

Seismological Bulletin

from the

IGIDL Seismic Network

November to December

2011

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STATIONS USED

The stations listed below are those operated by the Institute of Geophysics Infante D. Luis, University of Lisbon (UL).

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

Evora (S.Brisos) - CEA - SCIENCES DE LA TERRE ET DE L'ENVIRONNEMENT
EVOP

Latitude	38.5280N
Longitude	8.12360W
Height	100m

**November 1 2011 Hour: 0:21 28.1 Lat: 43.63N Lon: 82.38E Depth: 28F Agency: IGL Distant
Magnitudes: 5.3MS IGL Rms: 0.1 secs**

NORTHERN XINJIANG, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	SZ	7222	301	EP		032	5.43	0.07							1.0
MESJ	BZ	7285	300	EP		032	9.05	-0.02							1.0
MESJ	BZ	7285	300	AMS		1 3	24.53			1659	19.1				
GGNV	BZ	7291	301	EP		032	9.46	0.09							1.0
GGNV	BE	7291	301	AMS		1 7	4.04			1962	20.6				
MORF	BZ	7351	299	EP		032	12.83	-0.14							1.0
MORF	BE	7351	299	AMS		1 6	56.34			2180	16.8				

**November 1 2011 Hour: 1: 3 53.2 Lat: 0.00S Lon: 123.37E Depth:140FAgency: IGL Distant
Rms: 0.1 secs**

SULAWESI, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	13549	316	EP		122	30.08	-0.07							1.0
MORF	BZ	13610	316	EP		122	31.33	0.07							1.0

**November 1 2011 Hour: 12:31 59.3 Lat: 19.89N Lon: 109.22W Depth: 5F Agency: IGL Distant
Magnitudes: 5.5MB IGL Rms: 0.1 secs**

REVILLA GIGEDO ISLAND REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9604	51	EP		1244	42.49	-0.06							1.0
MESJ	BZ	9604	51	AMb		1244	49.52			45	1.2				
MESJ	BN	9604	51	ES		1255	8.54	0.06							1.0

**November 1 2011 Hour: 13:29 47.1 Lat: 37.40N Lon: 9.10W Depth: 29F Agency: IGL Regional
Magnitudes: 1.3ML 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	41	105	EP		1329	54.83	0.01							1.0
MORF	HN	41	105	ES		1330	0.47	-0.01							1.0
MORF	HE	41	105	AML		1330	1.03			22	0.2				

**November 1 2011 Hour: 18:23 41.6 Lat: 38.86N Lon: 8.24W Depth: 0 Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.2 secs**

SW MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	SZ	44	318	EP		1823	48.50	-0.18							1.0
ALMR	SN	44	318	ES		1823	53.78	-0.06							1.0
ALMR	SN	44	318	AML		1823	55.21			57	0.1				
MESJ	HZ	113	179	EP		1824	0.30	0.41							1.0
MESJ	HE	113	179	ES		1824	13.15	-0.08							1.0
MESJ	HN	113	179	AML		1824	15.00			41	0.2				
MORF	HZ	176	192	EPg		1824	10.21	0.18							0.9
MORF	HE	176	192	ESg		1824	30.52	-0.25							0.9
MORF	HN	176	192	AML		1824	31.78			19	0.1				

**November 2 2011 Hour: 4:36 52.6 Lat: 36.48N Lon: 7.31W Depth: 31F 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	171	332	EP		437	16.73	0.11							1.0
MESJ	HN	171	332	ES		437	34.03	-0.11							1.0
MESJ	HN	171	332	AML		437	34.72			2	0.1				

November 2 2011 Hour: 7:040.8 Lat: 37.24N Lon: 13.16W 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
MESJ	HZ	442	80	EP		7 1	41.03	0.00							1.0
MESJ	HE	442	80	ES		7 2	25.00	0.00							1.0
MESJ	HN	442	80	AML		7 2	28.34			4	0.4				

November 2 2011 Hour: 21:32 58.8 Lat: 37.02N Lon: 9.04W Depth: 0 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	47	47	EP		2133	6.10	-0.29							1.0
MORF	HN	47	47	ES		2133	11.93	0.01							1.0
MORF	HN	47	47	AML		2133	12.49			17	0.4				
MESJ	HZ	116	38	EP		2133	17.71	0.13							1.0
MESJ	HE	116	38	ES		2133	31.45	0.17							1.0
MESJ	HN	116	38	AML		2133	33.54			15	0.2				

November 2 2011 Hour: 22:17 39.2 Lat: 38.66N Lon: 8.47W Depth: 4F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

SW VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	94	166	EP		2217	54.22	-0.12							1.0
MESJ	HN	94	166	ES		2218	5.41	0.03							1.0
MESJ	HN	94	166	AML		2218	7.19			13	0.2				
MORF	HZ	151	186	EPg		2218	3.67	0.07							1.0
MORF	HN	151	186	ESg		2218	21.42	0.03							1.0
MORF	HN	151	186	AML		2218	22.61			21	0.3				

November 3 2011 Hour: 0:53 34.7 Lat: 37.27N Lon: 4.49W 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	335	282	EP		054	21.84	-0.03							1.0

November 3 2011 Hour: 5:12 0.6 Lat: 37.34N Lon: 8.57W Depth: 10F 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	8	242	EP		512	2.70	-0.05							1.0
MORF	HN	8	242	ES		512	4.34	0.02							1.0
MORF	HN	8	242	AML		512	5.18			74	0.2				
MESJ	HN	64	29	ES		512	18.58	0.03							1.0
MESJ	HE	64	29	AML		512	19.55			5	0.2				

November 3 2011 Hour: 11:48 54.7 Lat: 35.97N Lon: 10.53W Depth: 31F Agency: IGL Regional
Magnitudes: 3.9ML 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	224	48	EP		1149	25.26	-0.08							1.0
MORF	HE	224	48	ES		1149	47.75	0.06							1.0
MORF	HE	224	48	AML		1149	49.54			768	0.2				
MESJ	HN	292	44	ES		1150	2.51	0.23							1.0
MESJ	HN	292	44	AML		1150	4.77			375	0.2				
GGNV	HN	328	21	ES		1150	9.91	-0.12							0.9
GGNV	HE	328	21	AML		1150	12.42			739	0.4				
ALMR	SN	393	25	ES		1150	24.03	0.07							0.9
ALMR	SN	393	25	AML		1150	26.07			234	0.5				
MESJ	HZ	292	44	EP		1149	33.61	-0.16							1.0

November 4 2011 Hour: 2:48 11.0 Lat: 38.68N Lon: 8.47W Depth: 1 Agency: IGL Regional
 Magnitudes: 1.5ML IGL Rms: 0.1 secs

NW VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	96	167	EP		248	26.34	-0.08							1.0
MESJ	HN	96	167	ES		248	37.77	0.06							1.0
MESJ	HE	96	167	AML		248	38.57			5	0.3				
MORF	HZ	153	186	EPg		248	35.75	0.06							1.0
MORF	HN	153	186	ESg		248	53.70	-0.04							1.0
MORF	HN	153	186	AML		248	54.91			11	0.5				

November 4 2011 Hour: 4:50 23.0 Lat: 36.43N Lon: 8.44W 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	99	349	EP		450	38.64	-0.11							1.0
MORF	HN	99	349	ES		450	50.30	0.05							1.0
MORF	HE	99	349	AML		450	51.14			24	0.3				
MESJ	HZ	158	7	EP		450	46.36	0.06							1.0
MESJ	HN	158	7	ES		451	3.31	0.00							1.0
MESJ	HN	158	7	AML		451	4.21			14	0.1				

November 4 2011 Hour: 6:56 0.1 Lat: 36.29N Lon: 8.23W Depth: 23F Agency: IGL Regional
 Magnitudes: 1.9ML 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	119	342	EP		656	18.12	-0.03							1.0
MORF	HE	119	342	ESg		656	32.62	0.00							1.0
MORF	HN	119	342	AML		656	34.91			20	0.1				
MESJ	HZ	172	0	EP		656	24.75	0.04							1.0

November 4 2011 Hour: 22:44 2.5 Lat: 34.95N Lon: 10.62W 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	316	34	EP		2244	44.50	-0.03							1.0
MORF	HN	316	34	ES		2245	15.03	-0.17							1.0
MORF	HN	316	34	AML		2245	16.70			14	0.3				
MESJ	HZ	386	33	EP		2244	53.34	0.10							1.0
MESJ	HE	386	33	ES		2245	30.38	0.12							1.0
MESJ	HE	386	33	AML		2245	31.71			5	0.5				

November 5 2011 Hour: 7:13 57.1 Lat: 23.53S Lon: 70.40W Depth: 27F Agency: IGL Distant
 Magnitudes: 5.2MS 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	BE	9331	45	ES		736	44.50	0.03							1.0
MORF	BZ	9331	45	AMS		8 3	17.70			1467	25.2				
MESJ	BZ	9396	45	EP		726	27.33	-0.01							1.0
MESJ	BE	9396	45	ES		736	48.18	-0.02							1.0
MESJ	BZ	9396	45	AMS		8 2	30.20			1089	21.0				

November 5 2011 Hour: 12:47 34.7 Lat: 36.65N Lon: 11.01W Depth: 1 Agency: IGL Regional
 Magnitudes: 2.6ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	222	70	EP		1248	7.61	-0.01							1.0
MORF	HN	222	70	ES		1248	31.56	-0.13							1.0
MORF	HN	222	70	AML		1248	33.09			75	0.2				
MESJ	HZ	281	61	EP		1248	14.94	0.12							1.0
MESJ	HE	281	61	ES		1248	44.16	0.03							1.0
MESJ	HN	281	61	AML		1248	46.10			16	0.3				

November 5 2011 Hour: 12:51 18.2 Lat: 36.20N Lon: 7.46W Depth: 0F Agency: IGL Regional
Magnitudes: 2.0ML 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	162	319	EP		1251	43.59	-0.31							1.0
MORF	HN	162	319	ES		1252	2.84	0.19							1.0
MORF	HN	162	319	AML		1252	3.12			16	0.3				
MESJ	HZ	194	340	EP		1251	47.96	0.15							1.0
MESJ	HN	194	340	ES		1252	9.37	-0.03							1.0

November 5 2011 Hour: 18:22 35.1 Lat: 36.44N Lon: 5.90W Depth: 28F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	258	308	EP		1823	10.18	0.15							1.0
MESJ	HE	258	308	ES		1823	35.53	-0.03							1.0
MESJ	HN	258	308	AML		1823	37.32			48	0.2				
MORF	HZ	263	292	EP		1823	10.60	-0.14							1.0
MORF	HN	263	292	ES		1823	36.80	0.02							1.0
MORF	HE	263	292	AML		1823	38.46			101	0.2				

November 6 2011 Hour: 2: 3 0.1 Lat: 37.39N Lon: 9.14W Depth: 27F Agency: IGL Regional
Magnitudes: 1.1ML 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	44	102	EP		2 3	8.08	-0.03							1.0
MORF	HE	44	102	ES		2 3	14.03	0.05							1.0
MORF	HN	44	102	AML		2 3	14.93			26	0.1				
MESJ	HZ	95	58	EP		2 3	14.75	-0.18							1.0
MESJ	HE	95	58	ES		2 3	25.94	0.17							1.0
MESJ	HE	95	58	AML		2 3	27.40			2	0.6				

November 6 2011 Hour: 5:45 11.1 Lat: 35.64N Lon: 5.43W Depth: 30F Agency: IGL Regional
Magnitudes: 3.5ML 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	343	304	EP		545	56.34	-0.19							1.0
MORF	HN	343	304	ES		546	29.77	0.09							1.0
MORF	HN	343	304	AML		546	31.59			100	0.2				
MESJ	HZ	349	315	EP		545	57.20	-0.03							1.0
MESJ	HE	349	315	ES		546	30.76	-0.14							1.0
MESJ	HN	349	315	AML		546	32.71			279	0.2				
GGNV	HE	475	317	ES		546	57.70	0.17							0.9
GGNV	HN	475	317	AML		546	58.09			62	0.3				
ALMR	SZ	479	325	EP		546	13.21	0.05							0.9
ALMR	SE	479	325	ES		546	58.54	0.09							0.9
ALMR	SE	479	325	AML		547	0.43			116	0.3				

November 6 2011 Hour: 5:51 29.5 Lat: 35.77N Lon: 5.41W Depth: 30F 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
MESJ	HZ	340	313	EP		552	14.52	0.00							1.0
MESJ	HN	340	313	ES		552	47.41	0.00							1.0
MESJ	HN	340	313	AML		552	49.26			2	0.4				

November 6 2011 Hour: 8: 8 14.1 Lat: 54.11N Lon: 162.50W Depth: 25F Agency: IGL Distant
Magnitudes: 5.1MS IGL Rms: 0.1 secs

ALASKA PENINSULA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9412	21	EP		820	45.48	0.06							1.0
GGNV	BZ	9412	21	AMS		857	11.02			1073	25.5				
MORF	BZ	9575	21	EP		820	52.74	-0.06							1.0

MORF BZ 9575 21 AMS 857 42.84 1074 23.5

November 6 2011 Hour: 20:56 50.2 Lat: 35.79N Lon: 25.65E Depth: 13F Agency: IGL Distant
Magnitudes: 4.8MB IGL Rms: 0.0 secs
CRETE, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3015	284	EP		21	2	32.82	0.02						1.0
MESJ	BZ	3015	284	AMb		21	2	40.07		23	1.5				

November 7 2011 Hour: 11:59 31.9 Lat: 36.55N Lon: 71.06E Depth: 219F Agency: IGL Distant
Magnitudes: 5.2MB IGL Rms: 0.1 secs
HINDU KUSH REGION, AFGHANISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6812	297	EP		12	9	24.02	0.02						1.0
MESJ	BZ	6812	297	AMb		12	9	26.92		138	1.1				
MESJ	BE	6812	297	ES		12	17	26.91	-0.12						1.0
GGNV	BZ	6843	299	EP		12	9	25.92	0.08						1.0
GGNV	BZ	6843	299	AMb		12	9	29.07		177	0.9				
MORF	BZ	6872	297	EP		12	9	27.61	-0.06						1.0
MORF	BZ	6872	297	AMb		12	9	30.03		62	1.4				
MORF	BE	6872	297	ES		12	17	33.99	0.07						1.0

November 7 2011 Hour: 12:34 32.5 Lat: 37.34N Lon: 8.53W Depth: 14F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.2 secs
NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	251	EP		12	34	35.20	-0.25						1.0
MORF	HN	11	251	ES		12	34	37.78	0.17						1.0
MORF	HN	11	251	AML		12	34	38.73		169	0.2				
MESJ	HZ	62	26	EP		12	34	42.67	0.11						1.0
MESJ	HN	62	26	ES		12	34	49.87	-0.03						1.0
MESJ	HN	62	26	AML		12	34	50.70		6	0.1				

November 7 2011 Hour: 14:45 42.0 Lat: 36.84N Lon: 9.52W Depth: 22F 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	93	56	EP		14	45	56.80	0.02						1.0
MORF	HN	93	56	ES		14	46	7.64	0.08						1.0
MORF	HN	93	56	AML		14	46	8.60		51	0.2				
MESJ	HN	160	46	ES		14	46	22.22	0.01						1.0
MESJ	HN	160	46	AML		14	46	23.01		12	0.3				
MESJ	HZ	160	46	EP		14	46	5.13	-0.12						1.0

November 7 2011 Hour: 21:20 9.1 Lat: 35.24N Lon: 5.01W Depth: 31F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	399	306	ES		21	21	39.68	0.04						1.0
MORF	HN	399	306	AML		21	21	40.96		4	0.3				
MESJ	HZ	407	316	EP		21	21	2.41	0.07						1.0
MESJ	HE	407	316	ES		21	21	41.27	0.06						1.0
MESJ	HE	407	316	AML		21	21	42.54		3	0.0				
MORF	HZ	399	306	EP		21	21	1.27	-0.17						1.0

November 7 2011 Hour: 22:35 26.3 Lat: 11.63N Lon: 85.80W Depth: 183F Agency: IGL Distant
Magnitudes: 5.5MB IGL Rms: 0.2 secs
NICARAGUA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8063	53	EP		22	46	33.02	0.19						1.0
GGNV	BZ	8063	53	AMb		22	46	36.17		174	1.8				
MORF	BZ	8111	54	EP		22	46	35.56	0.13						1.0
MORF	BZ	8111	54	AMb		22	46	38.23		241	1.7				
MORF	BE	8111	54	ES		22	55	47.44	0.22						1.0

ALMR	SZ	8112	53	EP		2246	35.16-0.27										1.0
ALMR	SZ	8112	53	AMb		2246	37.69			1260	1.4						
MESJ	BZ	8147	54	EP		2246	37.21-0.08										1.0
MESJ	BZ	8147	54	AMb		2246	39.03			87	1.8						
MESJ	BE	8147	54	ES		2255	50.62-0.18										1.0

**November 8 2011 Hour: 2:59 6.7 Lat: 27.29N Lon: 125.87E Depth:210F Agency: IGL Distant
Magnitudes: 6.5MS IGL Rms: 0.3 secs**

NORTHEAST OF TAIWAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	SZ	11280	326	EP		312	34.04	0.30							1.0
GGNV	BZ	11350	326	EP		312	36.21-0.28								1.0
GGNV	BZ	11350	326	EPP		316	50.37-0.27								1.0
GGNV	BE	11350	326	AMS		4 0	13.85		19958	19.8					
MESJ	BZ	11371	324	EP		312	37.37	0.00							1.0
MESJ	BZ	11371	324	EPP		316	51.86-0.25								1.0
MESJ	BN	11371	324	ES		322	55.84-0.39								1.0
MESJ	BE	11371	324	AMS		357	17.33		12836	20.6					
MORF	BZ	11441	324	EP		312	40.43	0.22							1.0
MORF	BZ	11441	324	EPP		316	57.12	0.28							1.0
MORF	BN	11441	324	ES		322	59.66	0.40							1.0
MORF	BN	11441	324	AMS		357	55.11		15995	20.1					

**November 8 2011 Hour: 22: 5 49.5 Lat: 38.71N Lon: 43.11E Depth: 6F Agency: IGL Distant
Magnitudes: 5.5MB IGL Rms: 0.1 secs**

EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4433	285	EP		2213	23.66-0.19								1.0
MESJ	BZ	4433	285	AMb		2213	33.23			61	1.9				
MESJ	BN	4433	285	ES		2219	30.02	0.14							1.0
GGNV	BZ	4481	287	EP		2213	27.48	0.04							1.0
GGNV	BZ	4481	287	AMb		2213	30.02			325	1.3				

**November 8 2011 Hour: 22: 6 5.2 Lat: 36.46N Lon: 11.33W Depth: 31F 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	257	68	EP		22 6	39.95	0.12							1.0
MORF	HE	257	68	ES		22 7	5.07-0.06								1.0
MORF	HN	257	68	AML		22 7	6.26			34	0.3				
MESJ	HN	316	60	ES		22 7	17.81	0.01							1.0
GGNV	HN	316	37	ES		22 7	17.89	0.10							1.0
GGNV	HN	316	37	AML		22 7	19.33			65	0.2				
MESJ	HZ	316	60	EP		22 6	47.20	0.05							1.0
MESJ	HN	316	60	AML		22 7	22.62			34	0.2				
ALMR	SZ	385	38	EP		22 6	55.55-0.20								0.9
ALMR	SN	385	38	ES		22 7	32.63-0.03								0.9
ALMR	SN	385	38	AML		22 7	33.90			66	0.2				

**November 9 2011 Hour: 2:39 9.2 Lat: 38.70N Lon: 7.82W Depth: 16F Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.0 secs**

E ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	102	200	EP		239	25.30-0.04								1.0
MESJ	HE	102	200	ES		239	37.13	0.04							1.0
MESJ	HN	102	200	AML		239	38.26			9	0.3				

**November 9 2011 Hour: 6:54 39.1 Lat: 36.22N Lon: 8.52W Depth: 16F 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	121	355	EP		654	57.92-0.14								1.0
MESJ	HZ	182	8	EP		655	5.62	0.07							1.0
MESJ	HN	182	8	ES		655	24.94	0.08							1.0

MESJ HN 182 8 AML 655 26.33 12 0.1

**November 9 2011 Hour: 13:16 7.8 Lat: 37.34N Lon: 8.49W Depth: 10F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs**

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	15	255	EP		1316	10.60	-0.17							1.0
MORF	HN	15	255	ES		1316	12.95	0.05							1.0
MORF	HN	15	255	AML		1316	13.46			514	0.3				
MESJ	HZ	60	23	EP		1316	17.84	0.12							1.0

**November 9 2011 Hour: 19:23 34.8 Lat: 38.42N Lon: 43.29E Depth: 6F Agency: IGL Distant
Magnitudes: 5.4MS IGL 4.9MB IGL Rms: 0.1 secs**

EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4456	286	EP		1931	10.83	-0.11							1.0
MESJ	BZ	4456	286	AMb		1931	13.56			51	2.3				
GGNV	BZ	4506	287	EP		1931	14.72	0.14							1.0
GGNV	BE	4506	287	ES		1937	24.98	0.03							1.0
GGNV	BN	4506	287	AMS		1950	33.26			5102	16.3				
MORF	BZ	4511	285	EP		1931	14.98	-0.06							1.0
MORF	BN	4511	285	AMS		1951	43.57			3854	14.8				

**November 11 2011 Hour: 3:48 8.7 Lat: 36.03N Lon: 7.38W Depth: 10F 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
MESJ	HZ	214	340	EP		348	39.70	-0.01							1.0
MESJ	HN	214	340	ES		349	2.40	0.01							1.0
MESJ	HN	214	340	AML		349	3.58			2	0.7				

**November 11 2011 Hour: 15:2 21.0 Lat: 17.74S Lon: 172.99W Depth: 10F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.1 secs**

TONGA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17352	31	EP			1522	14.60	-0.09							1.0
MESJ	BZ17352	31	AMS			1632	41.74			762	16.4				
MORF	BZ17375	32	EP			1522	15.11	0.09							1.0
MORF	BZ17375	32	AMS			1630	21.56			1016	15.5				

**November 14 2011 Hour: 4:5 12.0 Lat: 0.95S Lon: 126.86E Depth: 19F Agency: IGL Distant
Magnitudes: 6.0MS IGL Rms: 0.1 secs**

MOLUCCA SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13893	317	EPP			425	58.17	0.04							1.0
MESJ	BE13893	317	ES			431	12.16	-0.01							1.0
MESJ	BZ13893	317	AMS			532	47.31			3332	19.3				
MORF	BZ13956	317	EPP			426	1.89	-0.08							1.0
MORF	BE13956	317	ES			431	14.10	0.05							1.0
MORF	BZ13956	317	AMS			525	55.16			3045	20.7				

**November 14 2011 Hour: 16:58 1.0 Lat: 36.67N Lon: 9.70W Depth: 19F 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	117	53	EP		1658	19.20	0.04							1.0
MORF	HE	117	53	ES		1658	32.33	-0.12							1.0
MORF	HN	117	53	AML		1658	33.40			114	0.2				
MESJ	HZ	185	45	EP		1658	27.47	-0.05							1.0
MESJ	HN	185	45	ES		1658	47.05	0.14							1.0
MESJ	HN	185	45	AML		1658	48.15			29	0.2				

November 15 2011 Hour: 7:56 2.4 Lat: 7.50S Lon: 127.83E Depth:163F Agency: IGL Distant
Rms: 0.1 secs

KEPULAUAN BARAT DAYA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14484	314	EP			814	52.68	0.10							1.0
MORF	BZ14544	314	EP			814	53.55	-0.10							1.0

November 15 2011 Hour: 18:15 37.4 Lat: 37.45N Lon: 13.82W 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	458	90	EP		1816	39.61	0.07							1.0
MORF	HN	458	90	ES		1817	24.77	-0.12							1.0
MORF	HN	458	90	AML		1817	25.99			13	0.1				
MESJ	HZ	496	83	EP		1816	44.26	0.14							1.0
MESJ	HE	496	83	ES		1817	32.74	-0.08							1.0
MESJ	HN	496	83	AML		1817	36.57			19	0.3				

November 15 2011 Hour: 23:42 29.1 Lat: 5.30S Lon: 140.29E Depth: 9F Agency: IGL Distant
Rms: 0.1 secs

PAPUA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15219	325	EP			24	1	51.27	-0.08						1.0
GGNV	BZ15219	325	EPP			24	4	34.20	0.15						1.0
MESJ	BZ15222	323	EP			24	1	51.47	0.03						1.0
MESJ	BZ15222	323	EPP			24	4	34.21	-0.07						1.0
MORF	BZ15290	323	EP			24	1	52.44	-0.17						1.0
MORF	BZ15290	323	EPP			24	4	38.27	0.14						1.0

November 16 2011 Hour: 3:2 39.0 Lat: 37.23N Lon: 7.48W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NW CASTRO MARIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	94	316	EP		3	2	53.94	-0.06						1.0
MESJ	HN	94	316	ES		3	3	4.89	-0.09						1.0
MESJ	HN	94	316	AML		3	3	6.52			3	0.2			
MORF	HN	104	275	ES		3	3	7.82	0.16						1.0
MORF	HN	104	275	AML		3	3	9.43			11	0.3			

November 16 2011 Hour: 22:5 54.4 Lat: 65.23N Lon: 145.85E Depth: 16F Agency: IGL Distant
Magnitudes: 4.6MS IGL Rms: 0.1 secs

SOUTHWESTERN SAKHA, RUSSIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8357	339	EP		2217	35.91	-0.11							1.0
MESJ	BE	8357	339	AMS		2253	16.66			259	19.5				
MORF	BZ	8423	339	EP		2217	39.56	0.11							1.0
MORF	BE	8423	339	AMS		2253	43.16			297	16.4				

November 17 2011 Hour: 1:57 5.6 Lat: 1.78S Lon: 81.55W Depth: 30F Agency: IGL Distant
Magnitudes: 5.5MS IGL Rms: 0.1 secs

OFF COAST OF ECUADOR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8622	50	EP		2	8	58.45	0.14						1.0
GGNV	BZ	8622	50	AMS		241	44.01			3027	18.4				
MORF	BZ	8632	51	EP		2	8	58.89	0.02						1.0
MORF	BE	8632	51	ES		218	48.67	-0.19							1.0
MORF	BZ	8632	51	AMS		241	21.19			2545	21.4				
MESJ	BZ	8681	51	EP		2	9	1.42	0.13						1.0
MESJ	BN	8681	51	ES		218	53.45	-0.11							1.0
MESJ	BZ	8681	51	AMS		239	17.53			2558	35.5				

November 17 2011 Hour: 12:30 53.6 Lat: 38.26N Lon: 8.90W Depth: 10F Agency: IGL Regional
Magnitudes: 1.7ML 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
MESJ	HZ	76	128	EP		1231	5.88	0.00							1.0
MESJ	HN	76	128	ES		1231	14.74	-0.10							1.0
MESJ	HE	76	128	AML		1231	16.66			16	0.1				
MORF	HE	108	168	ES		1231	23.45	0.11							1.0
MORF	HE	108	168	AML		1231	24.41			22	0.2				

November 17 2011 Hour: 13:13 36.6 Lat: 36.06N Lon: 10.69W Depth: 31F Agency: IGL Regional
Magnitudes: 2.8ML 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	229	52	EP		1314	7.89	0.09							1.0
MORF	HN	229	52	ES		1314	30.51	-0.07							1.0
MORF	HN	229	52	AML		1314	31.29			68	0.2				
MESJ	HZ	296	47	EP		1314	15.98	-0.09							1.0
MESJ	HN	296	47	ES		1314	44.95	0.07							1.0
MESJ	HN	296	47	AML		1314	46.81			37	0.3				

November 17 2011 Hour: 13:31 0.8 Lat: 14.03N Lon: 91.63W Depth: 46F Agency: IGL Distant
Magnitudes: 5.5MS IGL Rms: 0.1 secs

OFFSHORE GUATEMALA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8410	53	EP		1342	40.79	-0.05							1.0
GGNV	BE	8410	53	AMS		1413	18.85			2876	21.3				
MORF	BZ	8472	55	EP		1342	44.09	-0.02							1.0
MORF	BN	8472	55	ESKSac		1352	50.17	0.10							1.0
MORF	BZ	8472	55	AMS		1414	3.79			3014	22.0				
MESJ	BZ	8502	54	EP		1342	45.58	-0.03							1.0
MESJ	BZ	8502	54	AMS		1414	5.33			2635	20.5				

November 17 2011 Hour: 13:45 47.9 Lat: 37.34N Lon: 8.65W Depth: 15F Agency: IGL Regional
Magnitudes: 1.7ML 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	181	EP		1345	50.30	-0.11							1.0
MORF	HE	4	181	ES		1345	52.28	0.01							1.0
MORF	HE	4	181	AML		1345	52.49			523	0.2				
MESJ	HZ	67	34	EP		1345	58.90	0.16							1.0
MESJ	HN	67	34	ES		1346	6.63	-0.05							1.0
MESJ	HE	67	34	AML		1346	7.78			20	0.1				

November 17 2011 Hour: 22:25 0.6 Lat: 37.32N Lon: 8.62W Depth: 15F 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	3	241	EP		2225	3.03	-0.14							1.0
MORF	HN	3	241	ES		2225	5.07	0.05							1.0
MORF	HE	3	241	AML		2225	5.42			52	0.1				
MESJ	HZ	68	31	EP		2225	11.72	0.14							1.0
MESJ	HE	68	31	ES		2225	19.53	-0.04							1.0
MESJ	HE	68	31	AML		2225	20.68			4	0.2				

November 17 2011 Hour: 22:43 19.7 Lat: 37.29N Lon: 8.52W Depth: 12F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	279	EP		2243	22.35	-0.11							1.0
MORF	HN	12	279	ES		2243	24.58	0.10							1.0
MORF	HN	12	279	AML		2243	25.09			12	0.2				
MESJ	HN	67	23	ES		2243	38.30	0.01							1.0

MESJ HN 67 23 AML 2243 39.12 0.90 0.5

November 18 2011 Hour: 6:053.9 Lat: 33.71N Lon: 38.51W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3MB IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2686	70	EP		6 6	10.20	0.05							1.0
GGNV	BZ	2686	70	AMb		6 6	14.20			104	0.8				
GGNV	BE	2686	70	ES		610	29.38	0.10							1.0
MORF	BZ	2727	73	EP		6 6	13.58	0.01							1.0
MORF	BZ	2727	73	AMb		6 6	17.39			69	1.3				
MORF	BE	2727	73	ES		610	35.24	-0.10							1.0
MESJ	BZ	2765	72	EP		6 6	16.53	-0.10							1.0
MESJ	BZ	2765	72	AMb		6 6	20.03			53	0.5				
MESJ	BN	2765	72	ES		610	40.72	0.04							1.0

November 18 2011 Hour: 7:5126.9 Lat: 37.56S Lon: 179.31E Depth: 27F Agency: IGL Distant
Magnitudes: 5.8MS IGL Rms: 0.1 secs

OFF EAST COAST OF NORTH ISLAND, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	19260	78	EP		811	33.22	0.06							1.0
GGNV	BZ	19260	78	EPP		816	53.25	0.10							1.0
GGNV	BZ	19260	78	AMS		936	36.96			1512	22.8				
MORF	BZ	19308	90	EP		811	33.36	-0.05							1.0
MORF	BZ	19308	90	EPP		816	55.17	-0.14							1.0
MORF	BZ	19308	90	AMS		926	56.12			1279	21.7				
MESJ	BZ	19348	85	EP		811	33.49	0.00							1.0
MESJ	BZ	19348	85	EPP		816	57.06	0.04							1.0
MESJ	BZ	19348	85	AMS		927	17.75			1530	20.7				

November 19 2011 Hour: 9:944.6 Lat: 37.58N Lon: 5.78W Depth: 4F Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	217	278	EP		910	16.66	0.08							1.0
MESJ	HE	217	278	ESg		910	45.09	-0.04							1.0
MESJ	HE	217	278	AML		910	47.73			54	0.1				
MORF	HZ	256	264	EP		910	21.32	-0.11							1.0
MORF	HN	256	264	ESg		910	56.01	0.07							1.0
MORF	HE	256	264	AML		911	0.76			88	0.3				

November 19 2011 Hour: 19:4045.9 Lat: 36.57N Lon: 7.64W Depth: 23F Agency: IGL Regional
Magnitudes: 2.4ML 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	122	313	EP		1941	4.19	-0.14							1.0
MORF	HN	122	313	ES		1941	17.76	-0.01							1.0
MORF	HN	122	313	AML		1941	18.20			95	0.2				
MESJ	HZ	150	340	EP		1941	7.98	0.15							1.0
MESJ	HN	150	340	ES		1941	23.83	0.01							1.0
MESJ	HN	150	340	AML		1941	24.27			29	0.4				

November 20 2011 Hour: 19:160.2 Lat: 36.51N Lon: 9.84W 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	138	50	EP		1916	20.08	-0.02							1.0
MORF	HE	138	50	ES		1916	34.65	0.01							1.0
MORF	HN	138	50	AML		1916	35.45			96	0.1				
MESJ	HZ	206	44	EP		1916	28.47	-0.06							1.0
MESJ	HN	206	44	ES		1916	49.16	-0.06							1.0
MESJ	HE	206	44	AML		1916	51.80			26	0.2				
ALMR	SZ	314	20	EP		1916	41.98	0.06							0.9
ALMR	SE	314	20	ES		1917	12.47	0.08							0.9

ALMR SE 314 20 AML 1917 14.21 25 0.6

November 21 2011 Hour: 3:15 42.8 Lat: 24.95N Lon: 95.23E Depth:121F Agency: IGL Distant
Magnitudes: 5.7MB IGL Rms: 0.1 secs
MYANMAR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9444	309	EP		328	4.40	0.05							1.0
MESJ	BZ	9444	309	AMb		328	7.12			248	1.9				
MESJ	BE	9444	309	ES		338	16.28	0.08							1.0
GGNV	BZ	9471	310	EP		328	5.45	-0.05							1.0
GGNV	BZ	9471	310	AMb		328	8.72			198	1.5				
MORF	BZ	9506	309	EP		328	7.07	-0.08							1.0
MORF	BZ	9506	309	AMb		328	10.76			223	1.4				

November 21 2011 Hour: 19:18 35.7 Lat: 37.33N Lon: 8.49W Depth: 3F 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	15	260	EP		1918	37.94	-0.15							1.0
MORF	HE	15	260	ES		1918	39.92	0.07							1.0
MORF	HN	15	260	AML		1918	40.57			142	0.4				
MESJ	HZ	61	23	EP		1918	45.68	0.08							1.0

November 22 2011 Hour: 7:35 22.9 Lat: 37.33N Lon: 8.52W Depth: 14F Agency: IGL Regional
Magnitudes: 0.4ML 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	HN	12	257	ES		735	28.13	-0.02							1.0
MORF	HN	12	257	AML		735	28.88			8	0.1				
MESJ	HZ	62	25	EP		735	33.19	0.09							1.0
MESJ	HN	62	25	ES		735	40.43	-0.07							1.0
MESJ	HN	62	25	AML		735	41.02			3	0.3				

November 22 2011 Hour: 10:35 11.6 Lat: 38.40N Lon: 9.80W Depth: 45F Agency: IGL Regional
Magnitudes: 3.3ML IGL Rms: 0.1 secs

SW CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	67	58	EP		1035	22.91	-0.09							1.0
GGNV	HN	67	58	ES		1035	31.18	-0.17							1.0
GGNV	HN	67	58	AML		1035	32.78			1830	0.5				
ALMR	SZ	135	51	EP		1035	31.30	0.04							1.0
ALMR	SN	135	51	ES		1035	45.78	0.14							1.0
ALMR	SN	135	51	AML		1035	46.53			362	0.2				
MESJ	HZ	152	114	EP		1035	33.46	0.17							1.0
MESJ	HN	152	114	ES		1035	49.29	0.14							1.0
MESJ	HN	152	114	AML		1035	51.62			226	0.4				
MORF	HZ	158	140	EP		1035	34.01	-0.07							1.0
MORF	HN	158	140	ES		1035	50.36	-0.15							1.0
MORF	HN	158	140	AML		1035	50.89			315	0.3				

November 22 2011 Hour: 18:48 18.4 Lat: 15.36S Lon: 65.12W Depth:557F Agency: IGL Distant
Magnitudes: 6.3MB IGL Rms: 0.1 secs

BENI, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8299	44	EP		1859	1.13	0.07							1.0
MORF	BZ	8299	44	AMb		1859	2.69			2476	0.9				
MORF	BN	8299	44	ES		19 7	52.54	0.09							1.0
GGNV	BZ	8350	42	EP		1859	3.62	0.10							1.0
GGNV	BZ	8350	42	AMb		1859	4.68			1373	0.7				
GGNV	BE	8350	42	ES		19 7	57.15	-0.07							1.0
MESJ	BZ	8364	43	EP		1859	4.23	0.00							1.0
MESJ	BZ	8364	43	AMb		1859	6.92			1972	1.9				
MESJ	BN	8364	43	ES		19 7	58.51	-0.09							1.0
ALMR	SZ	8419	42	EP		1859	6.86	-0.09							1.0

ALMR SZ 8419 42 AMb 1859 7.45 4974 0.9

November 22 2011 Hour: 22:37 8.2 Lat: 36.22N Lon: 10.58W Depth: 20F Agency: IGL Regional 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	54	EP		2237	37.94	0.07							1.0
MESJ	HZ	276	49	EP		2237	45.98	-0.07							1.0

November 23 2011 Hour: 11:11 54.2 Lat: 36.52N Lon: 10.98W Depth: 31F Agency: IGL Regional Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	225	67	EP		1112	24.92	-0.03							1.0
MESJ	HZ	286	58	EP		1112	32.41	0.00							1.0
MESJ	HN	286	58	ES		1113	0.34	0.03							1.0
MESJ	HN	286	58	AML		1113	1.96			2	0.7				

November 23 2011 Hour: 12:17 50.1 Lat: 34.19N Lon: 25.08E Depth: 10F Agency: IGL Distant Rms: 0.2 secs

CRETE, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3013	287	EP		1223	33.30	0.24							1.0
MESJ	BZ	3013	287	AMb		1223	36.31			76	1.5				
MORF	BZ	3055	286	EP		1223	36.21	-0.24							1.0
MORF	BZ	3055	286	AMb		1223	45.20			101	2.7				

November 24 2011 Hour: 10:25 35.1 Lat: 41.88N Lon: 142.71E Depth: 42F Agency: IGL Distant Rms: 0.2 secs

HOKKAIDO, JAPAN REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ10648	338	EPP			1042	48.98	0.30							1.0
GGNV	BE10648	338	AMS			1120	20.05			11190	22.1				
MESJ	BZ10709	337	EP			1038	58.82	-0.19							1.0
MESJ	BZ10709	337	EPP			1042	52.86	-0.13							1.0
MESJ	BE10709	337	ES			1049	31.92	-0.16							1.0
MESJ	BZ10709	337	AMS			1127	45.86			5941	20.5				
MORF	BZ10778	337	EP			1039	2.04	0.18							1.0
MORF	BZ10778	337	EPP			1042	57.83	0.00							1.0
MORF	BE10778	337	AMS			1122	15.84			8914	22.7				

November 24 2011 Hour: 20:9 50.2 Lat: 36.16N Lon: 10.81W Depth: 31F Agency: IGL Regional 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	231	56	EP		2010	21.81	0.17							1.0
MORF	HN	231	56	ES		2010	44.44	-0.18							1.0
MORF	HN	231	56	AML		2010	45.86			8	0.2				
MESJ	HZ	296	50	EP		2010	29.87	0.14							1.0
MESJ	HE	296	50	ES		2010	58.49	-0.13							1.0
MESJ	HE	296	50	AML		2010	59.94			3	0.2				

November 25 2011 Hour: 4:39 51.0 Lat: 37.29N Lon: 7.81W Depth: 5F Agency: IGL Regional Rms: 0.0 secs

NW S. BRAS DE ALPORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	71	329	EP		440	2.47	-0.02							1.0
MORF	HZ	75	272	EP		440	3.03								
MESJ	HE			ES		440	10.65								
MESJ	HE			AML		440	11.27			10	0.1				
MORF	HE	75	272	ES		440	11.68								
MORF	HE	75	272	AML		440	12.59			11	0.3				

November 25 2011 Hour: 22:10 27.2 Lat: 38.27N Lon: 8.94W Depth: 4F Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.0 secs

NW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	79	127	EP		2210	40.05	0.02							1.0
MESJ	HN	79	127	ES		2210	49.36	-0.02							1.0
MESJ	HE	79	127	AML		2210	50.73			1	0.2				

November 25 2011 Hour: 22:36 29.8 Lat: 36.42N Lon: 7.79W Depth: 30F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	125	322	EP		2236	48.06	-0.08							1.0
MESJ	HN	162	346	ES		2237	9.35	-0.15							1.0
MESJ	HN	162	346	AML		2237	10.76			27	0.4				
MESJ	HZ	162	346	EP		2236	52.98	0.23							1.0

November 26 2011 Hour: 1:10 59.2 Lat: 35.86N Lon: 7.65W Depth: 31F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	184	331	ES		111	43.30	-0.19							1.0
MORF	HN	184	331	AML		111	44.11			3	0.2				
MESJ	HZ	225	347	EP		111	30.26	0.32							1.0
MESJ	HN	225	347	ES		111	52.28	-0.12							1.0
MESJ	HN	225	347	AML		111	54.24			4	0.1				

November 26 2011 Hour: 8:12 0.2 Lat: 42.27N Lon: 8.48W Depth: 20F 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
ALMR	SZ	346	181	EP		812	46.77	0.06							1.0
MESJ	HZ	493	177	EP		813	4.64	0.00							0.9
MORF	HZ	552	182	EP		813	11.74	-0.07							0.9

November 26 2011 Hour: 22:44 23.0 Lat: 37.34N Lon: 8.49W Depth: 7F Agency: IGL Regional
Magnitudes: 2.4ML 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	15	255	EP		2244	25.45	-0.21							1.0
MORF	HE	15	255	ES		2244	27.64	0.03							1.0
MORF	HE	15	255	AML		2244	28.17			3337	0.2				
MESJ	HZ	60	23	EP		2244	32.81	0.02							1.0
MESJ	HN	60	23	ES		2244	40.11	0.16							1.0
MESJ	HN	60	23	AML		2244	41.19			79	0.2				

November 27 2011 Hour: 13:53 14.9 Lat: 36.77N Lon: 7.98W Depth: 25F Agency: IGL Regional
Magnitudes: 2.6ML 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	84	315	EP		1353	28.34	-0.03							1.0
MORF	HE	84	315	ES		1353	38.04	-0.18							1.0
MORF	HE	84	315	AML		1353	39.27			419	0.2				
MESJ	HZ	121	350	EP		1353	33.09	0.07							1.0
MESJ	HE	121	350	ES		1353	46.38	0.13							1.0
MESJ	HE	121	350	AML		1353	46.65			39	0.1				
ALMR	SZ	270	349	EP		1353	51.58	0.03							0.9
ALMR	SE	270	349	ES		1354	18.29	-0.02							0.9
ALMR	SN	270	349	AML		1354	20.13			32	0.2				

November 27 2011 Hour: 16:16 52.8 Lat: 36.19N Lon: 8.18W Depth: 27F 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	131	341	EP		1617	12.04	-0.07							1.0
MESJ	HZ	183	359	EP		1617	18.66	0.08							1.0
MESJ	HN	183	359	ES		1617	37.37	-0.01							1.0
MESJ	HN	183	359	AML		1617	38.00			2	0.4				

November 27 2011 Hour: 20:25 17.3 Lat: 36.77N Lon: 5.30W Depth: 14F 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	284	295	EP		2025	56.75	0.12							1.0
MORF	HZ	304	282	EP		2025	58.94	-0.12							1.0

November 28 2011 Hour: 5:25 13.3 Lat: 37.48N Lon: 8.46W Depth: 11F Agency: IGL Regional
Rms: 0.1 secs

SE ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	26	221	EP		525	17.90	0.04							1.0
MESJ	HZ	45	28	EP		525	20.87	0.04							1.0
MESJ	HE	45	28	ES		525	26.24	-0.08							1.0

November 28 2011 Hour: 9:13 11.3 Lat: 7.01S Lon: 117.00E Depth: 613F Agency: IGL Distant
Rms: 0.0 secs

BALI SEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13560	310	EP			930	56.63	0.02							1.0
MORF	BZ13614	310	EP			930	57.58	-0.02							1.0

November 28 2011 Hour: 10:35 56.7 Lat: 19.10N Lon: 66.75W Depth: 15F Agency: IGL Distant
Magnitudes: 4.8MB IGL Rms: 0.0 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5954	57	EP		1045	16.61	-0.02							1.0
MORF	BZ	5954	57	AMb		1045	21.79			37	2.2				
MESJ	BZ	5995	57	EP		1045	19.32	0.02							1.0
MESJ	BZ	5995	57	AMb		1045	23.69			21	1.6				

November 28 2011 Hour: 12:26 47.2 Lat: 5.53S Lon: 153.68E Depth: 50F Agency: IGL Distant
Magnitudes: 6.1MS IGL Rms: 0.9 secs

NEW IRELAND REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15972	337	EP			1246	15.15	-0.48							1.0
GGNV	BZ15972	337	AMS			1353	58.02			3360	24.0				
MESJ	BZ16014	335	EP			1246	15.55	-0.77							1.0
MESJ	BZ16014	335	AMS			1354	33.63			3257	20.6				
MORF	BZ16085	335	EP			1246	17.86	1.29							1.0
MORF	BZ16085	335	AMS			1355	7.20			2414	15.6				

November 29 2011 Hour: 0:30 28.4 Lat: 1.66S Lon: 15.39W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5MS IGL Rms: 0.1 secs

NORTH OF ASCENSION ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4371	8	EP		037	57.59	0.13							1.0
MORF	BN	4371	8	ES		043	59.35	0.03							1.0
MORF	BZ	4371	8	AMS		053	46.43			5009	18.6				
MESJ	BZ	4437	9	EP		038	2.48	0.17							1.0
MESJ	BN	4437	9	ES		044	7.89	-0.16							1.0
MESJ	BZ	4437	9	AMS		054	32.26			6823	16.9				
GGNV	BZ	4518	8	EP		038	8.41	0.09							1.0
GGNV	BN	4518	8	ES		044	18.77	-0.12							1.0

GGNV BN 4518 8 AMS 057 55.20 8072 15.7
 ALMR SZ 4575 8 EP 038 12.38-0.15 1.0

November 29 2011 Hour: 6:19 21.4 Lat: 37.33N Lon: 8.48W Depth: 9F 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	15	260	EP		619	24.26	-0.10							1.0
MORF	HN	15	260	ES		619	26.60	0.10							1.0
MORF	HN	15	260	AML		619	27.15			25	0.2				

November 30 2011 Hour: 0:27 7.9 Lat: 15.47N Lon: 119.03E Depth: 15F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.2 secs

LUZON, PHILIPPINES Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11961	319	EPP			045	53.16	0.00							1.0
MESJ	BE11961	319	ESS			1 1	3.91	0.08							1.0
MESJ	BE11961	319	AMS			127	46.72			2743	21.0				
GGNV	BZ11968	320	EPP			045	53.90	0.33							1.0
GGNV	BE11968	320	AMS			127	42.56			4349	19.5				
MORF	BZ12027	318	EPP			045	57.37	-0.17							1.0
MORF	BE12027	318	ESS			1 1	11.70	-0.23							1.0
MORF	BE12027	318	AMS			128	14.72			2880	21.0				

November 30 2011 Hour: 3:23 1.1 Lat: 14.50S Lon: 73.46W Depth: 64F Agency: IGL Distant
Magnitudes: 4.9MB IGL Rms: 0.1 secs

CENTRAL PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ 8872	47	EP			335	2.36	0.10							1.0
MORF	BZ 8872	47	AMb			335	5.90			39	1.6				
MESJ	BZ 8933	47	EP			335	5.05	-0.10							1.0
MESJ	BZ 8933	47	AMb			335	7.50			15	0.9				

November 30 2011 Hour: 4:40 42.4 Lat: 37.23N Lon: 7.48W Depth: 1 Agency: IGL Regional
Magnitudes: 0.4ML IGL Rms: 0.1 secs

NW CASTRO MARIM, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	94	316	EP		440	57.51	-0.11							1.0
MESJ	HN	94	316	ES		441	8.82	0.11							1.0
MESJ	HN	94	316	AML		441	9.90			1	0.3				

November 30 2011 Hour: 12: 6 27.4 Lat: 35.30N Lon: 6.06W Depth: 20F Agency: IGL Regional
Magnitudes: 2.0ML 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	322	314	EP		12 7	10.69	-0.27							1.0
MORF	HN	322	314	ES		12 7	42.69	-0.08							1.0
MORF	HN	322	314	AML		12 7	42.93			6	0.3				
MESJ	HZ	342	326	EP		12 7	13.74	0.36							1.0
MESJ	HN	342	326	ES		12 7	46.96	0.01							1.0
MESJ	HN	342	326	AML		12 7	48.49			5	0.2				

November 30 2011 Hour: 18:27 44.7 Lat: 37.01N Lon: 8.88W Depth: 20F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	39	32	EP		1827	51.44	-0.13							1.0
MORF	HN	39	32	ES		1827	56.66	0.06							1.0
MORF	HN	39	32	AML		1827	57.47			9	0.1				
MESJ	HZ	109	32	EP		1828	1.82	0.06							1.0
MESJ	HE	109	32	ES		1828	14.24	0.01							1.0
MESJ	HN	109	32	AML		1828	15.53			1	0.2				

November 30 2011 Hour: 21:35 58.1 Lat: 35.38N Lon: 4.12W Depth: 1 Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	457	308	EP		2137	0.18	0.00							1.0

December 1 2011 Hour: 2:53 40.7 Lat: 37.31N Lon: 8.60W Depth: 12F Agency: IGL Regional
Magnitudes: 0.8ML 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	5	265	EP		253	42.86	0.02							1.0
MORF	HN	5	265	ES		253	44.39	-0.02							1.0
MORF	HN	5	265	AML		253	44.94			47	0.2				

December 1 2011 Hour: 3:29 18.5 Lat: 38.78N Lon: 7.96W Depth: 1F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.2 secs

NE ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	107	192	EP		329	35.94	0.16							1.0
MESJ	HE	107	192	ES		329	48.20	-0.16							1.0
MESJ	HN	107	192	AML		329	48.97			1	0.1				

December 1 2011 Hour: 4:31 0.2 Lat: 37.33N Lon: 9.10W Depth: 30F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 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	94	EP		431	7.97	0.10							1.0
MORF	HE	40	94	ES		431	13.38	-0.10							1.0
MORF	HN	40	94	AML		431	14.44			10	0.2				

December 1 2011 Hour: 7:30 15.3 Lat: 41.97N Lon: 14.16W Depth: 10F Agency: IGL Regional
Rms: 0.3 secs

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	684	130	EP		731	44.17	0.29							1.0
MORF	HZ	701	136	EP		731	45.65	-0.30							1.0

December 1 2011 Hour: 15: 7 17.4 Lat: 36.84N Lon: 15.07W Depth: 0 Agency: IGL Regional
Magnitudes: 2.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	573	83	EP		15 8	33.63	-0.07							1.0
MORF	HN	573	83	ES		15 9	29.43	0.07							1.0
MORF	HN	573	83	AML		15 9	33.74			17	0.3				

December 1 2011 Hour: 21:35 9.8 Lat: 32.20N Lon: 40.34W Depth: 10F Agency: IGL Distant
Magnitudes: 5.3MB IGL Rms: 0.1 secs

NORTHERN MID-ATLANTIC RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	2943	70	EP		2140	47.23	0.13							1.0
MORF	BZ	2943	70	AMb		2140	56.12			60	1.6				
MORF	BN	2943	70	ES		2145	21.96	-0.05							1.0
MESJ	BZ	2983	69	EP		2140	50.34	0.04							1.0
MESJ	BZ	2983	69	AMb		2140	56.64			70	0.9				
MESJ	BE	2983	69	ES		2145	27.48	-0.13							1.0

December 2 2011 Hour: 6:51 3.8 Lat: 37.34N Lon: 8.52W Depth: 8F Agency: IGL Regional
Magnitudes: 1.1ML 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	12	252	EP		651	6.18	-0.02							1.0
MORF	HE	12	252	ES		651	7.97	0.02							1.0
MORF	HE	12	252	AML		651	8.57			76	0.3				

December 2 2011 Hour: 13:41 33.2 Lat: 37.32N Lon: 8.57W Depth: 12F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	258	EP		1341	35.58	0.00							1.0
MORF	HE	7	258	ES		1341	37.30	0.00							1.0
MORF	HE	7	258	AML		1341	37.59			72	0.1				

December 3 2011 Hour: 9:27 12.0 Lat: 17.94N Lon: 59.83W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5MB IGL Rms: 0.1 secs

EAST OF BARBUDA, LEEWARD ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5414	56	EP		935	56.19	0.00							1.0
MORF	BZ	5414	56	AMb		936	9.71			133	1.0				
MORF	BE	5414	56	ES		942	59.13	-0.18							1.0
MESJ	BZ	5461	55	EP		935	59.56	0.19							1.0
MESJ	BZ	5461	55	AMb		936	1.96			76	1.6				
MESJ	BE	5461	55	ES		943	5.13	-0.01							1.0

December 3 2011 Hour: 17:58 5.6 Lat: 38.60N Lon: 9.20W Depth: 12F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SW SEIXAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	120	134	EP		1758	24.41	-0.10							1.0
MESJ	HN	120	134	ES		1758	38.41	0.10							1.0
MESJ	HE	120	134	AML		1758	40.03			3	0.1				

December 4 2011 Hour: 5:33 55.2 Lat: 37.27N Lon: 8.43W Depth: 19F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.2 secs

NE SILVES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	20	282	EP		533	59.30	-0.33							1.0
MORF	HN	20	282	ES		534	2.85	0.00							1.0
MORF	HN	20	282	AML		534	3.36			11	0.2				
MESJ	HZ	66	16	EP		534	6.27	0.29							1.0
MESJ	HE	66	16	ES		534	13.89	0.05							1.0
MESJ	HE	66	16	AML		534	15.44			3	0.1				

December 4 2011 Hour: 12:37 17.5 Lat: 36.61N 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
MESJ	HN	143	343	ES		1237	53.54	0.06							1.0
MESJ	HN	143	343	AML		1237	54.52			4	0.1				
MESJ	HZ	143	343	EP		1237	38.23	-0.06							1.0

December 4 2011 Hour: 15:35 37.8 Lat: 25.99N Lon: 111.81W Depth: 10F Agency: IGL Distant
Magnitudes: 5.2MB IGL Rms: 0.1 secs

BAJA CALIFORNIA SUR, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9377	51	EP		1548	10.07	-0.08							1.0
MORF	BZ	9377	51	AMb		1548	14.08			62	2.6				
MESJ	BZ	9382	51	EP		1548	10.41	0.08							1.0
MESJ	BZ	9382	51	AMb		1548	12.87			50	1.6				

December 4 2011 Hour: 15:55 29.5 Lat: 56.25N Lon: 163.20E Depth: 26F Agency: IGL Distant
Magnitudes: 5.2MB IGL Rms: 0.0 secs

NEAR EAST COAST OF KAMCHATKA, RUSSIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9551	353	EP		16	8	6.85	-0.01						1.0
MESJ	BZ	9551	353	AMb		16	8	10.81		39	1.8				
MORF	BZ	9613	353	EP		16	8	9.68	0.01						1.0
MORF	BZ	9613	353	AMb		16	8	20.47		58	1.6				

December 4 2011 Hour: 18:32 31.6 Lat: 37.43N Lon: 9.11W Depth: 29F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.1 secs

NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	109	EP		1832	39.68	0.15							1.0
MORF	HN	43	109	ES		1832	45.33	-0.03							1.0
MORF	HN	43	109	AML		1832	45.83			21	0.2				
MESJ	HZ	91	60	EP		1832	45.67	-0.04							1.0
MESJ	HE	91	60	ES		1832	55.95	-0.09							1.0
MESJ	HE	91	60	AML		1832	56.35			4	0.1				

December 5 2011 Hour: 0:19 47.4 Lat: 36.94N Lon: 8.85W Depth: 28F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	44	23	EP		019	55.50	0.00							1.0
MORF	HN	44	23	ES		020	1.49	0.09							1.0
MORF	HN	44	23	AML		020	2.22			9	0.1				
MESJ	HZ	114	29	EP		020	4.47	-0.08							1.0
MESJ	HN	114	29	ES		020	17.06	-0.01							1.0
MESJ	HN	114	29	AML		020	18.48			2	0.6				

December 5 2011 Hour: 8:17 28.9 Lat: 38.83N Lon: 26.31E Depth: 15F Agency: IGL Distant
Magnitudes: 5.2MB IGL Rms: 0.0 secs

NEAR THE COAST OF WESTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3003	279	EP		823	10.35	0.01							1.0
MESJ	BZ	3003	279	AMB		823	14.21			69	1.8				

December 5 2011 Hour: 9:39 0.2 Lat: 38.26N Lon: 9.38W Depth: 0 Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	112	114	EP		939	18.17	-0.06							1.0
MESJ	HN	112	114	ES		939	31.37	-0.05							1.0
MESJ	HE	112	114	AML		939	34.74			9	0.5				
MORF	HZ	124	149	EP		939	20.25	0.11							1.0
MORF	HN	124	149	ES		939	34.71	0.00							1.0
MORF	HN	124	149	AML		939	35.46			7	0.2				

December 5 2011 Hour: 12:41 0.5 Lat: 36.75N Lon: 7.45W Depth: 30F 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	123	300	EP		1241	18.76	0.06							1.0
MORF	HE	123	300	ES		1241	31.97	0.00							1.0
MORF	HN	123	300	AML		1241	32.90			13	0.1				
MESJ	HZ	139	331	EP		1241	20.61	0.02							1.0
MESJ	HN	139	331	ES		1241	35.14	-0.09							1.0
MESJ	HN	139	331	AML		1241	35.64			5	0.1				

December 6 2011 Hour: 3:28 20.6 Lat: 38.52N Lon: 7.66W Depth: 18F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.2 secs

NW REGUENGOS DE MONSARAZ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	90	213	EP		328	34.99	0.00							1.0
MESJ	HN	90	213	ES		328	45.49	0.01							1.0
MESJ	HN	90	213	AML		328	46.55			29	0.1				
ALMR	SZ	106	312	EP		328	37.34	-0.09							1.0
ALMR	SN	106	312	ES		328	50.14	0.44							1.0
ALMR	SN	106	312	AML		328	51.15			30	0.2				
MORF	HZ	160	213	EP		328	43.90	-0.39							1.0
MORF	HN	160	213	ES		329	1.56	0.00							1.0

MORF HN 160 213 AML 329 5.93 20 0.2

December 6 2011 Hour: 19:12 12.2 Lat: 36.90N Lon: 13.03W Depth: 50F Agency: IGL Regional
Magnitudes: 3.8ML 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	392	82	EP		1913	2.82	0.01							1.0
MORF	HN	392	82	ES		1913	39.68	-0.09							1.0
MORF	HN	392	82	AML		1913	41.74		261	0.2					
GGNV	HZ	397	58	EP		1913	3.27	-0.09							1.0
GGNV	HN	397	58	ES		1913	40.92	0.21							1.0
GGNV	HE	397	58	AML		1913	42.02		229	0.2					
MESJ	HZ	439	75	EP		1913	8.47	0.02							1.0
MESJ	HN	439	75	ES		1913	48.86	-0.66							1.0
ALMR	SZ	464	56	EP		1913	11.79	0.24							1.0
ALMR	SN	464	56	ES		1913	55.25	0.37							1.0
ALMR	SN	464	56	AML		1913	57.14		158	0.2					

December 7 2011 Hour: 11:49 18.6 Lat: 35.75N Lon: 8.88W Depth: 28F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	174	7	EP		1149	43.33	0.12							1.0
MORF	HE	174	7	ES		1150	0.91	-0.24							1.0
MORF	HN	174	7	AML		1150	1.96		3	0.2					
MESJ	HZ	239	14	EP		1149	51.42	0.13							1.0

December 7 2011 Hour: 12:43 22.5 Lat: 39.17N Lon: 8.98W Depth: 4F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.3 secs

SE CADAVAL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	SZ	35	93	EP		1243	27.77	-0.43							1.0
ALMR	SN	35	93	ES		1243	32.59	0.24							1.0
ALMR	SN	35	93	AML		1243	33.74		385	0.4					
GGNV	HE	52	196	ES		1243	37.30	0.10							1.0
GGNV	HE	52	196	AML		1243	38.99		410	0.3					
MESJ	HZ	162	156	EP		1243	47.89	0.21							0.9
MESJ	HN	162	156	ES		1244	5.83	-0.22							0.9
MESJ	HN	162	156	AML		1244	9.96		77	0.3					
MORF	HZ	209	172	EP		1243	53.38	-0.17							0.9
MORF	HN	209	172	ES		1244	16.50	0.30							0.9
MORF	HN	209	172	AML		1244	17.27		28	0.3					

December 7 2011 Hour: 12:50 35.1 Lat: 37.36N Lon: 8.53W Depth: 10F 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	12	241	EP		1250	37.74	0.02							1.0
MORF	HE	12	241	ES		1250	39.61	-0.02							1.0
MORF	HE	12	241	AML		1250	40.05		56	0.1					

December 7 2011 Hour: 13:38 27.9 Lat: 1.43S Lon: 126.52E Depth: 30F Agency: IGL Distant
Magnitudes: 5.4MS IGL Rms: 0.1 secs

KEPULAUAN SULA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13905	317	EP			1357	24.80	0.15							1.0
MESJ	BZ13905	317	EPP			1359	13.26	0.09							1.0
MESJ	BZ13905	317	AMS			15	2	23.97	801	18.4					
GGNV	BZ13925	318	EPP			1359	14.28	-0.08							1.0
GGNV	BN13925	318	AMS			15	2	19.57	831	22.1					
MORF	BZ13967	316	EP			1357	25.83	0.05							1.0
MORF	BZ13967	316	EPP			1359	16.78	-0.21							1.0
MORF	BE13967	316	AMS			1456	1.58		694	20.4					

December 7 2011 Hour: 22:23 9.0 Lat: 27.88S Lon: 70.93W Depth: 16F Agency: IGL Distant
Magnitudes: 6.1MS IGL Rms: 0.1 secs

ATACAMA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9708	45	EP		2235	54.78	-0.14							1.0
MORF	BZ	9708	45	AMS		2314	13.19			7380	20.1				
GGNV	BZ	9771	44	EP		2235	57.69	0.17							1.0
GGNV	BN	9771	44	ES		2246	24.37	-0.04							1.0
GGNV	BZ	9771	44	AMS		2319	1.75			5848	16.9				
MESJ	BZ	9775	45	EP		2235	57.72	0.01							1.0
MESJ	BZ	9775	45	AMS		2313	59.24			6818	20.3				

December 8 2011 Hour: 0:7 59.3 Lat: 37.44N Lon: 9.14W Depth: 13F Agency: IGL Regional
Magnitudes: 1.0ML 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	46	109	EP		0 8	6.94	-0.01							1.0
MORF	HN	46	109	ES		0 8	12.51	-0.02							1.0
MORF	HN	46	109	AML		0 8	13.47			19	0.1				
MESJ	HZ	93	61	EP		0 8	14.02	0.01							1.0
MESJ	HN	93	61	ES		0 8	24.75	0.02							1.0
MESJ	HE	93	61	AML		0 8	25.80			2	0.7				

December 8 2011 Hour: 1:52 30.7 Lat: 37.29N Lon: 8.56W Depth: 12F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	283	EP		152	33.02	-0.08							1.0
MORF	HE	8	283	ES		152	34.95	0.08							1.0
MORF	HE	8	283	AML		152	35.78			9	0.2				

December 8 2011 Hour: 4:3 41.4 Lat: 38.08N Lon: 8.58W Depth: 0 Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

S GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	41	130	EP		4 3	47.91	-0.21							1.0
MESJ	HN	41	130	ES		4 3	52.90	-0.09							1.0
MESJ	HN	41	130	AML		4 3	53.68			270	0.2				
MORF	HZ	86	184	EP		4 3	55.57	0.24							1.0
MORF	HN	86	184	ES		4 4	5.39	-0.07							1.0
MORF	HN	86	184	AML		4 4	6.27			96	0.1				
GGNV	HZ	86	325	EP		4 3	55.48	0.11							1.0
GGNV	HN	86	325	ES		4 4	5.52	-0.03							1.0
ALMR	SZ	119	0	EP		4 4	0.85	0.16							1.0
ALMR	SE	119	0	ES		4 4	14.64	-0.10							1.0
ALMR	SE	119	0	AML		4 4	15.27			66	0.2				

December 8 2011 Hour: 20:10 21.7 Lat: 35.96N Lon: 10.26W 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	207	43	EP		2010	50.24	0.00							1.0
MORF	HE	207	43	ES		2011	11.02	-0.06							1.0
MORF	HE	207	43	AML		2011	12.26			28	0.2				
MESJ	HZ	277	40	EP		2010	58.77	-0.04							1.0
MESJ	HE	277	40	ES		2011	26.02	0.11							1.0
MESJ	HN	277	40	AML		2011	27.36			9	0.1				

December 9 2011 Hour: 3:54 43.6 Lat: 36.80N Lon: 8.31W Depth: 13F 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	64	332	EP		354	54.09	0.15							1.0
MORF	HN	64	332	ES		355	1.45	-0.06							1.0
MORF	HE	64	332	AML		355	3.28		78	0.2					
MESJ	HZ	116	4	EP		355	1.67	-0.09							1.0
MESJ	HN	116	4	ES		355	15.04	-0.01							1.0
MESJ	HN	116	4	AML		355	17.03		23	0.2					

December 9 2011 Hour: 6:24 18.6 Lat: 36.55N Lon: 9.81W Depth: 17F 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	133	51	EP		624	39.06	0.09							1.0
MORF	HN	133	51	ES		624	53.72	-0.11							1.0
MORF	HN	133	51	AML		624	54.53		2	0.4					
MESJ	HZ	201	44	EP		624	47.33	-0.05							1.0
MESJ	HN	201	44	ES		625	8.45	0.07							1.0
MESJ	HN	201	44	AML		625	10.19		1.00	0.2					

December 9 2011 Hour: 8:39 35.8 Lat: 36.45N Lon: 11.08W Depth: 27F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	237	66	EP		840	8.18	-0.03							1.0
MORF	HN	237	66	ES		840	31.89	0.01							1.0
MORF	HN	237	66	AML		840	33.29		20	0.4					
MESJ	HZ	297	58	EP		840	15.65	-0.07							1.0
MESJ	HN	297	58	ES		840	44.96	0.09							1.0
MESJ	HE	297	58	AML		840	45.91		4	0.2					

December 9 2011 Hour: 19:42 55.7 Lat: 47.00N Lon: 144.63E Depth: 378F Agency: IGL Distant
Magnitudes: 5.4MB IGL Rms: 0.1 secs

SEA OF OKHOTSK Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	SZ10106	339	EP			1955	16.98	-0.14							1.0
ALMR	SZ10106	339	AMb			1955	18.69		379	1.2					
MESJ	BZ10235	339	EP			1955	22.52	0.01							1.0
MESJ	BZ10235	339	AMb			1955	24.18		35	0.8					
MORF	BZ10303	339	EP			1955	25.56	0.18							1.0
MORF	BZ10303	339	AMb			1955	27.57		27	0.9					
MORF	BN10303	339	ES			20	5	21.81	-0.05						1.0

December 10 2011 Hour: 8:42 51.8 Lat: 36.89N Lon: 8.98W Depth: 14F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	55	32	EP		843	0.65	-0.10							1.0
MORF	HN	55	32	ES		843	7.28	-0.04							1.0
MORF	HN	55	32	AML		843	8.15		15	0.3					
MESJ	HZ	125	32	EP		843	11.51	0.17							1.0
MESJ	HN	125	32	ES		843	25.62	-0.02							1.0
MESJ	HN	125	32	AML		843	26.93		7	0.2					

December 10 2011 Hour: 22:15 32.0 Lat: 38.40N Lon: 6.91W Depth: 11F Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	131	242	EP		2215	52.61	0.03							1.0
MESJ	HN	131	242	ES		2216	7.58	-0.03							1.0
MESJ	HE	131	242	AML		2216	8.76		2	0.2					

December 10 2011 Hour: 22:29 24.3 Lat: 38.40N Lon: 6.92W Depth: 11F Agency: IGL Regional
Magnitudes: 0.9ML 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	130	242	EP		2229	44.69	0.02							1.0
MESJ	HN	130	242	ES		2229	59.52	-0.02							1.0
MESJ	HN	130	242	AML		2230	1.60				2	0.3			

December 11 2011 Hour: 1:47 25.8 Lat: 18.04N Lon: 99.80W Depth: 65F Agency: IGL Distant
Magnitudes: 5.7MS 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	8840	53	EP		159	25.27	0.01							1.0
GGNV	BE	8840	53	ES		2	9	21.85	-0.02						1.0
GGNV	BZ	8840	53	AMS		230	37.28			5048	22.5				
ALMR	SZ	8876	52	EP		159	27.04	0.02							1.0
MORF	BZ	8923	54	EP		159	29.36	-0.01							1.0
MORF	BN	8923	54	ES		2	9	29.71	-0.12						1.0
MORF	BZ	8923	54	AMS		233	46.05			3009	24.0				
MESJ	BZ	8944	53	EP		159	30.32	-0.01							1.0
MESJ	BN	8944	53	ES		2	9	31.86	0.13						1.0
MESJ	BZ	8944	53	AMS		236	51.75			4675	18.7				

December 11 2011 Hour: 3:14 8.5 Lat: 36.97N Lon: 13.17W Depth: 13F Agency: IGL Regional
Magnitudes: 2.0ML 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	403	83	EP		315	3.00	0.28							1.0
MORF	HN	403	83	ES		315	42.27	-0.07							1.0
MORF	HN	403	83	AML		315	43.48				8	0.6			
MESJ	HZ	449	76	EP		315	8.01	-0.23							1.0
MESJ	HE	449	76	ES		315	51.89	0.01							1.0
MESJ	HE	449	76	AML		315	53.05				2	0.4			

December 11 2011 Hour: 5:30 57.9 Lat: 24.08S Lon: 178.54E Depth: 560F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.0 secs

SOUTH OF FIJI ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18371	21	EP			549	57.69	0.02							1.0
MORF	BZ18408	23	EP			549	57.97	-0.02							1.0

December 11 2011 Hour: 9:54 55.2 Lat: 55.98S Lon: 28.24W Depth: 115F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.2 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10485	16	EP			10	8	1.10	0.18						1.0
MORF	BN10485	16	ES			1018	25.71	-0.30							1.0
MORF	BZ10485	16	AMS			1045	26.39			1933	18.3				
MESJ	BZ10550	16	EP			10	8	3.65	0.12						1.0
MESJ	BN10550	16	ES			1018	28.83	-0.25							1.0
MESJ	BN10550	16	AMS			1045	13.23			1763	14.9				
GGNV	BZ10631	15	EP			10	8	6.98	0.24						1.0
GGNV	BE10631	15	AMS			1046	30.04			2421	17.2				

December 11 2011 Hour: 11:56 46.3 Lat: 36.62N Lon: 4.53W Depth: 20F Agency: IGL Regional
Magnitudes: 2.2ML 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	354	294	EP		1157	34.24	0.37							1.0
MESJ	HN	354	294	ES		1158	8.36	-0.22							1.0
MESJ	HN	354	294	AML		1158	10.50				6	0.3			
MORF	HZ	375	283	EP		1157	36.03	-0.40							1.0
MORF	HE	375	283	ES		1158	13.24	0.23							1.0

MORF HN 375 283 AML 1158 14.50 9 0.1

**December 11 2011 Hour: 23:44 35.8 Lat: 35.97N Lon: 9.88W Depth: 10F 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	185	36	EP		2345	3.16	-0.04							1.0
MORF	HE	185	36	ES		2345	23.14	-0.06							1.0
MORF	HE	185	36	AML		2345	23.70			3	0.2				
MESJ	HZ	255	35	EP		2345	11.99	0.10							1.0

**December 12 2011 Hour: 5:21 23.1 Lat: 36.58N Lon: 9.79W Depth: 14F 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	130	51	EP		521	43.34	0.05							1.0
MORF	HN	130	51	ES		521	57.95	-0.08							1.0
MORF	HE	130	51	AML		521	58.69			36	0.2				
MESJ	HZ	197	44	EP		521	51.78	0.10							1.0
MESJ	HE	197	44	ES		522	12.51	-0.03							1.0
MESJ	HE	197	44	AML		522	13.72			14	0.2				
ALMR	SZ	305	20	EP		522	5.00	-0.06							0.9
ALMR	SN	305	20	ES		522	35.70	0.02							0.9
ALMR	SN	305	20	AML		522	37.27			10	0.5				

**December 12 2011 Hour: 14:53 29.9 Lat: 36.87N Lon: 7.10W Depth: 3F 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	HN	146	290	ES		1454	10.24	-0.06							1.0
MESJ	HZ	146	318	EP		1453	53.33	0.06							1.0
MESJ	HN	146	318	ES		1454	10.32	0.01							1.0
MESJ	HN	146	318	AML		1454	11.28			4	0.1				
MORF	HN	146	290	AML		1454	11.70			7	0.4				

**December 12 2011 Hour: 16:49 17.7 Lat: 39.38N Lon: 8.92W Depth: 2F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs**

NE RIO MAIOR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	182	160	EP		1649	45.66	0.12							1.0
MESJ	HN	182	160	ES		1650	5.79	-0.05							1.0
MESJ	HN	182	160	AML		1650	7.21			3	0.7				
MORF	HZ	231	174	EP		1649	51.68	-0.08							1.0

**December 13 2011 Hour: 3:13 13.4 Lat: 36.52N Lon: 11.19W 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	243	68	EP		313	46.24	-0.06							1.0
MORF	HN	243	68	ES		314	10.19	-0.13							1.0
MORF	HN	243	68	AML		314	11.58			6	0.1				
MESJ	HZ	302	60	EP		313	53.65	0.03							1.0
MESJ	HE	302	60	ES		314	23.15	0.17							1.0
MESJ	HE	302	60	AML		314	24.26			4	0.5				

**December 13 2011 Hour: 7:28 11.9 Lat: 4.77N Lon: 82.57W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4MB IGL Rms: 0.1 secs**

SOUTH OF PANAMA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8275	53	EP		739	50.02	0.06							1.0
MORF	BZ	8275	53	AMb		739	56.36			116	2.0				
MESJ	BZ	8319	52	EP		739	52.14	-0.06							1.0
MESJ	BZ	8319	52	AMb		739	56.14			38	1.0				

December 13 2011 Hour: 7:52 11.0 Lat: 0.01N Lon: 123.03E Depth:156F Agency: IGL Distant
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
MESJ	BZ13521	316	EP			810	45.59	-0.01							1.0
MORF	BZ13583	315	EP			810	46.73	0.01							1.0

December 13 2011 Hour: 20:23 15.9 Lat: 36.39N Lon: 8.81W Depth: 18F 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	103	8	EP		2023	32.02	-0.18							1.0
MORF	HN	103	8	ES		2023	44.26	0.16							1.0
MORF	HN	103	8	AML		2023	45.84			107	0.3				
MESJ	HZ	169	18	EP		2023	40.66	0.02							1.0

December 13 2011 Hour: 22:16 6.4 Lat: 37.21N Lon: 9.08W 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	40	74	EP		2216	14.07	0.15							1.0
MORF	HE	40	74	ES		2216	19.41	-0.03							1.0
MORF	HE	40	74	AML		2216	20.17			52	0.1				
MESJ	HZ	103	47	EP		2216	22.00	-0.07							1.0
MESJ	HN	103	47	ES		2216	33.48	-0.05							1.0
MESJ	HN	103	47	AML		2216	33.94			6	0.2				

December 14 2011 Hour: 5:4 57.1 Lat: 7.54S Lon: 146.76E Depth:135F Agency: IGL Distant
Magnitudes: 6.7MS IGL
Rms: 0.2 secs

EASTERN NEW GUINEA REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15820	329	EP			524	12.33	-0.28							1.0
GGNV	BZ15820	329	EPP			527	20.61	0.27							1.0
GGNV	BE15820	329	ESS			545	44.41	-0.01							1.0
GGNV	BE15820	329	AMS			620	3.24			21588	35.8				
MESJ	BZ15837	327	EP			524	12.70	-0.22							1.0
MESJ	BZ15837	327	EPP			527	21.55	0.23							1.0
MESJ	BN15837	327	ESS			545	46.21	-0.07							1.0
MESJ	BN15837	327	AMS			619	16.42			15128	24.5				
MORF	BZ15906	327	EP			524	13.87	-0.19							1.0
MORF	BZ15906	327	EPP			527	25.37	0.25							1.0
MORF	BN15906	327	ESS			545	53.57	0.02							1.0
MORF	BN15906	327	AMS			619	44.27			17488	16.7				

December 14 2011 Hour: 8:48 20.6 Lat: 37.43N Lon: 9.26W Depth: 24F Agency: IGL Regional
Magnitudes: 0.9ML 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	56	104	EP		848	30.11	0.06							1.0
MORF	HN	56	104	ES		848	37.05	0.10							1.0
MORF	HN	56	104	AML		848	37.59			12	0.2				
MESJ	HZ	102	63	EP		848	36.33	-0.20							1.0
MESJ	HN	102	63	ES		848	48.18	0.02							1.0
MESJ	HN	102	63	AML		848	48.81			1	0.1				

December 14 2011 Hour: 14:36 52.0 Lat: 35.08N Lon: 5.84W Depth: 29F Agency: IGL Regional
Magnitudes: 3.1ML IGL
Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	354	315	EP		1437	38.63	-0.22							1.0
MORF	HN	354	315	ES		1438	13.14	0.10							1.0
MORF	HN	354	315	AML		1438	14.45			60	0.1				
MESJ	HZ	373	326	EP		1437	41.53	0.25							1.0

MESJ HN 373 326 ES 1438 17.12-0.12 1.0
 MESJ HE 373 326 AML 1438 18.89 62 0.1

**December 15 2011 Hour: 10:10 8.5 Lat: 32.60S Lon: 179.10W Depth: 34F Agency: IGL Distant
 Rms: 0.1 secs**

SOUTH OF KERMADEC ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19003		56	EP		1030	12.56	-0.06							1.0
MESJ	BZ19006		52	EP		1030	12.65	0.06							1.0

**December 15 2011 Hour: 21: 2 28.5 Lat: 38.16N Lon: 8.36W Depth: 0 Agency: IGL Regional
 Magnitudes: 1.1ML IGL
 Rms: 0.1 secs**

E GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	38	161	EP		21 2	34.62	0.00							1.0
MESJ	HN	38	161	ES		21 2	38.95	-0.10							1.0
MESJ	HN	38	161	AML		21 2	39.47			13	0.1				
MORF	HN	98	195	ES		21 2	56.03	0.10							1.0
MORF	HN	98	195	AML		21 2	57.29			7	0.1				

**December 15 2011 Hour: 22:15 6.4 Lat: 36.55N Lon: 9.78W Depth: 13F Agency: IGL Regional
 Magnitudes: 1.9ML 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	131	50	EP		2215	26.88	0.00							1.0
MORF	HN	131	50	ES		2215	41.81	0.00							1.0
MORF	HN	131	50	AML		2215	42.80			21	0.4				

**December 16 2011 Hour: 18:25 43.0 Lat: 35.67N Lon: 9.68W Depth: 8F Agency: IGL Regional
 Magnitudes: 2.6ML IGL
 Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	204	27	EP		1826	13.06	0.05							1.0
MORF	HN	204	27	ES		1826	34.72	-0.17							1.0
MORF	HN	204	27	AML		1826	35.67			39	0.2				
MESJ	HZ	274	28	EP		1826	21.82	0.13							1.0
MESJ	HE	274	28	ES		1826	49.92	0.01							1.0
MESJ	HE	274	28	AML		1826	52.45			41	0.3				

**December 16 2011 Hour: 19:33 12.3 Lat: 36.90N Lon: 8.57W Depth: 18F 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	46	351	EP		1933	20.02	-0.09							1.0
MORF	HN	46	351	ES		1933	25.78	0.00							1.0
MORF	HN	46	351	AML		1933	26.70			8	0.1				
MESJ	HZ	109	16	EP		1933	29.61	0.10							1.0

**December 16 2011 Hour: 20: 4 23.2 Lat: 36.93N Lon: 8.56W Depth: 27F 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	43	349	EP		20 4	30.96	-0.07							1.0
MORF	HN	43	349	ES		20 4	36.76	0.03							1.0
MORF	HN	43	349	AML		20 4	37.46			49	0.2				
MESJ	HN	105	17	ES		20 4	51.15	0.08							1.0
MESJ	HN	105	17	AML		20 4	54.44			11	0.2				
MESJ	HZ	105	17	EP		20 4	39.29	-0.03							1.0

December 17 2011 Hour: 6:9 8.8 Lat: 18.17N Lon: 67.37W Depth: 17F Agency: IGL Distant
Magnitudes: 5.1MB IGL Rms: 0.0 secs

MONA PASSAGE, PUERTO RICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6065	57	EP		618	35.72	-0.02							1.0
MORF	BZ	6065	57	AMb		618	36.64			75	1.8				
MESJ	BZ	6107	56	EP		618	38.43	0.02							1.0
MESJ	BZ	6107	56	AMb		618	39.83			48	1.6				

December 17 2011 Hour: 6:6 11.8 Lat: 18.19N Lon: 67.37W Depth: 14F Agency: IGL Distant
Magnitudes: 4.9MB IGL Rms: 0.0 secs

MONA PASSAGE, PUERTO RICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6106	56	EP		615	41.83	0.01							1.0
MESJ	BZ	6106	56	AMb		615	47.08			32	1.5				

December 17 2011 Hour: 11:29 25.7 Lat: 36.54N Lon: 6.94W Depth: 31F 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	HE	175	300	ES		1130	7.93	-0.13							1.0
MORF	HE	175	300	AML		1130	8.92			16	0.2				
MESJ	HZ	184	322	EP		1129	51.38	0.09							1.0
MESJ	HE	184	322	ES		1130	9.99	0.04							1.0
MESJ	HE	184	322	AML		1130	11.13			4	0.0				

December 17 2011 Hour: 22:35 45.4 Lat: 37.30N Lon: 8.56W Depth: 10F Agency: IGL Regional
Magnitudes: 1.0ML 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	8	275	EP		2235	47.47	-0.03							1.0
MORF	HN	8	275	ES		2235	49.14	0.07							1.0
MORF	HN	8	275	AML		2235	49.38			121	0.2				
MESJ	HZ	67	27	EP		2235	56.54	0.25							1.0
MESJ	HN	67	27	ES		2236	3.97	-0.30							1.0
MESJ	HN	67	27	AML		2236	4.93			3	0.1				

December 17 2011 Hour: 22:37 15.9 Lat: 38.08N Lon: 8.58W Depth: 8F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

SW GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	41	130	EP		2237	22.65	-0.02							1.0
MESJ	HN	41	130	ES		2237	27.65	0.02							1.0
MESJ	HN	41	130	AML		2237	28.38			7	0.2				

December 17 2011 Hour: 23:22 35.1 Lat: 38.20N Lon: 9.60W Depth: 1 Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.2 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	128	108	EP		2322	55.62	-0.11							1.0
MESJ	HE	128	108	ES		2323	11.01	0.25							1.0
MESJ	HN	128	108	AML		2323	12.23			2	0.2				
MORF	HZ	130	140	EP		2322	55.86	-0.21							1.0
MORF	HN	130	140	ES		2323	11.42	0.07							1.0
MORF	HE	130	140	AML		2323	13.04			3	0.2				

December 19 2011 Hour: 1:23 23.3 Lat: 1.31S Lon: 119.59E Depth: 10F Agency: IGL Distant
Magnitudes: 1.1ML IGL Rms: 0.1 secs

SULAWESI, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	13352	314	EPP		143	37.85	-0.07							1.0
MORF	BZ	13411	313	EPP		143	41.69	0.07							1.0

December 19 2011 Hour: 14:55 29.3 Lat: 36.53N Lon: 9.68W Depth: 16F 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	126	46	EP		1455	48.83	0.00							1.0
MORF	HN	126	46	ES		1456	3.09	-0.01							1.0
MORF	HN	126	46	AML		1456	3.86			8	0.1				
MESJ	HZ	195	41	EP		1455	57.34	-0.02							1.0
MESJ	HE	195	41	ES		1456	17.87	0.02							1.0
MESJ	HE	195	41	AML		1456	19.51			3	0.1				

December 19 2011 Hour: 16:45 20.7 Lat: 38.79N Lon: 7.98W Depth: 7F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

NE ARRAIOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	SZ	66	308	EP		1645	31.15	-0.21							1.0
ALMR	SN	66	308	ES		1645	39.18	0.05							1.0
ALMR	SN	66	308	AML		1645	40.76			68	0.3				
MESJ	HZ	108	191	EP		1645	38.10	0.14							1.0
MESJ	HN	108	191	ES		1645	50.58	0.03							1.0
MESJ	HN	108	191	AML		1645	51.32			27	0.2				

December 19 2011 Hour: 22:29 9.8 Lat: 37.63N Lon: 1.74W Depth: 6F 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	572	274	EP		2230	25.23	0.00							1.0

December 19 2011 Hour: 22:50 10.8 Lat: 37.38N Lon: 8.54W Depth: 12F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	230	EP		2250	13.64	-0.05							1.0
MORF	HN	13	230	ES		2250	15.84	0.04							1.0
MORF	HN	13	230	AML		2250	16.45			33	0.2				
MESJ	HZ	58	29	EP		2250	20.48	0.17							1.0
MESJ	HN	58	29	ES		2250	27.11	-0.15							1.0
MESJ	HN	58	29	AML		2250	28.55			2	0.2				

December 19 2011 Hour: 23:35 55.2 Lat: 35.31N Lon: 6.28W Depth: 31F 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
MESJ	HZ	330	329	EP		2336	39.09	0.13							1.0
MESJ	HE	330	329	ES		2337	10.77	-0.13							1.0
MESJ	HE	330	329	AML		2337	12.07			1	0.2				

December 20 2011 Hour: 4:40 58.6 Lat: 37.30N Lon: 8.52W Depth: 7F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	274	EP		441	0.73	-0.14							1.0
MORF	HN	12	274	ES		441	2.57	0.06							1.0
MORF	HN	12	274	AML		441	3.13			31	0.2				
MESJ	HZ	66	24	EP		441	9.35	0.09							1.0

December 20 2011 Hour: 5:13 18.7 Lat: 37.28N Lon: 8.60W 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	5	303	EP		513	20.99	-0.09							1.0
MORF	HN	5	303	ES		513	22.82	0.03							1.0
MORF	HN	5	303	AML		513	23.44			62	0.2				

MESJ HZ	71	28	EP	513	30.31	0.20											1.0
MESJ HE	71	28	ES	513	38.27	-0.14											1.0
MESJ HN	71	28	AML	513	39.36				2	0.2							

December 21 2011 Hour: 13:37 14.9 Lat: 33.17S Lon: 179.02W Depth: 10F Agency: IGL Distant
Magnitudes: 5.6MS IGL 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
GGNV	BZ18917		53	EP		1357	22.39	-0.04							1.0
GGNV	BN18917		53	AMS		1523	31.70			973	18.4				
MORF	BZ19029		60	EP		1357	23.08	0.00							1.0
MORF	BZ19029		60	EPP		14	2	33.40	-0.07						1.0
MORF	BZ19029		60	AMS		15	5	54.30		698	18.0				
MESJ	BZ19036		56	EP		1357	23.10	0.05							1.0
MESJ	BZ19036		56	EPP		14	2	33.79	0.06						1.0
MESJ	BZ19036		56	AMS		1521	26.54			622	21.0				

December 21 2011 Hour: 20:42 16.6 Lat: 42.15N Lon: 7.89W Depth: 11F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	479	183	EP		2043	20.41	0.11							1.0
MESJ	HN	479	183	ES		2044	6.68	-0.11							1.0
MESJ	HE	479	183	AML		2044	8.07			2	0.4				

December 21 2011 Hour: 23:25 22.4 Lat: 36.51N Lon: 9.58W Depth: 20F 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	121	43	EP		2325	41.01	-0.04							1.0
MORF	HN	121	43	ES		2325	54.74	0.11							1.0
MORF	HE	121	43	AML		2325	55.69			44	0.2				
MESJ	HZ	191	39	EP		2325	49.58	-0.08							1.0

December 22 2011 Hour: 1:9 36.8 Lat: 38.79N Lon: 7.98W Depth: 5F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NE ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	108	191	EP		1	9	54.19	0.07						1.0
MESJ	HE	108	191	ES		110	6.72	-0.07							1.0
MESJ	HN	108	191	AML		110	7.51			2	0.1				

December 22 2011 Hour: 7:51 28.9 Lat: 38.73N Lon: 7.88W Depth: 1 Agency: IGL Regional
Magnitudes: 1.4ML 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
MESJ	HZ	103	197	EP		751	45.72	0.19							1.0
MESJ	HN	103	197	ES		751	57.75	0.07							1.0
MESJ	HN	103	197	AML		751	58.96			6	0.1				
MORF	HZ	172	203	EP		751	55.37	-0.19							1.0
MORF	HN	172	203	ES		752	14.95	-0.09							1.0
MORF	HN	172	203	AML		752	16.70			5	0.5				

December 22 2011 Hour: 8:7 43.3 Lat: 37.31N Lon: 8.55W Depth: 10F Agency: IGL Regional
Magnitudes: 0.6ML 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	9	267	EP		8	7	45.58	0.04						1.0
MORF	HN	9	267	ES		8	7	47.13	-0.04						1.0
MORF	HN	9	267	AML		8	7	47.64		31	0.3				

December 22 2011 Hour: 18:26 3.0 Lat: 35.23N Lon: 11.90W Depth: 22F Agency: IGL Regional
Magnitudes: 2.9ML 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	372	51	EP		1826	52.59	0.03							1.0
MORF	HE	372	51	ES		1827	28.76	-0.01							1.0
MORF	HN	372	51	AML		1827	30.73			48	0.2				
MESJ	HZ	439	48	EP		1827	0.64	-0.07							1.0
MESJ	HE	439	48	ES		1827	42.92	0.05							1.0
MESJ	HE	439	48	AML		1827	45.01			18	0.2				

December 22 2011 Hour: 22:51 24.7 Lat: 38.62N Lon: 10.69W Depth: 23F Agency: IGL Regional
Magnitudes: 1.8ML 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	231	129	EP		2251	56.71	0.03							1.0
MORF	HN	231	129	ES		2252	20.20	0.16							1.0
MORF	HN	231	129	AML		2252	22.08			15	0.2				
MESJ	HZ	233	111	EP		2251	56.85	-0.04							1.0
MESJ	HN	233	111	ES		2252	20.25	-0.16							1.0
MESJ	HN	233	111	AML		2252	23.07			3	0.1				

December 22 2011 Hour: 22:53 14.3 Lat: 36.61N Lon: 7.25W Depth: 18F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	161	328	EP		2253	37.99	-0.03							1.0
MESJ	HE	161	328	ES		2253	55.38	0.03							1.0
MESJ	HN	161	328	AML		2253	57.49			3	0.3				

December 23 2011 Hour: 0:58 37.1 Lat: 43.49S Lon: 172.98E Depth: 5F Agency: IGL Distant
Magnitudes: 6.0MS IGL Rms: 0.1 secs

SOUTH ISLAND OF NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19306	168	EP			118	47.25	-0.05							1.0
MORF	BZ19306	168	EPP			124	9.35	0.09							1.0
MORF	BZ19306	168	AMS			234	32.55			1813	18.5				
MESJ	BZ19370	170	EP			118	47.41	-0.05							1.0
MESJ	BZ19370	170	AMS			237	20.46			1973	17.5				
GGNV	BZ19447	161	EP			118	47.60	-0.04							1.0
GGNV	BZ19447	161	EPP			124	15.37	0.06							1.0
GGNV	BZ19447	161	AMS			237	29.72			1805	25.8				

December 23 2011 Hour: 2:18 1.9 Lat: 43.49S Lon: 172.84E Depth: 5F Agency: IGL Distant
Magnitudes: 6.1MS IGL Rms: 0.0 secs

SOUTH ISLAND OF NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19307	169	EP			238	12.03	-0.03							1.0
MORF	BZ19307	169	AMS			355	40.28			3082	21.1				
MESJ	BZ19372	171	EP			238	12.25	0.03							1.0
MESJ	BZ19372	171	AMS			356	45.71			2631	21.9				

December 23 2011 Hour: 7:10 16.7 Lat: 37.30N Lon: 8.50W Depth: 12F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.1 secs

E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	273	EP		710	19.62	-0.06							1.0
MORF	HN	13	273	ES		710	21.88	0.04							1.0
MORF	HN	13	273	AML		710	22.57			10	0.2				
MESJ	HZ	65	22	EP		710	27.41	0.19							1.0
MESJ	HN	65	22	ES		710	34.71	-0.17							1.0
MESJ	HN	65	22	AML		710	36.60			3	0.2				

December 23 2011 Hour: 12: 5 32.4 Lat: 39.36N Lon: 8.99W Depth: 12F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.0 secs

NW RIO MAIOR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	182	158	EP		12	6	1.83	0.03						1.0
MORF	HN	230	172	ES		12	6	29.18	-0.03						1.0
MORF	HN	230	172	AML		12	6	30.00			7	0.2			

December 24 2011 Hour: 14:15 48.7 Lat: 32.42N Lon: 7.73W 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	549	351	EP		14	17	2.03	-0.02						1.0

December 24 2011 Hour: 17: 7 3.1 Lat: 38.67N Lon: 8.48W Depth: 0 Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.4 secs

SW VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	55	351	EP		17	7	11.73	-0.11						1.0
ALMR	HN	55	351	ES		17	7	17.80	-0.45						1.0
ALMR	HN	55	351	AML		17	7	19.10			30	0.1			
MESJ	HZ	95	166	EP		17	7	18.33	-0.04						1.0
MESJ	HE	95	166	ES		17	7	29.50	-0.05						1.0
MESJ	HE	95	166	AML		17	7	30.82			10	0.2			
MORF	HZ	152	186	EP		17	7	28.24	0.81						1.0
MORF	HN	152	186	ES		17	7	45.12	-0.11						1.0
MORF	HE	152	186	AML		17	7	47.09			21	0.1			

December 25 2011 Hour: 0:53 22.4 Lat: 38.68N Lon: 8.48W Depth: 4F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs

NW VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	96	166	EP		05	3	37.87	-0.05						1.0
MESJ	HN	96	166	ES		05	3	49.28	0.05						1.0
MESJ	HN	96	166	AML		05	3	50.82			1	0.5			

December 25 2011 Hour: 5:30 17.5 Lat: 37.21N Lon: 3.94W Depth: 1F Agency: IGL Regional
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	385	282	EP		53	1	10.59	0.00						1.0

December 25 2011 Hour: 14: 8 4.9 Lat: 36.68N Lon: 9.71W Depth: 25F Agency: IGL Regional
Magnitudes: 1.5ML 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	117	53	EP		14	8	22.63	0.05						1.0
MORF	HN	117	53	ES		14	8	35.27	-0.25						1.0
MORF	HN	117	53	AML		14	8	36.16			16	0.1			
MESJ	HZ	184	45	EP		14	8	30.89	-0.02						1.0
MESJ	HE	184	45	ES		14	8	50.17	0.24						1.0
MESJ	HE	184	45	AML		14	8	50.51			3	0.1			

December 25 2011 Hour: 15: 1 21.0 Lat: 38.50N Lon: 8.16W Depth: 10F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs

SE MONTEMOR-O-NOVO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	74	184	EP		15	1	32.99	0.07						1.0
MESJ	HE	74	184	ES		15	1	41.68	0.05						1.0
MESJ	HN	74	184	AML		15	1	42.73			22	0.1			
ALMR	HZ	81	334	EP		15	1	33.99	-0.09						1.0
ALMR	HE	81	334	ES		15	1	43.67	0.04						1.0
ALMR	HN	81	334	AML		15	1	45.49			41	0.2			

MORF HZ	139	198	EP		15	1	42.63	-0.15									1.0
MORF HN	139	198	ES		15	1	58.75	0.08									1.0
MORF HN	139	198	AML		15	1	59.02			9	0.2						

**December 25 2011 Hour: 15:37 48.2 Lat: 35.25N Lon: 5.87W Depth: 28F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.3 secs**

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	338	313	EP			1538	32.73	-0.46							1.0
MESJ HZ	356	324	EP			1538	35.73	0.37							1.0
MESJ HN	356	324	ES			1539	9.91	0.10							1.0
MESJ HN	356	324	AML			1539	11.62			2	0.4				

**December 25 2011 Hour: 21:36 52.3 Lat: 37.22N Lon: 3.94W 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	384	282	EP			2137	45.43	0.00							1.0

**December 26 2011 Hour: 1:20 36.2 Lat: 36.61N Lon: 7.03W Depth: 17F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HN	164	299	ES			121	18.07	0.03							1.0
MORF HN	164	299	AML			121	19.38			4	0.4				
MESJ HZ	173	323	EP			121	1.50	0.04							1.0
MESJ HE	173	323	ES			121	19.82	-0.06							1.0
MESJ HE	173	323	AML			121	20.92			2	0.1				

**December 26 2011 Hour: 4:34 0.2 Lat: 31.36N Lon: 7.80W Depth: 35F Agency: IGL Regional
Magnitudes: 3.0ML 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	664	353	EP			435	24.45	-0.06							1.0
MORF HE	664	353	ES			436	26.10	0.04							1.0
MORF HE	664	353	AML			436	26.59			17	0.3				
MESJ HZ	720	357	EP			435	31.11	0.10							1.0
MESJ HN	720	357	ES			436	37.24	-0.08							1.0
MESJ HN	720	357	AML			436	41.57			16	0.2				

**December 26 2011 Hour: 4:48 11.7 Lat: 16.19S Lon: 173.86W Depth: 90F Agency: IGL Distant
Rms: 0.4 secs**

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR BZ17110	27	EP				5	7	51.48	-0.08						1.0
MESJ BZ17249	28	EP				5	7	52.89	-0.43						1.0
MORF BZ17276	29	EP				5	7	54.21	0.51						1.0

**December 26 2011 Hour: 16:12 35.9 Lat: 19.19S Lon: 168.69E Depth: 67F Agency: IGL Distant
Rms: 0.0 secs**

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ BZ17941	352	EP				1632	28.05	0.02							1.0
MORF BZ18005	353	EP				1632	28.68	-0.02							1.0

**December 26 2011 Hour: 21:54 16.2 Lat: 36.68N Lon: 7.63W Depth: 24F 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 HN	114	308	ES			2154	46.41	0.05							1.0
MORF HN	114	308	AML			2154	46.86			11	0.2				
MESJ HZ	139	338	EP			2154	36.66	0.03							1.0
MESJ HN	139	338	ES			2154	51.48	-0.09							1.0
MESJ HN	139	338	AML			2154	52.65			8	0.2				

December 27 2011 Hour: 11:21 43.5 Lat: 36.76N Lon: 9.46W Depth: 23F 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	94	50	EP		1121	58.44	0.13							1.0
MORF	HE	94	50	ES		1122	9.11	-0.05							1.0
MORF	HN	94	50	AML		1122	9.92		10	0.1					
MESJ	HZ	163	42	EP		1122	6.89	-0.04							1.0
MESJ	HN	163	42	ES		1122	24.03	-0.04							1.0
MESJ	HN	163	42	AML		1122	25.52		3	0.4					

December 27 2011 Hour: 15:21 57.0 Lat: 51.84N Lon: 95.92E Depth: 15F Agency: IGL Distant
Magnitudes: 6.9MS IGL Rms: 0.1 secs

SOUTHWESTERN SIBERIA, RUSSIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	BZ	7569	306	EP		1532	56.44	0.12							1.0
ALMR	BN	7569	306	ES		1541	56.21	-0.12							1.0
ALMR	BN	7569	306	ESS		1546	20.33	0.03							1.0
ALMR	BZ	7569	306	AMS		16 6	21.00		83343	19.1					
GGNV	BZ	7638	306	EP		1533	0.35	0.14							1.0
GGNV	BN	7638	306	ES		1542	3.78	0.05							1.0
GGNV	BN	7638	306	ESS		1546	29.88	0.00							1.0
GGNV	BE	7638	306	AMS		16 6	23.90		91627	19.3					
MESJ	BZ	7661	305	EP		1533	1.61	0.10							1.0
MESJ	BN	7661	305	ES		1542	6.04	-0.15							1.0
MESJ	BZ	7661	305	AMS		16 7	47.04		60790	18.3					
MORF	BZ	7730	305	EP		1533	5.30	-0.17							1.0
MORF	BE	7730	305	ES		1542	13.70	-0.01							1.0
MORF	BN	7730	305	AMS		16 1	34.88		63011	19.1					

December 27 2011 Hour: 23:59 11.3 Lat: 37.08N Lon: 10.68W Depth: 0 Agency: IGL Regional
Magnitudes: 1.3ML 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
MESJ	HZ	233	68	EP		2359	45.78	-0.02							1.0
MESJ	HE	233	68	ES		24 0	10.97	0.02							1.0
MESJ	HN	233	68	AML		24 0	13.05		2	0.4					

December 28 2011 Hour: 0:13 24.7 Lat: 36.48N Lon: 9.89W Depth: 31F 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	HN	144	50	ES		014	0.48	0.10							1.0
MORF	HN	144	50	AML		014	0.88		5	0.2					
MESJ	HZ	212	44	EP		013	53.69	-0.07							1.0
MESJ	HN	212	44	ES		014	14.91	-0.04							1.0
MESJ	HN	212	44	AML		014	15.51		2	0.5					

December 28 2011 Hour: 5:44 34.7 Lat: 36.62N Lon: 11.35W Depth: 31F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	252	72	EP		545	8.72	-0.10							1.0
MORF	HE	252	72	ES		545	33.82	0.10							1.0
MORF	HN	252	72	AML		545	35.96		10	0.3					

December 29 2011 Hour: 0:31 4.6 Lat: 36.62N Lon: 6.84W Depth: 30F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	183	318	EP		031	30.23	0.11							1.0
MESJ	HN	183	318	ES		031	48.61	-0.11							1.0
MESJ	HN	183	318	AML		031	49.51		2	0.2					

December 29 2011 Hour: 5:20 26.7 Lat: 40.20N Lon: 8.48W Depth: 1 Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.1 secs

W COIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ALMR	HZ	116	184	EP		520	45.40	-0.07							1.0
ALMR	HN	116	184	ES		520	59.24	0.07							1.0
ALMR	HN	116	184	AML		521	0.44			18	0.3				

December 29 2011 Hour: 8:58 8.9 Lat: 38.35N Lon: 7.67W Depth: 16F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NE PORTEL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	74	221	EP		858	20.78	-0.06							1.0
MESJ	HE	74	221	ES		858	29.55	-0.03							1.0
MESJ	HN	74	221	AML		858	30.42			6	0.2				
ALMR	HZ	119	319	EP		858	27.76	0.24							1.0
ALMR	HN	119	319	ES		858	41.01	-0.14							1.0
ALMR	HE	119	319	AML		858	42.82			32	0.3				

December 29 2011 Hour: 11:56 6.7 Lat: 36.35N Lon: 7.86W Depth: 31F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	127	327	EP		1156	25.21	-0.12							1.0
MORF	HN	127	327	ES		1156	38.90	-0.01							1.0
MORF	HN	127	327	AML		1156	39.84			41	0.5				
MESJ	HZ	168	349	EP		1156	30.56	0.18							1.0
MESJ	HN	168	349	ES		1156	47.51	-0.14							1.0
MESJ	HN	168	349	AML		1156	48.80			30	0.2				
ALMR	HZ	318	349	EP		1156	49.08	0.16							0.9
ALMR	HN	318	349	ES		1157	19.66	-0.06							0.9
ALMR	HN	318	349	AML		1157	20.35			16	0.4				

December 29 2011 Hour: 12:30 46.9 Lat: 36.23N Lon: 8.38W Depth: 8F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	122	349	EP		1231	6.22	-0.10							1.0
MORF	HN	122	349	ES		1231	20.53	0.06							1.0
MORF	HN	122	349	AML		1231	21.56			5	0.1				
MESJ	HN	179	5	ES		1231	33.52	0.04							1.0
MESJ	HN	179	5	AML		1231	34.89			3	0.1				

December 29 2011 Hour: 22:25 51.8 Lat: 4.65S Lon: 155.20E Depth: 505F Agency: IGL Distant
Rms: 0.0 secs

BOUGAINVILLE REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15993	338	EP			2244	27.43	0.02							1.0

December 30 2011 Hour: 7:30 22.9 Lat: 37.30N Lon: 8.85W Depth: 15F Agency: IGL Regional
Magnitudes: 0.8ML IGL Rms: 0.2 secs

SW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	18	88	EP		730	26.50	-0.13							1.0
MORF	HN	18	88	ES		730	29.47	0.10							1.0
MORF	HN	18	88	AML		730	30.60			14	0.2				
MESJ	HZ	82	43	EP		730	35.79	-0.17							1.0
MESJ	HN	82	43	ES		730	45.70	0.20							1.0
MESJ	HN	82	43	AML		730	46.15			4	0.2				

**December 30 2011 Hour: 9:49 21.0 Lat: 36.89N Lon: 10.41W Depth: 31F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	163	73	ES		950	0.79	-0.08							1.0
MORF	HN	163	73	AML		950	1.53			12	0.2				
MESJ	HZ	221	61	EP		949	51.19	0.00							1.0
MESJ	HE	221	61	ES		950	13.31	0.09							1.0
MESJ	HE	221	61	AML		950	13.71			2	0.3				

**December 30 2011 Hour: 15:16 42.1 Lat: 32.30N Lon: 7.66W 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	563	351	EP		1517	54.22	-0.07							1.0
MESJ	HZ	617	355	EP		1518	0.87	0.07							1.0

**December 31 2011 Hour: 2:16 36.1 Lat: 36.63N Lon: 5.00W Depth: 19F Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.1 secs**

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	316	296	EP		217	18.70	-0.21							1.0
MESJ	HN	316	296	ES		217	50.23	0.05							1.0
MESJ	HN	316	296	AML		217	51.77			13	0.1				
MORF	HZ	334	284	EP		217	21.10	-0.08							1.0
MORF	HN	334	284	ES		217	54.27	0.15							1.0
MORF	HN	334	284	AML		217	55.22			10	0.3				
ALMR	HE	421	313	ES		218	12.86	0.11							0.9
ALMR	HN	421	313	AML		218	15.03			8	0.4				

**December 31 2011 Hour: 6:34 11.9 Lat: 35.16N Lon: 5.67W Depth: 52F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	375	323	EP		635	0.64	-0.06							1.0
MESJ	HE	375	323	ES		635	36.42	0.06							1.0
MESJ	HE	375	323	AML		635	38.02			2	0.7				

**December 31 2011 Hour: 16:32 41.0 Lat: 37.61N Lon: 9.15W Depth: 28F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

NORTH ATLANTIC OCEAN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	56	127	EP		1632	50.67	0.07							1.0
MORF	HE	56	127	ES		1632	57.53	-0.05							1.0
MORF	HN	56	127	AML		1632	58.61			10	0.1				
MESJ	HZ	86	72	EP		1632	54.47	-0.17							1.0
MESJ	HE	86	72	ES		1633	4.73	0.15							1.0
MESJ	HN	86	72	AML		1633	6.79			2	0.6				

**December 31 2011 Hour: 19:37 31.3 Lat: 37.80N Lon: 7.89W Depth: 16F Agency: IGL Regional
Magnitudes: 0.5ML IGL Rms: 0.0 secs**

NE CASTRO VERDE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	29	279	EP		1937	36.59	0.01							1.0
MESJ	HN	29	279	ES		1937	40.46	-0.01							1.0
MESJ	HN	29	279	AML		1937	40.90			5	0.1				

December 31 2011 Hour: 20:32 13.7 Lat: 37.06N Lon: 8.57W Depth: 12F 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	28	345	EP		2032	18.52	-0.16							1.0
MORF	HE	28	345	ES		2032	22.42	0.10							1.0
MORF	HN	28	345	AML		2032	23.19			7	0.0				
MESJ	HZ	92	20	EP		2032	28.37	0.08							1.0
MESJ	HN	92	20	ES		2032	38.93	-0.02							1.0
MESJ	HN	92	20	AML		2032	40.16			2	0.3				