

# Seismological Bulletin

from the

UNIVERSITY OF LISBON

## IDL Seismic Network

July to August

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

**July 1 2013 Hour: 7:45 13.5 Lat: 36.63N Lon: 7.61W Depth: 25F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	145	338	EP		745	34.54	-0.07							1.0
MESJ	HN	145	338	ES		745	50.10	0.07							1.0
MESJ	HN	145	338	AML		745	51.81			3	0.2				

**July 1 2013 Hour: 11:55 45.4 Lat: 36.79N Lon: 9.36W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	85	48	EP		1155	59.12	0.08							1.0
MORF	HN	85	48	ES		1156	9.01	0.04							1.0
MORF	HN	85	48	AML		1156	9.86			26	0.2				
MESJ	HZ	154	41	EP		1156	7.62	-0.18							1.0
MESJ	HN	154	41	ES		1156	24.18	0.06							1.0
MESJ	HN	154	41	AML		1156	26.26			6	0.2				

**July 1 2013 Hour: 12:20 58.6 Lat: 36.50N Lon: 8.63W Depth: 23F 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	90	359	EP		1221	12.70	-0.10							1.0
MORF	HE	90	359	ES		1221	23.32	0.15							1.0
MORF	HN	90	359	AML		1221	25.24			30	0.3				
MESJ	HZ	153	14	EP		1221	20.93	0.05							1.0
MESJ	HN	153	14	ES		1221	37.06	-0.09							1.0
MESJ	HN	153	14	AML		1221	37.58			9	0.1				

**July 2 2013 Hour: 0: 2 36.9 Lat: 35.95N Lon: 10.51W Depth: 31F 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	224	47	EP		0 3	7.58	0.00							1.0
MESJ	HZ	293	44	EP		0 3	16.01	-0.03							1.0
MESJ	HN	293	44	ES		0 3	44.61	0.03							1.0
MESJ	HN	293	44	AML		0 3	48.27			2	0.2				

**July 2 2013 Hour: 2: 2 20.7 Lat: 37.72N Lon: 8.28W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**NW OURIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	14	22	EP		2 2	22.88	-0.10							1.0
MESJ	HE	14	22	ES		2 2	24.78	0.10							1.0
MESJ	HN	14	22	AML		2 2	24.96			71	0.1				
MORF	HZ	56	216	EP		2 2	29.87	0.10							1.0
MORF	HN	56	216	ES		2 2	36.32	-0.10							1.0
MORF	HN	56	216	AML		2 2	36.51			21	0.2				

**July 2 2013 Hour: 6:24 4.2 Lat: 37.17N Lon: 8.49W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.0 secs**

**W SILVES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	21	317	EP		624	7.70	-0.05							1.0
MORF	HN	21	317	ES		624	10.41	0.05							1.0
MORF	HE	21	317	AML		624	11.19			25	0.2				
MESJ	HZ	78	18	EP		624	16.83	0.00							1.0

July 2 2013 Hour: 7:37 3.0 Lat: 4.70N Lon: 96.69E Depth: 10F Agency: IGL Distant  
 Magnitudes: 5.9MS IGL Rms: 0.1 secs  
 NORTHERN SUMATRA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11000	309		EPdif		750	42.95	0.06							1.0
MESJ	BN11000	309		ESKSac		8 1	20.92	-0.13							1.0
MESJ	BZ11000	309		AMS		846	3.44		3489	18.2					
MORF	BE11051	309		ESKSac		8 1	23.16	-0.25							1.0
MORF	BE11051	309		AMS		847	41.50		4062	18.3					

July 2 2013 Hour: 8: 3 7.8 Lat: 37.30N Lon: 8.62W Depth: 10F Agency: IGL Regional  
 Magnitudes: 2.4ML IGL Rms: 0.1 secs  
 SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	3	284	EP		8 3	9.47	-0.04							1.0
MORF	HN	3	284	ES		8 3	10.94	0.14							1.0
MORF	HN	3	284	AML		8 3	11.75		3043	0.3					
MESJ	HZ	70	30	EP		8 3	19.07	0.00							1.0
MESJ	HN	70	30	ES		8 3	27.24	-0.10							1.0
MESJ	HN	70	30	AML		8 3	30.23		120	0.1					

July 2 2013 Hour: 8:26 30.6 Lat: 37.32N Lon: 8.63W Depth: 9F Agency: IGL Regional  
 Magnitudes: 0.9ML IGL Rms: 0.1 secs  
 W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	2	231	EP		826	31.95	-0.20							1.0
MORF	HN	2	231	ES		826	33.47	0.16							1.0
MORF	HN	2	231	AML		826	33.95		74	0.1					
MESJ	HZ	68	32	EP		826	41.72	0.08							1.0
MESJ	HN	68	32	ES		826	49.70	-0.03							1.0
MESJ	HN	68	32	AML		826	52.67		6	0.1					

July 2 2013 Hour: 13:33 16.9 Lat: 1.62N Lon: 30.91E Depth: 10F Agency: IGL Distant  
 Magnitudes: 4.6MS IGL Rms: 0.1 secs  
 LAKE ALBERT REGION, UGANDA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5663	320	EP		1342	18.04	-0.08							1.0
MESJ	BZ	5663	320	AMS		14 7	22.04		456	17.1					

July 2 2013 Hour: 20: 4 55.5 Lat: 23.81S Lon: 66.40W Depth: 193F Agency: IGL Distant  
 Rms: 0.2 secs  
 JUJUY, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9070	43	EP		2016	51.16	-0.34							0.9
MORF	BZ	9070	43	EpP		2017	38.18	-0.20							1.0
MORF	BN	9070	43	ES		2026	47.35	-0.06							1.0
GGNV	BZ	9134	42	EpP		2017	41.58	0.24							1.0
GGNV	BN	9134	42	ES		2026	53.24	0.17							1.0
MESJ	BZ	9137	43	EP		2016	54.45	-0.10							1.0
MESJ	BZ	9137	43	EpP		2017	41.53	0.02							1.0
MESJ	BN	9137	43	ES		2026	53.30	-0.11							1.0
ALMR	BZ	9203	42	EpP		2017	45.08	0.44							0.9
ALMR	BN	9203	42	ES		2026	59.31	0.01							1.0

July 2 2013 Hour: 23:36 49.6 Lat: 35.53N Lon: 4.91W Depth: 9F Agency: IGL Regional  
 Magnitudes: 2.6ML 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	389	302	EP		2337	42.44	-0.04							1.0
MORF	HN	389	302	ES		2338	21.34	0.24							1.0
MORF	HN	389	302	AML		2338	24.36		22	0.5					
MESJ	HZ	391	312	EP		2337	42.72	-0.01							1.0
MESJ	HE	391	312	ES		2338	21.35	-0.19							1.0

MESJ HN 391 312 AML 2338 23.38 15 0.1

**July 3 2013 Hour: 3:40 27.0 Lat: 51.53N Lon: 166.94W Depth: 5F Agency: IGL Distant  
Magnitudes: 5.3MS IGL Rms: 0.1 secs**

**FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9747	17	EP		353	16.19	-0.16							1.0
ALMR	BZ	9747	17	EPP		356	42.19	0.05							1.0
ALMR	BN	9747	17	ESKSac		4 3	45.04	-0.01							1.0
ALMR	BZ	9747	17	AMS		434	24.26		1459	20.0					
GGNV	BZ	9783	17	EP		353	17.82	-0.06							1.0
GGNV	BZ	9783	17	EPP		356	44.72	0.01							1.0
GGNV	BN	9783	17	AMS		439	28.19		1031	24.9					
MESJ	BZ	9896	17	EP		353	22.86	0.13							1.0
MESJ	BZ	9896	17	EPP		356	52.88	-0.03							1.0
MESJ	BN	9896	17	ESKSac		4 3	53.27	0.08							1.0
MESJ	BZ	9896	17	AMS		433	23.76		1234	17.5					
MORF	BZ	9945	17	EP		353	24.71	-0.14							1.0
MORF	BZ	9945	17	EPP		356	56.61	0.14							1.0
MORF	BN	9945	17	ESKSac		4 3	55.88	-0.01							1.0
MORF	BE	9945	17	AMS		433	57.17		899	20.7					

**July 3 2013 Hour: 7: 4 17.3 Lat: 36.50N Lon: 70.43E Depth:204F Agency: IGL Distant  
Magnitudes: 4.5MB IGL Rms: 0.1 secs**

**HINDU KUSH REGION, AFGHANISTAN Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6764	297	EP		714	7.96	-0.12							1.0
MESJ	BZ	6764	297	AMb		714	8.84		20	1.0					

**July 3 2013 Hour: 10:31 2.5 Lat: 38.22N Lon: 8.65W Depth: 20F Agency: IGL Regional  
Magnitudes: 0.5ML IGL Rms: 0.0 secs**

**NW GRANDOLA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	57	138	EP		1031	11.87	-0.04							1.0
MESJ	HE	57	138	ES		1031	18.83	0.04							1.0
MESJ	HN	57	138	AML		1031	21.03		3	0.1					

**July 3 2013 Hour: 11:33 19.6 Lat: 37.64N Lon: 9.15W Depth: 15F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs**

**SW SINES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	85	75	EP		1133	33.13	-0.08							1.0
MESJ	HN	85	75	ES		1133	43.18	0.08							1.0
MESJ	HE	85	75	AML		1133	44.04		36	0.2					

**July 3 2013 Hour: 13:28 23.0 Lat: 40.13N Lon: 21.86E Depth: 17F Agency: IGL Distant  
Magnitudes: 4.5MB IGL Rms: 0.1 secs**

**GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2606	274	EP		1333	31.77	0.14							1.0
MESJ	BZ	2606	274	AMb		1333	46.04		32	1.6					
MESJ	BE	2606	274	ES		1337	44.96	-0.10							1.0
MORF	BZ	2659	273	EP		1333	36.02	-0.07							1.0
MORF	BZ	2659	273	AMb		1333	40.80		23	1.6					
MORF	BN	2659	273	ES		1337	52.86	0.03							1.0

**July 3 2013 Hour: 19:21 45.7 Lat: 1.56N Lon: 30.85E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.6MS IGL Rms: 0.1 secs**

**LAKE VICTORIA REGION, CONGO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5660	319	EP		1930	46.76	-0.03							1.0
MORF	BE	5660	319	ES		1938	3.99	0.00							1.0
MORF	BE	5660	319	ESS		1941	39.37	-0.22							1.0
MORF	BZ	5660	319	AMS		1955	41.45		4247	18.1					

MESJ	BZ	5663	320	EP		1930	46.76	-0.19									1.0
MESJ	BN	5663	320	ES		1938	4.22	-0.07									1.0
MESJ	BN	5663	320	ESS		1941	40.17	0.21									1.0
MESJ	BZ	5663	320	AMS		1955	50.78			4719	14.8						
ALMR	BZ	5774	321	EP		1930	54.33	-0.08									1.0
ALMR	BN	5774	321	ES		1938	18.17	0.13									1.0
ALMR	BN	5774	321	ESS		1941	55.89	0.16									1.0
ALMR	BZ	5774	321	AMS		1956	7.18			7447	18.6						
GGNV	BZ	5786	320	EP		1930	55.27	0.08									1.0
GGNV	BZ	5786	320	AMS		1955	40.75			6168	17.0						

**July 3 2013 Hour: 19:31 24.0 Lat: 36.59N Lon: 9.79W Depth: 17F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	129	52	EP		1931	43.89	0.00							1.0
MORF	HN	129	52	ES		1931	58.32	-0.05							1.0
MORF	HN	129	52	AML		1932	0.41			14	0.2				
MESJ	HZ	197	45	EP		1931	52.33	0.06							1.0
MESJ	HN	197	45	ES		1932	12.86	-0.01							1.0
MESJ	HN	197	45	AML		1932	14.25			7	0.5				

**July 3 2013 Hour: 20:13 34.4 Lat: 32.30S Lon: 179.99W Depth: 226F Agency: IGL Distant**  
**Rms: 0.0 secs**

**SOUTH OF KERMADEC ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	19049	48	EPKpdf		2033	15.05	-0.02							1.0
MORF	BZ	19052	53	EPKpdf		2033	15.15	0.02							1.0

**July 3 2013 Hour: 21:33 49.3 Lat: 36.56N Lon: 8.66W 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	83	1	EP		2134	2.57	-0.06							1.0
MESJ	HZ	147	15	EP		2134	11.38	0.16							1.0
MESJ	HN	147	15	ES		2134	27.13	-0.10							1.0
MESJ	HN	147	15	AML		2134	27.68			3	0.2				

**July 3 2013 Hour: 23:25 16.8 Lat: 37.22N Lon: 12.74W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 2.3ML 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
MORF	HZ	363	87	EP		2326	6.79	-0.42							1.0
MESJ	HZ	405	79	EP		2326	12.84	0.38							1.0
MESJ	HN	405	79	ES		2326	53.01	-0.06							1.0
MESJ	HN	405	79	AML		2326	59.16			3	0.5				
ALMR	HZ	423	58	EP		2326	14.73	0.04							1.0
ALMR	HE	423	58	ES		2326	57.00	0.08							1.0
ALMR	HN	423	58	AML		2327	3.72			15	0.7				

**July 4 2013 Hour: 8:15 47.5 Lat: 37.18N Lon: 8.58W Depth: 3F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**NW PORTIMAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	336	EP		815	49.95	-0.12							1.0
MORF	HN	15	336	ES		815	51.93	0.00							1.0
MORF	HN	15	336	AML		815	52.32			220	0.1				
MESJ	HZ	80	23	EP		816	0.55	0.14							1.0
MESJ	HN	80	23	ES		816	9.81	-0.01							1.0
MESJ	HN	80	23	AML		816	13.18			21	0.1				

**July 4 2013 Hour: 17:16 1.2 Lat: 7.04S Lon: 155.64E Depth: 72F Agency: IGL Distant**  
**Magnitudes: 5.8MS IGL Rms: 0.1 secs**  
**SOLOMON ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ16141	338	EP	KPdf		1735	29.45	-0.05							1.0
ALMR	BZ16141	338	AMS			1839	54.58			2036	20.0				
GGNV	BZ16208	339	EP	KPdf		1735	30.58	0.09							1.0
GGNV	BE16208	339	AMS			1837	42.76			1628	26.3				
MESJ	BZ16254	337	EP	KPdf		1735	31.06	-0.17							1.0
MESJ	BZ16254	337	AMS			1839	13.08			1846	23.1				
MORF	BZ16325	337	EP	KPdf		1735	32.48	0.14							1.0
MORF	BZ16325	337	AMS			1841	24.94			2314	22.1				

**July 4 2013 Hour: 17:25 5.2 Lat: 37.11N Lon: 5.58W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 3.1ML 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	247	290	EP		1725	40.47	0.20							1.0
MESJ	HN	247	290	ES		1726	5.75	-0.10							1.0
MESJ	HE	247	290	ES		1726	14.16	-0.11							1.0
MESJ	HN	247	290	AML		1726	19.75			45	0.2				
MORF	HZ	274	275	EP		1725	43.66	0.08							1.0
ALMR	HZ	347	312	EP		1725	52.94	0.27							1.0
ALMR	HN	347	312	ES		1726	41.77	-0.34							1.0
ALMR	HN	347	312	AML		1726	52.75			156	0.6				

**July 5 2013 Hour: 0:41 28.6 Lat: 22.50S Lon: 68.40W Depth: 112F Agency: IGL Distant**  
**Magnitudes: 5.1MB IGL Rms: 0.0 secs**  
**ANTOFAGASTA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9171	44	EP		053	38.52	0.04							1.0
MESJ	BZ	9171	44	AMb		053	40.39			25	1.2				
ALMR	BZ	9233	43	EP		053	41.24	-0.04							1.0
ALMR	BZ	9233	43	AMb		053	43.51			49	0.8				

**July 5 2013 Hour: 3:15 50.9 Lat: 31.31N Lon: 9.85W Depth: 18F Agency: IGL Regional**  
**Magnitudes: 2.9ML 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	674	9	EP		317	17.58	0.01							1.0
MORF	HN	674	9	ES		318	20.79	-0.08							1.0
MORF	HN	674	9	AML		318	27.66			23	0.2				
MESJ	HZ	740	11	EP		317	25.25	-0.02							1.0
MESJ	HE	740	11	ES		318	34.28	0.09							1.0
MESJ	HN	740	11	AML		318	42.31			6	0.1				

**July 5 2013 Hour: 16:39 21.3 Lat: 38.09N Lon: 8.52W Depth: 5F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.1 secs**  
**SE GRANDOLA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	38	136	EP		1639	27.43	-0.06							1.0
MESJ	HE	38	136	ES		1639	32.11	0.06							1.0
MESJ	HN	38	136	AML		1639	33.16			7	0.2				

**July 5 2013 Hour: 16:42 59.4 Lat: 38.00N Lon: 8.24W Depth: 2F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.0 secs**  
**SW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	18	174	EP		1643	2.30	0.02							1.0
MESJ	HN	18	174	ES		1643	4.38	-0.02							1.0
MESJ	HN	18	174	AML		1643	4.94			36	0.1				

**July 5 2013 Hour: 17:26 57.0 Lat: 36.38N Lon: 9.03W Depth: 1 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	108	18	EP		1727	14.34	-0.14							1.0
MORF	HN	108	18	ES		1727	27.36	0.14							1.0
MORF	HN	108	18	AML		1727	29.07			19	0.3				

**July 5 2013 Hour: 19:51 5.8 Lat: 37.36N Lon: 2.07W Depth: 7F Agency: IGL Regional**  
**Rms: 0.1 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	545	278	EP		1952	18.11	0.13							1.0

**July 5 2013 Hour: 21:24 14.3 Lat: 37.57N Lon: 10.09W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	131	103	EP		2124	34.91	0.02							1.0
MORF	HN	131	103	ES		2124	49.94	0.01							1.0
MORF	HN	131	103	AML		2124	50.97			3	0.1				
MESJ	HZ	168	79	EP		2124	39.33	-0.21							1.0
MESJ	HN	168	79	ES		2124	58.08	0.10							1.0
MESJ	HN	168	79	AML		2125	2.48			3	0.2				
ALMR	HN	220	36	ES		2125	9.34	0.08							1.0

**July 6 2013 Hour: 5:5 6.6 Lat: 3.25S Lon: 100.57E Depth: 20F Agency: IGL Distant**  
**Magnitudes: 5.8MS IGL Rms: 0.2 secs**

**KEPULAUAN, MENTAWAI REGION, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11888	308	EP			519	20.66	0.43							1.0
MESJ	BZ11888	308	EPP			523	45.95	-0.12							1.0
MESJ	BE11888	308	ESS			538	52.13	0.16							1.0
MESJ	BE11888	308	AMS			618	5.30			2896	27.3				
ALMR	BZ11895	310	EPP			523	46.42	-0.08							1.0
ALMR	BE11895	310	ESS			538	52.68	-0.08							1.0
ALMR	BE11895	310	AMS			615	53.90			2691	14.8				
MORF	BZ11936	308	EPP			523	49.02	-0.21							1.0
MORF	BE11936	308	AMS			610	4.91			2843	23.4				
GGNV	BZ11953	309	EPP			523	50.19	-0.08							1.0
GGNV	BN11953	309	AMS			630	16.72			3007	19.6				

**July 6 2013 Hour: 7:5 40.9 Lat: 23.49S Lon: 66.45W Depth: 201F Agency: IGL Distant**  
**Magnitudes: 4.9MB IGL Rms: 0.1 secs**

**JUJUY, ARGENTINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9114	43	EP		717	38.07	0.06							1.0
MESJ	BZ	9114	43	AMb		717	43.23			55	1.7				
ALMR	BZ	9180	42	EP		717	40.97	-0.06							1.0
ALMR	BZ	9180	42	AMb		717	44.09			38	1.1				

**July 6 2013 Hour: 19:40 28.9 Lat: 18.91S Lon: 69.31W Depth: 102F Agency: IGL Distant**  
**Magnitudes: 5.0MB IGL Rms: 0.1 secs**

**TARAPACA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8890	45	EP		1952	26.64	-0.05							1.0
MORF	BZ	8890	45	AMb		1952	29.12			83	2.0				
MESJ	BZ	8954	45	EP		1952	29.80	0.08							1.0
MESJ	BZ	8954	45	AMb		1952	32.36			25	2.1				
ALMR	BZ	9008	43	EP		1952	32.22	-0.04							1.0
ALMR	BZ	9008	43	AMb		1952	34.12			45	0.8				



July 7 2013 Hour: 17:52 31.7 Lat: 37.31N Lon: 8.64W Depth: 13F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.0 secs

W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	1	247	EP		1752	33.93	0.02							1.0
MORF	HE	1	247	ES		1752	35.48	-0.02							1.0
MORF	HN	1	247	AML		1752	36.23			489	0.3				
MESJ	HE	70	32	ES		1752	51.12	0.00							1.0
MESJ	HN	70	32	AML		1752	55.13			10	0.4				

July 7 2013 Hour: 18:35 30.1 Lat: 3.94S Lon: 153.88E Depth: 379F Agency: IGL Distant  
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	BZ15751	338	EPKpdf			1854	16.02	-0.03							1.0
GGNV	BZ15818	338	EPKpdf			1854	16.97	-0.12							1.0
MESJ	BZ15863	336	EPKpdf			1854	17.83	0.00							1.0
MORF	BZ15933	336	EPKpdf			1854	19.13	0.15							1.0

July 7 2013 Hour: 20:30 7.5 Lat: 6.02S Lon: 149.72E Depth: 62F Agency: IGL Distant  
Magnitudes: 6.4MS 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
ALMR	BZ15765	332	EPKpdf			2049	31.20	0.08							1.0
ALMR	BN15765	332	AMS			2144	26.18			7126	21.4				
MORF	BZ15933	331	EPKpdf			2049	33.76	-0.08							1.0
MORF	BN15933	331	AMS			2154	24.81			6885	21.4				

July 8 2013 Hour: 2:13 42.6 Lat: 8.75S Lon: 113.06E Depth: 77F Agency: IGL Distant  
Rms: 0.0 secs

JAVA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ13344	310	EPKpdf			232	23.80	-0.05							1.0
MORF	BZ13398	308	EPKpdf			232	24.89	0.05							1.0

July 8 2013 Hour: 2:52 46.2 Lat: 13.36N Lon: 89.08W Depth: 97F Agency: IGL Distant  
Magnitudes: 5.2MB IGL Rms: 0.1 secs

OFFSHORE EL SALVADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ 8233	53	EP			3 4	11.34	0.11							1.0
GGNV	BZ 8233	53	AMb			3 4	13.64			68	1.9				
ALMR	BZ 8279	53	EP			3 4	13.40	-0.23							1.0
ALMR	BZ 8279	53	AMb			3 4	16.18			109	1.4				
MORF	BZ 8289	55	EP			3 4	14.27	0.00							1.0
MORF	BZ 8289	55	AMb			3 4	17.76			74	1.8				
MORF	BE 8289	55	ES			313	42.26	0.12							1.0

July 8 2013 Hour: 4: 3 20.3 Lat: 43.18N Lon: 3.64W Depth: 11F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	609	224	EP		4 4	39.72	0.03							1.0
MORF	HZ	779	215	EP		4 4	59.96	-0.03							0.9

July 8 2013 Hour: 4:52 4.7 Lat: 36.60N Lon: 11.31W Depth: 30F Agency: IGL Regional  
Magnitudes: 3.2ML 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	249	71	EP		452	38.70	0.19							1.0
MORF	HN	249	71	ES		453	2.78	-0.43							1.0
MORF	HN	249	71	AML		453	4.92			184	0.4				
GGNV	HZ	303	38	EP		452	45.19	0.13							1.0
GGNV	HE	303	38	ES		453	14.41	-0.12							1.0

GGNV	HN	303	38	AML	453	19.13			95	0.4									
ALMR	HZ	372	39	EP	452	53.86	0.18												0.9
ALMR	HN	372	39	ES	453	29.53	0.09												0.9
ALMR	HN	372	39	AML	453	32.55			45	0.1									

**July 8 2013 Hour: 15:30 27.9 Lat: 16.68N Lon: 40.79E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.0MS IGL Rms: 0.0 secs**

**RED SEA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BN	5343	305	ES		1546	6.17	0.05							1.0
MORF	BE	5343	305	AMS		1558	28.69			1631	19.5				
ALMR	BZ	5380	308	EP		1539	9.63	-0.05							1.0
ALMR	BN	5380	308	ES		1546	10.77	0.00							1.0
ALMR	BN	5380	308	AMS		1557	42.96			1927	26.0				

**July 8 2013 Hour: 18: 4 10.3 Lat: 37.32N Lon: 8.62W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	3	241	EP		18	4	12.51	-0.02						1.0
MORF	HE	3	241	ES		18	4	14.19	0.02						1.0
MORF	HN	3	241	AML		18	4	15.19		683	0.2				

**July 9 2013 Hour: 13:20 18.9 Lat: 36.74N Lon: 11.06W Depth: 44F 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	223	73	EP		1320	49.61	0.09							1.0
MORF	HN	223	73	ES		1321	11.76	-0.09							1.0
MORF	HN	223	73	AML		1321	14.75			6	0.2				

**July 9 2013 Hour: 20:51 46.6 Lat: 19.03S Lon: 69.01W Depth: 108F Agency: IGL Distant**  
**Magnitudes: 5.0MB IGL Rms: 0.0 secs**

**TARAPACA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	8996	43	EP		21	3	48.73	0.04						1.0
ALMR	BZ	8996	43	AMB		21	3	55.51		44	1.2				

**July 10 2013 Hour: 2:26 39.6 Lat: 36.07N Lon: 8.41W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	139	351	EP		226	59.66	0.03							1.0
MORF	HN	139	351	ES		227	14.23	-0.03							1.0
MORF	HN	139	351	AML		227	18.63			12	0.3				

**July 10 2013 Hour: 3: 7 58.5 Lat: 37.35N Lon: 8.49W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 2.2ML IGL Rms: 0.0 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	251	EP		3	8	1.83	-0.01						1.0
MORF	HE	15	251	ES		3	8	4.30	0.01						1.0
MORF	HN	15	251	AML		3	8	5.05		571	0.2				

**July 10 2013 Hour: 8: 5 25.6 Lat: 37.36N Lon: 8.47W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 1.0ML 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	17	250	EP		8	5	29.06	-0.04						1.0
MORF	HN	17	250	ES		8	5	31.70	0.04						1.0
MORF	HN	17	250	AML		8	5	32.38		32	0.1				

**July 10 2013 Hour: 14:32 15.1 Lat: 19.22S Lon: 69.15W Depth:107F Agency: IGL Distant**  
**Magnitudes: 5.6MB IGL Rms: 0.1 secs**

**TARAPACA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8903	45	EP		1444	12.86	0.00							1.0
MORF	BZ	8903	45	AMb		1444	14.91			133	1.1				
MORF	BN	8903	45	ES		1454	8.60-0.15								1.0
GGNV	BZ	8954	43	EP		1444	15.17-0.02								1.0
GGNV	BZ	8954	43	AMb		1444	16.53			105	0.8				
ALMR	BZ	9022	43	EP		1444	18.72	0.25							1.0
ALMR	BZ	9022	43	AMb		1444	20.01			153	0.8				
ALMR	BN	9022	43	ES		1454	19.63-0.07								1.0

**July 11 2013 Hour: 22: 2 51.8 Lat: 37.33N Lon: 8.54W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.4ML 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	255	EP		22	2	54.85	0.10						1.0
MORF	HN	10	255	ES		22	2	56.82-0.10							1.0
MORF	HN	10	255	AML		22	2	57.29		110	0.3				

**July 12 2013 Hour: 2:19 51.9 Lat: 34.22N Lon: 9.65W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	354	14	EP		220	38.66	0.01							1.0
MORF	HN	354	14	ES		221	12.78-0.01								1.0
MORF	HN	354	14	AML		221	15.46			3	0.1				

**July 12 2013 Hour: 9:43 15.4 Lat: 36.76N Lon: 8.47W Depth: 10F 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	63	345	EP		943	25.72	0.04							1.0
MORF	HN	63	345	ES		943	33.13-0.04								1.0
MORF	HN	63	345	AML		943	35.03			22	0.1				

**July 12 2013 Hour: 15: 0 57.5 Lat: 36.62N Lon: 7.52W Depth: 55F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	126	307	EP		15	1	16.37-0.02							1.0

**July 12 2013 Hour: 19:59 49.1 Lat: 62.08N Lon: 124.23W Depth: 8F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.0 secs**

**NORTHWEST TERRITORIES, CANADA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7579	51	EP		2010	50.16	0.00							1.0
MORF	BZ	7579	51	AMb		2010	59.88			27	0.6				

**July 13 2013 Hour: 4: 7 6.5 Lat: 37.31N Lon: 8.56W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.1ML 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	8	267	EP		4	7	8.65	0.01						1.0
MORF	HN	8	267	ES		4	7	10.20-0.01							1.0
MORF	HN	8	267	AML		4	7	10.84		107	0.2				

**July 13 2013 Hour: 8:32 49.7 Lat: 36.66N Lon: 9.80W Depth: 16F 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	125	55	EP		833	9.13	0.01							1.0
MORF	HN	125	55	ES		833	23.30	-0.01							1.0
MORF	HN	125	55	AML		833	27.46			5	0.3				

**July 13 2013 Hour: 11:35 48.5 Lat: 36.85N Lon: 11.00W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.9ML IGL Rms: 0.2 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	215	76	EP		1136	18.01	0.04							1.0
MORF	HE	215	76	ES		1136	39.29	-0.20							1.0
MORF	HN	215	76	AML		1136	40.76			82	0.1				
ALMR	HN	333	39	ES		1137	4.95	0.19							0.9
ALMR	HN	333	39	AML		1137	8.09			45	0.3				

**July 13 2013 Hour: 13:18 3.0 Lat: 36.26N Lon: 8.04W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	128	335	EP		1318	23.61	-0.06							1.0
MORF	HN	128	335	ES		1318	38.84	0.06							1.0
MORF	HN	128	335	AML		1318	41.49			9	0.2				

**July 13 2013 Hour: 18:23 38.0 Lat: 38.20N Lon: 8.94W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**

**NW MELIDES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	102	166	EP		1823	54.40	0.12							1.0
MORF	HE	102	166	ES		1824	6.08	-0.12							1.0
MORF	HN	102	166	AML		1824	7.43			7	0.3				

**July 13 2013 Hour: 19:13 15.0 Lat: 36.66N Lon: 9.75W Depth: 17F 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	121	53	EP		1913	33.97	0.02							1.0
MORF	HE	121	53	ES		1913	47.73	-0.02							1.0
MORF	HN	121	53	AML		1913	48.77			26	0.2				

**July 13 2013 Hour: 21:29 34.1 Lat: 36.42N Lon: 9.65W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Met: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	133	42	EP		2129	53.41	0.00							1.0
MORF	HN	133	42	ES		2130	7.47	0.00							1.0
MORF	HN	133	42	AML		2130	9.39			7	0.3				

**July 14 2013 Hour: 3:10 29.1 Lat: 36.49N Lon: 7.73W Depth: 26F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	122	318	EP		310	47.37	-0.01							1.0

**July 15 2013 Hour: 0:10 52.1 Lat: 38.74N Lon: 7.88W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**

**E ARRAIOS, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	76	308	EP		011	4.31	-0.08							1.0
ALMR	HN	76	308	ES		011	13.48	0.08							1.0
ALMR	HN	76	308	AML		011	15.78			28	0.3				

**July 15 2013 Hour: 14: 3 43.0 Lat: 60.87S Lon: 25.14W Depth: 31F Agency: IGL Distant**  
**Magnitudes: 7.1MS IGL Rms: 0.0 secs**

**SOUTH SANDWICH ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10965	13	EPdif			1417	19.36	0.00							1.0
MORF	BN10965	13	ESKSac			1427	54.98	-0.03							1.0
MORF	BZ10965	13	AMS			1455	45.29		49302	22.7					
GGNV	BZ11113	13	EPdif			1417	25.26	0.03							1.0
GGNV	BZ11113	13	AMS			1456	32.22		77319	23.6					
ALMR	BZ11168	13	EPdif			1417	27.45	0.00							1.0
ALMR	BN11168	13	ESKSac			1428	3.96	-0.01							1.0
ALMR	BZ11168	13	AMS			1456	28.20		70787	21.2					

**July 15 2013 Hour: 17:49 49.4 Lat: 35.82N Lon: 4.74W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	387	296	EP		1750	41.85	-0.07							1.0
MORF	HN	387	296	ES		1751	20.34	0.07							1.0
MORF	HN	387	296	AML		1751	22.59		15	0.1					

**July 16 2013 Hour: 2:21 53.3 Lat: 36.43N Lon: 9.83W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	143	47	EP		222	13.83	-0.07							1.0
MORF	HN	143	47	ES		222	28.99	0.07							1.0
MORF	HN	143	47	AML		222	30.70		7	0.2					

**July 16 2013 Hour: 7:30 40.0 Lat: 37.32N Lon: 8.64W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.1 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	2	212	EP		730	42.18	-0.14							1.0
MORF	HN	2	212	ES		730	44.17	0.14							1.0
MORF	HE	2	212	AML		730	44.53		31	0.1					

**July 16 2013 Hour: 9:35 54.7 Lat: 6.31S Lon: 154.78E Depth: 44F Agency: IGL Distant**  
**Magnitudes: 5.6MS IGL Rms: 0.3 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	BZ16031	338	EPKP			955	24.51	-0.21							1.0
ALMR	BZ16031	338	AMS			11 5	42.42		1003	15.7					
GGNV	BZ16098	338	EPKP			955	25.48	0.49							1.0
GGNV	BN16098	338	AMS			11 0	58.27		1256	27.7					
MORF	BZ16213	336	EPKP			955	27.32	-0.26							1.0
MORF	BZ16213	336	AMS			11 5	7.67		1257	20.3					

**July 17 2013 Hour: 2:37 42.6 Lat: 15.64S Lon: 71.77W Depth: 7F Agency: IGL Distant**  
**Magnitudes: 5.2MB IGL Rms: 0.1 secs**

**SOUTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8825	46	EP		249	49.10	0.00							1.0
MORF	BZ	8825	46	AMb		249	57.27		49	2.8					
MORF	BE	8825	46	ES		259	50.43	-0.31							0.8
GGNV	BZ	8864	45	EP		249	50.99	0.10							1.0
GGNV	BZ	8864	45	AMb		249	54.81		43	1.3					
GGNV	BN	8864	45	ES		259	54.34	0.10							1.0
ALMR	BZ	8931	45	EP		249	54.23	0.06							1.0
ALMR	BZ	8931	45	AMb		250	9.03		75	2.6					
ALMR	BE	8931	45	ES		3 0	0.58	-0.04							1.0

July 17 2013 Hour: 3: 0 57.5 Lat: 36.55N Lon: 3.02E Depth: 10F Agency: IGL Regional  
Rms: 0.4 secs

**NORTHERN ALGERIA Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	1043	278	EP		3 3	8.72	0.37							1.0
ALMR	HZ	1060	289	EP		3 3	10.47	0.13							1.0
GGNV	HZ	1100	286	EP		3 3	14.49	-0.55							1.0

July 17 2013 Hour: 14:49 8.7 Lat: 38.90N Lon: 10.94W Depth: 40F Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.2 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HN	157	97	ES		1449	47.35	0.14							1.0
GGNV	HN	157	97	AML		1449	49.38			84	0.2				
ALMR	HZ	207	81	EP		1449	37.31	0.15							1.0
ALMR	HN	207	81	ES		1449	58.17	0.26							1.0
ALMR	HE	207	81	AML		1450	0.34			49	0.3				
MORF	HZ	267	131	EP		1449	44.39	-0.36							0.9
MORF	HE	267	131	ES		1450	10.82	-0.22							0.9
MORF	HE	267	131	AML		1450	13.40			22	0.1				

July 17 2013 Hour: 19:10 6.1 Lat: 36.70N Lon: 9.70W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	115	54	EP		1910	24.11	0.10							1.0
MORF	HE	115	54	ES		1910	36.95	-0.10							1.0
MORF	HE	115	54	AML		1910	37.89			5	0.1				

July 18 2013 Hour: 21: 6 39.2 Lat: 41.56S Lon: 174.36E Depth: 17F Agency: IGL Distant  
Magnitudes: 5.7MS IGL Rms: 0.0 secs

**COOK STRAIT, NEW ZEALAND Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19469	150	EPKpdf			2126	47.77	-0.02							1.0
MORF	BN19469	150	AMS			2247	54.81			612	13.8				
ALMR	BZ19643	136	EPKpdf			2126	48.12	0.02							1.0
ALMR	BZ19643	136	AMS			2255	18.76			802	17.1				

July 19 2013 Hour: 11:40 41.6 Lat: 30.39S Lon: 176.24W Depth: 16F Agency: IGL Distant  
Magnitudes: 5.6MS IGL Rms: 0.1 secs

**KERMADEC ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18520	49	EPKpdf			12 0	45.71	0.09							1.0
GGNV	BZ18520	49	AMS			1313	52.26			835	23.7				
ALMR	BZ18532	46	EPKpdf			12 0	45.77	0.05							1.0
ALMR	BZ18532	46	AMS			1312	38.20			919	19.4				
MORF	BZ18641	53	EPKpdf			12 0	46.38	-0.15							1.0
MORF	BZ18641	53	AMS			1313	39.34			861	15.7				

July 20 2013 Hour: 3:33 59.5 Lat: 35.30N Lon: 9.11W Depth: 29F 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	226	10	EP		334	30.41	-0.09							1.0
MORF	HN	226	10	ES		334	53.25	0.09							1.0
MORF	HN	226	10	AML		334	55.97			3	0.4				

**July 20 2013 Hour: 19:17 10.9 Lat: 41.62S Lon: 174.36E Depth: 12F Agency: IGL Distant**  
**Magnitudes: 6.2MS IGL Rms: 0.1 secs**

**COOK STRAIT, NEW ZEALAND Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	19464	151	EPKpdf		1937	20.16	-0.14							1.0
MORF	BZ	19464	151	AMS		2054	29.65			2132	25.8				
GGNV	BZ	19569	136	EPKpdf		1937	20.51	0.05							1.0
GGNV	BZ	19569	136	AMS		2057	6.68			3797	17.4				
ALMR	BZ	19638	137	EPKpdf		1937	20.71	0.09							1.0
ALMR	BZ	19638	137	AMS		2055	16.24			2529	18.4				

**July 21 2013 Hour: 1:32 25.5 Lat: 43.52N Lon: 13.76E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 4.9MB IGL Rms: 0.2 secs**

**CENTRAL ITALY Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	1924	263	EP		136	27.45	0.18							1.0
ALMR	BZ	1924	263	AMb		136	32.74			129	1.6				
ALMR	BE	1924	263	ES		139	41.04	0.07							1.0
GGNV	BZ	1989	262	EP		136	34.07	-0.37							1.0
GGNV	BZ	1989	262	AMb		136	40.01			105	1.9				
MORF	BZ	2015	258	EP		136	37.49	0.07							1.0
MORF	BZ	2015	258	AMb		136	52.71			58	2.4				
MORF	BE	2015	258	ES		140	0.82	0.03							1.0

**July 21 2013 Hour: 5:9 31.4 Lat: 41.71S Lon: 174.44E Depth: 14F Agency: IGL Distant**  
**Magnitudes: 7.1MS IGL Rms: 0.2 secs**

**COOK STRAIT, NEW ZEALAND Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	19451	150	EPKpdf		529	40.56	0.06							1.0
MORF	BZ	19451	150	EPP		535	8.08	-0.23							0.9
MORF	BZ	19451	150	EPP		535	8.32								
MORF	BE	19451	150	ESS		556	32.10	-0.13							1.0
MORF	BZ	19451	150	AMS		646	9.75			18191	22.7				
GGNV	BZ	19556	136	EPKpdf		529	40.81	0.14							1.0
GGNV	BZ	19556	136	EPP		535	12.34	-0.38							0.9
GGNV	BZ	19556	136	EPP		535	12.63								
GGNV	BN	19556	136	ESS		556	41.17	0.10							1.0
GGNV	BZ	19556	136	AMS		649	30.24			34886	22.6				
ALMR	BZ	19625	137	EPKpdf		529	41.23	0.41							0.8
ALMR	BZ	19625	137	EPP		535	15.72	0.03							1.0
ALMR	BZ	19625	137	AMS		648	0.33			33703	24.4				

**July 21 2013 Hour: 7:24 50.1 Lat: 39.09N Lon: 10.30W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 1.0 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HE	108	112	ES		725	19.86	0.12							1.0
GGNV	HN	108	112	AML		725	24.59			514	0.4				
ALMR	HN	149	87	ES		725	31.01	1.22							1.0
ALMR	HN	149	87	AML		725	32.67			89	0.4				
MORF	HZ	245	143	EP		725	24.20	-0.76							0.9
MORF	HE	245	143	ES		725	48.85	-1.60							0.9
MORF	HN	245	143	AML		725	51.19			23	0.3				
ALMR	HZ	149	87	EP		725	13.84	0.81							1.0

**July 21 2013 Hour: 23:45 56.9 Lat: 34.50N Lon: 104.24E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.2MS IGL Rms: 0.1 secs**

**GANSU, CHINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BN	9335	314	ES		24	8	49.49	0.00						1.0
ALMR	BE	9335	314	AMS		2439	31.81			9298	23.7				
GGNV	BZ	9404	314	EP		2358	30.44	-0.05							1.0
GGNV	BE	9404	314	ESKSac		24	8	53.71	0.19						1.0

GGNV	BE	9404	314	AMS		2440	7.05			9795	16.3						
MORF	BZ	9472	313	EP		2358	33.55-0.12										1.0
MORF	BN	9472	313	ESKSac		24	8	57.60	0.01								1.0
MORF	BE	9472	313	AMS		2439	8.32			6720	15.6						
ALMR	BZ	9335	314	EP		2358	27.32-0.01										1.0

**July 22 2013 Hour: 1:12 35.6 Lat: 34.57N Lon: 104.13E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.2 secs**

**GANSU, CHINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	9322	314	EP		125	5.73	0.33							1.0
ALMR	BZ	9322	314	AMb		125	12.44			54	1.2				
GGNV	BZ	9391	314	EP		125	8.45-0.12								1.0
GGNV	BZ	9391	314	AMb		125	12.25			55	1.8				
MORF	BZ	9459	312	EP		125	11.55-0.20								1.0
MORF	BZ	9459	312	AMb		125	14.46			46	1.2				

**July 22 2013 Hour: 4:38 43.0 Lat: 38.28N Lon: 8.48W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 0.3 secs**

**SE ALCACER DO SAL, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HN	76	310	ES		439	4.22	0.01							1.0
GGNV	HN	76	310	AML		439	6.16			220	0.6				
ALMR	HZ	98	355	EP		438	58.57	0.25							1.0
ALMR	HE	98	355	ES		439	9.77	0.28							1.0
ALMR	HN	98	355	AML		439	11.93			293	0.2				
MORF	HZ	109	188	EP		438	59.38-0.43								1.0
MORF	HN	109	188	ES		439	11.95-0.12								1.0
MORF	HN	109	188	AML		439	12.27			237	0.2				

**July 22 2013 Hour: 7:1 46.3 Lat: 46.04S Lon: 34.83E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.0MS IGL Rms: 0.3 secs**

**PRINCE EDWARD ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10192	327	EP			714	53.38-0.04								1.0
MORF	BZ10192	327	EPP			718	32.29-0.10								1.0
MORF	BN10192	327	ESKSac			725	26.61	0.16							1.0
MORF	BN10192	327	ESS			732	2.79-0.57								0.9
MORF	BZ10192	327	AMS			756	16.75			4422	24.1				
GGNV	BZ10350	327	EP			715	0.19	0.34							1.0
GGNV	BZ10350	327	EPP			718	43.43-0.09								1.0
GGNV	BN10350	327	ESKSac			725	34.56	0.25							0.0
GGNV	BN10350	327	ESS			732	23.24-0.42								1.0
GGNV	BZ10350	327	AMS			757	3.98			6227	25.0				
ALMR	BZ10369	328	EP			715	0.88	0.26							1.0
ALMR	BZ10369	328	EPP			718	45.15	0.30							1.0
ALMR	BN10369	328	ESKSac			725	34.84-0.43								0.0
ALMR	BN10369	328	ESS			732	26.19	0.09							1.0
ALMR	BZ10369	328	AMS			757	23.72			8928	17.9				

**July 22 2013 Hour: 15:23 25.7 Lat: 36.41N Lon: 7.67W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.5ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	132	319	EP		1523	44.95	0.02							1.0
MORF	HN	132	319	ES		1523	58.95-0.02								1.0
MORF	HN	132	319	AML		1524	0.75			74	0.1				



July 24 2013 Hour: 0:31 34.9 Lat: 35.85N Lon: 6.55W Depth: 24F Agency: IGL Regional  
Magnitudes: 2.9ML 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	248	311	EP		032	8.83	-0.15							1.0
MORF	HE	248	311	ES		032	33.98	0.15							1.0
MORF	HN	248	311	AML		032	35.04			66	0.3				

July 24 2013 Hour: 3:32 35.2 Lat: 23.06S Lon: 177.16W Depth: 167F Agency: IGL Distant  
Rms: 0.0 secs

SOUTH OF FIJI ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ17940		29	EPKpdf		352	15.00	-0.02							1.0
GGNV	BZ17951		31	EPKpdf		352	15.09	-0.01							1.0
MORF	BZ18102		32	EPKpdf		352	16.62	0.03							1.0

July 24 2013 Hour: 12:57 33.1 Lat: 38.27N Lon: 9.34W Depth: 20F Agency: IGL Regional  
Magnitudes: 2.2ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	52	19	EP		1257	41.79	-0.05							1.0
GGNV	HN	52	19	ES		1257	48.19	-0.07							1.0
GGNV	HN	52	19	AML		1257	50.37			164	0.2				
MORF	HZ	123	150	EP		1257	52.04	0.14							1.0
MORF	HN	123	150	ES		1258	5.64	-0.02							1.0
MORF	HN	123	150	AML		1258	10.40			32	0.2				

July 25 2013 Hour: 16:44 0.4 Lat: 36.84N Lon: 8.95W Depth: 28F Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	58	27	EP		1644	10.20	-0.12							1.0
MORF	HN	58	27	ES		1644	17.55	-0.01							1.0
MORF	HN	58	27	AML		1644	18.34			978	0.1				
ALMR	HZ	259	7	EP		1644	35.69	0.18							0.9
ALMR	HN	259	7	ES		1645	1.12	-0.03							0.9
ALMR	HN	259	7	AML		1645	5.40			35	0.2				

July 26 2013 Hour: 7: 7 16.8 Lat: 15.36S Lon: 167.58E Depth: 136F Agency: IGL Distant  
Rms: 0.1 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ17369		353	EPKpdf		726	54.24	0.03							1.0
GGNV	BZ17424		354	EPKpdf		726	54.84	-0.01							1.0
GGNV	BZ17424		354	EPP		731	3.44	-0.10							1.0
MORF	BZ17572		352	EPKpdf		726	56.64	0.02							1.0
MORF	BZ17572		352	EPP		731	10.99	0.06							1.0

July 26 2013 Hour: 9:36 14.7 Lat: 37.55N Lon: 8.46W Depth: 4F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.0 secs

SE ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	32	212	EP		936	19.87	0.00							1.0
MORF	HN	32	212	ES		936	23.66	0.00							1.0
MORF	HN	32	212	AML		936	24.63			8	0.5				

July 26 2013 Hour: 10:31 8.8 Lat: 33.11N Lon: 12.81W Depth: 10F Agency: IGL Regional  
Magnitudes: 3.1ML IGL Rms: 0.0 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	600	38	EP		1032	27.32	0.01							1.0
MORF	HE	600	38	ES		1033	24.58	-0.01							1.0
MORF	HN	600	38	AML		1033	28.03			25	0.2				

**July 26 2013 Hour: 21:32 59.2 Lat: 57.79S Lon: 23.96W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.9MS IGL Rms: 0.1 secs**

**SOUTH SANDWICH ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10617		12	EP		2146	23.86	0.28							1.0
MORF	BN10617		12	ESKSac		2157	0.68	-0.02							1.0
MORF	BE10617		12	AMS		2227	55.34			3596	19.1				
GGNV	BZ10766		12	EP		2146	29.53	0.03							1.0
GGNV	BN10766		12	ESKSac		2157	7.47	-0.12							1.0
GGNV	BN10766		12	ESS		22 4	30.39	-0.23							1.0
GGNV	BE10766		12	AMS		2224	1.87			5793	23.4				
ALMR	BZ10821		12	EP		2146	31.81	0.08							1.0
ALMR	BN10821		12	ESKSac		2157	10.15	-0.03							1.0
ALMR	BN10821		12	ESS		22 4	37.66	0.01							1.0
ALMR	BZ10821		12	AMS		2224	47.39			5035	21.4				

**July 27 2013 Hour: 17:55 59.5 Lat: 34.77N Lon: 9.57W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	293	16	EP		1756	39.84	-0.08							1.0
MORF	HN	293	16	ES		1757	9.52	0.08							1.0
MORF	HN	293	16	AML		1757	11.88			3	0.2				

**July 27 2013 Hour: 21:24 21.9 Lat: 37.32N Lon: 8.54W Depth: 11F 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	10	261	EP		2124	24.33	0.00							1.0
MORF	HE	10	261	ES		2124	26.12	0.00							1.0
MORF	HN	10	261	AML		2124	26.70			42	0.2				

**July 28 2013 Hour: 2:17 27.2 Lat: 34.27N Lon: 14.82W Depth: 70F Agency: IGL Regional**  
**Magnitudes: 3.4ML IGL Rms: 0.1 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	651	57	EP		218	48.71	-0.12							1.0
MORF	HE	651	57	ES		219	48.47	0.08							1.0
MORF	HN	651	57	AML		219	51.85			44	0.4				
ALMR	HN	777	44	ES		220	14.05	0.04							0.9
ALMR	HN	777	44	AML		220	20.23			38	0.4				

**July 28 2013 Hour: 20:24 30.6 Lat: 37.30N Lon: 8.65W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	1	354	EP		2024	32.21	-0.13							1.0
MORF	HE	1	354	ES		2024	33.72	0.13							1.0
MORF	HN	1	354	AML		2024	34.19			358	0.3				

**July 28 2013 Hour: 22:37 48.5 Lat: 39.64N Lon: 8.75W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**E BATALHA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	56	164	EP		2237	57.55	-0.09							1.0
ALMR	HE	56	164	ES		2238	4.45	0.09							1.0
ALMR	HE	56	164	AML		2238	6.52			15	0.2				

**July 30 2013 Hour: 7:56 36.6 Lat: 37.31N Lon: 8.56W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 0.3ML 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	8	267	EP		756	38.75	0.01							1.0
MORF	HN	8	267	ES		756	40.29	-0.01							1.0
MORF	HN	8	267	AML		756	40.81			16	0.2				

**July 30 2013 Hour: 13:29 58.7 Lat: 15.79N Lon: 92.78W Depth: 116F Agency: IGL Distant**  
**Magnitudes: 4.9MB IGL Rms: 0.0 secs**  
**CHIAPAS, MEXICO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8459	55	EP		1341	33.42	-0.03							1.0
MORF	BZ	8459	55	AMB		1341	41.67			45	1.6				

**July 30 2013 Hour: 15: 8 42.3 Lat: 37.35N Lon: 8.55W Depth: 10F 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	10	242	EP		15	8	44.64	0.01						1.0
MORF	HN	10	242	ES		15	8	46.34	-0.01						1.0
MORF	HN	10	242	AML		15	8	46.86		45	0.2				

**July 31 2013 Hour: 12:11 42.6 Lat: 40.30N Lon: 8.43W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.7 secs**  
**SE MEALHADA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	128	186	EP		1212	3.21	0.60							1.0
ALMR	HN	128	186	ES		1212	17.69	0.48							1.0
ALMR	HN	128	186	AML		1212	21.20			89	0.4				
MORF	HZ	333	183	EP		1212	26.94	-1.19							0.9
MORF	HN	333	183	ES		1213	1.23	-0.13							0.9
MORF	HN	333	183	AML		1213	17.40			10	0.3				

**July 31 2013 Hour: 16: 0 33.3 Lat: 36.49N Lon: 9.87W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	141	50	EP		16	0	54.09	0.00						1.0
MORF	HN	141	50	ES		16	1	9.29	0.00						1.0
MORF	HN	141	50	AML		16	1	10.65		38	0.3				

**July 31 2013 Hour: 16:38 13.9 Lat: 36.73N Lon: 12.74W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 3.5ML IGL Rms: 0.0 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	370	79	EP		1639	1.82	-0.04							1.0
MORF	HN	370	79	ES		1639	36.92	0.04							1.0
MORF	HN	370	79	AML		1639	39.88			154	0.2				

**July 31 2013 Hour: 22:17 11.8 Lat: 37.34N Lon: 8.51W Depth: 13F 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	13	253	EP		2217	14.72	-0.10							1.0
MORF	HE	13	253	ES		2217	17.13	0.10							1.0
MORF	HN	13	253	AML		2217	17.61			69	0.3				

**August 1 2013 Hour: 4:56 0.8 Lat: 36.13N Lon: 4.56W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	388	291	EP		456	53.63	-0.11							1.0
MORF	HN	388	291	ES		457	32.49	0.11							1.0
MORF	HN	388	291	AML		457	35.54			17	0.3				

**August 1 2013 Hour: 5:30 36.2 Lat: 37.65N Lon: 1.41W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.7ML IGL Rms: 0.0 secs**  
**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	642	269	EP		532	0.76	-0.01							1.0
MORF	HE	642	269	ES		533	2.50	0.01							1.0
MORF	HN	642	269	AML		533	6.68			10	0.4				

**August 1 2013 Hour: 16:25 1.5 Lat: 34.34N Lon: 16.69W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**  
**MADEIRA ISLANDS, PORTUGAL REGION Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	797	63	EP		1626	43.46	-0.07							1.0

**August 1 2013 Hour: 20:14 42.6 Lat: 15.28S Lon: 173.44W Depth: 17F Agency: IGL Distant**  
**Magnitudes: 6.2MS IGL Rms: 0.1 secs**  
**TONGA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17013		28	EPKpdf		2021	30.92	0.12							1.0
GGNV	BZ17013		28	EPP		2025	22.73	-0.04							1.0
GGNV	BZ17013		28	AMS		2123	38.11			4630	19.3				
MORF	BZ17167		29	EPKpdf		2021	32.79	-0.07							1.0
MORF	BZ17167		29	AMS		2122	50.73			3277	21.4				

**August 2 2013 Hour: 22:7 53.1 Lat: 35.72N Lon: 8.84W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.9ML IGL Rms: 0.1 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	177	5	EP		22	8	17.80	-0.08						1.0
MORF	HE	177	5	ES		22	8	36.08	0.08						1.0
MORF	HN	177	5	AML		22	8	37.26			11	0.2			

**August 3 2013 Hour: 2:20 36.6 Lat: 39.34N Lon: 10.70W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**  
**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HN	151	117	ESg		221	16.56	0.00							1.0
GGNV	HN	151	117	AML		221	17.63			80	0.2				
MORF	HZ	288	141	EP		221	14.58	0.12							0.9
MORF	HN	288	141	ES		221	41.97	-0.12							0.9
MORF	HN	288	141	AML		221	45.07			25	0.1				

**August 4 2013 Hour: 13:22 27.9 Lat: 49.69N Lon: 127.42W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.0MS IGL Rms: 0.1 secs**  
**VANCOUVER ISLAND, CANADA REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8655	46	EP		1334	25.72	-0.15							1.0
MORF	BE	8655	46	AMS		14	4	46.34		706	18.2				

**August 4 2013 Hour: 15:56 34.0 Lat: 46.95N Lon: 145.33E Depth:367F Agency: IGL Distant**  
**Magnitudes: 5.2MB IGL Rms: 0.0 secs**  
**SEA OF OKHOTSK Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ10328 339 EP 16 9 5.86 0.04 1.0  
 MORF BZ10328 339 AMb 16 9 8.36 71 1.8  
 MORF BN10328 339 ESKSac 1619 3.55-0.04 1.0

**August 5 2013 Hour: 5:40 55.5 Lat: 20.17S Lon: 70.72W Depth: 18F Agency: IGL Distant**  
**Magnitudes: 5.0MB IGL Rms: 0.1 secs**  
**OFFSHORE TARAPACA, CHILE Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ 9093 45 EP 553 13.28 0.13 1.0  
 MORF BZ 9093 45 AMb 553 20.75 42 2.1

**August 5 2013 Hour: 17:51 24.3 Lat: 37.33N Lon: 8.53W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.1 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 11 256 EP 1751 26.91-0.13 1.0  
 MORF HE 11 256 ES 1751 29.14 0.13 1.0  
 MORF HN 11 256 AML 1751 29.72 25 0.1

**August 6 2013 Hour: 7:37 43.5 Lat: 36.85N Lon: 10.51W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.2 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 173 72 EP 738 7.17 0.17 1.0  
 MORF HN 173 72 ES 738 24.00-0.17 1.0  
 MORF HN 173 72 AML 738 24.50 33 0.1

**August 6 2013 Hour: 10:41 32.0 Lat: 22.56S Lon: 173.68E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.9MS IGL Rms: 0.1 secs**  
**SOUTHEAST OF LOYALTY ISLANDS Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 GGNV BZ18216 8 EPKpdf 11 1 34.67 0.05 1.0  
 GGNV BZ18216 8 AMS 1214 11.68 1886 18.7  
 MORF BZ18377 7 EPKpdf 11 1 35.96-0.05 1.0  
 MORF BZ18377 7 AMS 1214 25.95 1343 21.1

**August 6 2013 Hour: 16:46 18.0 Lat: 16.92S Lon: 167.30E Depth: 8F Agency: IGL Distant**  
**Magnitudes: 5.6MS IGL Rms: 0.0 secs**  
**VANUATU Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 GGNV BZ17590 353 EPKpdf 17 6 14.79 0.04 1.0  
 GGNV BZ17590 353 AMS 1818 38.56 1306 25.7  
 MORF BZ17737 351 EPKpdf 17 6 16.38-0.04 1.0  
 MORF BZ17737 351 AMS 1823 53.89 1015 24.9

**August 7 2013 Hour: 9: 6 51.0 Lat: 38.70N Lon: 22.68E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.1 secs**  
**GREECE Net: CSEM**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ 2743 277 EP 912 11.96-0.04 1.0  
 MORF BZ 2743 277 AMb 912 16.69 101 1.3  
 MORF BN 2743 277 ES 916 34.62-0.16 1.0  
 GGNV BZ 2755 280 EP 912 12.90 0.03 1.0  
 GGNV BZ 2755 280 AMb 912 21.19 257 1.5  
 GGNV BN 2755 280 ES 916 36.48 0.17 1.0

**August 7 2013 Hour: 9:37 45.3 Lat: 36.58N Lon: 8.84W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 2.5ML 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	82	12	EP		937	58.67	0.18							1.0
MORF	HN	82	12	ES		938	7.95	-0.18							1.0
MORF	HE	82	12	AML		938	10.15			142	0.4				

**August 8 2013 Hour: 7: 5 25.9 Lat: 35.16N Lon: 4.18W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 0.0ML IGL Rms: 0.0 secs**  
**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	467	302	EP		7 6	29.34	0.03							1.0
GGNV	HZ	593	313	EP		7 6	44.47	-0.04							0.9

**August 8 2013 Hour: 17:13 18.5 Lat: 37.15N Lon: 8.11W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.0 secs**  
**NW LOULE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	51	290	EP		1713	27.02	0.04							1.0
MORF	HE	51	290	ES		1713	33.12	-0.04							1.0
MORF	HE	51	290	AML		1713	35.35			39	0.1				

**August 9 2013 Hour: 20:42 38.0 Lat: 36.82N Lon: 9.25W Depth: 31F 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	76	44	EP		2042	49.29	-0.14							1.0
MORF	HN	76	44	ES		2042	57.95	0.14							1.0
MORF	HN	76	44	AML		2042	59.01			12	0.1				

**August 9 2013 Hour: 22:14 47.0 Lat: 36.66N Lon: 9.70W Depth: 17F 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	118	52	EP		2215	5.46	0.00							1.0
MORF	HE	118	52	ES		2215	18.94	0.00							1.0
MORF	HN	118	52	AML		2215	21.50			4	0.1				

**August 10 2013 Hour: 0:42 24.4 Lat: 36.73N Lon: 11.23W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.9ML 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	238	74	EP		042	56.03	0.01							1.0
MORF	HE	238	74	ES		043	19.11	-0.01							1.0
MORF	HN	238	74	AML		043	21.50			7	0.1				

**August 10 2013 Hour: 1: 3 28.2 Lat: 36.70N Lon: 11.16W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	233	72	EP		1 3	59.14	-0.13							1.0
MORF	HE	233	72	ES		1 4	22.04	0.13							1.0
MORF	HN	233	72	AML		1 4	24.45			3	0.1				

**August 10 2013 Hour: 13: 7 30.8 Lat: 37.41N Lon: 2.27W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 0.0ML IGL Rms: 0.0 secs**  
**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	565	271	EP		13 8	46.09	-0.03							1.0

**August 10 2013 Hour: 18:51 50.9 Lat: 36.84N Lon: 9.51W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	92	56	EP		1852	5.43	-0.04							1.0
MORF	HN	92	56	ES		1852	16.17	0.04							1.0
MORF	HN	92	56	AML		1852	17.22			3	0.2				

**August 11 2013 Hour: 4:33 53.0 Lat: 35.95N Lon: 7.61W Depth: 20F 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	177	329	EP		434	18.46	-0.06							1.0
MORF	HN	177	329	ES		434	37.23	0.06							1.0
MORF	HE	177	329	AML		434	39.15			19	0.3				

**August 11 2013 Hour: 9:16 32.2 Lat: 36.95N Lon: 8.90W Depth: 31F 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	45	29	EP		916	39.86	-0.06							1.0
MORF	HE	45	29	ES		916	45.58	0.06							1.0
MORF	HN	45	29	AML		916	46.94			8	0.2				

**August 11 2013 Hour: 10:33 55.7 Lat: 29.11S Lon: 178.44W Depth: 184F Agency: IGL Distant**  
**Rms: 0.0 secs**  
**KERMADEC ISLANDS, NEW ZEALAND Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ18707	44	EPK	pdf		1053	39.68	0.03							1.0

**August 11 2013 Hour: 16:27 55.7 Lat: 37.31N Lon: 8.57W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 0.8ML IGL Rms: 0.1 secs**  
**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	267	EP		1627	58.06	-0.09							1.0
MORF	HN	7	267	ES		1628	0.03	0.09							1.0
MORF	HN	7	267	AML		1628	0.60			39	0.3				

**August 11 2013 Hour: 19:46 43.5 Lat: 39.69N Lon: 12.20W Depth: 26F Agency: IGL Regional**  
**Magnitudes: 2.8ML IGL Rms: 0.0 secs**  
**NORTH ATLANTIC OCEAN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	407	129	EP		1947	37.10	0.01							1.0
MORF	HE	407	129	ES		1948	16.21	-0.01							1.0
MORF	HN	407	129	AML		1948	21.26			24	0.3				

**August 11 2013 Hour: 21:23 43.8 Lat: 30.08N Lon: 97.93E Depth: 20F Agency: IGL Distant**  
**Magnitudes: 5.6MS IGL Rms: 0.0 secs**  
**EASTERN XIZANG Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9299	311	EP		2136	10.83	0.02							1.0
GGNV	BN	9299	311	ES		2146	31.18	0.05							1.0
GGNV	BN	9299	311	AMS		2213	9.74			3558	23.9				
MORF	BZ	9349	310	EP		2136	13.17	-0.04							1.0
MORF	BZ	9349	310	EPP		2139	26.73	0.04							1.0
MORF	BN	9349	310	ES		2146	34.13	-0.07							1.0
MORF	BN	9349	310	AMS		2213	19.95			2042	21.2				

**August 12 2013 Hour: 0:53 43.8 Lat: 7.12S Lon: 129.81E Depth: 92F Agency: IGL Distant**  
**Magnitudes: 5.6MS IGL Rms: 0.1 secs**

**KEPULAUAN BABAR, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ14635	317	EPK	pdf		112	45.28	0.10							1.0
GGNV	BZ14635	317	EPP			115	5.24	-0.06							1.0
GGNV	BE14635	317	AMS			237	13.84		1402	14.2					
MORF	BZ14672	315	EPK	pdf		112	45.85	-0.04							1.0
MORF	BZ14672	315	EPP			115	7.52	-0.01							1.0
MORF	BE14672	315	AMS			224	4.59		504	11.4					

**August 12 2013 Hour: 4:16 46.6 Lat: 30.62S Lon: 179.61W Depth: 325F 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
GGNV	BZ18768	42	EPK	pdf		436	14.25	0.08							1.0
GGNV	BZ18768	42	EPP			441	17.05	0.11							1.0
MORF	BZ18904	46	EPK	pdf		436	14.93	-0.08							1.0
MORF	BZ18904	46	EPP			441	23.01	-0.11							1.0

**August 12 2013 Hour: 9:49 32.5 Lat: 5.38S Lon: 81.87W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.8MS IGL Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ 8908	49	EP			10 1	42.44	0.03							1.0
GGNV	BE 8908	49	ES			1011	47.32	-0.05							1.0
GGNV	BZ 8908	49	AMS			1033	56.06		5440	21.1					
MORF	BZ 8910	51	EP			10 1	42.57	-0.03							1.0
MORF	BE 8910	51	ES			1011	47.77	0.05							1.0
MORF	BZ 8910	51	AMS			1035	10.72		3526	16.1					

**August 13 2013 Hour: 4:39 17.8 Lat: 37.32N Lon: 8.59W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 0.4ML IGL Rms: 0.1 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	254	EP		439	20.48	-0.08							1.0
MORF	HN	6	254	ES		439	22.66	0.08							1.0
MORF	HN	6	254	AML		439	23.34		12	0.2					

**August 13 2013 Hour: 9: 8 33.1 Lat: 37.32N Lon: 8.65W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.0 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	2	183	EP		9 8	35.18	0.01							1.0
MORF	HN	2	183	ES		9 8	36.65	-0.01							1.0
MORF	HN	2	183	AML		9 8	37.10		120	0.2					

**August 13 2013 Hour: 12:31 15.7 Lat: 36.68N Lon: 9.74W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	119	54	EP		1231	34.25	0.06							1.0
MORF	HN	119	54	ES		1231	47.61	-0.06							1.0
MORF	HN	119	54	AML		1231	49.28		11	0.2					

**August 13 2013 Hour: 15:43 15.4 Lat: 5.76N Lon: 78.20W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.1MS IGL Rms: 0.2 secs**

**SOUTH OF PANAMA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ 7803	51	EP			1554	28.28	0.22							1.0
GGNV	BN 7803	51	ES			16 3	39.79	-0.17							1.0
GGNV	BZ 7803	51	AMS			1619	38.03		13920	23.4					
MORF	BZ 7824	53	EP			1554	29.34	0.07							1.0



MORF BN 7824 53 ES 16 3 42.15-0.11 1.0  
MORF BZ 7824 53 AMS 1626 40.09 13809 24.3

**August 13 2013 Hour: 20: 7 20.2 Lat: 38.08N Lon: 13.79W Depth: 50F Agency: IGL Regional**  
**Magnitudes: 2.9ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	461	99	EP		20 8	19.50	-0.06							1.0
MORF	HE	461	99	ES		20 9	2.94	0.06							1.0
MORF	HN	461	99	AML		20 9	7.18		22	0.4					

**August 14 2013 Hour: 0:31 22.7 Lat: 36.42N Lon: 11.17W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	245	66	EP		031	55.97	0.01							1.0
MORF	HN	245	66	ES		032	20.27	-0.01							1.0
MORF	HN	245	66	AML		032	23.65		9	0.2					

**August 14 2013 Hour: 15: 6 40.4 Lat: 36.63N Lon: 4.59W Depth: 54F 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
MORF	HZ	369	283	EP		15 7	28.47	-0.12							1.0

**August 14 2013 Hour: 19:24 13.6 Lat: 36.34N Lon: 2.86W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	527	283	EP		1925	23.07	0.00							1.0

**August 15 2013 Hour: 4: 5 55.2 Lat: 0.07N Lon: 123.22E Depth:148F Agency: IGL Distant**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**MINAHASA, SULAWESI, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ13593	315	EPKpdf			424	32.10	0.04							1.0

**August 15 2013 Hour: 19:27 18.1 Lat: 36.63N Lon: 9.70W Depth: 18F Agency: IGL Regional**  
**Magnitudes: 2.7ML 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	120	51	EP		1927	36.69	0.01							1.0
MORF	HN	120	51	ES		1927	50.27	-0.01							1.0
MORF	HN	120	51	AML		1927	51.87		134	0.2					

**August 16 2013 Hour: 2:31 7.3 Lat: 41.77S Lon: 174.06E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 7.5MS IGL Rms: 0.3 secs**

**COOK STRAIT, NEW ZEALAND Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19461	154	EPKpdf			251	17.21	0.11							1.0
MORF	BZ19461	154	EPP			256	44.93	-0.35							1.0
MORF	BN19461	154	ESS			318	9.83	-0.25							1.0
MORF	BZ19461	154	AMS			4 6	37.71		36930	14.4					
GGNV	BZ19573	140	EPKpdf			251	17.51	0.23							1.0
GGNV	BZ19573	140	EPP			256	50.26	0.26							1.0
GGNV	BN19573	140	AMS			410	56.36		46312	14.9					

**August 16 2013 Hour: 3:14 36.2 Lat: 37.89N Lon: 8.87W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.1 secs**

**S SINES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	68	163	EP		314	47.10	-0.10							1.0
MORF	HN	68	163	ES		314	55.35	0.10							1.0
MORF	HN	68	163	AML		314	58.59		17	0.1					

**August 16 2013 Hour: 3:58 42.2 Lat: 37.95N Lon: 8.84W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 2.2ML IGL Rms: 0.1 secs**

**E SINES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	73	167	EP		358	54.09	0.07							1.0
MORF	HE	73	167	ES		359	2.57	-0.07							1.0
MORF	HN	73	167	AML		359	5.01			93	0.3				

**August 16 2013 Hour: 5:31 16.2 Lat: 41.75S Lon: 174.26E Depth: 11F Agency: IGL Distant**  
**Magnitudes: 6.3MS IGL Rms: 0.1 secs**

**COOK STRAIT, NEW ZEALAND Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19454	152	EP	KPdf		551	25.78	-0.04							1.0
MORF	BN19454	152	ESS			618	18.25	0.07							1.0
MORF	BZ19454	152	AMS			7 8	36.78			3053	21.9				
GGNV	BZ19563	138	EP	KPdf		551	25.97	-0.03							1.0
GGNV	BN19563	138	AMS			711	5.12			4727	19.2				

**August 16 2013 Hour: 20:49 54.5 Lat: 36.64N Lon: 9.59W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	48	EP		2050	11.88	-0.05							1.0
MORF	HE	112	48	ES		2050	24.71	0.05							1.0
MORF	HN	112	48	AML		2050	27.00			11	0.2				

**August 17 2013 Hour: 16:32 31.4 Lat: 34.88S Lon: 54.07E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 6.1MS 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	BZ10282	315	EP			1645	42.52	0.10							1.0
MORF	BZ10282	315	EPP			1649	23.44	0.04							1.0
MORF	BN10282	315	ES	KSac		1656	15.81	0.02							1.0
MORF	BN10282	315	ESS			17 2	59.26	-0.01							1.0
MORF	BZ10282	315	AMS			1733	12.63			4352	17.7				
GGNV	BZ10421	316	EP			1645	48.13	0.11							1.0
GGNV	BZ10421	316	EPP			1649	33.05	-0.05							1.0
GGNV	BN10421	316	ES	KSac		1656	22.47	-0.09							1.0
GGNV	BN10421	316	ESS			17 3	16.86	-0.11							1.0
GGNV	BE10421	316	AMS			1730	3.52			8063	21.3				

**August 18 2013 Hour: 5:37 30.1 Lat: 37.42N Lon: 7.91W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 1.0ML 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
MORF	HZ	67	259	EP		537	41.07	0.02							1.0
MORF	HN	67	259	ES		537	49.01	-0.02							1.0
MORF	HN	67	259	AML		537	50.61			7	0.3				

**August 18 2013 Hour: 11: 1 12.6 Lat: 35.53N Lon: 14.68W Depth: 50F Agency: IGL Regional**  
**Magnitudes: 2.6ML 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	576	68	EP		11 2	25.82	-0.03							1.0
MORF	HE	576	68	ES		11 3	19.33	0.03							1.0
MORF	HN	576	68	AML		11 3	21.24			8	0.2				

**August 18 2013 Hour: 15:24 11.2 Lat: 37.33N Lon: 8.56W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.1 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 8 252 EP 1524 13.99-0.12 1.0  
 MORF HE 8 252 ES 1524 16.38 0.12 1.0  
 MORF HE 8 252 AML 1524 17.06 36 0.1

**August 18 2013 Hour: 17: 6 0.8 Lat: 37.48N Lon: 9.25W Depth: 1F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.0 secs**  
**NW ALJEZUR, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 56 110 EP 17 6 9.90 0.04 1.0  
 MORF HN 56 110 ES 17 6 16.47-0.04 1.0  
 MORF HE 56 110 AML 17 6 18.19 15 0.5

**August 19 2013 Hour: 8:14 44.4 Lat: 36.52N Lon: 7.55W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.1 secs**  
**STRAIT OF GIBRALTAR Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 131 312 EP 815 4.12-0.11 1.0

**August 19 2013 Hour: 10: 6 13.7 Lat: 36.57N Lon: 8.57W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 82 355 EP 10 6 26.91-0.03 1.0  
 MORF HN 82 355 ES 10 6 36.63 0.03 1.0  
 MORF HN 82 355 AML 10 6 38.60 34 0.1

**August 19 2013 Hour: 11:30 40.0 Lat: 37.95N Lon: 8.78W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.0 secs**  
**E SINES, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 72 171 EP 1130 51.71-0.03 1.0

**August 19 2013 Hour: 14:34 46.3 Lat: 37.05N Lon: 8.76W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 2.7ML IGL Rms: 0.0 secs**  
**SW LAGOS, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 30 19 EP 1434 52.36 0.00 1.0  
 MORF HE 30 19 ES 1434 56.77 0.00 1.0  
 MORF HN 30 19 AML 1434 57.21 718 0.1

**August 20 2013 Hour: 1:24 59.8 Lat: 38.72N Lon: 9.45W Depth: 2F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.1 secs**  
**NW CASCAIS, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 GGNV HZ 26 91 EP 125 4.06 0.00 1.0  
 GGNV HN 26 91 ES 125 7.10-0.06 1.0  
 GGNV HN 26 91 AML 125 11.44 154 0.2  
 MORF HN 172 156 ES 125 45.99 0.07 0.9  
 MORF HN 172 156 AML 125 50.12 11 0.2

**August 20 2013 Hour: 2:10 0.9 Lat: 37.22N Lon: 8.57W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.1 secs**  
**NW PORTIMAO, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 12 323 EP 210 4.47-0.09 1.0  
 MORF HE 12 323 ES 210 7.30 0.09 1.0  
 MORF HE 12 323 AML 210 8.11 12 0.1

August 20 2013 Hour: 21:18 0.0 Lat: 6.35S Lon: 154.42E Depth: 68F Agency: IGL Distant  
Rms: 0.0 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ16201	336	EPK	pdf		2137	29.81	0.02							1.0

August 20 2013 Hour: 23:28 26.1 Lat: 37.67N Lon: 14.29W 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	500	93	EP		2329	33.49	0.12							1.0
MORF	HN	500	93	ES		2330	22.33	-0.12							1.0
MORF	HN	500	93	AML		2330	28.54			12	0.2				

August 21 2013 Hour: 4:20 27.5 Lat: 37.33N Lon: 8.52W Depth: 13F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	257	EP		420	30.36	-0.06							1.0
MORF	HN	12	257	ES		420	32.59	0.06							1.0
MORF	HE	12	257	AML		420	33.76			25	0.1				

August 21 2013 Hour: 4:43 18.0 Lat: 22.28S Lon: 171.68E Depth: 92F Agency: IGL Distant  
Magnitudes: 5.1MS IGL Rms: 0.1 secs

SOUTHEAST OF LOYALTY ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ18362	1	EPK	pdf		5	3	10.86	0.07						1.0
MORF	BZ18362	1	AMS			612	23.17			263	19.3				

August 21 2013 Hour: 5:1 16.8 Lat: 36.80N Lon: 10.52W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	176	71	EP		5	1	40.56	-0.10						1.0
MORF	HN	176	71	ES		5	1	58.16	0.10						1.0
MORF	HN	176	71	AML		5	2	0.50		5	0.2				

August 21 2013 Hour: 8:25 5.7 Lat: 47.86N Lon: 152.79E Depth: 157F Agency: IGL Distant  
Magnitudes: 5.2MB IGL Rms: 0.0 secs

KURIL ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10401	345	EP			838	3.54	0.03							1.0
MORF	BZ10401	345	AMB			838	6.88			35	1.5				

August 21 2013 Hour: 12:38 30.3 Lat: 16.92N Lon: 99.38W Depth: 20F Agency: IGL Distant  
Magnitudes: 6.2MS IGL Rms: 0.1 secs

GUERRERO, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8881	53	EP		1250	37.53	0.16							1.0
GGNV	BN	8881	53	ES		13	0	39.96	-0.04						1.0
GGNV	BZ	8881	53	AMS		1323	40.58			10325	19.6				
MORF	BZ	8960	54	EP		1250	41.27	-0.05							1.0
MORF	BN	8960	54	ES		13	0	47.61	-0.07						1.0
MORF	BZ	8960	54	AMS		1323	28.92			10875	23.2				

August 21 2013 Hour: 19:23 16.9 Lat: 38.49N Lon: 8.30W Depth: 6F Agency: IGL Regional  
Magnitudes: 2.5ML IGL Rms: 0.1 secs

SW MONTEMOR-O-NOVO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	135	193	EP		1923	38.28	-0.11							1.0
MORF	HE	135	193	ES		1923	54.18	0.11							1.0
MORF	HN	135	193	AML		1923	56.54			67	0.2				

**August 21 2013 Hour: 22:58 40.1 Lat: 36.78N Lon: 4.14W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 2.9ML 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 405 280 EP 2259 33.97 0.04 1.0  
 MORF HN 405 280 ES 23 0 13.17-0.04 1.0  
 MORF HN 405 280 AML 23 0 16.97 33 0.4

**August 23 2013 Hour: 7:23 1.0 Lat: 36.54N Lon: 12.10W Depth: 9F 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 319 74 EP 723 45.17-0.05 1.0  
 MORF HN 319 74 ES 724 17.52 0.05 1.0  
 MORF HN 319 74 AML 724 20.96 22 0.2

**August 23 2013 Hour: 8:34 5.8 Lat: 22.30S Lon: 68.56W Depth:100F Agency: IGL Distant**  
**Magnitudes: 4.6MS IGL Rms: 0.0 secs**  
**ANTOFAGASTA, CHILE Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF BZ 9102 44 EP 846 13.95 0.02 1.0  
 MORF BN 9102 44 ES 856 19.45-0.02 1.0  
 MORF BZ 9102 44 AMS 918 16.41 469 31.8

**August 23 2013 Hour: 15: 3 26.9 Lat: 37.66N Lon: 8.36W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**  
**W OURIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 47 213 EP 15 3 34.74 0.08 1.0  
 MORF HN 47 213 ES 15 3 40.28-0.08 1.0  
 MORF HN 47 213 AML 15 3 41.20 11 0.3

**August 24 2013 Hour: 7:12 34.7 Lat: 36.69N Lon: 8.02W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.0 secs**  
**WEST OF GIBRALTAR Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 89 321 EP 712 48.89 0.04 1.0

**August 24 2013 Hour: 8:40 32.4 Lat: 22.74S Lon: 175.15W Depth: 35F Agency: IGL Distant**  
**Magnitudes: 6.1MS IGL Rms: 0.0 secs**  
**TONGA REGION Net: NEIC**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 GGNV BZ17811 34 EPKpdf 9 0 27.20 0.01 1.0  
 GGNV BZ17811 34 AMS 10 7 4.57 1926 18.0  
 MORF BZ17957 36 EPKpdf 9 0 28.72-0.01 1.0  
 MORF BZ17957 36 AMS 1010 59.81 2609 14.6

**August 24 2013 Hour: 22:48 47.1 Lat: 37.33N Lon: 8.50W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.0 secs**  
**NE MONCHIQUE, PORTUGAL Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 14 259 EP 2248 50.13 0.00 1.0  
 MORF HN 14 259 ES 2248 52.32 0.00 1.0  
 MORF HN 14 259 AML 2248 53.01 35 0.3

**August 24 2013 Hour: 23:13 12.7 Lat: 36.17N Lon: 10.29W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**  
**AZORES-CAPE ST. VINCENT RIDGE Net: IMP**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 193 49 EP 2313 39.49-0.06 1.0  
 MORF HE 193 49 ES 2313 59.21 0.06 1.0  
 MORF HN 193 49 AML 2314 1.31 6 0.2

**August 25 2013 Hour: 7:16 16.3 Lat: 36.60N Lon: 11.55W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 3.7ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	270	72	EP		716	51.81	-0.02							1.0
MORF	HN	270	72	ES		717	17.86	0.06							1.0
MORF	HN	270	72	AML		717	19.66			292	0.3				
GGNV	HZ	316	41	EP		716	57.45	-0.11							1.0
GGNV	HE	316	41	ES		717	27.77	0.07							1.0
GGNV	HN	316	41	AML		717	30.90			363	0.4				

**August 25 2013 Hour: 16: 7 16.7 Lat: 33.50S Lon: 57.05E Depth: 17F Agency: IGL Distant**  
**Magnitudes: 5.0MS 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	BZ10374	313	313	EPP		1624	13.99	-0.04							1.0
MORF	BE10374	313	313	ESKSac		1631	3.68	0.08							1.0
MORF	BE10374	313	313	ESS		1637	54.38	-0.04							1.0
MORF	BE10374	313	313	AMS		17 5	50.87			796	32.8				

**August 25 2013 Hour: 17:57 34.3 Lat: 36.80N Lon: 8.78W Depth: 29F Agency: IGL Regional**  
**Magnitudes: 1.1ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	57	12	EP		1757	43.99	-0.12							1.0
MORF	HN	57	12	ES		1757	51.42	0.12							1.0
MORF	HE	57	12	AML		1757	52.74			8	0.3				

**August 26 2013 Hour: 6:47 56.0 Lat: 36.94N Lon: 8.85W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	23	EP		648	4.26	0.00							1.0
MORF	HN	44	23	ES		648	10.26	0.00							1.0
MORF	HN	44	23	AML		648	11.04			7	0.1				

**August 27 2013 Hour: 18:52 30.3 Lat: 36.69N Lon: 5.01W Depth: 32F Agency: IGL Regional**  
**Magnitudes: 2.2ML 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	331	283	EP		1853	14.09	-0.09							1.0
MORF	HN	331	283	ES		1853	46.33	0.09							1.0
MORF	HN	331	283	AML		1853	50.03			9	0.1				

**August 27 2013 Hour: 20:33 18.2 Lat: 37.33N Lon: 8.58W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**

**NW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	247	EP		2033	20.58	-0.05							1.0
MORF	HE	7	247	ES		2033	22.45	0.05							1.0
MORF	HN	7	247	AML		2033	23.36			24	0.2				

**August 28 2013 Hour: 2:54 42.1 Lat: 27.80S Lon: 179.67E Depth:489FAgency: IGL Distant**  
**Magnitudes: 0.0 IGL Rms: 0.0 secs**

**KERMADEC ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18561	32	32	EPKpdf		313	50.46	0.02							1.0
GGNV	BZ18561	32	32	EPP		318	46.77	-0.07							1.0
MORF	BZ18711	34	34	EPKpdf		313	51.54	0.05							1.0
MORF	BZ18711	34	34	EPP		318	53.73	0.00							1.0

August 28 2013 Hour: 10:45 28.4 Lat: 36.85N Lon: 8.51W Depth: 9F 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	52	346	EP		1045	36.94	-0.01							1.0
MORF	HN	52	346	ES		1045	43.20	0.01							1.0
MORF	HN	52	346	AML		1045	44.65			16	0.4				

August 29 2013 Hour: 13:52 26.7 Lat: 19.32S Lon: 179.15W Depth: 649F Agency: IGL Distant  
Rms: 0.0 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ17832	23	EPKpdf			1411	12.96	0.03							1.0

August 30 2013 Hour: 16:25 2.9 Lat: 51.61N Lon: 175.36W Depth: 34F Agency: IGL Distant  
Magnitudes: 6.9MS IGL Rms: 0.1 secs

ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9914	11	EP		1637	54.85	0.12							1.0
GGNV	BZ	9914	11	EPP		1641	25.85	0.00							1.0
GGNV	BN	9914	11	ESKSac		1648	21.88	-0.08							1.0
GGNV	BE	9914	11	ESS		1654	38.17	-0.07							1.0
GGNV	BZ	9914	11	AMS		1722	0.45			47340	15.5				
MORF	BZ10076	11	EP			1638	1.78	0.18							1.0
MORF	BZ10076	11	EPP			1641	37.39	-0.07							1.0
MORF	BN10076	11	ESKSac			1648	30.61	-0.01							1.0
MORF	BN10076	11	ESS			1654	59.32	-0.05							1.0
MORF	BZ10076	11	AMS			1718	47.20			40533	20.6				

August 30 2013 Hour: 21:11 42.0 Lat: 38.11N Lon: 9.65W Depth: 1F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	135	EP		2112	2.14	-0.06							1.0
MORF	HE	125	135	ES		2112	17.02	0.06							1.0
MORF	HN	125	135	AML		2112	19.60			27	0.3				

August 31 2013 Hour: 0:4 17.9 Lat: 28.23N Lon: 99.37E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.4MS IGL Rms: 0.1 secs

SICHUAN-YUNNAN BORDER REGION, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9540	312	EP		016	57.51	0.02							1.0
GGNV	BN	9540	312	AMS		054	52.54			1795	17.1				
MORF	BZ	9589	311	EP		016	59.62	-0.12							1.0
MORF	BE	9589	311	ESS		033	14.87	0.11							1.0
MORF	BE	9589	311	AMS		057	45.24			1352	23.0				

August 31 2013 Hour: 1:56 57.5 Lat: 37.32N Lon: 8.55W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	260	EP		156	59.80	-0.10							1.0
MORF	HN	9	260	ES		157	1.73	0.10							1.0
MORF	HN	9	260	AML		157	2.50			53	0.2				

August 31 2013 Hour: 6:38 36.6 Lat: 51.36N Lon: 174.93W Depth: 17F Agency: IGL Distant  
Magnitudes: 6.0MS IGL Rms: 0.1 secs

ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9937	11	EP		651	32.03	0.08							1.0
GGNV	BZ	9937	11	AMS		740	24.91			6452	24.9				
MORF	BZ10098	11	EP			651	38.77	-0.04							1.0
MORF	BN10098	11	ESKSac			72	9.99	-0.04							1.0

MORF BZ10098 11 AMS 740 55.83 5889 19.8

**August 31 2013 Hour: 9:36 56.5 Lat: 36.47N Lon: 12.48W Depth: 10F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	354	74	EP		937	45.04	0.14							1.0
MORF	HN	354	74	ES		938	20.10	-0.14							1.0
MORF	HN	354	74	AML		938	20.95			5	0.3				

**August 31 2013 Hour: 10:30 26.2 Lat: 36.97N Lon: 8.39W Depth: 11F Agency: IGL Regional  
Magnitudes: 2.2ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	328	EP		1030	33.54	0.02							1.0
MORF	HN	44	328	ES		1030	38.84	-0.02							1.0
MORF	HE	44	328	AML		1030	39.99			169	0.2				

**August 31 2013 Hour: 19:31 7.9 Lat: 34.91N Lon: 3.73W Depth: 0 Agency: IGL Regional  
Rms: 0.0 secs**

**MOROCCO Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	517	302	EP		1932	17.28	-0.01							1.0

**August 31 2013 Hour: 22:16 28.1 Lat: 36.83N Lon: 9.71W Depth: 27F 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	108	60	EP		2216	44.67	0.06							1.0
MORF	HE	108	60	ES		2216	56.56	-0.06							1.0
MORF	HE	108	60	AML		2216	57.92			10	0.2				

**August 31 2013 Hour: 23:54 53.4 Lat: 36.94N Lon: 11.06W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	218	79	EP		2355	22.51	-0.03							1.0
MORF	HE	218	79	ES		2355	43.82	0.03							1.0
MORF	HN	218	79	AML		2355	45.58			9	0.4				