GGNV	BZ	8823	53	AMb		1316	56.85			185	1.4				
ALMR	BZ	8861	52	EP		1316	56.22	0.11							1.0
ALMR	BZ	8861	52	AMb		1316	56.96			89	1.8				
MORF	BZ	8899	54	EP		1316	58.12	0.07							1.0
MORF	BZ	8899	54	AMb		1317	1.57			38	1.8				

MORF	BZ	8899	54	EPP		1319	59.15-0.03										1.0
MESJ	BZ	8923	53	EP		1316	59.14-0.02										1.0
MESJ	BZ	8923	53	AMb		1317	1.94		38	2.0							
MESJ	BZ	8923	53	EPP		1320	0.94 0.01										1.0

**March 27 2013 Hour: 0: 4 53.0 Lat: 37.87N Lon: 1.79W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 2.1ML 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	566	272	EP		0 6	8.14	0.02							1.0
MESJ	HE	566	272	ES		0 7	2.99	0.01							1.0
MESJ	HN	566	272	AML		0 7	8.55			3	0.7				
MORF	HZ	609	266	EP		0 6	13.36-0.04								1.0
ALMR	HZ	609	286	EP		0 6	13.33	0.00							1.0

**March 27 2013 Hour: 2: 3 20.1 Lat: 23.84N Lon: 121.14E Depth: 21F Agency: IGL Distant**  
**Magnitudes: 6.2MS 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	BZ11311	322	322	EPP		221	21.28	0.10							1.0
ALMR	BN11311	322	ESKSac			227	48.87	0.03							1.0
ALMR	BE11311	322	AMS			3 1	20.08			6155	17.4				
MORF	BZ11458	321	EPdif			217	16.80	0.10							1.0
MORF	BZ11458	321	EPP			221	31.30	0.13							1.0
MORF	BN11458	321	ESKSac			227	55.02-0.18								1.0
MORF	BE11458	321	ESS			236	12.92-0.19								1.0
MORF	BN11458	321	AMS			3 2	4.68			7422	21.7				

**March 29 2013 Hour: 20:31 41.9 Lat: 38.25N Lon: 10.94W Depth: 37F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.4 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	227	117	EP		2032	13.37	0.39							1.0
MORF	HN	227	117	ES		2032	35.02-0.62								1.0
MORF	HN	227	117	AML		2032	37.53			15	0.0				
ALMR	HN	229	63	ES		2032	36.08	0.24							1.0
ALMR	HE	229	63	AML		2032	38.08			36	0.6				

**March 30 2013 Hour: 11:50 10.7 Lat: 38.05N Lon: 3.27W Depth: 4F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 0.2 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	478	286	EP		1151	15.12	0.18							1.0
ALMR	HN	478	286	ES		1152	1.79-0.05								1.0
ALMR	HN	478	286	AML		1152	5.95			23	0.2				
MORF	HZ	481	262	EP		1151	15.15-0.28								1.0
MORF	HN	481	262	ES		1152	2.84	0.16							1.0
MORF	HN	481	262	AML		1152	4.67			15	0.2				

**March 30 2013 Hour: 17:30 48.7 Lat: 9.40S Lon: 79.04W Depth: 44F Agency: IGL Distant**  
**Magnitudes: 5.5MB IGL Rms: 0.2 secs**

**OFF COAST OF NORTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8953	50	EP		1742	55.88-0.22								1.0
MORF	BZ	8953	50	AMb		1742	59.29			110	0.9				
ALMR	BZ	9029	48	EP		1742	59.86	0.22							1.0
ALMR	BZ	9029	48	AMb		1743	2.30			89	1.4				

**March 30 2013 Hour: 21:59 38.9 Lat: 36.74N Lon: 7.43W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 1.4ML 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	126	300	EP		2159	57.96	0.04							1.0
MORF	HE	126	300	ES		22 0	11.73	-0.04							1.0
MORF	HE	126	300	AML		22 0	12.87			6	0.1				

**March 31 2013 Hour: 3:19 41.6 Lat: 43.29N Lon: 17.43W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 2.9ML IGL Rms: 0.1 secs**  
**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	998	129	EP		321	47.14	-0.11							1.0
MORF	HN	998	129	ES		323	19.08	0.11							1.0
MORF	HN	998	129	AML		323	24.06			6	0.2				

**April 1 2013 Hour: 6:43 23.8 Lat: 36.80N Lon: 8.15W Depth: 4F 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	72	322	EP		643	35.23	-0.16							1.0
MORF	HN	72	322	ES		643	44.01	0.16							1.0
MORF	HN	72	322	AML		643	46.48			9	0.2				

**April 1 2013 Hour: 11:18 33.8 Lat: 37.27N Lon: 12.72W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 3.0ML 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	360	88	EP		1119	23.92	-0.17							1.0
MORF	HE	360	88	ES		1120	0.96	0.17							1.0
MORF	HN	360	88	AML		1120	9.32			45	0.2				

**April 1 2013 Hour: 16:26 26.0 Lat: 37.28N Lon: 12.61W Depth: 0 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	351	88	EP		1627	14.79	-0.29							1.0
MORF	HN	351	88	ES		1627	51.09	0.15							1.0
MORF	HN	351	88	AML		1627	56.19			9	0.4				
ALMR	HZ	410	58	EP		1627	22.53	0.14							1.0

**April 1 2013 Hour: 18:53 17.0 Lat: 39.53N Lon: 143.20E Depth: 12F Agency: IGL Distant**  
**Magnitudes: 6.2MS 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
ALMR	BZ10844	338	EP			19 6	50.77	0.05							1.0
ALMR	BZ10844	338	EPP			1910	48.24	0.09							1.0
ALMR	BN10844	338	ESKSac			1917	28.02	0.03							1.0
ALMR	BE10844	338	ESS			1924	56.47	0.05							1.0
ALMR	BZ10844	338	AMS			1957	3.41			7434	17.0				
GGNV	BZ10907	338	EPP			1910	52.45	-0.07							1.0
GGNV	BE10907	338	ESS			1925	4.29	-0.14							1.0
GGNV	BZ10907	338	AMS			1956	27.44			8584	20.6				
MORF	BZ11037	338	EPP			1911	1.54	0.03							1.0
MORF	BN11037	338	ES			1917	37.04	0.15							1.0
MORF	BN11037	338	ESS			1925	20.72	-0.20							1.0
MORF	BN11037	338	AMS			1958	2.34			6703	21.9				

**April 1 2013 Hour: 19:39 40.8 Lat: 37.18N Lon: 12.99W Depth: 30F 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	386	87	EP		1940	31.28	-0.22							1.0
MORF	HN	386	87	ES		1941	8.60	0.06							1.0
MORF	HN	386	87	AML		1941	17.52			22	0.2				
ALMR	HZ	445	59	EP		1940	38.81	0.17							1.0

**April 1 2013 Hour: 20:10 2.8 Lat: 37.07N Lon: 12.75W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.1ML 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	365	85	EP		2010	53.52	0.00							1.0
MORF	HN	365	85	ES		2011	30.55	0.00							1.0
MORF	HN	365	85	AML		2011	34.70			6	0.2				

**April 1 2013 Hour: 20:58 34.3 Lat: 36.83N Lon: 12.63W Depth: 34F 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	358	80	EP		2059	21.37	-0.18							1.0
MORF	HN	358	80	ES		2059	56.23	0.18							1.0
MORF	HN	358	80	AML		2059	58.96			11	0.4				

**April 1 2013 Hour: 22:21 3.1 Lat: 37.30N Lon: 8.58W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**  
**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	276	EP		2221	5.70	-0.07							1.0
MORF	HN	6	276	ES		2221	7.80	0.07							1.0
MORF	HN	6	276	AML		2221	8.35			54	0.3				

**April 2 2013 Hour: 1:11 38.8 Lat: 37.24N Lon: 12.78W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 3.1ML 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	367	88	EP		112	29.64	-0.20							1.0
MORF	HN	367	88	ES		113	6.91	-0.18							1.0
MORF	HE	367	88	AML		113	15.23			47	0.2				
ALMR	HZ	425	59	EP		112	37.19	0.08							1.0
ALMR	HN	425	59	ES		113	19.98	0.32							1.0
ALMR	HN	425	59	AML		113	25.91			62	0.3				

**April 2 2013 Hour: 14:34 55.2 Lat: 40.44S Lon: 45.30E Depth: 11F Agency: IGL Distant**  
**Magnitudes: 5.5MS IGL Rms: 0.1 secs**  
**SOUTHWEST INDIAN RIDGE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10207	320	EP			1448	3.00	0.13							1.0
MORF	BZ10207	320	EPP			1451	41.89	-0.06							1.0
MORF	BE10207	320	ESS			15 5	13.46	-0.06							1.0
MORF	BZ10207	320	AMS			1534	22.11			2219	24.6				

**April 2 2013 Hour: 14:37 2.4 Lat: 36.63N Lon: 7.58W Depth: 22F 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
MORF	HZ	121	309	EP		1437	20.91	-0.01							1.0
MORF	HN	121	309	ES		1437	34.41	0.01							1.0
MORF	HN	121	309	AML		1437	36.23			17	0.4				

April 2 2013 Hour: 16:31 7.1 Lat: 34.93N Lon: 11.72W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.0 secs

MADEIRA ISLANDS, PORTUGAL REGION Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	382	45	EP		1631	59.93	-0.04							1.0
MORF	HN	382	45	ES		1632	38.62	0.04							1.0
MORF	HN	382	45	AML		1632	41.87			32	0.4				

April 3 2013 Hour: 3: 8 7.9 Lat: 36.52N Lon: 7.71W Depth: 18F Agency: IGL Regional  
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	121	316	EP		3 8	26.60	-0.03							1.0
ALMR	HZ	302	346	EP		3 8	49.13	0.03							0.9

April 3 2013 Hour: 7:50 28.0 Lat: 37.04N Lon: 13.10W Depth: 10F 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	396	84	EP		751	21.56	-0.09							1.0
MORF	HE	396	84	ES		752	0.75	-0.09							1.0
MORF	HN	396	84	AML		752	6.13			5					
ALMR	HZ	461	58	EP		751	29.72	0.19							1.0

April 3 2013 Hour: 16:35 46.3 Lat: 19.24N Lon: 95.66E Depth: 11F Agency: IGL Distant  
Magnitudes: 6.1MB IGL Rms: 0.0 secs

MYANMAR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9854	311	EP		1648	39.33	0.03							1.0
ALMR	BZ	9854	311	AMb		1648	41.51			145	1.1				
MORF	BZ	9943	309	EP		1648	43.09	-0.03							1.0
MORF	BZ	9943	309	AMb		1648	46.41			159	1.2				

April 4 2013 Hour: 2:27 12.8 Lat: 37.82N Lon: 1.60W Depth: 1 Agency: IGL Regional  
Magnitudes: 3.9ML IGL Rms: 0.1 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	625	267	EP		228	35.16	-0.07							1.0
MORF	HE	625	267	ES		229	35.33	-0.07							1.0
MORF	HN	625	267	AML		229	38.34			147	0.1				
ALMR	HZ	626	286	EP		228	35.37	0.08							1.0
ALMR	HE	626	286	ES		229	35.50	-0.01							1.0
ALMR	HN	626	286	AML		229	37.72			181	0.8				
GGNV	HN	668	281	ES		229	44.31	0.08							1.0
GGNV	HN	668	281	AML		229	49.30			81	0.4				

April 4 2013 Hour: 12:27 50.9 Lat: 38.85N Lon: 11.20W Depth: 50F Agency: IGL Regional  
Magnitudes: 4.3ML IGL Rms: 0.5 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	179	94	EP		1228	16.00	0.39							1.0
GGNV	HN	179	94	ES		1228	32.91	-0.76							1.0
GGNV	HN	179	94	AML		1228	35.38			4424	0.3				
ALMR	HZ	230	81	EP		1228	22.01	0.21							1.0
ALMR	HN	230	81	ES		1228	43.98	-0.41							1.0
ALMR	HN	230	81	AML		1228	45.77			1593	0.3				
MORF	HZ	282	127	EP		1228	28.65	0.52							1.0
MORF	HE	282	127	ES		1228	55.43	0.09							1.0
MORF	HN	282	127	AML		1228	58.94			848	0.2				

April 4 2013 Hour: 15:16 26.4 Lat: 19.29N Lon: 95.72E Depth: 4F Agency: IGL Distant  
Rms: 0.1 secs

MYANMAR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9944	309	EP		1529	24.33	-0.13							1.0

April 4 2013 Hour: 18:33 22.1 Lat: 37.39N Lon: 7.71W Depth: 8F Agency: IGL Regional  
Magnitudes: 2.8ML IGL Rms: 0.2 secs

SW ALCOUTIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	84	264	EP		1833	35.52	-0.20							1.0
MORF	HE	84	264	ES		1833	45.85	0.20							1.0
MORF	HN	84	264	AML		1833	48.83			294	0.4				

April 5 2013 Hour: 2:28 54.2 Lat: 39.11N Lon: 9.31W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

NW TORRES VEDRAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	64	85	EP		229	4.42	-0.14							1.0
ALMR	HN	64	85	ES		229	12.27	0.14							1.0
ALMR	HE	64	85	AML		229	14.01			16	0.1				

April 5 2013 Hour: 13:0 2.0 Lat: 42.71N Lon: 131.10E Depth: 562F Agency: IGL Distant  
Rms: 0.1 secs

E.RUSSIA-N.E. CHINA BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ10079	330	EP			1312	4.87	-0.01							1.0
ALMR	BZ10079	330	EP			1314	7.72	-0.19							0.9
ALMR	BN10079	330	ESKSac			1321	42.49	0.06							1.0
GGNV	BZ10146	330	EP			1312	7.79	0.17							0.9
GGNV	BZ10146	330	EP			1314	10.66	-0.04							1.0
GGNV	BN10146	330	ESKSac			1321	45.72	-0.04							1.0
MORF	BZ10263	329	EP			1312	12.64	0.08							1.0
MORF	BN10263	329	ESKSac			1321	51.72	-0.03							1.0

April 6 2013 Hour: 4:42 36.2 Lat: 3.53S Lon: 138.47E Depth: 68F Agency: IGL Distant  
Magnitudes: 6.9MS IGL Rms: 0.1 secs

PAPUA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ14872	324	EPKpdf			5	1	44.62	0.10						1.0
ALMR	BZ14872	324	EPP			5	4	14.06	0.10						1.0
ALMR	BE14872	324	ESS			521	55.93	0.04							1.0
ALMR	BZ14872	324	AMS			6	4	20.89		20632	22.0				
GGNV	BZ14942	324	EPKpdf			5	1	45.69	0.03						1.0
GGNV	BZ14942	324	EPP			5	4	17.85	-0.07						1.0
GGNV	BN14942	324	ESS			522	3.51	0.11							1.0
GGNV	BZ14942	324	AMS			6	4	59.05		25647	16.3				
MORF	BZ15011	322	EPKpdf			5	1	46.81	-0.10						1.0
MORF	BZ15011	322	EPP			5	4	21.95	-0.02						1.0
MORF	BN15011	322	ESS			522	10.84	-0.22							0.9
MORF	BZ15011	322	AMS			6	4	38.82		21832	28.0				

April 6 2013 Hour: 11:26 8.1 Lat: 34.80N Lon: 24.09E Depth: 40F Agency: IGL Distant  
Magnitudes: 5.6MB 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
ALMR	BZ	2933	289	EP		1131	40.46	-0.08							1.0
ALMR	BZ	2933	289	AMB		1131	45.73			120	0.6				
MORF	BN	2949	285	ES		1136	14.52	0.19							1.0
GGNV	BZ	2984	288	EP		1131	44.55	-0.10							1.0
GGNV	BZ	2984	288	AMB		1131	55.33			221	1.8				

**April 6 2013 Hour: 12:40 44.7 Lat: 39.79N Lon: 8.85W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 3.8ML IGL Rms: 0.1 secs**

**NW LEIRIA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	74	161	EP		1240	56.66	-0.08							1.0
ALMR	HN	74	161	ES		1241	5.75	0.20							1.0
ALMR	HN	74	161	AML		1241	7.83			3359	0.3				
GGNV	HN	122	192	ES		1241	16.86	0.06							1.0
GGNV	HE	122	192	AML		1241	19.06			1424	0.5				
MORF	HZ	276	176	EP		1241	22.25	-0.21							0.9

**April 7 2013 Hour: 4:56 7.5 Lat: 37.84N Lon: 3.68W Depth: 18F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	443	264	EP		457	6.11	-0.07							1.0
MORF	HN	443	264	ES		457	48.99	0.00							1.0
MORF	HE	443	264	AML		457	51.83			5	0.4				
ALMR	HZ	451	290	EP		457	7.19	0.06							1.0

**April 7 2013 Hour: 5:45 17.8 Lat: 37.82N Lon: 1.78W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 3.3ML IGL Rms: 0.2 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	609	267	EP		546	37.98	-0.30							1.0
MORF	HN	609	267	ES		547	37.26	0.22							1.0
MORF	HE	609	267	AML		547	42.44			29	0.7				
ALMR	HZ	611	286	EP		546	38.33	-0.09							1.0
ALMR	HN	611	286	ES		547	37.10	-0.16							1.0
ALMR	HN	611	286	AML		547	40.77			52	0.6				
ALMR	HE	611	286	ESg		548	8.55	0.33							1.0

**April 7 2013 Hour: 14:37 23.9 Lat: 37.15N Lon: 8.50W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.1 secs**

**NW LAGOA, PORTUGAL**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	22	322	ES		1437	31.04	0.11							1.0
MORF	HE	22	322	AML		1437	31.64			17	0.1				
MORF	HZ	22	322	EP		1437	27.84	-0.11							1.0

**April 7 2013 Hour: 15:37 40.0 Lat: 44.62N Lon: 28.24W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 4.5MB IGL Rms: 0.3 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	1831	110	EP		1541	31.65	0.31							1.0
MORF	BZ	1831	110	AMb		1541	37.60			20	1.7				
MORF	BE	1831	110	ES		1544	35.04	-0.31							1.0

**April 7 2013 Hour: 18:17 53.3 Lat: 37.34N Lon: 9.10W Depth: 28F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.0 secs**

**W ALJEZUR, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	40	95	EP		1818	0.83	0.01							1.0
MORF	HN	40	95	ES		1818	6.32	-0.01							1.0
MORF	HN	40	95	AML		1818	7.47			12	0.1				

**April 8 2013 Hour: 15: 8 45.5 Lat: 36.58N Lon: 9.72W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.5ML 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	125	49	EP		15 9	3.83	0.03							1.0
MORF	HN	125	49	ES		15 9	17.18	0.04							1.0
MORF	HN	125	49	AML		15 9	17.68			65	0.2				



ALMR HE 303 19 ES 15 9 55.29-0.09 0.9  
 ALMR HE 303 19 AML 15 9 56.06 20 0.2

**April 8 2013 Hour: 16:53 28.8 Lat: 37.33N Lon: 8.55W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	254	EP		1653	31.49	-0.05							1.0
MORF	HE	9	254	ES		1653	33.61	0.05							1.0
MORF	HN	9	254	AML		1653	34.36			68	0.3				

**April 8 2013 Hour: 22: 0 18.3 Lat: 36.93N Lon: 8.62W Depth: 26F 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	356	EP		22 0	26.00	0.09							1.0
MORF	HN	42	356	ES		22 0	31.42	-0.09							1.0
MORF	HN	42	356	AML		22 0	32.90			5	0.2				

**April 9 2013 Hour: 3:36 27.9 Lat: 36.53N Lon: 23.03E Depth: 21F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.1 secs**

**SOUTHERN GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	2783	286	EP		341	50.40	-0.06							1.0
ALMR	BZ	2783	286	AMB		341	51.61			121	1.2				

**April 9 2013 Hour: 6:53 6.1 Lat: 36.79N Lon: 11.36W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 3.5ML 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	248	76	EP		653	39.70	0.03							1.0
MORF	HE	248	76	ES		654	3.95	-0.21							1.0
MORF	HN	248	76	AML		654	6.41			160	0.2				
GGNV	HN	289	42	ES		654	13.16	0.16							1.0
GGNV	HN	289	42	AML		654	16.88			226	0.6				
ALMR	HZ	359	42	EP		653	53.29	-0.14							0.9
ALMR	HN	359	42	ES		654	28.13	0.17							0.9
ALMR	HE	359	42	AML		654	30.41			230	0.2				

**April 9 2013 Hour: 11:52 49.9 Lat: 28.50N Lon: 51.59E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.9MS IGL Rms: 0.0 secs**

**SOUTHERN IRAN Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	5594	299	EP		12 1	46.54	0.05							1.0
ALMR	BE	5594	299	ES		12 8	59.86	-0.07							1.0
ALMR	BZ	5594	299	AMS		1226	46.10			8778	18.1				
MORF	BZ	5628	296	EP		12 1	48.92	0.01							1.0
MORF	BN	5628	296	ES		12 9	4.41	0.03							1.0
MORF	BZ	5628	296	AMS		1224	59.84			9675	17.8				
GGNV	BZ	5649	298	EP		12 1	50.22	-0.04							1.0
GGNV	BE	5649	298	ES		12 9	6.87	0.01							1.0
GGNV	BN	5649	298	AMS		1224	52.64			13501	19.8				

**April 9 2013 Hour: 20:58 12.0 Lat: 37.30N Lon: 9.18W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**W ALJEZUR, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	47	89	EP		2058	20.06	0.00							1.0
MORF	HE	47	89	ES		2058	25.93	0.00							1.0
MORF	HE	47	89	AML		2058	27.31			30	0.2				

**April 9 2013 Hour: 22:49 16.1 Lat: 37.24N Lon: 8.57W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 0.5ML 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	10	316	EP		2249	18.81	-0.03							1.0
MORF	HE	10	316	ES		2249	20.86	0.03							1.0
MORF	HE	10	316	AML		2249	21.14			18	0.2				

**April 10 2013 Hour: 1:58 28.0 Lat: 28.45N Lon: 51.61E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.3MB IGL Rms: 0.0 secs**  
**SOUTHERN IRAN Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	5598	299	EP		2 7	24.89	-0.01							1.0
ALMR	BZ	5598	299	AMb		2 7	28.99			118	1.8				
MORF	BZ	5632	296	EP		2 7	27.32	0.01							1.0
MORF	BZ	5632	296	AMb		2 7	30.75			57	1.5				

**April 10 2013 Hour: 19:14 2.8 Lat: 15.54N Lon: 87.23W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.7MB IGL Rms: 0.0 secs**  
**HONDURAS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	7974	53	EP		1925	24.86	0.02							1.0
ALMR	BZ	7974	53	AMb		1925	29.33			221	2.0				
MORF	BZ	7987	55	EP		1925	25.62	-0.02							1.0
MORF	BZ	7987	55	AMb		1925	29.66			152	1.6				

**April 10 2013 Hour: 20:19 1.1 Lat: 38.04N Lon: 3.31W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 3.3ML IGL Rms: 0.1 secs**  
**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HN	475	287	ES		2020	52.58	0.08							1.0
ALMR	HE	475	287	AML		2021	0.75			54	1.0				
MORF	HZ	479	262	EP		2020	5.84	-0.08							1.0

**April 10 2013 Hour: 20:20 26.0 Lat: 20.82N Lon: 122.12E Depth: 4F Agency: IGL Distant**  
**Magnitudes: 6.2MS IGL Rms: 0.0 secs**  
**BATAN ISLANDS REGION, PHILIPPINES Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ11639	322	EPP			2038	51.83	0.03							1.0
ALMR	BE11639	322	AMS			2120	2.82			6570	20.6				
MORF	BZ11784	321	EPP			2039	1.43	-0.03							1.0
MORF	BN11784	321	AMS			2120	45.69			8482	18.3				

**April 10 2013 Hour: 21:30 13.8 Lat: 36.62N Lon: 8.41W Depth: 22F 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	79	344	EP		2130	26.60	-0.02							1.0
MORF	HE	79	344	ES		2130	35.99	0.02							1.0
MORF	HE	79	344	AML		2130	37.32			50	0.3				

**April 11 2013 Hour: 0:2 22.7 Lat: 36.23N Lon: 7.89W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	137	331	EP		0 2	43.76	-0.06							1.0
MORF	HN	137	331	ES		0 2	59.32	0.06							1.0
MORF	HN	137	331	AML		0 3	1.16			7	0.8				

**April 11 2013 Hour: 3:47 3.7 Lat: 19.26N Lon: 95.69E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.8MB IGL Rms: 0.0 secs**  
**MYANMAR Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9855	311	EP		359	56.94	0.05							1.0
ALMR	BZ	9855	311	AMb		359	57.83			104	1.2				
MORF	BZ	9944	309	EP		4 0	0.67	-0.05							1.0
MORF	BZ	9944	309	AMb		4 0	2.77			66	1.1				

**April 11 2013 Hour: 10:33 54.7 Lat: 37.31N Lon: 8.54W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.0 secs**  
**SE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	268	EP		1033	57.69	0.02							1.0
MORF	HE	10	268	ES		1033	59.80	-0.02							1.0
MORF	HN	10	268	AML		1034	0.20			129	0.2				

**April 11 2013 Hour: 15:53 34.5 Lat: 37.01N Lon: 5.26W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 2.7ML IGL Rms: 0.2 secs**  
**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	303	277	EP		1554	16.35	-0.25							1.0
MORF	HN	303	277	ES		1554	47.55	0.25							1.0
MORF	HE	303	277	AML		1554	49.60			31	0.2				

**April 12 2013 Hour: 1: 6 31.1 Lat: 41.59N Lon: 6.15W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 2.2ML IGL Rms: 0.2 secs**  
**SPAIN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	340	218	EP		1 7	17.38	-0.07							1.0
ALMR	HE	340	218	ES		1 7	51.45	0.16							1.0
ALMR	HN	340	218	AML		1 7	53.59			11	0.2				
MORF	HZ	522	205	EP		1 7	39.44	-0.35							0.9
MORF	HE	522	205	ES		1 8	30.17	0.24							0.9
MORF	HN	522	205	AML		1 8	33.78			3	0.1				

**April 12 2013 Hour: 3:45 11.9 Lat: 18.01N Lon: 101.40W Depth: 54F Agency: IGL Distant**  
**Magnitudes: 5.2MB IGL Rms: 0.0 secs**  
**GUERRERO, MEXICO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9012	52	EP		357	20.94	-0.04							1.0
ALMR	BZ	9012	52	AMb		357	21.98			114	1.3				
MORF	BZ	9061	54	EP		357	23.47	0.04							1.0
MORF	BZ	9061	54	AMb		357	37.01			44	2.0				

**April 12 2013 Hour: 4:58 20.9 Lat: 37.10N Lon: 8.11W Depth: 18F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.0 secs**  
**SW LOULE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	53	296	EP		458	29.80	-0.02							1.0
MORF	HE	53	296	ES		458	36.32	0.02							1.0
MORF	HE	53	296	AML		458	37.34			368	0.1				

**April 12 2013 Hour: 14:36 32.6 Lat: 35.77N Lon: 8.62W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	171	359	EP		1436	57.17	0.00							1.0
MORF	HE	171	359	ES		1437	15.12	0.00							1.0
MORF	HN	171	359	AML		1437	16.27			5	0.2				

**April 12 2013 Hour: 16:52 43.4 Lat: 36.68N Lon: 8.07W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 1.4ML 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	87	324	EP		1652	57.22	-0.19							1.0
MORF	HN	87	324	ES		1653	7.84	0.19							1.0
MORF	HN	87	324	AML		1653	8.99			12	0.2				

**April 13 2013 Hour: 8: 8 56.0 Lat: 34.78N Lon: 35.16W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 4.4MS 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	BN	2356	72	ES		817	38.21	0.11							1.0
GGNV	BN	2356	72	AMS		819	3.75			2003	22.4				
MORF	BZ	2398	76	EP		813	45.83	0.15							1.0
MORF	BN	2398	76	ES		817	45.53	-0.15							1.0
MORF	BN	2398	76	AMS		819	26.38			1519	23.6				
ALMR	BN	2408	71	ES		817	47.24	-0.11							1.0
ALMR	BN	2408	71	AMS		819	18.67			2183	21.2				

**April 13 2013 Hour: 9:43 5.7 Lat: 36.09N Lon: 4.99W Depth: 60F 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
MORF	HZ	354	294	EP		943	52.11	0.04							1.0
MORF	HN	354	294	ES		944	25.88	-0.04							1.0
MORF	HE	354	294	AML		944	28.67			3	0.3				

**April 13 2013 Hour: 11:15 7.1 Lat: 36.45N Lon: 9.15W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	105	25	EP		1115	23.70	0.00							1.0
MORF	HN	105	25	ES		1115	35.82	0.00							1.0
MORF	HN	105	25	AML		1115	37.58			9	0.2				

**April 13 2013 Hour: 20: 9 35.9 Lat: 36.63N Lon: 9.62W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	49	EP		20 9	53.64	-0.09							1.0
MORF	HN	114	49	ES		2010	6.87	0.09							1.0
MORF	HN	114	49	AML		2010	7.57			5	0.2				

**April 13 2013 Hour: 22:49 50.0 Lat: 19.14S Lon: 169.64E Depth:271FAgency: IGL Distant**  
**Magnitudes: 1.2ML IGL Rms: 0.0 secs**

**VANUATU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ17804	356	EPKpdf			23 9	16.01	0.04							1.0
MORF	BZ18009	356	EPKpdf			23 9	18.00	-0.04							1.0

**April 14 2013 Hour: 0:57 53.5 Lat: 37.32N Lon: 8.62W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.3ML IGL Rms: 0.1 secs**

**W MONCHIQUÉ, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	3	241	EP		057	55.47	-0.14							1.0
MORF	HN	3	241	ES		057	57.27	0.14							1.0
MORF	HN	3	241	AML		057	58.12			17	0.1				

April 14 2013 Hour: 1:32 22.5 Lat: 6.48S Lon: 154.58E Depth: 35F Agency: IGL Distant  
Magnitudes: 6.6MS 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
ALMR	BZ16040	337		EPKPdf		151	53.91	0.08							1.0
ALMR	BZ16040	337		AMS		3	0	55.09		8683	17.0				
GGNV	BZ16107	338		EPKPdf		151	54.83	-0.01							1.0
GGNV	BZ16107	338		AMS		3	0	57.60		13149	18.8				
MORF	BZ16221	336		EPKPdf		151	56.61	-0.07							1.0
MORF	BZ16221	336		AMS		259	43.16			8946	19.3				

April 14 2013 Hour: 2:53 51.2 Lat: 36.38N Lon: 7.88W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	124	326	EP		254	9.35	0.05							1.0
MORF	HE	124	326	ES		254	22.50	-0.05							1.0
MORF	HN	124	326	AML		254	23.78			24	0.2				

April 14 2013 Hour: 7: 8 6.3 Lat: 37.45N Lon: 9.15W Depth: 12F Agency: IGL Regional  
Magnitudes: 0.8ML 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	47	110	EP		7	8	14.22	0.11						1.0
MORF	HN	47	110	ES		7	8	19.70	-0.11						1.0
MORF	HN	47	110	AML		7	8	21.25		8	0.1				

April 14 2013 Hour: 9:17 11.8 Lat: 36.47N Lon: 9.82W Depth: 25F Agency: IGL Regional  
Magnitudes: 1.7ML 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	140	48	EP		917	32.33	0.00							1.0
MORF	HN	140	48	ES		917	47.31	0.00							1.0
MORF	HN	140	48	AML		917	48.05			11	0.1				

April 14 2013 Hour: 21:43 15.8 Lat: 33.19N Lon: 5.05W Depth: 18F Agency: IGL Regional  
Magnitudes: 3.7ML IGL 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	562	325	EP		2144	28.88	-0.06							1.0
MORF	HN	562	325	ES		2145	22.32	0.02							1.0
MORF	HN	562	325	AML		2145	26.45			214	0.4				
ALMR	HZ	734	335	EP		2144	49.57	0.01							0.9
ALMR	HN	734	335	ES		2145	58.00	0.03							0.9
ALMR	HN	734	335	AML		2146	4.68			34	0.2				

April 15 2013 Hour: 14:48 42.7 Lat: 36.72N Lon: 9.70W Depth: 17F 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	114	55	EP		1449	0.54	-0.14							1.0
MORF	HN	114	55	ES		1449	13.94	0.14							1.0
MORF	HN	114	55	AML		1449	15.80			30	0.1				

April 15 2013 Hour: 18: 3 41.6 Lat: 37.78N Lon: 8.73W Depth: 14F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.0 secs

SE SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	53	172	EP		18	3	50.31	-0.02						1.0
MORF	HE	53	172	ES		18	3	56.73	0.02						1.0
MORF	HE	53	172	AML		18	3	57.29		46	0.1				

**April 15 2013 Hour: 23:28 44.1 Lat: 37.33N Lon: 8.52W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.1 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	257	EP		2328	46.95	-0.08							1.0
MORF	HN	12	257	ES		2328	49.22	0.08							1.0
MORF	HN	12	257	AML		2328	50.38			34	0.1				

**April 16 2013 Hour: 0:20 36.3 Lat: 36.65N Lon: 8.06W Depth: 1 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	90	324	EP		020	50.79	-0.05							1.0
MORF	HN	90	324	ES		021	1.47	0.05							1.0
MORF	HN	90	324	AML		021	2.62			16	0.2				

**April 16 2013 Hour: 2:30 13.5 Lat: 37.35N Lon: 8.48W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 0.8ML 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	16	252	EP		230	17.09	0.00							1.0
MORF	HE	16	252	ES		230	19.68	0.00							1.0
MORF	HE	16	252	AML		230	20.18			24	0.2				

**April 16 2013 Hour: 10: 0 24.0 Lat: 6.65S Lon: 154.40E Depth: 10F Agency: IGL Distant**  
**Rms: 0.2 secs**  
**BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ16050	337	EPKPdf			1019	59.33	-0.12							1.0
GGNV	BZ16117	337	EPKPdf			1020	0.68	0.22							1.0
MORF	BZ16231	336	EPKPdf			1020	2.19	-0.09							1.0

**April 16 2013 Hour: 10:44 20.9 Lat: 28.11N Lon: 62.05E Depth: 82F Agency: IGL Distant**  
**Magnitudes: 6.9MS IGL Rms: 0.1 secs**  
**IRAN-PAKISTAN BORDER REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	6507	301	EP		1054	8.60	0.07							1.0
ALMR	BN	6507	301	ES		11 2	6.60	0.18							1.0
ALMR	BE	6507	301	AMS		1120	10.00			117000	24.4				
MORF	BZ	6559	299	EP		1054	11.66	-0.20							1.0
MORF	BE	6559	299	ES		11 2	12.55	-0.07							1.0
MORF	BZ	6559	299	AMS		1126	57.07			124000	21.4				
GGNV	BZ	6566	300	EP		1054	12.28	0.07							1.0
GGNV	BN	6566	300	ES		11 2	13.23	-0.06							1.0
GGNV	BE	6566	300	AMS		1120	27.73			111000	22.6				

**April 16 2013 Hour: 15: 9 11.0 Lat: 33.30N Lon: 5.06W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 3.6ML IGL Rms: 0.1 secs**  
**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	552	325	EP		1510	24.51	-0.08							1.0
MORF	HE	552	325	ES		1511	18.42	0.08							1.0
MORF	HN	552	325	AML		1511	24.20			90	0.3				

**April 16 2013 Hour: 17: 4 27.7 Lat: 33.35N Lon: 12.80W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.9ML IGL Rms: 0.1 secs**  
**MADEIRA ISLANDS, PORTUGAL REGION Bet: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	579	40	EP		17 5	44.55	-0.08							1.0
MORF	HE	579	40	ES		17 6	40.87	0.08							1.0
MORF	HN	579	40	AML		17 6	44.23			16	0.3				

April 16 2013 Hour: 18:59 36.3 Lat: 37.30N Lon: 8.57W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.5ML 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	276	EP		1859	38.32	-0.03							1.0
MORF	HN	7	276	ES		1859	39.89	0.03							1.0
MORF	HN	7	276	AML		1859	40.43			269	0.2				

April 16 2013 Hour: 21:57 1.5 Lat: 36.87N Lon: 8.54W Depth: 15F 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	49	349	EP		2157	9.78	0.02							1.0
MORF	HN	49	349	ES		2157	15.74	-0.02							1.0
MORF	HE	49	349	AML		2157	16.43			15	0.2				

April 16 2013 Hour: 22:55 27.0 Lat: 3.22S Lon: 142.54E Depth: 13F Agency: IGL Distant  
Magnitudes: 6.6MS IGL Rms: 0.1 secs

NEAR NORTH COAST OF NEW GUINEA, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ15098	328	EPKpdf			2314	46.87	0.20							1.0
ALMR	BZ15098	328	EPP			2317	24.63	0.04							1.0
ALMR	BN15098	328	ESS			2335	23.17	-0.01							1.0
ALMR	BN15098	328	AMS			2416	21.69			13661	23.4				
GGNV	BZ15168	328	EPKpdf			2314	47.90	0.09							1.0
GGNV	BZ15168	328	EPP			2317	28.42	-0.09							1.0
GGNV	BN15168	328	ESS			2335	30.75	0.12							1.0
GGNV	BN15168	328	AMS			2417	3.52			14074	25.3				
MORF	BZ15250	326	EPKpdf			2314	49.13	-0.12							1.0
MORF	BZ15250	326	EPP			2317	33.09	-0.13							1.0
MORF	BN15250	326	ESS			2335	39.48	-0.09							1.0
MORF	BZ15250	326	AMS			2417	38.29			16085	35.7				

April 17 2013 Hour: 1:46 2.0 Lat: 26.00N Lon: 99.83E Depth: 55F Agency: IGL Distant  
Magnitudes: 5.4MB IGL Rms: 0.0 secs

YUNNAN, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9673	312	EP		158	41.26	-0.01							1.0
ALMR	BZ	9673	312	AMb		158	46.66			54	1.6				
MORF	BZ	9785	311	EP		158	46.21	0.01							1.0
MORF	BZ	9785	311	AMb		158	48.52			55	0.8				

April 17 2013 Hour: 3:15 53.8 Lat: 28.19N Lon: 62.31E Depth: 68F Agency: IGL Distant  
Magnitudes: 5.4MB IGL Rms: 0.1 secs

IRAN-PAKISTAN BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	6524	301	EP		325	44.15	0.14							1.0
ALMR	BZ	6524	301	AMb		325	46.53			185	1.2				
ALMR	BE	6524	301	ES		333	43.94	-0.02							1.0
MORF	BZ	6577	299	EP		325	47.34	-0.03							1.0
MORF	BZ	6577	299	AMb		325	49.14			48	1.3				
MORF	BN	6577	299	ES		333	50.12	-0.12							1.0
GGNV	BZ	6583	300	EP		325	47.74	0.05							1.0
GGNV	BZ	6583	300	AMb		325	50.77			163	1.2				
GGNV	BN	6583	300	ES		333	50.82	-0.02							1.0

April 17 2013 Hour: 6:12 1.8 Lat: 36.03N Lon: 10.43W 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	213	48	EP		612	31.06	0.00							1.0
MORF	HN	213	48	ES		612	52.41	0.00							1.0
MORF	HN	213	48	AML		612	54.73			15	0.3				

April 17 2013 Hour: 18:15 5.3 Lat: 37.32N Lon: 8.54W Depth: 16F Agency: IGL Regional  
Magnitudes: 0.5ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	261	EP		1815	8.30	-0.11							1.0
MORF	HN	10	261	ES		1815	10.77	0.11							1.0
MORF	HE	10	261	AML		1815	11.63			14	0.1				

April 19 2013 Hour: 0:34 40.3 Lat: 37.22N Lon: 7.83W Depth: 13F Agency: IGL Regional  
Magnitudes: 1.9ML 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	73	278	EP		034	52.27	0.14							1.0
MORF	HN	73	278	ES		035	0.63	-0.14							1.0
MORF	HN	73	278	AML		035	2.85			45	0.2				

April 19 2013 Hour: 3: 5 54.1 Lat: 46.18N Lon: 150.80E Depth:122FAgency: IGL Distant  
Magnitudes: 6.9MS 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
ALMR	BZ10341	344	EP			318	53.46	0.08							1.0
ALMR	BZ10341	344	EPP			322	38.11	-0.07							1.0
ALMR	BN10341	344	ESKSac			329	15.76	-0.13							1.0
ALMR	BZ10341	344	AMS			4 6	36.82			45477	23.1				
GGNV	BZ10400	344	EP			318	55.93	0.11							1.0
GGNV	BZ10400	344	EPP			322	42.43	0.10							1.0
GGNV	BN10400	344	ESKSac			329	18.89	0.09							1.0
GGNV	BZ10400	344	AMS			4 6	34.26			47988	18.4				
MORF	BZ10542	344	EP			319	1.75	0.02							1.0
MORF	BZ10542	344	EPP			322	52.11	-0.19							0.9
MORF	BN10542	344	ESKSac			329	25.81	-0.03							1.0
MORF	BZ10542	344	AMS			4 6	10.92			34017	19.4				

April 19 2013 Hour: 19:58 41.0 Lat: 49.96N Lon: 157.67E Depth: 20F Agency: IGL Distant  
Magnitudes: 6.3MS 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
ALMR	BZ10049	349	EP			2011	40.58	0.03							1.0
ALMR	BN10049	349	ESKSac			2022	10.93	0.12							1.0
ALMR	BZ10049	349	AMS			21 0	4.25			13053	18.8				
GGNV	BZ10104	350	EP			2011	42.94	0.08							1.0
GGNV	BN10104	350	ESKSac			2022	13.65	-0.03							1.0
GGNV	BZ10104	350	AMS			2058	18.92			11940	23.8				
MORF	BZ10252	349	EP			2011	49.14	0.01							1.0
MORF	BZ10252	349	EPP			2015	29.82	-0.16							1.0
MORF	BN10252	349	ESKSac			2022	21.37	-0.06							1.0
MORF	BN10252	349	AMS			21 0	26.16			10783	19.5				

April 19 2013 Hour: 20:38 18.7 Lat: 36.61N Lon: 8.08W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.4ML 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	93	327	EP		2038	33.29	-0.18							1.0
MORF	HN	93	327	ES		2038	44.43	0.18							1.0
MORF	HN	93	327	AML		2038	46.59			9	0.1				

April 19 2013 Hour: 21:41 4.9 Lat: 27.06N Lon: 53.86E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.5MB IGL Rms: 0.1 secs

SOUTHERN IRAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	5867	300	EP		2150	19.96	0.07							1.0
ALMR	BZ	5867	300	AMb		2150	22.46			70	1.0				



**April 20 2013 Hour: 0:247.3 Lat: 30.28N Lon: 102.94E Depth: 14F Agency: IGL Distant**  
**Magnitudes: 6.9MS IGL Rms: 0.1 secs**

**WESTERN SICHUAN, CHINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9572	314	EP		015	27.71	-0.02							1.0
ALMR	BZ	9572	314	EPP		018	47.56	0.10							1.0
ALMR	BN	9572	314	ES		025	52.23	-0.05							1.0
ALMR	BN	9572	314	ESS		031	41.02	0.05							1.0
ALMR	BE	9572	314	AMS		055	57.27		44378	23.7					
GGNV	BZ	9641	313	EP		015	30.73	-0.04							1.0
GGNV	BZ	9641	313	EPP		018	52.55	0.09							1.0
GGNV	BE	9641	313	ESKSac		025	56.13	0.00							1.0
GGNV	BN	9641	313	ESS		031	49.78	-0.24							0.9
GGNV	BZ	9641	313	AMS		1 3	6.91		44645	20.0					
MORF	BZ	9698	312	EP		015	33.33	-0.09							1.0
MORF	BZ	9698	312	EPP		018	56.74	0.01							1.0
MORF	BN	9698	312	ESKSac		025	59.66	0.15							1.0
MORF	BN	9698	312	ESS		031	57.78	0.01							1.0
MORF	BZ	9698	312	AMS		058	15.45		52281	17.9					

**April 20 2013 Hour: 3:48 45.6 Lat: 36.66N Lon: 9.68W Depth: 15F 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	116	52	EP		349	3.85	-0.08							1.0
MORF	HN	116	52	ES		349	17.40	0.08							1.0
MORF	HE	116	52	AML		349	18.05			3	0.2				

**April 20 2013 Hour: 4:51 11.6 Lat: 6.28S Lon: 130.21E Depth:105FAgency: IGL Distant**  
**Magnitudes: 5.6MS IGL Rms: 0.1 secs**

**BANDA SEA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ1	4530	318	EPKpdf		510	9.62	0.05							1.0
ALMR	BN1	4530	318	AMS		6 2	41.90		1327	23.5					
MORF	BZ1	4637	316	EPKpdf		510	11.40	-0.05							1.0
MORF	BZ1	4637	316	AMS		6 1	44.60		1710	22.6					

**April 20 2013 Hour: 11:21 11.0 Lat: 37.43N Lon: 7.92W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 2.9ML 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
MORF	HZ	66	258	EP		1121	21.85	-0.11							1.0
MORF	HN	66	258	ES		1121	30.04	0.10							1.0
MORF	HN	66	258	AML		1121	32.21		462	0.2					
ALMR	HZ	200	344	EP		1121	39.24	0.02							0.9

**April 20 2013 Hour: 13:12 50.7 Lat: 50.10N Lon: 157.16E Depth: 18F Agency: IGL Distant**  
**Magnitudes: 6.1MS IGL Rms: 0.2 secs**

**KURIL ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ1	0025	349	EP		1325	49.68	0.11							1.0
ALMR	BN1	0025	349	ESKSac		1336	19.76	-0.08							1.0
ALMR	BZ1	0025	349	AMS		1413	48.78		7497	19.2					
GGNV	BZ1	0081	349	EP		1325	52.11	0.22							1.0
GGNV	BE1	0081	349	ESKSac		1336	22.48	-0.25							1.0
GGNV	BZ1	0081	349	AMS		1413	47.05		7640	17.8					
MORF	BZ1	0229	349	EP		1325	58.32	0.16							1.0
MORF	BN1	0229	349	ESKSac		1336	30.33	-0.16							1.0
MORF	BZ1	0229	349	AMS		1416	12.12		6350	19.9					

**April 20 2013 Hour: 15:18 22.0 Lat: 42.73N Lon: 1.71W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 3.7ML IGL Rms: 0.2 secs**  
**PYRENEES Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	701	238	EP		1519	53.58	-0.19							1.0
ALMR	HN	701	238	ESg		1521	37.73	0.02							1.0
ALMR	HN	701	238	AML		1521	40.27			78	0.6				
MORF	HZ	845	227	EP		1520	10.90	0.21							0.9

**April 20 2013 Hour: 18:18 10.9 Lat: 38.79N Lon: 8.43W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.3 secs**  
**NE VENDAS NOVAS, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	42	343	EP		1818	17.43	-0.27							1.0
ALMR	HN	42	343	ES		1818	22.40	-0.30							1.0
ALMR	HN	42	343	AML		1818	23.43			33	0.2				
MORF	HZ	166	187	EP		1818	37.39	0.45							0.9
MORF	HN	166	187	ES		1818	56.18	0.20							0.9
MORF	HN	166	187	AML		1818	57.70			17	0.1				

**April 20 2013 Hour: 21:22 6.5 Lat: 37.33N Lon: 8.62W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.0 secs**  
**NW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	4	226	EP		2122	8.29	-0.01							1.0
MORF	HE	4	226	ES		2122	9.63	0.01							1.0
MORF	HN	4	226	AML		2122	10.10			115	0.3				

**April 20 2013 Hour: 22:21 55.2 Lat: 37.32N Lon: 8.56W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.0 secs**  
**NW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	259	EP		2221	58.48	-0.02							1.0
MORF	HE	8	259	ES		2222	0.97	0.02							1.0
MORF	HE	8	259	AML		2222	1.76			24	0.1				

**April 21 2013 Hour: 6: 4 8.3 Lat: 36.58N Lon: 7.75W Depth: 26F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	315	EP		6 4	25.45	-0.07							1.0
MORF	HE	114	315	ES		6 4	38.18	0.07							1.0
MORF	HN	114	315	AML		6 4	40.00			5	0.1				

**April 21 2013 Hour: 12:45 23.0 Lat: 37.11N Lon: 3.64W Depth: 0F 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
MORF	HZ	445	274	EP		1246	23.69	-0.13							1.0

**April 21 2013 Hour: 13:48 29.6 Lat: 51.65N Lon: 178.25W Depth: 44F Agency: IGL Distant**  
**Magnitudes: 5.4MB 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
ALMR	BZ	9900	8	EP		14 1	19.60	0.04							1.0
ALMR	BZ	9900	8	AMb		14 1	20.36			93	1.7				
MORF	BZ10103	8	EP			14 1	28.14	-0.04							1.0
MORF	BZ10103	8	AMb			14 1	38.33			42	1.7				

April 21 2013 Hour: 18:49 32.9 Lat: 35.73N Lon: 9.74W Depth: 18F Agency: IGL Regional  
Magnitudes: 3.5ML 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	200	29	EP		1850	1.59	0.10							1.0
MORF	HN	200	29	ES		1850	22.22	-0.17							1.0
MORF	HN	200	29	AML		1850	23.23			573	0.2				
GGNV	HN	336	9	ES		1850	51.70	0.32							0.9
GGNV	HN	336	9	AML		1850	54.00			197	0.2				
ALMR	HZ	394	15	EP		1850	25.54	0.04							0.9
ALMR	HE	394	15	ES		1851	3.62	-0.30							0.9
ALMR	HN	394	15	AML		1851	8.47			99	0.6				

April 22 2013 Hour: 0:30 6.6 Lat: 36.13N Lon: 7.84W Depth: 30F 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	149	331	EP		030	27.90	-0.12							1.0
MORF	HN	149	331	ES		030	43.76	0.12							1.0
MORF	HN	149	331	AML		030	45.04			26	0.2				

April 22 2013 Hour: 1:16 32.7 Lat: 18.16N Lon: 102.08W Depth: 29F Agency: IGL Distant  
Magnitudes: 5.7MS IGL Rms: 0.1 secs

MICHOACAN, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9024	52	EP		128	45.46	0.07							1.0
GGNV	BZ	9024	52	EPP		131	50.03	0.00							1.0
GGNV	BN	9024	52	ES		138	53.56	-0.10							1.0
GGNV	BZ	9024	52	AMS		2 4	48.22			4392	18.1				
ALMR	BZ	9058	52	EP		128	46.99	-0.04							1.0
ALMR	BZ	9058	52	EPP		131	52.66	0.07							1.0
ALMR	BE	9058	52	ES		138	56.73	-0.14							1.0
ALMR	BN	9058	52	ESS		144	13.90	0.11							1.0
ALMR	BZ	9058	52	AMS		2 6	35.66			4108	18.0				
MORF	BZ	9110	54	EP		128	49.57	0.00							1.0
MORF	BZ	9110	54	EPP		131	56.57	0.09							1.0
MORF	BN	9110	54	ES		139	1.75	-0.05							1.0
MORF	BZ	9110	54	AMS		2 3	42.52			3017	24.7				

April 22 2013 Hour: 3:45 46.3 Lat: 37.13N Lon: 8.23W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	298	EP		345	53.54	-0.11							1.0
MORF	HN	42	298	ES		345	59.14	0.11							1.0
MORF	HN	42	298	AML		345	59.75			22	0.2				

April 23 2013 Hour: 1:56 31.9 Lat: 43.20N Lon: 14.82W Depth: 14F Agency: IGL Regional  
Magnitudes: 3.0ML 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
ALMR	HZ	690	129	EP		158	0.76	-0.01							1.0
ALMR	HN	690	129	ES		159	5.68	0.01							1.0
ALMR	HN	690	129	AML		159	9.76			14	0.3				

April 23 2013 Hour: 13:17 33.4 Lat: 37.25N Lon: 8.51W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.2 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	297	EP		1317	37.15	-0.19							1.0
MORF	HN	14	297	ES		1317	40.38	0.19							1.0
MORF	HN	14	297	AML		1317	40.88			261	0.2				

April 23 2013 Hour: 23:14 41.9 Lat: 3.91S Lon: 152.13E Depth: 16F Agency: IGL Distant  
Magnitudes: 6.4MS IGL Rms: 0.1 secs

NEW IRELAND REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ15672	336		EPKpdf		2334	10.50	0.07							1.0
ALMR	BZ15672	336		AMS		25 8	4.17			5580	19.3				
GGNV	BZ15739	336		EPKpdf		2334	11.38	-0.11							1.0
GGNV	BZ15739	336		AMS		25 7	47.77			5329	21.9				
MORF	BZ15850	335		EPKpdf		2334	13.35	0.03							1.0
MORF	BZ15850	335		AMS		2453	50.45			5630	11.0				

April 24 2013 Hour: 0:18 33.1 Lat: 36.61N Lon: 9.78W Depth: 29F Agency: IGL Regional  
Magnitudes: 2.7ML 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	127	52	EP		018	51.69	-0.08							1.0
MORF	HN	127	52	ES		019	5.40	0.00							1.0
MORF	HE	127	52	AML		019	8.19			161	0.1				
ALMR	HZ	302	20	EP		019	13.46	0.00							0.9
ALMR	HE	302	20	ES		019	43.00	0.09							0.9
ALMR	HE	302	20	AML		019	46.89			23	0.3				

April 24 2013 Hour: 1:43 32.8 Lat: 38.79N Lon: 7.99W Depth: 1F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

N ARRAILOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	65	309	EP		143	43.18	-0.12							1.0
ALMR	HN	65	309	ES		143	51.07	0.12							1.0
ALMR	HN	65	309	AML		143	52.98			18	0.4				

April 24 2013 Hour: 5:23 36.9 Lat: 37.33N Lon: 8.56W Depth: 14F Agency: IGL Regional  
Magnitudes: 0.8ML 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		523	39.58	-0.02							1.0
MORF	HN	8	252	ES		523	41.58	0.02							1.0
MORF	HN	8	252	AML		523	42.50			33	0.2				

April 25 2013 Hour: 5:29 31.8 Lat: 34.16N Lon: 4.88W Depth: 12F 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	488	317	EP		530	36.42	-0.01							1.0
ALMR	HZ	645	330	EP		530	55.45	0.01							0.9

April 26 2013 Hour: 6:53 29.0 Lat: 28.74S Lon: 178.92W Depth: 349F Agency: IGL Distant  
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
ALMR	BZ18563	35		EPKpdf		712	52.60	0.03							1.0
ALMR	BN18563	35		ESS		738	2.23	-0.11							1.0
MORF	BZ18708	41		EPKpdf		712	53.54	-0.04							1.0
MORF	BN18708	41		ESS		738	15.50	0.12							1.0

April 27 2013 Hour: 11:9 44.2 Lat: 38.33N Lon: 7.98W Depth: 5F Agency: IGL Regional  
Magnitudes: 3.6ML IGL Rms: 0.2 secs

E VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	111	293	EP		1110	1.94	-0.04							1.0
GGNV	HE	111	293	ES		1110	15.31	0.33							1.0
GGNV	HN	111	293	AML		1110	18.15			1160	0.4				
MORF	HZ	128	208	EP		1110	4.44	-0.21							1.0
MORF	HN	128	208	ES		1110	19.52	-0.08							1.0

MORF HN 128 208 AML 1110 23.98 874 0.2

**April 27 2013 Hour: 19: 5 0.4 Lat: 36.11N Lon: 8.59W Depth: 32F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	133	358	EP		19	5	19.64	-0.04						1.0
MORF	HN	133	358	ES		19	5	33.79	0.04						1.0
MORF	HN	133	358	AML		19	5	35.57			23			0.2	

**April 28 2013 Hour: 4:42 45.1 Lat: 36.95N Lon: 10.97W Depth: 31F 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	210	78	EP		443		14.05	0.07						1.0
MORF	HE	210	78	ES		443		34.97	-0.07						1.0
MORF	HN	210	78	AML		443		36.65			25			0.1	

**April 28 2013 Hour: 6:31 50.4 Lat: 43.10N Lon: 1.31W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 0.1 secs**

**PYRENEES Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	896	227	EP		633		43.80	-0.08						1.0

**April 28 2013 Hour: 23: 4 5.3 Lat: 36.60N Lon: 9.75W Depth: 17F 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	125	51	EP		23	4	24.64	-0.09						1.0
MORF	HE	125	51	ES		23	4	38.99	0.09						1.0
MORF	HE	125	51	AML		23	4	41.88			7			0.1	

**April 29 2013 Hour: 19:14 52.1 Lat: 36.85N Lon: 8.24W Depth: 8F 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	62	324	EP		1915		2.19	-0.04						1.0
MORF	HE	62	324	ES		1915		9.70	0.04						1.0
MORF	HE	62	324	AML		1915		11.36			14			0.4	

**April 29 2013 Hour: 19:27 27.2 Lat: 34.76N Lon: 2.27W Depth: 5F Agency: IGL Regional**  
**Magnitudes: 0.1 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	641	298	EP		1928		51.09	-0.05						1.0

**April 30 2013 Hour: 0:46 44.1 Lat: 36.70N Lon: 9.63W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 1.7ML 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	110	52	EP		047		1.43	0.00						1.0
MORF	HE	110	52	ES		047		14.09	0.00						1.0
MORF	HE	110	52	AML		047		15.89			15			0.1	

**April 30 2013 Hour: 6:25 15.7 Lat: 37.53N Lon: 24.89W Depth: 5F Agency: IGL Distant**  
**Magnitudes: 5.4MS IGL Rms: 0.2 secs**

**AZORES ISLANDS REGION Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	1385	80	EP		628		13.43	-0.20						1.0
GGNV	HN	1385	80	AMS		631		51.92			41225			16.4	
MORF	HZ	1436	86	EP		628		20.17	0.20						1.0
MORF	HN	1436	86	AMS		631		54.76			23353			18.6	

April 30 2013 Hour: 20:19 45.2 Lat: 37.28N Lon: 13.13W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.9ML 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	397	88	EP		2020	40.00	-0.04							1.0
MORF	HE	397	88	ES		2021	20.08	0.04							1.0
MORF	HN	397	88	AML		2021	24.46			30	0.2				

April 30 2013 Hour: 22:25 24.1 Lat: 36.37N Lon: 10.17W Depth: 31F 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	171	52	EP		2225	48.03	-0.06							1.0
MORF	HE	171	52	ES		2226	5.66	0.06							1.0
MORF	HE	171	52	AML		2226	7.42			11	0.2				