

Seismological Bulletin

from the

IGIDL Seismic Network

September to October

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

September 1 2011 Hour: 6:14 39.4 Lat: 12.47S Lon: 166.50E Depth: 35F Agency: IGL Distant
Magnitudes: 5.8MS IGL Rms: 0.2 secs

SANTA CRUZ ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17094	352	EP			634	25.84	0.03							1.0
GGNV	BZ17094	352	EPP			638	20.80	-0.10							1.0
GGNV	BZ17094	352	AMS			745	4.02		1999	19.4					
MESJ	BZ17174	350	EP			634	26.64	-0.22							1.0
MESJ	BZ17174	350	EPP			638	24.88	-0.13							1.0
MESJ	BZ17174	350	AMS			748	14.31		1696	20.0					
MORF	BZ17240	351	EP			634	27.64	-0.10							1.0
MORF	BZ17240	351	EPP			638	28.90	0.54							1.0
MORF	BZ17240	351	AMS			751	58.63		1122	23.1					

September 2 2011 Hour: 5:25 51.9 Lat: 36.62N Lon: 7.56W Depth: 25F Agency: IGL Regional
Magnitudes: 2.7ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	123	308	EP		526	10.22	-0.18							1.0
MORF	HN	123	308	ES		526	23.94	0.03							1.0
MORF	HN	123	308	AML		526	25.32		178						
MESJ	HZ	147	337	EP		526	13.49	0.14							1.0
MESJ	HN	147	337	ES		526	29.02	0.00							1.0
MESJ	HN	147	337	AML		526	30.19		75	0.1					

September 2 2011 Hour: 10:55 53.7 Lat: 52.19N Lon: 171.68W Depth: 35F Agency: IGL Distant
Magnitudes: 6.8MS IGL Rms: 0.1 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9798	14	EP		11 8	40.40	0.00							1.0
GGNV	BZ	9798	14	AMS		1151	16.45		39251	19.6					
MESJ	BZ	9909	13	EP		11 8	44.99	-0.13							1.0
MESJ	BN	9909	13	ES		1119	12.31	0.13							1.0
MESJ	BZ	9909	13	AMS		1151	47.81		35297	17.2					
MORF	BZ	9960	13	EP		11 8	47.35	0.00							1.0
MORF	BZ	9960	13	AMS		1150	48.22		37842	21.4					

September 2 2011 Hour: 13:47 11.0 Lat: 28.42S Lon: 63.15W Depth: 593F Agency: IGL Distant
Magnitudes: 5.9MB IGL Rms: 0.1 secs

SANTIAGO DEL ESTERO, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9231	41	EP		1358	34.89	-0.05							1.0
MORF	BZ	9231	41	AMb		1358	38.05		974	1.4					
MORF	BN	9231	41	ES		14 7	59.62	0.07							1.0
MESJ	BZ	9299	41	EP		1358	37.96	0.03							1.0
MESJ	BZ	9299	41	AMb		1358	41.69		1412	1.3					
MESJ	BN	9299	41	ES		14 8	3.49	0.08							1.0
GGNV	BZ	9308	40	EP		1358	38.34	0.07							1.0
GGNV	BZ	9308	40	AMb		1358	42.25		1427	1.6					
GGNV	BN	9308	40	ES		14 8	3.59	-0.27							0.8

September 2 2011 Hour: 16:58 52.5 Lat: 38.78N Lon: 7.96W Depth: 14F Agency: IGL Regional
Magnitudes: 1.8ML 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	107	192	EP		1659	9.35	-0.01							1.0
MESJ	HN	107	192	ES		1659	21.57	-0.11							1.0
MESJ	HN	107	192	AML		1659	22.85		16	0.1					
MORF	HN	174	201	ES		1659	37.19	0.13							1.0
MORF	HN	174	201	AML		1659	41.36		12	0.4					

September 3 2011 Hour: 1: 6 56.1 Lat: 12.78S Lon: 166.67E Depth:101F Agency: IGL Distant
 Magnitudes: 5.3MS IGL Rms: 0.1 secs

SANTA CRUZ ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17130	353	EP			126	35.04	0.21							1.0
GGNV	BE17130	353	AMS			237	57.53			687	15.5				
MESJ	BZ17211	351	EP			126	35.91	0.02							1.0
MESJ	BZ17211	351	AMS			236	29.94			457	17.3				
MORF	BZ17277	351	EP			126	36.64	-0.11							1.0
MORF	BZ17277	351	EPP			130	39.34	-0.12							1.0
MORF	BZ17277	351	AMS			233	22.30			369	25.1				

September 3 2011 Hour: 3:38 34.5 Lat: 36.95N Lon: 9.35W Depth: 7F 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	74	57	EP		338	46.35	-0.13							1.0
MORF	HE	74	57	ES		338	55.30	0.10							1.0
MORF	HN	74	57	AML		338	57.15			17	0.1				
MESJ	HZ	141	45	EP		338	56.64	-0.10							1.0
MESJ	HE	141	45	ES		339	13.08	0.13							1.0
MESJ	HN	141	45	AML		339	14.51			4	0.2				

September 3 2011 Hour: 4:49 1.1 Lat: 56.55S Lon: 27.04W Depth:106F Agency: IGL Distant
 Magnitudes: 6.0MS IGL Rms: 0.1 secs

SOUTH SANDWICH ISLANDS REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10527	15	EP			5	2	9.57	-0.02						1.0
MORF	BN10527	15	ES			512	36.07	0.16							1.0
MORF	BZ10527	15	AMS			539	18.60			4243	22.5				
MESJ	BZ10592	15	EP			5	2	12.18	0.00						1.0
MESJ	BN10592	15	ES			512	38.90	-0.05							1.0
MESJ	BZ10592	15	AMS			542	57.34			5854	17.6				
GGNV	BZ10673	14	EP			5	2	15.45	0.01						1.0
GGNV	BN10673	14	ES			512	42.67	-0.10							1.0
GGNV	BZ10673	14	AMS			541	18.36			6747	19.1				

September 3 2011 Hour: 7:34 31.5 Lat: 36.33N Lon: 9.86W Depth: 15F Agency: IGL Regional
 Magnitudes: 2.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	153	45	EP		734	54.64	0.11							1.0
MORF	HN	153	45	ES		735	11.38	0.06							1.0
MORF	HN	153	45	AML		735	12.40			42	0.4				
MESJ	HN	222	41	ES		735	25.94	-0.19							1.0
MESJ	HN	222	41	AML		735	28.10			9	0.1				

September 3 2011 Hour: 16:20 53.2 Lat: 38.06S Lon: 73.46W Depth: 14F Agency: IGL Distant
 Magnitudes: 5.9MS IGL Rms: 0.1 secs

OFFSHORE BIO-BIO, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10660	46	EP			1634	19.02	-0.07							1.0
MORF	BN10660	46	ES			1644	54.99	-0.04							1.0
MORF	BZ10660	46	AMS			1715	57.01			5629	25.9				
MESJ	BZ10728	46	EP			1634	21.89	0.09							1.0
MESJ	BN10728	46	ES			1644	58.20	0.03							1.0
MESJ	BZ10728	46	AMS			1716	23.60			5041	19.4				
GGNV	BZ10737	45	EP			1634	22.10	-0.01							1.0
GGNV	BZ10737	45	AMS			1717	30.50			3732	18.9				

September 3 2011 Hour: 22:55 35.7 Lat: 20.58S Lon: 169.70E Depth:132F Agency: IGL Distant
Rms: 0.1 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18016	357	EP			2315	20.40	-0.09							1.0
GGNV	BZ18016	357	EPP			2319	52.04	0.23							0.9
MESJ	BZ18106	354	EP			2315	21.25	-0.09							1.0
MESJ	BZ18106	354	EPP			2319	56.20	0.08							1.0
MORF	BZ18168	355	EP			2315	21.90	-0.05							1.0
MORF	BZ18168	355	EPP			2319	59.05	-0.11							1.0
MORF	BN18168	355	ESS			2340	15.17	0.06							1.0

September 4 2011 Hour: 6:59 41.3 Lat: 37.35N Lon: 14.36W Depth: 0 Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.2 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	506	89	EP		7 0	49.37	-0.01							1.0
MORF	HN	506	89	ES		7 1	38.82	-0.25							1.0
MORF	HN	506	89	AML		7 1	39.81			2	0.4				
MESJ	HN	545	82	ES		7 1	47.44	0.27							1.0
MESJ	HE	545	82	AML		7 1	48.91			1	0.3				

September 4 2011 Hour: 21:44 21.0 Lat: 19.16S Lon: 168.70E Depth: 59F Agency: IGL Distant
Magnitudes: 5.7MS IGL Rms: 0.1 secs

VANUATU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17852	355	EP			22 4	13.06	-0.09							1.0
GGNV	BZ17852	355	EPP			22 8	37.47	0.02							1.0
GGNV	BZ17852	355	AMS			2315	3.10			1008	22.2				
MESJ	BZ17937	352	EP			22 4	13.96	-0.07							1.0
MESJ	BZ17937	352	EPP			22 8	41.71	0.09							1.0
MESJ	BZ17937	352	AMS			2316	36.12			1209	16.6				
MORF	BZ18002	353	EP			22 4	14.64	-0.06							1.0
MORF	BZ18002	353	EPP			22 8	44.86	0.11							1.0
MORF	BZ18002	353	AMS			2315	20.05			935	18.2				

September 5 2011 Hour: 9:52 0.0 Lat: 15.29S Lon: 173.62W Depth: 27F Agency: IGL Distant
Magnitudes: 6.5MS IGL Rms: 0.1 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17023	27	EP			1011	46.61	-0.15							1.0
GGNV	BZ17023	27	AMS			1113	56.46			8841	20.9				
MESJ	BZ17149	27	EP			1011	48.48	0.06							1.0
MESJ	BZ17149	27	AMS			1115	11.26			9024	27.9				
MORF	BZ17176	29	EP			1011	48.89	0.08							1.0
MORF	BZ17176	29	AMS			1113	8.11			8026	22.0				

September 5 2011 Hour: 13:10 27.9 Lat: 36.29N Lon: 8.54W Depth: 15F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	113	355	EP		1310	45.70	-0.06							1.0
MORF	HN	113	355	ES		1310	58.85	0.05							1.0
MORF	HN	113	355	AML		1311	0.37			13	0.1				
MESJ	HZ	174	9	EP		1310	53.63	0.11							1.0
MESJ	HN	174	9	ES		1311	12.13	-0.10							1.0
MESJ	HN	174	9	AML		1311	13.94			5	0.1				

September 5 2011 Hour: 17:55 14.2 Lat: 2.97N Lon: 98.00E Depth:110F Agency: IGL Distant
Magnitudes: 5.8MS IGL Rms: 0.1 secs

NORTHERN SUMATRA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	11234	309	EP		18 8	50.71	0.04							1.0
MESJ	BE	11234	309	ES		1819	19.24	-0.05							1.0
MESJ	BN	11234	309	AMS		1852	44.43		2763	20.4					
MORF	BE	11284	309	ES		1819	21.48	-0.07							1.0
MORF	BN	11284	309	AMS		1858	2.94		3066	14.5					
GGNV	BE	11292	310	ES		1819	21.81	0.08							1.0
GGNV	BN	11292	310	AMS		1840	32.99		3622	23.2					

September 6 2011 Hour: 4: 7 33.8 Lat: 21.94N Lon: 60.27W Depth: 2F Agency: IGL Distant
Magnitudes: 4.9MB IGL Rms: 0.1 secs

NORTH ATLANTIC OCEAN Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5214	59	IP		416	5.31	-0.06							1.0
MORF	BZ	5214	59	EP		416	5.31	-0.06							1.0
MORF	BZ	5214	59	AMb		416	11.79		34	1.8					
MORF	BE	5214	59	ES		422	57.96	0.15							1.0
MESJ	BZ	5256	58	EP		416	8.10	-0.19							1.0
MESJ	BZ	5256	58	AMb		416	10.67		28	1.7					
MESJ	BN	5256	58	ES		423	3.30	0.16							1.0

September 6 2011 Hour: 4:36 0.3 Lat: 35.95N Lon: 10.79W 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	243	51	EP		436	33.38	0.10							1.0
MORF	HN	243	51	ES		436	57.34	-0.04							1.0
MORF	HN	243	51	AML		436	58.88		24	0.3					
MESJ	HZ	311	47	EP		436	41.50	-0.08							1.0
MESJ	HE	311	47	ES		437	11.77	0.02							1.0
MESJ	HN	311	47	AML		437	13.16		6	0.1					

September 6 2011 Hour: 22:26 48.3 Lat: 35.76N Lon: 4.73W Depth: 20F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	388	308	EP		2227	40.07	0.02							1.0
MESJ	HE	388	308	ES		2228	17.79	-0.02							1.0
MESJ	HN	388	308	AML		2228	19.34		6	0.1					

September 7 2011 Hour: 0: 6 27.3 Lat: 36.60N Lon: 5.60W Depth: 22F Agency: IGL Regional
Magnitudes: 1.5ML 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	270	301	EP		0 7	4.28	0.09							1.0
MESJ	HN	270	301	ES		0 7	31.06	-0.09							1.0
MESJ	HN	270	301	AML		0 7	33.18		2	0.2					

September 7 2011 Hour: 1:13 23.4 Lat: 34.91N Lon: 8.03W Depth: 37F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	272	348	EP		113	59.87	-0.05							1.0
MESJ	HZ	325	357	EP		114	6.63	0.06							1.0
MESJ	HE	325	357	ES		114	38.08	0.00							1.0
MESJ	HN	325	357	AML		114	40.49		3	0.2					

September 7 2011 Hour: 11:12 34.3 Lat: 36.95N Lon: 8.88W Depth: 22F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	45	27	EP		1112	42.11	0.00							1.0
MORF	HE	45	27	ES		1112	47.81	0.00							1.0
MORF	HN	45	27	AML		1112	48.93			20	0.1				

September 7 2011 Hour: 21:58 54.1 Lat: 36.12N Lon: 7.33W Depth: 23F Agency: IGL Regional
Magnitudes: 1.4ML 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	HN	177	319	ES		2159	37.88	0.03							1.0
MORF	HN	177	319	AML		2159	39.10			6	0.4				
MESJ	HZ	207	338	EP		2159	23.00	-0.07							1.0
MESJ	HE	207	338	ES		2159	44.24	0.04							1.0
MESJ	HN	207	338	AML		2159	45.57			2	0.4				

September 8 2011 Hour: 23:27 5.9 Lat: 37.76N Lon: 8.31W Depth: 10F Agency: IGL Regional
Magnitudes: 0.1ML IGL Rms: 0.0 secs

NW OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	12	42	EP		2327	8.32	-0.06							1.0
MESJ	HN	12	42	ES		2327	10.26	0.03							1.0
MESJ	HN	12	42	AML		2327	10.46			7	0.2				
MORF	HZ	59	211	EP		2327	15.50	0.03							1.0

September 9 2011 Hour: 2:33 53.0 Lat: 22.44S Lon: 68.65W Depth: 95F Agency: IGL Distant
Magnitudes: 4.7MB IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9119	44	EP		246	2.33	-0.11							1.0
MORF	BZ	9119	44	AMB		246	4.81			29	1.7				
MESJ	BZ	9185	44	EP		246	5.56	0.11							1.0
MESJ	BZ	9185	44	AMB		246	8.37			26	2.5				

September 9 2011 Hour: 19:41 35.0 Lat: 49.47N Lon: 126.97W Depth: 26F Agency: IGL Distant
Magnitudes: 6.5MS IGL Rms: 0.1 secs

VANCOUVER ISLAND, CANADA REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	8497	45	EP		1953	22.25	-0.08							1.0
GGNV	BN	8497	45	ES		20	3	6.70	0.01						1.0
GGNV	BN	8497	45	AMS		2026	41.49			27688	17.8				
MESJ	BZ	8623	45	EP		1953	28.67	-0.11							1.0
MESJ	BE	8623	45	ES		20	3	19.19	0.04						1.0
MESJ	BZ	8623	45	AMS		2027	59.88			20815	17.6				
MORF	BZ	8649	46	EP		1953	30.21	0.08							1.0
MORF	BE	8649	46	ES		20	3	21.81	0.06						1.0
MORF	BZ	8649	46	AMS		2026	18.82			22600	21.8				

September 10 2011 Hour: 2:22 15.5 Lat: 36.87N Lon: 26.58E Depth: 9F Agency: IGL Distant
Magnitudes: 5.0MB IGL Rms: 0.1 secs

DODECANESE ISLANDS, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3067	283	EP		228	3.05	0.05							1.0
MESJ	BZ	3067	283	AMB		228	6.98			29	1.3				

September 10 2011 Hour: 19:53 3.4 Lat: 36.34N Lon: 8.38W Depth: 15F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	110	347	EP		1953	20.70	-0.08							1.0
MESJ	HZ	167	5	EP		1953	28.34	0.20							1.0
MESJ	HE	167	5	ES		1953	46.07	-0.11							1.0
MESJ	HN	167	5	AML		1953	48.13			2	0.2				

September 10 2011 Hour: 20:34 11.7 Lat: 36.85N Lon: 10.92W Depth: 11F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	208	75	EP		2034	41.90	0.02							1.0
MORF	HN	208	75	ES		2035	3.82	-0.11							1.0
MORF	HN	208	75	AML		2035	5.68			22	0.1				
MESJ	HZ	263	65	EP		2034	48.71	0.01							1.0
MESJ	HN	263	65	ES		2035	15.83	0.09							1.0
MESJ	HE	263	65	AML		2035	17.69			5	0.2				

September 11 2011 Hour: 15:10 17.6 Lat: 37.86N Lon: 1.80W Depth: 0 Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.3 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	565	272	EP		1511	32.65	-0.23							1.0
MESJ	HN	565	272	ES		1512	28.36	0.53							1.0
MESJ	HE	565	272	AML		1512	31.18			11	0.3				
MORF	HZ	608	266	EP		1511	37.78	-0.36							1.0
MORF	HE	608	266	ES		1512	36.98	0.05							1.0
MORF	HE	608	266	AML		1512	39.62			13	0.2				

September 11 2011 Hour: 18: 2 9.0 Lat: 37.31N Lon: 8.55W Depth: 12F Agency: IGL Regional
Magnitudes: 0.5ML 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	9	267	EP		18 2	11.27	-0.21							1.0
MORF	HN	9	267	ES		18 2	13.38	0.09							1.0
MORF	HN	9	267	AML		18 2	13.89			23	0.4				
MESJ	HZ	66	26	EP		18 2	19.82	0.21							1.0
MESJ	HN	66	26	ES		18 2	27.27	-0.09							1.0
MESJ	HN	66	26	AML		18 2	28.27			2	0.3				

September 12 2011 Hour: 0:23 23.2 Lat: 36.09N Lon: 7.37W Depth: 28F 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	208	339	EP		023	52.12	0.06							1.0
MESJ	HE	208	339	ES		024	13.04	-0.06							1.0
MESJ	HN	208	339	AML		024	14.71			2	0.4				

September 12 2011 Hour: 8:41 29.9 Lat: 37.56N Lon: 9.09W Depth: 8F Agency: IGL Regional
Magnitudes: 1.0ML 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	48	126	EP		841	37.83	0.10							1.0
MORF	HE	48	126	ES		841	43.37	-0.10							1.0
MORF	HN	48	126	AML		841	44.64			10	0.3				

September 12 2011 Hour: 9:30 52.4 Lat: 36.62N Lon: 9.66W Depth: 39F 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	118	49	EP		931	9.84	0.00							1.0
MORF	HN	118	49	ES		931	22.71	0.12							1.0
MORF	HN	118	49	AML		931	23.50			25	0.2				
MESJ	HZ	186	43	EP		931	18.17	-0.10							1.0
MESJ	HE	186	43	ES		931	37.16	-0.02							1.0
MESJ	HN	186	43	AML		931	38.67			7	0.1				

September 12 2011 Hour: 19:47 39.8 Lat: 36.74N Lon: 7.06W Depth: 31F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	155	294	EP		1948	1.74	-0.04							1.0
MORF	HN	155	294	ES		1948	17.75	-0.11							1.0
MORF	HN	155	294	AML		1948	18.28			6	0.2				
MESJ	HZ	160	320	EP		1948	2.38	0.04							1.0
MESJ	HE	160	320	ES		1948	18.92	0.11							1.0
MESJ	HN	160	320	AML		1948	20.60			5	0.3				

September 13 2011 Hour: 4:38 49.1 Lat: 5.63N Lon: 77.53W Depth: 19F Agency: IGL Distant
Rms: 0.1 secs

NEAR WEST COAST OF COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7774	52	EP		449	58.70	-0.05							1.0
MESJ	BZ	7820	52	EP		450	1.31	0.05							1.0

September 13 2011 Hour: 4:49 37.2 Lat: 5.63N Lon: 77.50W Depth: 26F Agency: IGL Distant
Magnitudes: 5.2MB IGL Rms: 0.1 secs

NEAR WEST COAST OF COLOMBIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7771	52	EP		5 0	45.75	0.11							1.0
MORF	BZ	7771	52	AMb		5 0	51.34			74	2.2				
MESJ	BZ	7817	52	EP		5 0	48.04	-0.11							1.0
MESJ	BZ	7817	52	AMb		5 0	54.81			55	1.5				

September 13 2011 Hour: 16:19 27.2 Lat: 34.24N Lon: 23.73E Depth: 10F Agency: IGL Distant
Magnitudes: 4.3MS 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	2893	287	EP		1625	0.41	0.04							1.0
MESJ	BN	2893	287	AMS		1638	54.41			902	18.5				

September 14 2011 Hour: 7:3 50.7 Lat: 32.69S Lon: 71.79W Depth: 37F Agency: IGL Distant
Magnitudes: 5.8MS IGL Rms: 0.0 secs

OFFSHORE VALPARAISO, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10140	45	EP			716	51.77	0.05							1.0
MORF	BZ10140	45	AMS			756	56.96			3475	18.7				
MESJ	BZ10208	45	EP			716	54.40	-0.06							1.0
MESJ	BZ10208	45	AMS			757	43.89			3806	22.9				
GGNV	BZ10211	44	EP			716	54.54	0.01							1.0
GGNV	BZ10211	44	AMS			756	49.94			2640	21.2				

September 14 2011 Hour: 13:36 34.1 Lat: 35.11S Lon: 178.99W Depth: 13F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.2 secs

EAST OF NORTH ISLAND, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ19026	63	EP			1356	41.57	-0.05							1.0
GGNV	BZ19026	63	EPP			14 1	51.95	-0.05							1.0
GGNV	BE19026	63	AMS			1526	44.47			1278	16.3				

MORF	BZ19113	72	EP		1356	42.45	0.35																		1.0
MORF	BZ19113	72	EPP		14	1	55.89	-0.09																	1.0
MORF	BZ19113	72	AMS		1514		44.94							1552	19.0										
MESJ	BZ19135	67	EP		1356		42.07	-0.06																	1.0
MESJ	BZ19135	67	EPP		14	1	56.79	-0.09																	1.0
MESJ	BZ19135	67	AMS		1511		1.31							1739	19.8										

September 15 2011 Hour: 1:56 39.3 Lat: 36.57N Lon: 7.59W Depth: 29F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	151	339	EP		157	1.03	0.00							1.0
MESJ	HE	151	339	ES		157	16.86	0.00							1.0
MESJ	HN	151	339	AML		157	19.89				7	0.2			

September 15 2011 Hour: 1:57 41.9 Lat: 36.59N Lon: 7.66W Depth: 25F Agency: IGL Regional
Magnitudes: 1.2ML 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
MESJ	HZ	147	340	EP		158	3.18	-0.16							1.0
MESJ	HN	147	340	ES		158	19.15	0.16							1.0
MESJ	HN	147	340	AML		158	20.06				3	0.3			

September 15 2011 Hour: 7:53 11.6 Lat: 35.43S Lon: 177.87W Depth: 13F Agency: IGL Distant
Rms: 0.1 secs

EAST OF NORTH ISLAND, NEW ZEALAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ19026		75	EP		813	19.44	0.19							1.0
MESJ	BZ19052		71	EP		813	19.31	-0.01							1.0
GGNV	BZ18949		67	EP		813	18.61	-0.18							1.0

September 15 2011 Hour: 8: 0 8.9 Lat: 36.27N Lon: 141.28E Depth: 28F Agency: IGL Distant
Rms: 0.1 secs

NEAR EAST COAST OF HONSHU, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11235		336	EPP		818	4.32	0.01							1.0
MORF	BZ11304		336	EPP		818	8.98	-0.11							1.0
GGNV	BZ11180		337	EPP		818	0.61	0.09							1.0

September 15 2011 Hour: 11:59 53.0 Lat: 14.84S Lon: 177.89W Depth: 373F Agency: IGL Distant
Rms: 0.0 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17288		20	EP		1219	1.56	-0.01							1.0

September 15 2011 Hour: 15:27 2.9 Lat: 36.33N Lon: 82.50E Depth: 15F Agency: IGL Distant
Magnitudes: 4.9MS IGL Rms: 0.1 secs

SOUTHERN XINJIANG, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7714	302	EP		1538	10.38	0.18							1.0
MESJ	BE	7714	302	ES		1547	17.29	-0.11							1.0
MESJ	BZ	7714	302	AMS		1615	24.18				724	19.6			
GGNV	BZ	7734	303	EP		1538	11.37	0.07							1.0
MORF	BZ	7777	302	EP		1538	13.83	0.08							1.0
MORF	BE	7777	302	ES		1547	23.94	-0.22							1.0
MORF	BN	7777	302	AMS		16	7	58.44			851	22.1			

September 15 2011 Hour: 19:31 3.3 Lat: 21.55S Lon: 179.36W Depth: 626F Agency: IGL Distant
Magnitudes: 6.8MS IGL Rms: 0.1 secs

FIJI REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17907		24	EP		1949	52.40	-0.05							1.0
GGNV	BE17907		24	AMS		2024	41.81				18450	26.8			
MESJ	BZ18032		23	EP		1949	53.70	0.06							1.0

MESJ	BE18032	23	ESS	2014	2.10	0.17											1.0
MESJ	BE18032	23	AMS	2024	57.77				17376	25.6							
MORF	BZ18065	25	EP	1949	53.81	-0.18											1.0
MORF	BE18065	25	AMS	2024	50.19				20313	21.6							

**September 16 2011 Hour: 1:31 20.3 Lat: 36.48N Lon: 9.68W Depth: 1 Agency: IGL Regional
Magnitudes: 1.6ML 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	130	45	EP		131	41.31	0.06							1.0
MORF	HN	130	45	ES		131	56.67	0.14							1.0
MORF	HN	130	45	AML		131	58.29			13	0.4				
MESJ	HZ	199	40	EP		131	50.01	-0.34							1.0
MESJ	HE	199	40	ES		132	12.38	0.12							1.0
MESJ	HN	199	40	AML		132	13.86			3	0.3				

**September 16 2011 Hour: 19:26 41.0 Lat: 40.30N Lon: 142.80E Depth: 38F Agency: IGL Distant
Magnitudes: 7.0MS IGL Rms: 0.1 secs**

NEAR EAST COAST OF HONSHU, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ10814	338		EP		1940	9.79	0.18							1.0
GGNV	BZ10814	338		EPP		1944	6.38	-0.14							1.0
GGNV	BE10814	338		AMS		2023	49.84			55783	21.9				
MESJ	BZ10875	337		EP		1940	12.11	0.01							1.0
MESJ	BZ10875	337		EPP		1944	10.64	-0.09							1.0
MESJ	BN10875	337		ES		1950	46.57	0.03							1.0
MESJ	BZ10875	337		AMS		2029	47.42			50261	19.9				
MORF	BZ10944	337		EP		1940	15.14	0.05							1.0
MORF	BZ10944	337		EPP		1944	15.63	0.09							1.0
MORF	BN10944	337		ES		1950	49.66	-0.13							1.0
MORF	BZ10944	337		AMS		2029	36.38			37570	19.3				

**September 16 2011 Hour: 19:40 7.4 Lat: 36.48N Lon: 8.07W Depth: 21F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	105	331	EP		1940	23.93	0.02							1.0
MORF	HN	105	331	ES		1940	35.83	-0.16							1.0
MORF	HN	105	331	AML		1940	37.03			19	0.2				
MESJ	HZ	151	355	EP		1940	29.79	0.16							1.0
MESJ	HN	151	355	ES		1940	45.87	-0.01							1.0
MESJ	HN	151	355	AML		1940	46.55			8	0.1				

**September 17 2011 Hour: 3:43 4.7 Lat: 36.08N Lon: 7.98W Depth: 25F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.1 secs**

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	149	336	EP		343	26.20	-0.12							1.0
MORF	HN	149	336	ES		343	42.14	0.02							1.0
MORF	HN	149	336	AML		343	43.42			98	0.1				
MESJ	HZ	196	354	EP		343	32.29	0.07							1.0
MESJ	HE	196	354	ES		343	52.36	0.04							1.0
MESJ	HN	196	354	AML		343	53.77			113	0.4				

**September 17 2011 Hour: 6: 7 30.7 Lat: 40.84N Lon: 7.80W Depth: 3F Agency: IGL Regional
Rms: 0.0 secs**

W VILA NOVA DE PAIVA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	335	186	EP		6 8	17.48	0.02							1.0
MORF	HZ	399	191	EP		6 8	25.43	-0.02							1.0

September 17 2011 Hour: 6:41 19.8 Lat: 37.33N Lon: 14.12W Depth: 0 Agency: IGL Regional
Magnitudes: 2.2ML 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	485	89	EP		642	25.16	-0.25							1.0
MORF	HE	485	89	ES		643	13.32	0.04							1.0
MORF	HN	485	89	AML		643	15.77			5	0.3				
MESJ	HZ	524	82	EP		642	29.93	-0.21							1.0
MESJ	HE	524	82	ES		643	21.90	0.44							1.0
MESJ	HE	524	82	AML		643	26.30			3	0.2				

September 17 2011 Hour: 8:45 34.0 Lat: 35.90N Lon: 10.11W Depth: 31F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.2 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	273	37	EP		846	10.59	-0.16							1.0
MESJ	HN	273	37	ES		846	37.70	0.16							1.0
MESJ	HN	273	37	AML		846	39.23			2	0.3				

September 17 2011 Hour: 14: 3 42.5 Lat: 38.98N Lon: 8.65W Depth: 12F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NW CORUCHE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	132	163	EP		14 4	3.01	-0.13							1.0
MESJ	HN	132	163	ES		14 4	18.21	0.01							1.0
MESJ	HN	132	163	AML		14 4	20.20			9	0.2				
MORF	HZ	186	180	EP		14 4	9.96	0.12							1.0

September 17 2011 Hour: 19:42 43.1 Lat: 37.65N Lon: 7.78W Depth: 1F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

W MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	44	299	EP		1942	50.22	0.03							1.0
MESJ	HN	44	299	ES		1942	55.36	-0.03							1.0
MESJ	HN	44	299	AML		1942	56.28			15	0.2				

September 18 2011 Hour: 2: 3 37.5 Lat: 33.16N Lon: 4.71W Depth: 27F Agency: IGL Regional
Rms: 0.0 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	609	329	EP		2 4	55.54	-0.02							1.0

September 18 2011 Hour: 8:26 55.5 Lat: 37.22N Lon: 14.07W Depth: 50F Agency: IGL Regional
Magnitudes: 3.4ML 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
GGNV	HN	463	67	ES		828	37.80	-0.17							1.0
GGNV	HN	463	67	AML		828	38.14			140	0.5				
MORF	HZ	481	87	EP		827	56.94	0.02							1.0
MORF	HE	481	87	ES		828	41.85	0.11							1.0
MORF	HE	481	87	AML		828	43.79			63	0.6				
MESJ	HZ	522	81	EP		828	1.73	-0.11							1.0
MESJ	HE	522	81	ES		828	50.40	0.15							1.0
MESJ	HE	522	81	AML		828	53.87			50	0.2				

September 18 2011 Hour: 12:40 50.6 Lat: 27.71N Lon: 88.13E Depth: 50F Agency: IGL Distant
Magnitudes: 6.5MS IGL Rms: 0.1 secs

SIKKIM, INDIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8696	306	EP		1252	45.15	0.22							1.0
MESJ	BE	8696	306	ES		13 2	36.21	-0.11							1.0
MESJ	BN	8696	306	AMS		1328	0.20			25973	21.7				
GGNV	BZ	8727	308	EP		1252	46.21	-0.19							1.0

GGNV	BN	8727	308	ES		13	2	39.27	0.09										1.0
GGNV	BN	8727	308	AMS		1328		32.56			20522	21.5							
MORF	BZ	8757	306	EP		1252		47.92	-0.05										1.0
MORF	BE	8757	306	ES		13	2	42.25	0.04										1.0
MORF	BN	8757	306	AMS		1328		7.40			27910	21.0							

September 18 2011 Hour: 18:37 42.0 Lat: 36.68N Lon: 7.17W Depth: 5F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	149	298	EP		1838		5.56	0.03						1.0
MORF	HE	149	298	ES		1838		22.65	-0.03						1.0
MORF	HN	149	298	AML		1838		23.32			11	0.1			

September 19 2011 Hour: 1:44 44.0 Lat: 35.89N Lon: 10.44W Depth: 31F Agency: IGL Regional
Magnitudes: 1.4ML 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	45	EP		145		14.63	-0.05						1.0
MESJ	HZ	293	42	EP		145		23.16	-0.04						1.0
MESJ	HN	293	42	ES		145		51.89	0.09						1.0
MESJ	HN	293	42	AML		145		53.68			2	0.2			

September 19 2011 Hour: 8:14 15.6 Lat: 52.04N Lon: 171.85W Depth: 35F Agency: IGL Distant
Magnitudes: 5.2MS IGL Rms: 0.1 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9927	13	EP		827		7.90	0.06						1.0
MESJ	BZ	9927	13	AMS		9	6	30.98			851	19.3			
MORF	BZ	9978	13	EP		827		10.01	-0.06						1.0
MORF	BZ	9978	13	AMS		9	7	12.75			1298	21.8			

September 19 2011 Hour: 11:14 22.7 Lat: 36.74N Lon: 3.19W Depth: 1 Agency: IGL Regional
Magnitudes: 2.8ML 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	462	287	EP		1115		25.44	0.12						1.0
MESJ	HE	462	287	ES		1116		11.37	0.33						1.0
MESJ	HE	462	287	AML		1116		14.71			13	0.5			
MORF	HZ	490	279	EP		1115		28.57	-0.11						1.0
MORF	HN	490	279	ES		1116		16.51	-0.35						1.0
MORF	HN	490	279	AML		1116		20.85			24	0.4			

September 19 2011 Hour: 18:33 55.5 Lat: 14.24N Lon: 90.20W Depth: 9F Agency: IGL Distant
Magnitudes: 5.5MS IGL Rms: 0.2 secs

GUATEMALA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8332	55	EP		1845		36.92	0.13						1.0
MORF	BN	8332	55	ES		1855		14.93	0.05						1.0
MORF	BZ	8332	55	AMS		1915		23.14			3090	21.9			
MESJ	BZ	8363	54	EP		1845		38.43	0.08						1.0
MESJ	BN	8363	54	ES		1855		17.64	-0.26						1.0
MESJ	BZ	8363	54	AMS		1915		19.30			2755	21.0			

September 20 2011 Hour: 3: 0 8.2 Lat: 37.36N Lon: 3.45W Depth: 11F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.2 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	425	279	EP		3	1	5.12	-0.19						1.0
MORF	HZ	461	271	EP		3	1	9.96	0.20						1.0

September 20 2011 Hour: 3:59 55.2 Lat: 36.85N Lon: 8.27W Depth: 20F 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	61	326	EP		4 0	5.23	-0.03							1.0
MORF	HN	61	326	ES		4 0	12.75	0.13							1.0
MORF	HN	61	326	AML		4 0	13.65			13	0.1				
MESJ	HZ	110	2	EP		4 0	12.17	-0.20							1.0
MESJ	HE	110	2	ES		4 0	25.01	0.10							1.0
MESJ	HN	110	2	AML		4 0	27.21			2	0.2				

September 20 2011 Hour: 11:45 25.5 Lat: 37.19N Lon: 13.14W Depth: 0 Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	441	79	EP		1146	25.49	-0.13							1.0
MESJ	HE	441	79	ES		1147	9.66	0.13							1.0
MESJ	HN	441	79	AML		1147	13.18			3	0.2				

September 20 2011 Hour: 22:43 59.9 Lat: 37.31N Lon: 8.58W Depth: 8F Agency: IGL Regional
Magnitudes: 0.7ML 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	HE	6	266	ES		2244	2.98	0.10							1.0
MORF	HN	6	266	AML		2244	3.82			51	0.2				
MORF	HZ	6	266	EP		2244	1.53	-0.10							1.0

September 22 2011 Hour: 3:22 35.9 Lat: 39.79N Lon: 38.84E Depth: 5F 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	4046	282	EP		329	41.21	0.10							1.0
MESJ	BZ	4046	282	AMb		329	44.46			97	1.6				
MESJ	BN	4046	282	ES		335	23.87	-0.09							1.0
GGNV	BZ	4094	284	EP		329	44.89	0.15							1.0
GGNV	BZ	4094	284	AMb		329	47.10			165	1.1				
GGNV	BN	4094	284	ES		335	30.48	0.01							1.0
MORF	BZ	4101	282	EP		329	45.35	-0.02							1.0
MORF	BZ	4101	282	AMb		329	49.58			143	2.3				
MORF	BN	4101	282	ES		335	31.42	-0.16							1.0

September 22 2011 Hour: 16: 3 18.1 Lat: 37.15N Lon: 8.07W Depth: 18F Agency: IGL Regional
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NW LOULE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	54	289	EP		16 3	27.01	-0.17							1.0
MORF	HE	54	289	ES		16 3	33.80	0.02							1.0
MORF	HN	54	289	AML		16 3	35.28			43	0.1				
MESJ	HZ	78	350	EP		16 3	30.76	0.13							1.0
MESJ	HN	78	350	ES		16 3	39.78	0.02							1.0
MESJ	HE	78	350	AML		16 3	40.85			18	0.2				

September 22 2011 Hour: 17:42 30.7 Lat: 38.88N Lon: 8.22W Depth: 17F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.1 secs

SW MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	115	180	EP		1742	48.96	0.07							1.0
MESJ	HN	115	180	ES		1743	2.06	-0.07							1.0
MESJ	HN	115	180	AML		1743	3.17			9	0.2				

September 22 2011 Hour: 23: 7 3.5 Lat: 15.37S Lon: 175.22W Depth: 9F Agency: IGL Distant
Magnitudes: 6.8MS IGL Rms: 0.5 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17107	25	EP			2326	54.64	0.36							1.0
GGNV	BZ17107	25	AMS			2430	16.39		14464	17.2					
MESJ	BZ17232	25	EP			2326	55.23	-0.67							1.0
MESJ	BN17232	25	ESS			2350	40.48	0.50							1.0
MESJ	BZ17232	25	AMS			2431	28.16		12860	20.5					
MORF	BZ17263	26	EP			2326	55.67	-0.66							1.0
MORF	BE17263	26	ESS			2350	43.50	0.44							1.0
MORF	BZ17263	26	AMS			2431	54.46		13389	23.4					

September 23 2011 Hour: 7:46 31.0 Lat: 34.32N Lon: 5.55W Depth: 0 Agency: IGL Regional
Magnitudes: 2.3ML IGL Rms: 0.2 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	459	329	EP		747	33.19	-0.15							1.0
MESJ	HE	459	329	ES		748	19.00	0.15							1.0
MESJ	HN	459	329	AML		748	22.71		6	0.6					

September 23 2011 Hour: 23:47 40.6 Lat: 36.70N Lon: 11.17W Depth: 31F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	234	73	EP		2348	12.46	-0.01							1.0
MORF	HN	234	73	ES		2348	35.75	0.02							1.0
MORF	HN	234	73	AML		2348	37.48		17	0.4					
MESJ	HZ	291	63	EP		2348	19.38	-0.08							1.0
MESJ	HN	291	63	ES		2348	47.89	0.07							1.0
MESJ	HN	291	63	AML		2348	49.40		3	0.0					

September 24 2011 Hour: 1:56 32.2 Lat: 38.78N Lon: 7.97W Depth: 0 Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NE ARRAILOLOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	107	192	EP		156	49.51	0.15							1.0
MESJ	HE	107	192	ES		157	1.77	-0.15							1.0
MESJ	HE	107	192	AML		157	2.40		1	0.2					

September 24 2011 Hour: 2:21 53.4 Lat: 38.34N Lon: 7.57W Depth: 2F Agency: IGL Regional
Magnitudes: 0.7ML IGL Rms: 0.0 secs

SW REGUENGOS DE MONSARAZ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	80	226	EP		222	6.32	0.05							1.0
MESJ	HN	80	226	ES		222	15.60	-0.05							1.0
MESJ	HN	80	226	AML		222	17.38		3	0.4					

September 25 2011 Hour: 0:35 8.5 Lat: 5.93S Lon: 81.73W Depth: 33F Agency: IGL Distant
Magnitudes: 4.9MB IGL Rms: 0.2 secs

NEAR THE COAST OF NORTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8936	51	EP		047	16.51	0.16							1.0
MORF	BZ	8936	51	AMB		047	23.62		23	1.3					

September 25 2011 Hour: 2:32 40.5 Lat: 36.05N Lon: 10.12W Depth: 10F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	192	43	EP		233	8.78	0.01							1.0
MORF	HN	192	43	ES		233	29.36	-0.04							1.0
MORF	HN	192	43	AML		233	30.44		3	0.3					
MESJ	HZ	261	40	EP		233	17.37	0.01							1.0

MESJ HN 261 40 ES 233 44.27 0.01 1.0
 MESJ HN 261 40 AML 233 46.47 0.70 0.2

**September 25 2011 Hour: 2:40 22.2 Lat: 37.65N Lon: 1.41W Depth: 5F 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 601 274 EP 241 41.32 0.11 1.0
 MORF HZ 642 269 EP 241 46.10-0.11 1.0

**September 25 2011 Hour: 4: 8 35.5 Lat: 37.65N Lon: 1.40W Depth: 5F Agency: IGL Regional
 Rms: 0.0 secs**

SPAIN Net: MAD

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 601 274 EP 4 9 54.60 0.01 1.0
 MORF HZ 642 269 EP 4 9 59.57-0.01 1.0

**September 25 2011 Hour: 17:29 4.5 Lat: 37.39N Lon: 16.32W Depth: 3F Agency: IGL Regional
 Magnitudes: 4.4ML 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
 GGNV HZ 646 75 EP 1730 29.29 0.08 1.0
 GGNV HN 646 75 ES 1731 31.18 0.10 1.0
 GGNV HN 646 75 AML 1731 33.49 540 0.2
 MESJ HZ 717 84 EP 1730 37.61-0.11 1.0
 MESJ HN 717 84 ES 1731 45.72-0.09 1.0
 MESJ HE 717 84 AML 1731 48.59 269 0.2

**September 25 2011 Hour: 21:31 23.3 Lat: 37.32N Lon: 16.33W Depth: 17F Agency: IGL Regional
 Magnitudes: 2.7ML IGL Rms: 0.0 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ HZ 718 83 EP 2132 55.22-0.04 1.0
 MESJ HE 718 83 ES 2134 2.47 0.04 1.0
 MESJ HN 718 83 AML 2134 4.59 8 0.3

**September 26 2011 Hour: 1: 2 57.3 Lat: 63.45N Lon: 126.33W Depth: 3F Agency: IGL Distant
 Magnitudes: 5.2MS IGL Rms: 0.1 secs**

NORTHWEST TERRITORIES, CANADA Net: NEIC

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 GGNV BZ 7403 49 EP 113 49.01 0.01 1.0
 GGNV BN 7403 49 AMS 142 9.74 1415 18.9
 MESJ BZ 7525 49 EP 113 55.96-0.10 1.0
 MESJ BN 7525 49 ES 122 55.35 0.09 1.0
 MESJ BZ 7525 49 AMS 143 15.21 1251 16.5

**September 27 2011 Hour: 12: 8 18.9 Lat: 34.22N Lon: 23.67E Depth: 10F Agency: IGL Distant
 Magnitudes: 4.8MS IGL Rms: 0.1 secs**

CRETE, GREECE Net: CSEM

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MESJ BZ 2888 287 EP 1213 51.98 0.21 1.0
 MESJ BN 2888 287 ES 1218 23.27-0.10 1.0
 MESJ BN 2888 287 AMS 1228 2.14 1648 12.3
 GGNV BN 2968 289 ES 1218 34.48-0.10 1.0
 GGNV BN 2968 289 AMS 1229 47.84 2324 16.1

**September 27 2011 Hour: 12:12 26.2 Lat: 36.44N Lon: 11.13W Depth: 23F 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
 MESJ HZ 302 58 EP 1213 6.88-0.06 1.0
 MESJ HN 302 58 ES 1213 36.74 0.06 1.0
 MESJ HE 302 58 AML 1213 38.29 2 0.5

**September 27 2011 Hour: 18:29 6.8 Lat: 36.60N Lon: 9.80W Depth: 14F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.0 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	196	45	EP		1829	35.22	-0.02							1.0
MESJ	HE	196	45	ES		1829	56.03	0.02							1.0
MESJ	HN	196	45	AML		1829	58.06			2	0.3				

**September 27 2011 Hour: 23:43 36.2 Lat: 36.56N Lon: 9.78W Depth: 31F Agency: IGL Regional
Magnitudes: 1.5ML IGL Rms: 0.0 secs**

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	198	44	EP		2344	3.58	-0.04							1.0
MESJ	HE	198	44	ES		2344	23.65	0.04							1.0
MESJ	HN	198	44	AML		2344	24.46			4	0.2				

**September 28 2011 Hour: 7:1 44.1 Lat: 37.66N Lon: 8.38W Depth: 4F Agency: IGL Regional
Magnitudes: 0.3ML IGL Rms: 0.0 secs**

W OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	24	35	EP		7 1	48.06	0.00							1.0
MESJ	HE	24	35	ES		7 1	50.97	0.00							1.0
MESJ	HN	24	35	AML		7 1	52.04			6	0.1				

**September 29 2011 Hour: 20:44 30.3 Lat: 34.90N Lon: 4.58W Depth: 38F Agency: IGL Regional
Magnitudes: 3.2ML IGL Rms: 0.2 secs**

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	461	316	EP		2045	30.06	0.15							1.0
MESJ	HN	461	316	ES		2046	13.28	-0.15							1.0
MESJ	HN	461	316	AML		2046	15.05			53	0.1				

**September 30 2011 Hour: 13:55 17.7 Lat: 38.75N Lon: 7.94W Depth: 1 Agency: IGL Regional
Magnitudes: 1.0ML IGL Rms: 0.0 secs**

NE ARRAIOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	104	194	EP		1355	34.47	-0.02							1.0
MESJ	HE	104	194	ES		1355	46.75	0.02							1.0
MESJ	HN	104	194	AML		1355	47.50			4	0.1				

**September 30 2011 Hour: 23:10 6.2 Lat: 35.97N Lon: 4.87W Depth: 28F Agency: IGL Regional
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	364	306	EP		2310	54.20	-0.06							1.0

**October 3 2011 Hour: 20:46 20.5 Lat: 36.35N Lon: 9.38W Depth: 11F Agency: IGL Regional
Magnitudes: 2.4ML 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	124	31	EP		2046	40.13	0.04							1.0
MORF	HN	124	31	ES		2046	54.36	-0.04							1.0
MORF	HN	124	31	AML		2046	56.11			69	0.2				

**October 3 2011 Hour: 23:28 38.9 Lat: 35.96N Lon: 10.44W Depth: 31F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.0 secs**

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	219	46	EP		2329	8.87	-0.02							1.0
MORF	HN	219	46	ES		2329	30.79	0.02							1.0
MORF	HN	219	46	AML		2329	32.47			66	0.1				

October 5 2011 Hour: 17:36 23.3 Lat: 36.64N Lon: 9.88W Depth: 13F Agency: IGL Regional
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	132	56	EP		1736	43.89	0.01							1.0

October 5 2011 Hour: 23:52 20.2 Lat: 57.88N Lon: 32.56W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5MB IGL Rms: 0.1 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2719	131	EP		2357	39.28	0.08							1.0
GGNV	BZ	2719	131	AMb		2357	42.99			306	1.5				
MORF	BZ	2876	132	EP		2357	52.09	-0.04							1.0
MORF	BZ	2876	132	AMb		2358	2.68			144	1.8				
MORF	BE	2876	132	ES		24	2	23.01	-0.04						1.0

October 6 2011 Hour: 0:39 32.8 Lat: 57.88N Lon: 32.56W Depth: 10F Agency: IGL Distant
Magnitudes: 5.4MB IGL Rms: 0.2 secs

REYKJANES RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2719	131	EP		044	51.54	-0.26							1.0
GGNV	BZ	2719	131	AMb		044	56.28			265	1.5				
GGNV	BN	2719	131	ES		049	13.32	0.26							1.0
MORF	BZ	2876	132	EP		045	4.55	-0.18							1.0
MORF	BZ	2876	132	AMb		045	12.04			118	2.1				
MORF	BE	2876	132	ES		049	35.82	0.17							1.0

October 6 2011 Hour: 7:37 4.0 Lat: 9.71N Lon: 138.29E Depth: 36F Agency: IGL Distant
Magnitudes: 5.8MS IGL Rms: 0.1 secs

STATE OF YAP, MICRONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ13699	330	EP			755	56.49	0.13							1.0
GGNV	BZ13699	330	EPP			757	36.03	-0.07							1.0
GGNV	BZ13699	330	AMS			854	24.00			3213	20.2				
MORF	BZ13791	328	EP			755	57.88	-0.15							1.0
MORF	BZ13791	328	EPP			757	41.86	0.09							1.0
MORF	BN13791	328	AMS			852	34.00			1475	17.3				

October 6 2011 Hour: 11:12 28.7 Lat: 24.18S Lon: 64.25W Depth: 10F Agency: IGL Distant
Magnitudes: 6.0MS IGL Rms: 0.1 secs

JUJUY, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8952	42	EP		1124	41.12	0.17							1.0
MORF	BN	8952	42	ES		1134	48.02	-0.10							1.0
MORF	BZ	8952	42	AMS		1159	29.97			7810	22.6				
GGNV	BZ	9021	41	EP		1124	44.24	0.12							1.0
GGNV	BN	9021	41	ES		1134	54.15	-0.18							1.0
GGNV	BZ	9021	41	AMS		1158	21.20			6781	18.8				

October 6 2011 Hour: 17:23 18.0 Lat: 36.39N Lon: 11.16W 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	246	65	EP		1723	51.20	-0.07							1.0
MORF	HE	246	65	ES		1724	15.66	0.07							1.0
MORF	HN	246	65	AML		1724	17.47			6	0.3				

October 6 2011 Hour: 19:31 25.7 Lat: 38.67N Lon: 8.45W Depth: 3F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.0 secs
E VENDAS NOVAS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	152	187	EP		1931	49.79	-0.05							1.0
MORF	HN	152	187	ES		1932	7.49	0.05							1.0
MORF	HN	152	187	AML		1932	8.62			32	0.4				

October 7 2011 Hour: 8:58 30.0 Lat: 32.39S Lon: 178.90W Depth: 40F Agency: IGL Distant
Magnitudes: 6.2MS IGL Rms: 0.1 secs
SOUTH OF KERMADEC ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ18855		50	EP		918	32.46	-0.01							1.0
GGNV	BZ18855		50	EPP		923	36.20	0.09							1.0
GGNV	BZ18855		50	AMS		1044	43.51			3043	18.2				
MORF	BZ18974		56	EP		918	33.12	-0.06							1.0
MORF	BZ18974		56	EPP		923	41.53	-0.02							1.0
MORF	BZ18974		56	AMS		1041	11.35			2651	21.9				

October 7 2011 Hour: 17:34 14.9 Lat: 37.33N Lon: 8.51W Depth: 13F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.0 secs
NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	258	EP		1734	17.88	-0.01							1.0
MORF	HN	13	258	ES		1734	20.08	0.01							1.0
MORF	HN	13	258	AML		1734	20.62				217	0.2			

October 8 2011 Hour: 8:53 11.8 Lat: 20.54S Lon: 173.19W Depth: 6F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.0 secs
TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17498		34	EP		913	7.88	-0.01							1.0
GGNV	BZ17498		34	EPP		917	18.30	0.03							1.0
GGNV	BZ17498		34	AMS		1021	10.12			1878	15.8				
MORF	BZ17643		36	EP		913	9.54	-0.06							1.0
MORF	BZ17643		36	EPP		917	25.55	0.04							1.0
MORF	BZ17643		36	AMS		1019	58.24			1388	19.0				

October 8 2011 Hour: 23: 5 54.6 Lat: 37.31N Lon: 8.58W Depth: 16F Agency: IGL Regional
Magnitudes: 0.6ML IGL Rms: 0.0 secs
SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	266	EP		23 5	57.43	-0.02							1.0
MORF	HN	6	266	ES		23 5	59.53	0.02							1.0
MORF	HN	6	266	AML		23 6	0.06				21	0.3			

October 11 2011 Hour: 23:35 42.4 Lat: 36.56N Lon: 9.79W Depth: 16F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	131	50	EP		2336	2.59	0.00							1.0
MORF	HN	131	50	ES		2336	17.32	0.00							1.0
MORF	HN	131	50	AML		2336	18.31				23	0.2			

October 12 2011 Hour: 22:12 50.5 Lat: 37.31N Lon: 8.59W Depth: 16F Agency: IGL Regional
Magnitudes: 0.2ML IGL Rms: 0.1 secs
W MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	266	EP		2212	53.20	-0.09							1.0
MORF	HN	5	266	ES		2212	55.41	0.09							1.0
MORF	HN	5	266	AML		2212	56.25				8	0.2			

October 12 2011 Hour: 23:20 48.4 Lat: 36.77N Lon: 9.67W Depth: 17F Agency: IGL Regional
Magnitudes: 1.1ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	108	56	EP		2321	5.40	-0.15							1.0
MORF	HN	108	56	ES		2321	18.22	0.15							1.0
MORF	HN	108	56	AML		2321	19.15			4	0.2				

October 13 2011 Hour: 0:56 42.1 Lat: 37.27N Lon: 8.55W 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	10	294	EP		056	44.06	-0.06							1.0
MORF	HE	10	294	ES		056	45.63	0.06							1.0
MORF	HE	10	294	AML		056	46.14			36	0.2				

October 13 2011 Hour: 3:16 29.9 Lat: 9.38S Lon: 114.63E Depth: 35F Agency: IGL Distant
Magnitudes: 5.6MS IGL Rms: 0.0 secs
SOUTH OF BALI, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ13576	308	EP			335	20.42	0.05							1.0
MORF	BZ13576	308	AMS			441	37.42			1280	18.6				

October 13 2011 Hour: 4:13 58.7 Lat: 43.44N Lon: 127.15W Depth: 10F Agency: IGL Distant
Magnitudes: 5.0MB IGL Rms: 0.1 secs
OFF COAST OF OREGON Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9132	45	EP		426	19.81	-0.05							1.0
MORF	BZ	9132	45	AMB		426	22.04			31	1.8				

October 13 2011 Hour: 7:1 12.7 Lat: 35.70N Lon: 10.08W Depth: 31F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs
AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	219	35	EP		7	1	42.63	-0.13						1.0
MORF	HN	219	35	ES		7	2	4.82	0.13						1.0
MORF	HE	219	35	AML		7	2	5.94			5	0.1			

October 13 2011 Hour: 12:32 39.7 Lat: 37.99N Lon: 2.46W Depth: 11F Agency: IGL Regional
Magnitudes: 2.1ML IGL Rms: 0.1 secs
SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	551	264	EP		1233	52.22	0.05							1.0
MORF	HN	551	264	ES		1234	45.01	-0.05							1.0
MORF	HN	551	264	AML		1234	47.07				3	0.4			

October 13 2011 Hour: 13:42 52.7 Lat: 36.61N Lon: 8.60W Depth: 19F 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	77	357	EP		1343	5.32	0.09							1.0
MORF	HE	77	357	ES		1343	14.28	-0.09							1.0
MORF	HN	77	357	AML		1343	17.07			204	0.3				

October 13 2011 Hour: 15:6 16.1 Lat: 6.64S Lon: 75.49W Depth: 17F Agency: IGL Distant
Magnitudes: 5.3MS IGL Rms: 0.0 secs
NORTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8459	49	EP		1518	2.54	-0.03							1.0
MORF	BZ	8459	49	AMS		1549	17.01			1150	16.4				

October 13 2011 Hour: 20:30 4.9 Lat: 36.70N Lon: 7.14W Depth: 17F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	150	297	EP		2030	27.37	-0.04							1.0
MORF	HN	150	297	ES		2030	43.89	0.04							1.0
MORF	HN	150	297	AML		2030	44.73			3	0.1				

October 14 2011 Hour: 3:35 13.5 Lat: 6.60S Lon: 147.99E Depth: 40F Agency: IGL Distant
Magnitudes: 6.9MS IGL Rms: 0.1 secs

EASTERN NEW GUINEA REGION, PAPUA NEW GUINEA Net: GFZ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15799	330	EP			354	40.52	0.14							1.0
GGNV	BZ15799	330	AMS			5 2	32.96			27644	16.7				
MORF	BZ15892	329	EP			354	41.79	-0.14							1.0
MORF	BZ15892	329	AMS			5 0	26.28			15444	22.8				

October 14 2011 Hour: 3:49 8.8 Lat: 36.34N Lon: 8.99W Depth: 11F 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	111	16	EP		349	26.35	-0.06							1.0
MORF	HE	111	16	ES		349	39.34	0.06							1.0
MORF	HE	111	16	AML		349	41.61			28	0.3				

October 14 2011 Hour: 4:11 13.0 Lat: 38.68N Lon: 8.47W Depth: 1F Agency: IGL Regional
Magnitudes: 2.0ML 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
MORF	HZ	153	186	EP		411	37.59	0.12							1.0
MORF	HN	153	186	ES		411	55.18	-0.12							1.0
MORF	HN	153	186	AML		411	56.78			19	0.2				

October 14 2011 Hour: 6:10 15.5 Lat: 54.11N Lon: 123.72E Depth: 15F Agency: IGL Distant
Magnitudes: 6.1MS IGL Rms: 0.0 secs

AMURSKAYA OBLAST', RUSSIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8901	323	EP		622	24.67	-0.03							1.0
MORF	BN	8901	323	ES		632	29.20	0.03							1.0
MORF	BE	8901	323	AMS		656	8.29			7977	18.7				

October 14 2011 Hour: 17:31 9.0 Lat: 36.51N Lon: 8.00W Depth: 17F Agency: IGL Regional
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	106	327	EP		1731	25.71	-0.01							1.0

October 14 2011 Hour: 17:45 53.8 Lat: 36.32N Lon: 9.38W Depth: 5F 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	127	31	EP		1746	14.05	-0.10							1.0
MORF	HN	127	31	ES		1746	29.13	0.10							1.0
MORF	HN	127	31	AML		1746	30.63			9	0.3				

October 16 2011 Hour: 1:0 14.1 Lat: 35.98N Lon: 10.34W Depth: 31F Agency: IGL Regional
Magnitudes: 2.5ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	211	45	EP		1 0	43.10	0.02							1.0
MORF	HN	211	45	ES		1 1	4.21	-0.02							1.0
MORF	HN	211	45	AML		1 1	4.90			34	0.3				

October 16 2011 Hour: 17:47 13.0 Lat: 36.78N Lon: 9.40W Depth: 24F 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	89	49	EP		1747	27.01	-0.11							1.0
MORF	HN	89	49	ES		1747	37.51	0.11							1.0
MORF	HN	89	49	AML		1747	38.29			36	0.1				

October 17 2011 Hour: 9:17 54.9 Lat: 36.96N Lon: 10.78W Depth: 26F 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	193	78	EP		918	22.12	0.10							1.0
MORF	HE	193	78	ES		918	41.70	-0.10							1.0
MORF	HN	193	78	AML		918	43.26			21	0.2				

October 18 2011 Hour: 5: 5 5.7 Lat: 5.87S Lon: 151.00E Depth: 21F Agency: IGL Distant
Magnitudes: 5.9MS IGL Rms: 0.2 secs
NEW BRITAIN REGION, PAPUA NEW GUINEA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15883	334	EP			524	36.86	0.19							1.0
GGNV	BN15883	334	AMS			631	8.46			2466	19.8				
MORF	BZ15987	332	EP			524	38.18	-0.19							1.0
MORF	BZ15987	332	AMS			629	2.05			1662	17.8				

October 18 2011 Hour: 13:11 34.7 Lat: 37.30N Lon: 8.56W Depth: 10F Agency: IGL Regional
Magnitudes: 0.9ML IGL Rms: 0.1 secs
SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	275	EP		1311	36.73	-0.07							1.0
MORF	HN	8	275	ES		1311	38.43	0.07							1.0
MORF	HN	8	275	AML		1311	38.88			55	0.2				

October 18 2011 Hour: 13:32 9.1 Lat: 37.31N Lon: 8.58W Depth: 11F Agency: IGL Regional
Magnitudes: 0.3ML 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	HN	6	266	ES		1332	12.84	0.06							1.0
MORF	HN	6	266	AML		1332	13.50			16	0.1				
MORF	HZ	6	266	EP		1332	11.17	-0.06							1.0

October 19 2011 Hour: 0:32 59.8 Lat: 36.78N Lon: 11.17W 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	232	75	EP		033	31.50	0.14							1.0
MORF	HE	232	75	ES		033	54.24	-0.14							1.0
MORF	HE	232	75	AML		033	55.60			17	0.2				

October 19 2011 Hour: 1:49 28.2 Lat: 36.28N Lon: 9.04W Depth: 12F 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	17	EP		149	47.01	0.05							1.0
MORF	HN	119	17	ES		150	0.59	-0.05							1.0
MORF	HN	119	17	AML		150	1.56			20	0.1				

October 19 2011 Hour: 10:40 41.7 Lat: 32.29S Lon: 13.35W Depth: 10F Agency: IGL Distant
Magnitudes: 5.5MB IGL Rms: 0.0 secs
SOUTHERN MID-ATLANTIC RIDGE Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF BZ 7715 4 EP 1051 49.50-0.01 1.0
 MORF BZ 7715 4 AMb 1051 55.62 134 2.1

October 19 2011 Hour: 23:39 18.6 Lat: 37.17N Lon: 13.85W Depth: 0 Agency: IGL Regional
Magnitudes: 2.6ML IGL Rms: 0.2 secs
AZORES-CAPE ST. VINCENT RIDGE Net: MAD
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF HZ 462 86 EP 2340 21.11-0.18 1.0
 MORF HN 462 86 ES 2341 7.28 0.18 1.0
 MORF HN 462 86 AML 2341 9.07 13 0.4

October 20 2011 Hour: 1:51 49.3 Lat: 37.59N Lon: 9.18W Depth: 25F Agency: IGL Regional
Magnitudes: 1.5ML 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 56 124 EP 151 58.89 0.06 1.0
 MORF HE 56 124 ES 152 5.77-0.06 1.0
 MORF HE 56 124 AML 152 6.95 22 0.2

October 20 2011 Hour: 18:15 54.6 Lat: 36.62N Lon: 9.80W Depth: 13F Agency: IGL Regional
Magnitudes: 1.7ML IGL Rms: 0.1 secs
WEST OF GIBRALTAR Net: IMP
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF HZ 128 53 EP 1816 14.71 0.12 1.0
 MORF HN 128 53 ES 1816 29.09-0.12 1.0
 MORF HN 128 53 AML 1816 29.90 13 0.1

October 21 2011 Hour: 5:39 8.5 Lat: 36.37N Lon: 4.67W Depth: 19F Agency: IGL Regional
Magnitudes: 3.2ML IGL Rms: 0.0 secs
STRAIT OF GIBRALTAR Net: MAD
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MORF HZ 370 287 EP 539 58.17 0.01 1.0
 MORF HN 370 287 ES 540 34.39-0.01 1.0
 MORF HN 370 287 AML 540 36.11 71 0.1

October 21 2011 Hour: 8: 2 38.0 Lat: 43.89N Lon: 142.48E Depth: 185F Agency: IGL Distant
Magnitudes: 6.0MB IGL 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 BZ10432 338 EP 815 34.10 0.21 1.0
 GGNV BZ10432 338 AMb 815 36.94 208 0.6
 GGNV BN10432 338 ES 825 50.58-0.06 1.0
 MORF BZ10564 337 EP 815 39.55 0.16 1.0
 MORF BZ10564 337 AMb 815 41.15 94 2.0
 MORF BZ10564 337 EPP 819 31.31-0.10 1.0
 MORF BN10564 337 ES 825 56.94-0.22 1.0

October 21 2011 Hour: 17:57 17.0 Lat: 29.00S Lon: 176.18W Depth: 33F Agency: IGL Distant
Magnitudes: 7.8MS IGL Rms: 0.0 secs
KERMADEC ISLANDS REGION Net: NEIC
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 GGNV BZ18412 45 EP 1817 17.50 0.01 1.0
 GGNV BZ18412 45 EPP 1822 3.54 0.04 1.0
 GGNV BZ18412 45 AMS 1923 59.95 143000 21.3
 MORF BZ18540 48 EP 1817 18.48-0.03 1.0
 MORF BZ18540 48 EPP 1822 9.53-0.02 1.0
 MORF BZ18540 48 AMS 1922 3.98 124000 21.9

October 22 2011 Hour: 1:58 58.7 Lat: 36.36N Lon: 9.90W Depth: 30F 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	153	46	EP		159	20.69	0.10							1.0
MORF	HN	153	46	ES		159	36.46	-0.10							1.0
MORF	HN	153	46	AML		159	37.85			6	0.1				

October 22 2011 Hour: 5:21 49.2 Lat: 38.25N Lon: 8.80W Depth: 0 Agency: IGL Regional
Magnitudes: 1.4ML IGL Rms: 0.1 secs
NW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	106	173	EP		522	6.32	0.07							1.0
MORF	HN	106	173	ES		522	18.60	-0.07							1.0
MORF	HN	106	173	AML		522	20.07			8	0.2				

October 22 2011 Hour: 22:14 49.1 Lat: 37.32N Lon: 8.53W Depth: 7F Agency: IGL Regional
Magnitudes: 2.2ML IGL Rms: 0.1 secs
E MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	262	EP		22	1	51.15	-0.10						1.0
MORF	HE	11	262	ES		22	1	52.91	0.10						1.0
MORF	HN	11	262	AML		22	1	53.51		1322	0.2				

October 23 2011 Hour: 3:22 20.1 Lat: 36.41N Lon: 7.95W Depth: 20F Agency: IGL Regional
Magnitudes: 1.3ML IGL Rms: 0.1 secs
STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	328	EP		322	38.14	-0.10							1.0
MORF	HN	117	328	ES		322	51.60	0.10							1.0
MORF	HN	117	328	AML		322	53.10			6	0.3				

October 23 2011 Hour: 10:41 21.7 Lat: 38.86N Lon: 43.48E Depth: 10F Agency: IGL Distant
Magnitudes: 7.2MS IGL Rms: 0.2 secs
EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	4507	287	EP		1049	1.24	0.29							1.0
GGNV	BN	4507	287	ES		1055	10.96	0.00							1.0
GGNV	BE	4507	287	AMS		11	8	32.45		333000	14.3				
MORF	BZ	4514	285	EP		1049	1.27	-0.29							1.0
MORF	BN	4514	285	AMS		11	7	49.75		198000	17.8				

October 23 2011 Hour: 11:32 40.9 Lat: 38.82N Lon: 43.33E Depth: 17F Agency: IGL Distant
Magnitudes: 5.8MB IGL Rms: 0.0 secs
EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	4496	287	EP		1140	18.35	0.05							1.0
GGNV	BZ	4496	287	AMb		1140	20.59			341	0.9				
MORF	BZ	4502	285	EP		1140	18.84	-0.05							1.0
MORF	BZ	4502	285	AMb		1140	20.85			144	1.8				

October 23 2011 Hour: 20:45 36.5 Lat: 38.64N Lon: 43.22E Depth: 10F Agency: IGL Distant
Magnitudes: 6.0MB IGL Rms: 0.3 secs
EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	4493	287	EP		2053	14.94	0.26							1.0
GGNV	BZ	4493	287	AMb		2053	17.32			497	1.3				
MORF	BZ	4498	285	EP		2053	14.94	-0.26							1.0
MORF	BZ	4498	285	AMb		2053	17.59			341	1.9				

October 24 2011 Hour: 15:14 52.9 Lat: 36.42N Lon: 10.41W Depth: 0 Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	185	57	EP		1515	21.27	-0.08							1.0
MORF	HN	185	57	ES		1515	42.23	0.08							1.0
MORF	HN	185	57	AML		1515	43.08			13	0.2				

October 24 2011 Hour: 22: 6 26.6 Lat: 37.33N Lon: 8.54W Depth: 10F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	255	EP		22 6	28.89	-0.04							1.0
MORF	HN	10	255	ES		22 6	30.70	0.04							1.0
MORF	HN	10	255	AML		22 6	31.14			109	0.2				

October 24 2011 Hour: 23:35 24.8 Lat: 37.31N Lon: 1.94W Depth: 11F Agency: IGL Regional
Magnitudes: 1.2ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	595	272	EP		2336	42.55	-0.05							1.0

October 25 2011 Hour: 5:21 17.0 Lat: 36.35N Lon: 9.79W Depth: 6F Agency: IGL Regional
Magnitudes: 1.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	147	43	EP		521	40.23	0.05							1.0
MORF	HN	147	43	ES		521	57.02	-0.05							1.0
MORF	HN	147	43	AML		521	57.90			12	0.2				

October 25 2011 Hour: 14:55 7.8 Lat: 38.85N Lon: 43.60E Depth: 10F Agency: IGL Distant
Magnitudes: 5.8MB IGL Rms: 0.2 secs

EASTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	4517	287	EP		15 2	48.01	0.17							1.0
GGNV	BZ	4517	287	AMb		15 2	50.69			411	1.2				
MORF	BZ	4524	285	EP		15 2	48.28	-0.17							1.0
MORF	BZ	4524	285	AMb		15 2	49.93			105	1.4				

October 26 2011 Hour: 2:31 50.0 Lat: 37.13N Lon: 9.31W Depth: 28F Agency: IGL Regional
Magnitudes: 0.7ML 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	62	71	EP		232	0.45	0.08							1.0
MORF	HE	62	71	ES		232	7.88	-0.08							1.0
MORF	HE	62	71	AML		232	8.96			3	0.2				

October 28 2011 Hour: 1:35 30.4 Lat: 52.04N Lon: 171.51W Depth: 53F Agency: IGL Distant
Magnitudes: 5.8MB IGL Rms: 0.0 secs

FOX ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9973	14	EP		148	22.49	-0.02							1.0
MORF	BZ	9973	14	AMb		148	24.13			107	1.2				

October 28 2011 Hour: 13:32 54.0 Lat: 36.80N Lon: 10.92W Depth: 31F Agency: IGL Regional
Magnitudes: 1.9ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	210	74	EP		1333	22.82	0.04							1.0
MORF	HN	210	74	ES		1333	43.77	-0.04							1.0
MORF	HE	210	74	AML		1333	45.53			8	0.1				

October 28 2011 Hour: 18:54 33.9 Lat: 14.52S Lon: 76.01W Depth: 24F Agency: IGL Distant
Magnitudes: 7.2MS IGL Rms: 0.0 secs

NEAR THE COAST OF CENTRAL PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9076	48	EP		19 6	49.77	0.01							1.0
MORF	BN	9076	48	ESKSac		1917	6.60	0.00							1.0
MORF	BZ	9076	48	AMS		1945	59.60		69078	18.6					
GGNV	BZ	9104	47	EP		19 6	51.00	0.00							1.0
GGNV	BN	9104	47	ESKSac		1917	8.18	0.00							1.0
GGNV	BZ	9104	47	AMS		1939	32.22		190000	20.6					

October 28 2011 Hour: 23:46 4.2 Lat: 14.53S Lon: 75.93W Depth: 20F Agency: IGL Distant
Magnitudes: 5.7MB IGL Rms: 0.0 secs

NEAR THE COAST OF CENTRAL PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9070	48	EP		2358	20.38	0.02							1.0
MORF	BZ	9070	48	AMb		2358	25.12		136	1.5					

October 29 2011 Hour: 4:12 48.1 Lat: 36.52N Lon: 7.59W Depth: 20F Agency: IGL Regional
Magnitudes: 2.2ML 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	HZ	129	313	EP		413	7.72	0.03							1.0
MORF	HN	129	313	ES		413	21.93	-0.03							1.0
MORF	HN	129	313	AML		413	23.10		36	0.2					

October 29 2011 Hour: 19:38 32.5 Lat: 36.38N Lon: 9.82W Depth: 31F 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	146	45	EP		1938	53.40	-0.06							1.0
MORF	HN	146	45	ES		1939	8.83	0.06							1.0
MORF	HN	146	45	AML		1939	9.22		29	0.2					

October 30 2011 Hour: 18:53 44.9 Lat: 25.81S Lon: 70.57W Depth: 31F Agency: IGL Distant
Magnitudes: 5.6MS IGL Rms: 0.1 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9521	45	EP		19 6	20.34	0.06							1.0
MORF	BZ	9521	45	AMS		1943	3.34		2890	21.0					

October 31 2011 Hour: 20:12 29.3 Lat: 36.78N Lon: 10.71W Depth: 31F Agency: IGL Regional
Magnitudes: 2.8ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	192	72	EP		2012	55.89	-0.03							1.0
MORF	HN	192	72	ES		2013	15.41	0.03							1.0
MORF	HN	192	72	AML		2013	15.79		90	0.2					

October 31 2011 Hour: 21:58 17.0 Lat: 32.56N Lon: 105.32E Depth: 16F Agency: IGL Distant
Magnitudes: 5.8MB IGL Rms: 0.0 secs

SICHUAN-GANSU BORDER REGION, CHINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9693	313	EP		2211	2.51	0.03							1.0
MORF	BZ	9693	313	AMb		2211	4.80		95	1.1					

October 31 2011 Hour: 22:13 42.2 Lat: 37.03N Lon: 5.53W Depth: 10F Agency: IGL Regional
Magnitudes: 2.0ML IGL Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	279	277	EP		2214	21.37	0.03							1.0
MORF	HE	279	277	ES		2214	49.90	-0.03							1.0
MORF	HE	279	277	AML		2214	50.76		7	0.3					

