

# Seismological Bulletin

from the

## IGIDL Seismic Network

September to October

2010

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[WWW.IGIDL.UL.PT/SISMOLOGIA\\_NEW.HTM](http://WWW.IGIDL.UL.PT/SISMOLOGIA_NEW.HTM)

## 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 2010 Hour: 9:46 39.9 Lat: 36.62N Lon: 9.75W Depth: 11F 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	124	52	EP		946	59.50	0.04							1.0
MORF	HE	124	52	ES		947	13.89	0.16							1.0
MORF	HE	124	52	AML		947	14.67			5	0.2				
MESJ	HZ	192	45	EP		947	7.86	-0.21							1.0
MESJ	HE	192	45	ES		947	28.60	-0.01							1.0
MESJ	HE	192	45	AML		947	28.97			3	0.1				

September 1 2010 Hour: 18:49 51.2 Lat: 37.13N Lon: 8.74W Depth: 12F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

NW LAGOS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	21	22	EP		1849	55.03	-0.18							1.0
MORF	HE	21	22	ES		1849	58.05	-0.05							1.0
MORF	HE	21	22	AML		1849	58.22			13	0.2				
MESJ	HZ	91	30	EP		1850	5.92	0.18							1.0
MESJ	HE	91	30	ES		1850	16.39	0.07							1.0
MESJ	HE	91	30	AML		1850	17.48			4	0.1				

September 1 2010 Hour: 20:25 44.8 Lat: 38.25N Lon: 8.90W Depth: 4F Agency: IGL Regional  
Magnitudes: 0.3ML IGL Rms: 0.1 secs

NW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	75	127	EP		2025	57.03	0.07							1.0
MESJ	HE	75	127	ES		2026	5.74	-0.07							1.0
MESJ	HE	75	127	AML		2026	6.87			1	0.2				

September 2 2010 Hour: 19: 8 54.6 Lat: 36.62N Lon: 9.76W Depth: 17F 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	125	52	EP		19 9	13.90	-0.03							1.0
MORF	HE	125	52	ES		19 9	27.90	-0.14							1.0
MORF	HE	125	52	AML		19 9	28.69			36	0.2				
MESJ	HZ	192	45	EP		19 9	22.30	0.00							1.0
MESJ	HE	192	45	ES		19 9	42.68	0.17							1.0
MESJ	HN	192	45	AML		19 9	44.21			19	0.1				

September 3 2010 Hour: 4:10 30.1 Lat: 34.53N Lon: 5.67W Depth: 1F Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.2 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	409	320	EP		411	26.26	-0.07							1.0
MORF	HN	409	320	ES		412	7.60	0.26							1.0
MORF	HE	409	320	AML		412	10.31			23	0.3				
MESJ	HZ	433	329	EP		411	29.23	-0.03							1.0
MESJ	HE	433	329	ES		412	12.24	-0.17							1.0
MESJ	HE	433	329	AML		412	14.49			33	0.4				

September 3 2010 Hour: 11:16 9.0 Lat: 51.78N Lon: 176.01W Depth: 51F Agency: IGL Distant  
Magnitudes: 6.3MS IGL Rms: 0.2 secs

ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9903	10	EP		1128	58.46	0.12							1.0
GGNV	BZ	9903	10	EPP		1132	29.18	-0.23							1.0
GGNV	BN	9903	10	AMS		12 5	29.19			11196	26.6				
MESJ	BZ10011	10	EP			1129	2.83	-0.07							1.0
MESJ	BN10011	10	ES			1139	29.72	0.21							1.0
MESJ	BZ10011	10	AMS			12 9	39.18			11333	18.3				
MORF	BZ10064	10	EP			1129	5.05	-0.16							1.0

MORF	BZ10064	10	EPP	1132	41.25	0.24											1.0
MORF	BN10064	10	ES	1139	32.71	0.31											1.0
MORF	BN10064	10	ESS	1146	0.43	-0.46											0.9
MORF	BZ10064	10	AMS	12 6	42.69				12702	22.8							

**September 3 2010 Hour: 16:35 46.2 Lat: 43.53S Lon: 172.12E Depth: 5F Agency: IGL Distant  
Magnitudes: 7.9MS IGL Rms: 0.5 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	BZ19312	174	EP			1655	56.03	-0.39							1.0
MORF	BZ19312	174	AMS			1815	23.50		166000	20.3					
MESJ	BZ19373	177	EP			1655	55.83	-0.73							1.0
MESJ	BZ19373	177	EPP			17 1	21.43	0.17							1.0
MESJ	BE19373	177	ESS			1722	43.39	0.42							1.0
MESJ	BZ19373	177	AMS			1816	41.69		162000	18.4					
GGNV	BZ19461	168	EP			1655	56.33	-0.45							1.0
GGNV	BZ19461	168	EPP			17 1	25.63	0.61							1.0
GGNV	BE19461	168	ESS			1722	50.81	0.37							1.0
GGNV	BZ19461	168	AMS			1814	54.46		129000	19.9					

**September 3 2010 Hour: 22:52 2.8 Lat: 37.19N Lon: 9.02W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.2 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	35	68	EP		2252	9.73	-0.16							1.0
MORF	HE	35	68	ES		2252	15.29	0.20							1.0
MORF	HE	35	68	AML		2252	15.83		31	0.1					
MESJ	HZ	101	44	EP		2252	17.91	-0.21							1.0
MESJ	HN	101	44	ES		2252	29.50	0.17							1.0
MESJ	HN	101	44	AML		2252	29.82		3	0.2					

**September 3 2010 Hour: 23: 1 39.9 Lat: 37.01N Lon: 8.39W Depth: 16F Agency: IGL Regional  
Magnitudes: 0.4ML 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	40	325	EP		23 1	46.71	-0.12							1.0
MORF	HN	40	325	ES		23 1	51.95	0.08							1.0
MORF	HN	40	325	AML		23 1	52.63		3	0.3					
MESJ	HE	93	9	ES		23 2	5.64	0.04							1.0
MESJ	HE	93	9	AML		23 2	6.27		1.00	0.2					

**September 4 2010 Hour: 3:22 8.4 Lat: 37.32N Lon: 8.58W Depth: 17F Agency: IGL Regional  
Magnitudes: 0.2ML 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	6	256	EP		322	11.32	-0.05							1.0
MORF	HN	6	256	ES		322	13.58	0.05							1.0
MORF	HE	6	256	AML		322	15.23		7	0.8					

**September 4 2010 Hour: 4: 6 35.5 Lat: 43.23N Lon: 0.60W Depth: 2F Agency: IGL Regional  
Rms: 0.2 secs**

**PYRENEES Net: LDG**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	880	230	EP		4 8	28.21	0.15							1.0
MORF	HZ	948	229	EP		4 8	36.03	-0.17							1.0

**September 4 2010 Hour: 7:50 25.4 Lat: 7.84S Lon: 74.33W Depth:154FAgency: IGL Distant  
Magnitudes: 4.9MB IGL Rms: 0.1 secs**

**NORTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8448	49	EP		8 1	55.31	0.10							1.0
MORF	BZ	8448	49	AMb		8 1	57.00		63	1.5					
MESJ	BZ	8505	48	EP		8 1	57.95	-0.10							1.0
MESJ	BZ	8505	48	AMb		8 2	7.88		27	1.3					

September 4 2010 Hour: 8:10 16.1 Lat: 38.36N Lon: 7.89W Depth: 6F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.0 secs

NE VIANA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	65	207	EP		810	26.52	0.00							1.0
MESJ	HE	65	207	ES		810	34.17	0.00							1.0
MESJ	HE	65	207	AML		810	34.94			7	0.1				

September 4 2010 Hour: 8:52 1.0 Lat: 17.27S Lon: 174.00W Depth: 37F Agency: IGL Distant  
Magnitudes: 5.7MS IGL Rms: 0.2 secs

TONGA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17234	29	EP			911	49.14	0.13							1.0
GGNV	BZ17234	29	AMS			1013	26.34			1733	24.4				
MESJ	BZ17361	29	EP			911	50.72	0.14							1.0
MESJ	BZ17361	29	EPP			915	55.54	-0.37							1.0
MESJ	BE17361	29	ESS			935	42.93	0.06							1.0
MESJ	BZ17361	29	AMS			1014	19.37			1011	22.2				
MORF	BZ17386	30	EP			911	51.23	0.30							1.0
MORF	BN17386	30	ESS			935	45.14	-0.28							1.0
MORF	BZ17386	30	AMS			1012	27.27			1143	26.4				

September 4 2010 Hour: 11:30 5.5 Lat: 14.46S Lon: 76.01W Depth: 35F Agency: IGL Distant  
Magnitudes: 5.4MB IGL Rms: 0.2 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 9072	48	EP			1142	19.85	0.24							1.0
MORF	BZ 9072	48	AMB			1142	22.47			125	1.4				
MESJ	BZ 9132	48	EP			1142	22.13	-0.24							1.0
MESJ	BZ 9132	48	AMB			1142	24.43			38	1.1				

September 5 2010 Hour: 3:33 47.1 Lat: 34.93N Lon: 3.03W Depth: 0 Agency: IGL Regional  
Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	567	306	EP		335	2.66	0.13							1.0
MORF	HZ	571	299	EP		335	2.92	-0.13							1.0

September 5 2010 Hour: 8:43 1.2 Lat: 36.80N Lon: 7.47W Depth: 22F 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	HZ	119	298	EP		843	19.23	-0.19							1.0
MORF	HN	119	298	ES		843	32.90	0.19							1.0
MORF	HN	119	298	AML		843	34.34			9	0.2				

September 5 2010 Hour: 8:56 32.2 Lat: 36.38N Lon: 4.68W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.9ML 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	354	298	EP		857	20.57	0.03							1.0
MESJ	HN	354	298	ES		857	55.73	-0.06							1.0
MESJ	HE	354	298	AML		857	57.24			3					
MORF	HE	369	287	ES		857	59.08	0.03							1.0
MORF	HN	369	287	AML		858	0.43			6	0.3				

September 5 2010 Hour: 21:48 8.5 Lat: 36.52N Lon: 7.57W Depth: 23F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.2 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	130	312	ES		2148	41.93	-0.22							1.0
MORF	HE	130	312	AML		2148	42.48			15	0.2				
MESJ	HZ	157	339	EP		2148	31.39	0.07							1.0

MESJ HE 157 339 ES 2148 48.15 0.16 1.0  
 MESJ HE 157 339 AML 2148 50.13 7 0.2

**September 6 2010 Hour: 8:11 34.8 Lat: 37.32N Lon: 8.53W Depth: 8F Agency: IGL Regional  
 Magnitudes: 0.8ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	262	EP		811	36.86	-0.12							1.0
MORF	HE	11	262	ES		811	38.72	0.12							1.0
MORF	HE	11	262	AML		811	39.18			46	0.1				

**September 6 2010 Hour: 10:26 27.9 Lat: 37.30N Lon: 8.58W Depth: 12F Agency: IGL Regional  
 Magnitudes: 0.5ML IGL Rms: 0.1 secs**

**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	276	EP		1026	29.98	-0.21							1.0
MORF	HN	6	276	ES		1026	31.95	0.11							1.0
MORF	HN	6	276	AML		1026	32.34			20	0.2				
MESJ	HZ	68	28	EP		1026	38.86	-0.01							1.0
MESJ	HE	68	28	ES		1026	46.98	0.12							1.0
MESJ	HE	68	28	AML		1026	48.44			2	0.2				

**September 6 2010 Hour: 12:9 21.4 Lat: 38.06N Lon: 8.44W Depth: 10F Agency: IGL Regional  
 Magnitudes: 0.7ML IGL Rms: 0.0 secs**

**SE GRANDOLA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	31	142	EP		12	9	26.68	0.00						1.0
MESJ	HE	31	142	ES		12	9	30.55	0.00						1.0
MESJ	HE	31	142	AML		12	9	31.94			9	0.2			

**September 6 2010 Hour: 15:12 44.8 Lat: 36.85N Lon: 8.71W Depth: 0 Agency: IGL Regional  
 Magnitudes: 1.2ML IGL Rms: 0.3 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	51	6	EP		1512	52.68	-0.31							1.0
MESJ	HZ	118	21	EP		1513	4.20	0.37							1.0
MESJ	HE	118	21	ES		1513	17.69	-0.04							1.0
MESJ	HE	118	21	AML		1513	19.03				5	0.2			

**September 6 2010 Hour: 15:24 38.2 Lat: 36.83N Lon: 8.70W Depth: 0 Agency: IGL Regional  
 Magnitudes: 2.0ML IGL Rms: 0.5 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	53	5	EP		1524	46.34	-0.41							1.0
MESJ	HZ	120	21	EP		1524	58.19	0.67							1.0
MESJ	HE	120	21	ES		1525	11.39	-0.24							1.0
MESJ	HE	120	21	AML		1525	13.11				16	0.4			
MESJ	HN	120	21	AML		1525	14.30				49	0.4			

**September 7 2010 Hour: 0:57 26.1 Lat: 6.96S Lon: 103.65E Depth: 34F Agency: IGL Distant  
 Magnitudes: 5.4MS IGL Rms: 0.2 secs**

**SOUTHWEST OF SUMATRA, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ12410	308	EPP			116	37.80	0.09							1.0
MESJ	BZ12410	308	AMS			219	25.79			801	18.5				
MORF	BZ12456	307	EPP			116	40.49	-0.24							1.0
MORF	BE12456	307	AMS			2	9	7.45			832	23.6			
GGNV	BZ12476	309	EPP			116	42.08	0.15							1.0
GGNV	BE12476	309	AMS			211	26.32				1171	17.9			

September 7 2010 Hour: 2:11 7.6 Lat: 27.14N Lon: 54.60E Depth: 30F Agency: IGL Distant  
Magnitudes: 4.9MB IGL Rms: 0.2 secs

SOUTHERN IRAN Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5915	298	EP		220	22.65	-0.20							1.0
MESJ	BZ	5915	298	AMb		220	25.15			34	1.1				
MORF	BZ	5961	298	EP		220	26.17	0.20							1.0
MORF	BZ	5961	298	AMb		220	29.38			41	2.8				

September 7 2010 Hour: 15:10 18.8 Lat: 37.37N Lon: 14.24W Depth: 1 Agency: IGL Regional  
Magnitudes: 3.6ML IGL Rms: 0.3 secs

AZORES-CAPE ST. VINCENT REGION Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	495	89	EP		1511	25.62	0.24							1.0
MORF	HN	495	89	ES		1512	13.79	-0.23							1.0
MORF	HE	495	89	AML		1512	15.35			152	0.3				
MESJ	HZ	534	83	EP		1511	30.43	0.38							1.0
MESJ	HE	534	83	AML		1512	23.82			63	0.2				
MESJ	HE			ES		1512	22.09								
GGNV	HZ	471	70	EP		1511	22.51								
GGNV	HE	471	70	AML		1512	9.45			111	0.1				
GGNV	HE			ES		1512	8.86								

September 7 2010 Hour: 15:41 40.8 Lat: 39.48N Lon: 73.82E Depth: 40F Agency: IGL Distant  
Rms: 0.0 secs

KYRGYSTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6877	297	EP		1551	56.05	0.03							1.0

September 7 2010 Hour: 15:41 57.0 Lat: 37.40N Lon: 21.19W Depth: 10F Agency: IGL Regional  
Magnitudes: 3.8ML IGL Rms: 0.5 secs

AZORES ISLANDS REGION Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HE	1066	78	ES		1545	47.57	-0.56							1.0
GGNV	HE	1066	78	AML		1545	48.52			128	0.2				
MORF	HZ	1110	87	EP		1544	15.65	-0.22							1.0
MORF	HN	1110	87	ES		1545	57.36	0.15							1.0
MORF	HN	1110	87	AML		1545	58.03			18	0.5				
MESJ	HE	1145	84	ES		1546	4.98	0.71							0.9
MESJ	HE	1145	84	AML		1546	6.45			20	0.6				

September 7 2010 Hour: 19: 2 23.7 Lat: 36.87N Lon: 8.68W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.3ML IGL Rms: 0.4 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	49	3	EP		19 2	31.00	-0.52							1.0
MESJ	HZ	115	21	EP		19 2	42.45	0.19							1.0
MESJ	HE	115	21	ES		19 2	56.17	0.36							1.0
MESJ	HE	115	21	AML		19 2	57.80			63	0.4				

September 7 2010 Hour: 19: 8 26.4 Lat: 36.93N Lon: 8.67W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.5 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	2	EP		19 8	32.43	-0.72							1.0
MESJ	HZ	109	21	EP		19 8	44.25	0.34							1.0
MESJ	HE	109	21	ES		19 8	57.11	0.42							1.0
MESJ	HE	109	21	AML		19 9	0.32			6	0.4				

September 8 2010 Hour: 10:32 50.1 Lat: 32.38N Lon: 3.49W Depth: 15F Agency: IGL Regional  
Rms: 0.4 secs

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	722	321	EP		1034	22.35	-0.40							1.0
MESJ	HZ	743	326	EP		1034	25.64	0.41							1.0

September 8 2010 Hour: 11:37 39.3 Lat: 20.70S Lon: 169.81E Depth: 54F Agency: IGL Distant  
Magnitudes: 6.4MS 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	BZ18029	357	EP			1157	33.74	-0.15							1.0
GGNV	BZ18029	357	AMS			1311	32.79			7437	23.1				
MESJ	BZ18119	355	EP			1157	34.70	-0.04							1.0
MESJ	BZ18119	355	AMS			13 8	20.43			4826	26.5				
MORF	BZ18182	356	EP			1157	35.53	0.19							1.0
MORF	BZ18182	356	AMS			1315	38.10			6105	21.4				

September 8 2010 Hour: 18:19 47.8 Lat: 37.33N Lon: 8.58W Depth: 17F Agency: IGL Regional  
Magnitudes: 0.5ML 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	7	247	EP		1819	50.71	-0.07							1.0
MORF	HN	7	247	ES		1819	52.89	-0.07							1.0
MORF	HE	7	247	AML		1819	53.17			15	0.1				
MESJ	HN	65	29	ES		1820	6.22	0.15							1.0
MESJ	HN	65	29	AML		1820	6.66			2	0.2				

September 8 2010 Hour: 20:40 42.3 Lat: 35.06N Lon: 3.16W Depth: 0F 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
MESJ	HZ	548	306	EP		2041	55.47	-0.04							1.0

September 8 2010 Hour: 23:22 28.1 Lat: 36.54N Lon: 6.96W Depth: 20F Agency: IGL Regional  
Magnitudes: 2.1ML IGL  
Rms: 0.1 secs

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	173	300	EP		2322	53.05	-0.13							1.0
MORF	HN	173	300	ES		2323	11.33	-0.15							1.0
MORF	HN	173	300	AML		2323	11.99			26	0.2				
MESJ	HZ	183	323	EP		2322	54.47	0.14							1.0
MESJ	HE	183	323	ES		2323	13.61	0.14							1.0
MESJ	HE	183	323	AML		2323	14.96			11	0.3				

September 9 2010 Hour: 7:28 2.3 Lat: 37.01S Lon: 73.37W Depth: 18F Agency: IGL Distant  
Magnitudes: 6.4MS IGL  
Rms: 0.2 secs

**OFFSHORE BIO-BIO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10574	46	EP			741	23.96	-0.09							1.0
MORF	BZ10574	46	EPP			745	13.49	-0.22							1.0
MORF	BN10574	46	ES			751	59.04	0.19							1.0
MORF	BZ10574	46	AMS			822	57.06			13049	19.9				
MESJ	BZ10643	46	EP			741	26.77	0.00							1.0
MESJ	BE10643	46	ES			752	1.84	-0.19							1.0
MESJ	BZ10643	46	AMS			823	25.31			13526	18.6				
GGNV	BZ10650	45	EP			741	27.19	0.17							1.0
GGNV	BN10650	45	ES			752	2.46	0.12							1.0
GGNV	BZ10650	45	AMS			822	45.91			12915	17.0				



**September 9 2010 Hour: 10:31 5.3 Lat: 59.46N Lon: 30.22W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.1 secs**

**REYKJANES RIDGE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2745	138	EP		1036	26.56	0.16							1.0
GGNV	BZ	2745	138	AMb		1036	31.41			267	2.3				
MESJ	BZ	2868	137	EP		1036	36.40	-0.09							1.0
MESJ	BZ	2868	137	AMb		1036	41.34			158	1.8				
MORF	BZ	2905	138	EP		1036	39.47	-0.07							1.0
MORF	BZ	2905	138	AMb		1036	43.19			114	1.3				

**September 9 2010 Hour: 20:21 58.5 Lat: 37.14N Lon: 9.98W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	120	81	EP		2022	17.52	0.11							1.0
MORF	HE	120	81	ES		2022	31.17	-0.02							1.0
MORF	HE	120	81	AML		2022	32.81			78	0.2				
MESJ	HZ	174	63	EP		2022	24.35	-0.15							1.0
MESJ	HE	174	63	ES		2022	43.52	0.06							1.0
MESJ	HE	174	63	AML		2022	46.45			8	0.2				

**September 9 2010 Hour: 23:30 27.1 Lat: 38.52N Lon: 7.03W Depth: 1 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	129	234	EP		2330	47.85	-0.03							1.0
MESJ	HN	129	234	ES		2331	3.06	0.03							1.0
MESJ	HN	129	234	AML		2331	4.44			3	0.3				

**September 10 2010 Hour: 0:9 58.1 Lat: 36.81N Lon: 7.43W Depth: 26F Agency: IGL Regional**  
**Magnitudes: 3.0ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	122	297	EP		010	16.27	-0.10							1.0
MORF	HE	122	297	ES		010	29.53	-0.15							1.0
MORF	HN	122	297	AML		010	30.27			318	0.0				
MESJ	HZ	134	329	EP		010	18.01	0.15							1.0
MESJ	HN	134	329	ES		010	32.36	0.10							1.0
MESJ	HE	134	329	AML		010	33.13			171	0.1				

**September 10 2010 Hour: 2:6 36.3 Lat: 35.87N Lon: 7.53W Depth: 31F 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	188	328	EP		2 7	2.43	-0.05							1.0
MORF	HN	188	328	ES		2 7	21.48	-0.11							1.0
MORF	HN	188	328	AML		2 7	22.76			5	0.2				
MESJ	HZ	227	344	EP		2 7	7.64	0.38							1.0
MESJ	HE	227	344	ES		2 7	29.65	-0.21							1.0
MESJ	HE	227	344	AML		2 7	31.49			3	0.2				

**September 10 2010 Hour: 2:30 59.7 Lat: 37.04N Lon: 5.09W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.5ML 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	291	289	EP		231	40.17	0.00							1.0

September 10 2010 Hour: 6:59 29.0 Lat: 37.06N Lon: 10.88W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	200	81	EP		659	59.16	0.01							1.0
MORF	HN	200	81	ES		7 0	21.19	-0.01							1.0
MORF	HN	200	81	AML		7 0	22.41			7	0.3				

September 10 2010 Hour: 15:48 16.4 Lat: 36.61N Lon: 9.78W Depth: 17F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	127	52	EP		1548	35.90	-0.04							1.0
MORF	HE	127	52	ES		1548	50.28	0.04							1.0
MORF	HN	127	52	AML		1548	51.17			10	0.1				
MESJ	HZ	194	45	EP		1548	44.31	0.01							1.0

September 10 2010 Hour: 21:37 51.3 Lat: 37.95N Lon: 9.49W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.2ML IGL 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
MORF	HZ	103	134	EP		2138	7.50	-0.03							1.0
MORF	HE	103	134	ES		2138	19.10	-0.31							1.0
MORF	HE	103	134	AML		2138	19.67			2					
MESJ	HE	112	96	ES		2138	21.88	0.34							1.0
MESJ	HN	112	96	AML		2138	22.30			9	0.2				

September 11 2010 Hour: 1:52 48.1 Lat: 36.74N Lon: 12.84W Depth: 50F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	378	79	EP		153	36.99	-0.05							1.0
MESJ	HZ	427	72	EP		153	43.05	0.06							1.0
MESJ	HE	427	72	ES		154	23.07	0.00							1.0
MESJ	HE	427	72	AML		154	24.49			2	0.3				

September 11 2010 Hour: 3:57 20.7 Lat: 34.98N Lon: 3.04W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.9ML IGL Rms: 0.2 secs

MOROCCO Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	563	306	EP		358	35.44	-0.18							1.0
MESJ	HN	563	306	ES		359	30.29	-0.03							1.0
MESJ	HN	563	306	AML		359	34.88			15	0.2				
MORF	HZ	567	299	EP		358	36.10	-0.10							1.0
MORF	HE	567	299	ES		359	31.64	0.31							1.0
MORF	HN	567	299	AML		359	35.65			18	0.5				

September 11 2010 Hour: 6:44 14.9 Lat: 37.36N Lon: 8.52W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.4ML 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	243	EP		644	17.52	-0.04							1.0
MORF	HN	13	243	ES		644	19.58	0.04							1.0
MORF	HN	13	243	AML		644	19.97			128	0.1				

September 11 2010 Hour: 12: 8 27.1 Lat: 38.76N Lon: 9.48W Depth: 13F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

NW CASCAIS, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	150	132	EP		12 8	49.88	-0.06							1.0
MESJ	HN	150	132	ES		12 9	6.66	0.06							1.0
MESJ	HE	150	132	AML		12 9	7.60			2	0.2				

September 12 2010 Hour: 4:7 10.5 Lat: 42.88N Lon: 0.29E Depth: 0F Agency: IGL Regional  
Rms: 0.0 secs

**PYRENEES Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	913	235	EP		4 9	7.16	0.01							1.0

September 12 2010 Hour: 12:9 6.5 Lat: 35.73N Lon: 4.67W Depth: 74F Agency: IGL Regional  
Rms: 0.0 secs

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	394	307	EP		12 9	57.69	0.01							1.0
MORF	HZ	397	297	EP		12 9	58.09	-0.01							1.0

September 12 2010 Hour: 14:15 4.6 Lat: 36.54N Lon: 9.78W Depth: 29F 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	132	49	EP		1415	23.99	0.08							1.0
MORF	HE	132	49	ES		1415	38.02	0.03							1.0
MORF	HE	132	49	AML		1415	38.75			26	0.2				
MESJ	HZ	200	43	EP		1415	32.25	-0.11							1.0
MESJ	HN	200	43	ES		1415	52.58	-0.01							1.0
MESJ	HN	200	43	AML		1415	53.71			13	0.2				

September 12 2010 Hour: 18:17 19.6 Lat: 34.98N Lon: 3.12W Depth: 1 Agency: IGL Regional  
Rms: 0.1 secs

**MOROCCO Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	557	306	EP		1818	33.81	0.12							1.0

September 12 2010 Hour: 21:17 3.0 Lat: 36.53N Lon: 7.61W Depth: 29F Agency: IGL Regional  
Magnitudes: 1.9ML 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	127	313	EP		2117	21.63	-0.05							1.0
MORF	HE	127	313	ES		2117	35.28	-0.01							1.0
MORF	HE	127	313	AML		2117	36.27			23	0.1				
MESJ	HE	155	340	ES		2117	41.42	0.06							1.0
MESJ	HN	155	340	AML		2117	42.22			12	0.2				

September 13 2010 Hour: 5:47 49.2 Lat: 41.52N Lon: 142.04E Depth: 60F Agency: IGL Distant  
Magnitudes: 5.5MS IGL Rms: 0.3 secs

**HOKKAIDO, JAPAN REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ10664	338	EP			6 1	9.23	0.17							1.0
GGNV	BZ10664	338	EPP			6 5	1.95	-0.03							1.0
GGNV	BZ10664	338	AMS			649	30.05			2163	19.2				
MESJ	BZ10724	337	EP			6 1	11.75	0.19							1.0
MESJ	BZ10724	337	EPP			6 5	5.88	-0.33							1.0
MESJ	BE10724	337	ES			611	43.45	0.56							1.0
MESJ	BZ10724	337	AMS			650	14.54			1346	18.3				
MORF	BZ10793	337	EP			6 1	14.25	-0.17							1.0
MORF	BZ10793	337	EPP			6 5	11.06	0.01							1.0
MORF	BE10793	337	ES			611	45.85	-0.37							1.0
MORF	BZ10793	337	AMS			649	26.15			1273	27.2				

September 13 2010 Hour: 7:15 49.6 Lat: 14.69S Lon: 70.96W Depth:177F Agency: IGL Distant  
Magnitudes: 4.8MB IGL Rms: 0.2 secs

**SOUTHERN PERU Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8690	46	EP		727	29.33	0.28							1.0
MORF	BZ	8690	46	AMb		727	35.17			58	1.7				
MORF	BE	8690	46	ES		737	8.86	-0.11							1.0

MESJ BZ 8752	46	EP	727	32.03-0.01														1.0
MESJ BZ 8752	46	AMb	727	36.96					48	2.2								
MESJ BE 8752	46	ES	737	14.64-0.15														1.0

**September 13 2010 Hour: 16:16 44.6 Lat: 36.63N Lon: 7.53W Depth: 18F 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
MESJ	HZ	148	336	EP		1617	6.60-0.08								1.0
MESJ	HE	148	336	ES		1617	22.85 0.08								1.0
MESJ	HE	148	336	AML		1617	24.10		6	0.1					

**September 14 2010 Hour: 2:31 1.6 Lat: 36.83N Lon: 6.62W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.3 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	181	309	EP		231	28.51 0.25								1.0
MESJ	HN	181	309	ES		231	48.01 0.28								1.0
MESJ	HN	181	309	AML		231	49.41		2	0.3					
MORF	HZ	188	287	EP		231	28.95-0.27								1.0
MORF	HE	188	287	ES		231	49.12-0.27								1.0
MORF	HE	188	287	AML		231	49.79		3	0.1					

**September 14 2010 Hour: 12: 7 13.1 Lat: 43.15N Lon: 1.12W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.1 secs**

**PYRENEES Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	842	228	EP		12 9	0.58-0.06								1.0
MESJ	HN	842	228	ES		1210	19.36 0.19								1.0
MESJ	HN	842	228	AML		1210	22.61		3	0.3					
MORF	HZ	911	227	EP		12 9	8.69-0.14								1.0

**September 14 2010 Hour: 14:34 56.1 Lat: 31.62N Lon: 41.05W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 4.4MS 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
GGNV	BZ	2995	66	EP		1440	37.62 0.06								1.0
GGNV	BN	2995	66	AMS		1447	5.36		809	20.9					
MORF	BZ	3028	69	EP		1440	40.23-0.10								1.0
MORF	BZ	3028	69	AMS		1448	52.13		1405	19.8					
MESJ	BZ	3069	68	EP		1440	43.60 0.04								1.0
MESJ	BZ	3069	68	AMS		1449	13.76		1002	19.6					

**September 14 2010 Hour: 16:59 15.6 Lat: 36.48N Lon: 10.98W Depth: 0 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	227	65	EP		1659	49.21-0.08								1.0
MORF	HN	227	65	ES		17 0	13.79-0.09								1.0
MORF	HN	227	65	AML		17 0	14.90		3	0.1					
MESJ	HE	288	58	ES		17 0	27.08 0.17								1.0
MESJ	HE	288	58	AML		17 0	29.20		1	0.2					

**September 14 2010 Hour: 19: 9 22.2 Lat: 37.31N Lon: 8.57W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**

**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	267	EP		19 9	25.03 0.09								1.0
MORF	HE	7	267	ES		19 9	26.84-0.09								1.0
MORF	HN	7	267	AML		19 9	27.01		55	0.2					

**September 14 2010 Hour: 23:31 56.7 Lat: 21.06N Lon: 106.22W Depth: 5F Agency: IGL Distant**  
**Magnitudes: 5.0MS IGL Rms: 0.2 secs**

**OFFSHORE NAYARIT, MEXICO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9167	52	EP		2344	20.25	0.25							1.0
GGNV	BE	9167	52	AMS		2421	44.42		1282	20.6					
MORF	BZ	9264	53	EP		2344	24.49	-0.13							1.0
MORF	BZ	9264	53	AMS		2425	36.75		522	22.5					
MESJ	BZ	9278	52	EP		2344	25.11	-0.10							1.0
MESJ	BZ	9278	52	AMS		2423	28.31		616	18.4					

**September 15 2010 Hour: 3:24 38.2 Lat: 37.36N Lon: 3.55W Depth: 30F 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	416	279	EP		325	32.67	-0.01							1.0

**September 15 2010 Hour: 20:42 41.7 Lat: 36.65N Lon: 8.36W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.0ML 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	77	341	EP		2042	53.91	-0.22							1.0
MORF	HN	77	341	ES		2043	3.39	0.17							1.0
MORF	HN	77	341	AML		2043	4.34		7	0.2					
MESJ	HZ	133	5	EP		2043	2.72	0.25							1.0
MESJ	HE	133	5	ES		2043	17.46	-0.20							1.0
MESJ	HE	133	5	AML		2043	18.19		2	0.1					

**September 16 2010 Hour: 0:53 7.5 Lat: 37.35N Lon: 8.47W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 0.2ML 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	17	253	EP		053	10.01	-0.24							1.0
MORF	HN	17	253	ES		053	12.40	0.16							1.0
MORF	HN	17	253	AML		053	12.68		10	0.2					
MESJ	HE	59	22	ES		053	23.98	0.08							1.0
MESJ	HE	59	22	AML		053	25.06		1	0.3					

**September 16 2010 Hour: 1:54 41.5 Lat: 16.09S Lon: 173.95W Depth: 82F Agency: IGL Distant**  
**Magnitudes: 5.3MS IGL Rms: 0.4 secs**

**TONGA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17244	27	EP			214	24.63	0.57							1.0
MESJ	BN17244	27	ESS			238	2.73	-0.23							1.0
MESJ	BZ17244	27	AMS			316	11.44		348	20.9					
MORF	BZ17271	29	EP			214	24.12	-0.33							1.0
MORF	BN17271	29	AMS			325	54.64		278	10.7					

**September 16 2010 Hour: 2:13 51.7 Lat: 36.32N Lon: 3.71W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 2.5ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	435	294	EP		214	49.65	-0.06							1.0
MESJ	HE	435	294	ES		215	31.90	-0.17							1.0
MESJ	HE	435	294	AML		215	35.10		7	0.6					
MORF	HZ	454	285	EP		214	51.92	-0.15							1.0
MORF	HE	454	285	ES		215	36.54	0.38							1.0
MORF	HE	454	285	AML		215	42.26		15	0.3					

September 16 2010 Hour: 8:34 22.8 Lat: 37.14N Lon: 9.33W Depth: 25F 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	63	73	EP		834	33.15	-0.10							1.0
MORF	HE	63	73	ES		834	41.17	0.25							1.0
MORF	HE	63	73	AML		834	42.18			21	0.2				
MESJ	HZ	125	51	EP		834	41.08	-0.36							1.0
MESJ	HE	125	51	ES		834	55.30	0.21							1.0
MESJ	HE	125	51	AML		834	55.80			3	0.1				

September 16 2010 Hour: 8:39 20.6 Lat: 36.30N Lon: 9.10W Depth: 4F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	119	20	EP		839	39.60	-0.16							1.0
MORF	HN	119	20	ES		839	54.12	0.41							1.0
MORF	HN	119	20	AML		839	55.36			24	0.2				
MESJ	HZ	188	24	EP		839	48.84	-0.20							1.0
MESJ	HE	188	24	ES		840	9.70	-0.07							1.0
MESJ	HN	188	24	AML		840	10.86			4	0.2				

September 16 2010 Hour: 9:34 15.3 Lat: 36.76N Lon: 6.94W Depth: 34F 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	164	292	EP		934	38.17	-0.30							1.0
MORF	HN	164	292	ES		934	55.37	0.01							1.0
MORF	HN	164	292	AML		934	56.39			17	0.3				
MESJ	HZ	165	317	EP		934	38.79	0.21							1.0
MESJ	HE	165	317	ES		934	55.63	0.08							1.0
MESJ	HN	165	317	AML		934	56.69			37	0.1				

September 16 2010 Hour: 10:18 36.3 Lat: 35.08N Lon: 4.03W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.7ML IGL Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	484	302	EP		1019	41.75	0.04							1.0
MORF	HE	484	302	ES		1020	29.58	0.13							1.0
MORF	HE	484	302	AML		1020	32.65			11	0.3				
MESJ	HZ	485	310	EP		1019	41.75	-0.07							1.0
MESJ	HE	485	310	ES		1020	29.54	-0.10							1.0
MESJ	HE	485	310	AML		1020	32.24			18	0.4				

September 16 2010 Hour: 18:21 49.9 Lat: 34.99N Lon: 4.10W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.2 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	484	303	EP		1822	55.23	0.12							1.0
MESJ	HZ	486	312	EP		1822	55.55	0.14							1.0
MESJ	HE	486	312	ES		1823	42.98	-0.27							1.0
MESJ	HE	486	312	AML		1823	44.71			3	0.3				

September 17 2010 Hour: 3:25 29.4 Lat: 21.57S Lon: 67.05W Depth: 168F Agency: IGL Distant  
Magnitudes: 5.1MB IGL Rms: 0.1 secs

POTOSI, BOLIVIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8936	44	EP		337	21.89	0.06							1.0
MORF	BZ	8936	44	AMb		337	24.11			40	1.0				
MESJ	BZ	9002	43	EP		337	24.84	-0.06							1.0
MESJ	BZ	9002	43	AMb		337	27.57			53	0.8				

**September 17 2010 Hour: 12:58 48.3 Lat: 37.04N Lon: 13.28W Depth: 15F Agency: IGL Regional**  
**Magnitudes: 2.1ML 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	412	84	EP		1259	43.48	0.02							1.0
MORF	HE	412	84	ES		13 0	23.52	-0.24							1.0
MORF	HE	412	84	AML		13 0	24.37			6	0.3				
MESJ	HZ	456	77	EP		1259	48.84	0.04							1.0
MESJ	HN	456	77	ES		13 0	33.18	0.19							1.0
MESJ	HE	456	77	AML		13 0	34.99			4	0.2				

**September 17 2010 Hour: 13:21 12.1 Lat: 36.89N Lon: 8.64W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.2 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	46	359	EP		1321	19.46	-0.21							1.0
MORF	HE	46	359	ES		1321	25.27	0.09							1.0
MORF	HN	46	359	AML		1321	26.37			7	0.2				
MESJ	HZ	112	19	EP		1321	30.24	0.24							1.0
MESJ	HE	112	19	ES		1321	42.94	-0.12							1.0
MESJ	HE	112	19	AML		1321	43.87			3	0.2				

**September 17 2010 Hour: 19:21 14.9 Lat: 36.44N Lon: 70.77E Depth:220F Agency: IGL Distant**  
**Magnitudes: 5.4MB 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	6794	297	EP		1931	6.01	0.15							1.0
MESJ	BZ	6794	297	AMb		1931	10.15			267	1.6				
MESJ	BN	6794	297	ES		1939	7.83	-0.06							1.0
GGNV	BZ	6826	299	EP		1931	7.76	0.02							1.0
GGNV	BZ	6826	299	AMb		1931	12.56			304	1.2				
MORF	BZ	6854	297	EP		1931	9.30	-0.23							1.0
MORF	BZ	6854	297	AMb		1931	14.91			179	1.5				
MORF	BN	6854	297	ES		1939	14.89	0.12							1.0

**September 18 2010 Hour: 13:1 25.6 Lat: 36.64N Lon: 9.69W Depth: 15F 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	118	51	EP		13 1	44.14	-0.06							1.0
MORF	HE	118	51	ES		13 1	57.89	0.07							1.0
MORF	HE	118	51	AML		13 1	58.40			9	0.1				
MESJ	HZ	186	44	EP		13 1	52.63	-0.05							1.0
MESJ	HE	186	44	ES		13 2	12.51	0.04							1.0
MESJ	HE	186	44	AML		13 2	13.19			2	0.1				

**September 19 2010 Hour: 5:0 50.2 Lat: 36.88N Lon: 11.33W Depth: 24F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	243	78	EP		5 1	23.64	0.01							1.0
MORF	HN	243	78	ES		5 1	48.09	0.07							1.0
MORF	HN	243	78	AML		5 1	49.40			3	0.1				
MESJ	HZ	295	68	EP		5 1	30.12	0.00							1.0
MESJ	HE	295	68	ES		5 1	59.18	-0.08							1.0
MESJ	HE	295	68	AML		5 2	0.45			0.80	0.2				

September 20 2010 Hour: 3:25 32.3 Lat: 28.08S Lon: 66.51W Depth:188F Agency: IGL Distant  
Magnitudes: 4.8MB IGL Rms: 0.1 secs

CATAMARCA, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9422	43	EP		337	44.96	-0.08							1.0
MORF	BZ	9422	43	AMb		337	51.95			43	2.1				
MESJ	BZ	9490	43	EP		337	48.08	0.08							1.0
MESJ	BZ	9490	43	AMb		337	50.66			38	1.1				

September 20 2010 Hour: 4:32 50.7 Lat: 36.67N Lon: 9.83W Depth: 17F 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	127	56	EP		433	10.16	-0.04							1.0
MORF	HE	127	56	ES		433	24.46	-0.01							1.0
MORF	HE	127	56	AML		433	25.18			7	0.2				
MESJ	HZ	193	47	EP		433	18.29	-0.13							1.0
MESJ	HE	193	47	ES		433	38.88	0.18							1.0
MESJ	HE	193	47	AML		433	40.88			2	0.2				

September 20 2010 Hour: 23: 5 37.8 Lat: 36.66N Lon: 9.73W Depth: 30F 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	120	53	EP		23 5	55.53	-0.06							1.0
MORF	HE	120	53	ES		23 6	8.52	-0.02							1.0
MORF	HE	120	53	AML		23 6	9.22			2	0.1				
MESJ	HZ	187	45	EP		23 6	4.02	0.09							1.0
MESJ	HE	187	45	ES		23 6	22.95	-0.02							1.0
MESJ	HE	187	45	AML		23 6	23.79			1.00	0.2				

September 21 2010 Hour: 1:19 27.6 Lat: 35.58N Lon: 8.90W Depth: 23F 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	193	7	EP		119	54.84	0.01							1.0
MORF	HE	193	7	ES		120	14.66	-0.07							1.0
MORF	HE	193	7	AML		120	15.19			7	0.2				
MESJ	HZ	258	13	EP		120	2.86	-0.03							1.0
MESJ	HN	258	13	ES		120	28.77	0.09							1.0
MESJ	HE	258	13	AML		120	29.14			3	0.1				

September 21 2010 Hour: 6: 2 44.5 Lat: 36.99N Lon: 8.40W Depth: 14F 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	42	328	EP		6 2	51.47	-0.03							1.0
MORF	HN	42	328	ES		6 2	56.67	0.04							1.0
MORF	HE	42	328	AML		6 2	57.44			14	0.3				
MESJ	HZ	96	10	EP		6 2	59.85	0.20							1.0
MESJ	HE	96	10	ES		6 3	10.51	-0.21							1.0
MESJ	HE	96	10	AML		6 3	11.37			5	0.1				

September 21 2010 Hour: 12:29 18.1 Lat: 36.60N Lon: 9.57W Depth: 15F 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	113	46	EP		1229	36.06	0.12							1.0
MORF	HE	113	46	ES		1229	48.86	-0.13							1.0
MORF	HN	113	46	AML		1229	49.81			54	0.2				
MESJ	HZ	182	41	EP		1229	44.69	-0.01							1.0
MESJ	HE	182	41	ES		1230	4.17	0.03							1.0
MESJ	HE	182	41	AML		1230	5.12			9	0.2				



**September 21 2010 Hour: 13:054.8 Lat: 36.68N Lon: 7.45W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 0.9ML 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	128	303	EP		13	1	14.45	-0.08						1.0
MORF	HN	128	303	ES		13	1	29.14	0.19						1.0
MORF	HN	128	303	AML		13	1	30.73		3	0.1				
MESJ	HZ	146	332	EP		13	1	16.71	-0.05						1.0
MESJ	HE	146	332	ES		13	1	32.74	-0.06						1.0
MESJ	HE	146	332	AML		13	1	34.82		1	0.2				

**September 21 2010 Hour: 14:4212.0 Lat: 15.92N Lon: 94.91W Depth: 53F Agency: IGL Distant**  
**Magnitudes: 4.7MB IGL Rms: 0.0 secs**

**OFFSHORE OAXACA, MEXICO Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8637	55	EP		1454	2.83	0.01							1.0
MORF	BZ	8637	55	AMb		1454	6.28			28	1.9				
MESJ	BZ	8664	54	EP		1454	4.08	-0.01							1.0
MESJ	BZ	8664	54	AMb		1454	8.53			24	2.3				

**September 21 2010 Hour: 15:2355.8 Lat: 36.58N Lon: 7.54W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	128	309	EP		1524	15.03	-0.19							1.0
MESJ	HZ	152	337	EP		1524	18.50	0.25							1.0
MESJ	HE	152	337	ES		1524	34.59	-0.05							1.0
MESJ	HE	152	337	AML		1524	34.79			51	0.1				

**September 22 2010 Hour: 2:5117.3 Lat: 36.70N Lon: 9.74W Depth: 19F Agency: IGL Regional**  
**Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	55	EP		251	35.69	0.04							1.0
MORF	HN	118	55	ES		251	48.90	-0.12							1.0
MORF	HN	118	55	AML		251	49.88			20	0.1				
MESJ	HZ	185	46	EP		251	43.85	-0.07							1.0
MESJ	HN	185	46	ES		252	3.47	0.15							1.0
MESJ	HE	185	46	AML		252	3.96			3	0.1				

**September 22 2010 Hour: 8:014.2 Lat: 13.39S Lon: 76.14W Depth: 49F Agency: IGL Distant**  
**Magnitudes: 5.1MS IGL Rms: 0.1 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	9004	48	EP		812	23.49	0.12							1.0
MORF	BN	9004	48	ES		822	28.80	-0.07							1.0
MORF	BZ	9004	48	AMS		848	27.44			675	15.3				
GGNV	BZ	9029	47	EP		812	24.37	-0.14							1.0
GGNV	BZ	9029	47	AMS		844	46.59			1177	17.3				
MESJ	BZ	9063	48	EP		812	26.29	0.16							1.0
MESJ	BE	9063	48	ES		822	34.21	-0.06							1.0
MESJ	BZ	9063	48	AMS		844	32.42			719	26.3				

**September 23 2010 Hour: 3:5330.1 Lat: 52.47N Lon: 172.82W Depth: 91F Agency: IGL Distant**  
**Magnitudes: 4.8MB IGL Rms: 0.3 secs**

**ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9947	13	EP		4	6	17.04	0.32						1.0
MORF	BZ	9947	13	AMb		4	6	21.53		15	1.4				

**September 23 2010 Hour: 7:10 12.6 Lat: 38.43N Lon: 7.86W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.1 secs**  
**SE EVORA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	73	206	EP		710	24.22	-0.13							1.0
MESJ	HN	73	206	ES		710	33.03	0.13							1.0
MESJ	HN	73	206	AML		710	34.27			3	0.4				

**September 24 2010 Hour: 4:05 59.2 Lat: 37.15N Lon: 13.23W Depth: 4F Agency: IGL Regional**  
**Magnitudes: 1.6ML 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	407	86	EP		4 1	54.80	0.01							1.0
MORF	HN	407	86	ES		4 2	35.14	-0.25							1.0
MORF	HE	407	86	AML		4 2	35.58			2	0.1				
MESJ	HZ	450	79	EP		4 2	0.08	0.07							1.0
MESJ	HE	450	79	ES		4 2	44.62	0.19							1.0
MESJ	HE	450	79	AML		4 2	45.47			1.00	0.1				

**September 24 2010 Hour: 14:56 3.8 Lat: 37.00N Lon: 10.81W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.6ML 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	195	79	EP		1456	33.27	-0.14							1.0
MORF	HN	195	79	ES		1456	54.99	-0.06							1.0
MORF	HN	195	79	AML		1456	57.13			7	0.1				
MESJ	HZ	247	67	EP		1456	40.09	0.16							1.0
MESJ	HN	247	67	ES		1457	6.39	0.05							1.0
MESJ	HE	247	67	AML		1457	8.99			2	0.1				

**September 25 2010 Hour: 0:37 27.8 Lat: 37.31N Lon: 8.59W Depth: 15F 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	5	266	EP		037	30.40	0.02							1.0
MORF	HN	5	266	ES		037	32.27	-0.02							1.0
MORF	HE	5	266	AML		037	32.87			21	0.1				

**September 25 2010 Hour: 3:35 12.1 Lat: 37.02N Lon: 8.50W Depth: 16F 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	35	337	EP		335	17.97	-0.16							1.0
MORF	HN	35	337	ES		335	22.75	0.19							1.0
MORF	HN	35	337	AML		335	23.29			64	0.1				
MESJ	HZ	94	15	EP		335	26.87	-0.17							1.0
MESJ	HE	94	15	ES		335	38.11	0.13							1.0
MESJ	HE	94	15	AML		335	39.27			7	0.1				

**September 25 2010 Hour: 13:15 6.9 Lat: 36.56N Lon: 7.25W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**  
**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HE	150	304	ES		1315	45.85	0.02							1.0
MORF	HN	150	304	AML		1315	47.17			10	0.2				
MESJ	HZ	166	329	EP		1315	31.38	0.00							1.0
MESJ	HN	166	329	ES		1315	49.24	-0.03							1.0
MESJ	HN	166	329	AML		1315	49.49			3	0.1				

September 26 2010 Hour: 1:19 56.4 Lat: 37.34N Lon: 8.57W Depth: 13F Agency: IGL Regional  
 Magnitudes: 0.5ML 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	HN	8	242	ES		120	0.82	0.07							1.0
MORF	HE	8	242	AML		120	1.15			11	0.2				
MESJ	HZ	64	29	EP		120	6.75	0.09							1.0
MESJ	HN	64	29	ES		120	14.01	-0.17							1.0
MESJ	HN	64	29	AML		120	15.59			3	0.2				

September 26 2010 Hour: 7:21 11.6 Lat: 36.85N Lon: 7.15W Depth: 18F 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	HE	143	291	ES		721	48.94	0.16							1.0
MORF	HE	143	291	AML		721	49.60			6	0.1				
MESJ	HZ	145	320	EP		721	33.36	0.00							1.0
MESJ	HE	145	320	ES		721	49.07	-0.16							1.0
MESJ	HE	145	320	AML		721	50.76			3	0.2				

September 26 2010 Hour: 12:12 42.0 Lat: 5.31S Lon: 133.93E Depth: 30F Agency: IGL Distant  
 Rms: 0.1 secs

KEPULAUAN KAI, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14776	319	EP			1231	53.45	-0.10							1.0
MESJ	BZ14776	319	EPP			1234	18.68	0.06							1.0
MESJ	BN14776	319	ESS			1251	58.91	-0.04							1.0
GGNV	BZ14788	320	EPP			1234	19.37	0.09							1.0
MORF	BZ14841	318	EPP			1234	22.30	-0.09							1.0
MORF	BN14841	318	ESS			1252	6.15	0.08							1.0

September 26 2010 Hour: 18:27 58.0 Lat: 52.49N Lon: 179.77E Depth: 226F Agency: IGL Distant  
 Magnitudes: 5.3MB IGL Rms: 0.1 secs

RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ 9973	6	EP			1840	30.02	-0.12							1.0
MESJ	BZ 9973	6	AMb			1840	33.11			44	1.2				
MORF	BZ10029	7	EP			1840	32.65	0.12							1.0
MORF	BZ10029	7	AMb			1840	36.36			142	1.5				

September 26 2010 Hour: 18:32 38.5 Lat: 36.80N Lon: 7.52W 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	HZ	115	300	EP		1832	55.86	-0.20							1.0
MORF	HN	115	300	ES		1833	8.97	0.09							1.0
MORF	HN	115	300	AML		1833	10.32			15	0.2				
MESJ	HZ	131	332	EP		1832	57.92	-0.07							1.0
MESJ	HN	131	332	ES		1833	12.40	0.19							1.0
MESJ	HN	131	332	AML		1833	13.13			7	0.2				

September 27 2010 Hour: 0:8 45.8 Lat: 57.69N Lon: 32.88W Depth: 10F Agency: IGL Distant  
 Magnitudes: 5.2MB IGL Rms: 0.1 secs

REYKJANES RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ 2719	131	EP			014	4.73	-0.11							1.0
GGNV	BZ 2719	131	AMb			014	7.01			184	1.3				
MESJ	BZ 2844	130	EP			014	15.27	0.14							1.0
MESJ	BZ 2844	130	AMb			014	16.36			43	1.6				
MORF	BZ 2876	131	EP			014	17.66	-0.08							1.0
MORF	BZ 2876	131	AMb			014	19.23			82	1.5				
MORF	BN 2876	131	ES			018	48.69	0.05							1.0

September 27 2010 Hour: 0:16 13.3 Lat: 57.70N Lon: 32.88W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.7MB IGL Rms: 0.2 secs

REYKJANES RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	2720	131	EP		021	32.58	0.20							1.0
GGNV	BZ	2720	131	AMb		021	35.57			372	2.6				
MESJ	BZ	2845	130	EP		021	42.67	0.00							1.0
MESJ	BZ	2845	130	AMb		021	47.40			159	0.4				
MORF	BZ	2877	131	EP		021	45.09	-0.19							1.0
MORF	BZ	2877	131	AMb		021	48.90			155	1.2				

September 27 2010 Hour: 0:28 14.2 Lat: 57.71N Lon: 32.94W Depth: 14F Agency: IGL Distant  
Magnitudes: 4.7MB IGL Rms: 0.3 secs

REYKJANES RIDGE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2849	130	EP		033	43.48	0.26							1.0
MESJ	BZ	2849	130	AMb		033	46.34			19	1.6				
MORF	BZ	2880	131	EP		033	45.56	-0.26							1.0
MORF	BZ	2880	131	AMb		033	47.47			44	1.9				

September 27 2010 Hour: 9:39 54.1 Lat: 36.57N Lon: 1.69E Depth: 1 Agency: IGL Regional  
Rms: 0.0 secs

NORTHERN ALGERIA Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	891	282	EP		941	48.04	0.03							1.0

September 27 2010 Hour: 11:22 43.5 Lat: 29.64N Lon: 51.63E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.2MB IGL Rms: 0.3 secs

SOUTHERN IRAN Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5528	296	EP		1131	35.75	0.03							1.0
MESJ	BZ	5528	296	AMb		1131	37.66			48	1.7				
MESJ	BN	5528	296	ES		1138	44.66	-0.80							0.8
MORF	BZ	5576	296	EP		1131	39.16	0.14							1.0
MORF	BZ	5576	296	AMb		1131	41.66			33	1.8				
MORF	BE	5576	296	ES		1138	51.48	-0.04							1.0
GGNV	BZ	5593	297	EP		1131	40.26	0.15							1.0
GGNV	BZ	5593	297	AMb		1131	42.97			141	1.1				
GGNV	BN	5593	297	ES		1138	53.78	0.24							1.0

September 28 2010 Hour: 2:29 45.5 Lat: 32.27N Lon: 3.59W Depth: 5F 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
MESJ	HZ	748	327	EP		231	22.20	-0.07							1.0

September 28 2010 Hour: 17:40 50.3 Lat: 37.05N Lon: 15.18W Depth: 10F Agency: IGL Regional  
Magnitudes: 3.6ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HE	561	69	ES		1742	57.83	-0.03							1.0
GGNV	HN	561	69	AML		1742	58.79			244	0.4				
MORF	HZ	580	85	EP		1742	6.45	0.09							1.0
MORF	HE	580	85	ES		1743	1.83	-0.04							1.0
MORF	HE	580	85	AML		1743	2.28			58	0.3				
MESJ	HZ	622	80	EP		1742	11.35	-0.02							1.0
MESJ	HE	622	80	ES		1743	10.53	0.01							1.0
MESJ	HE	622	80	AML		1743	11.89			33	0.3				

September 28 2010 Hour: 20:59 16.3 Lat: 38.37N Lon: 9.45W Depth: 28F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SW SESIMBRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	123	118	EP		2059	34.41	-0.14							1.0
MESJ	HE	123	118	ES		2059	47.86	0.01							1.0
MESJ	HE	123	118	AML		2059	50.04			3	0.1				
MORF	HN	137	149	ES		2059	51.15	0.13							1.0
MORF	HE	137	149	AML		2059	51.43			4	0.1				

September 29 2010 Hour: 17:10 51.1 Lat: 4.91S Lon: 133.71E Depth: 10F Agency: IGL Distant  
Rms: 0.1 secs

NEAR SOUTH COAST OF PAPUA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14727	319	EP			1730	4.97	-0.05							1.0
GGNV	BZ14738	320	EP			1730	5.12	-0.07							1.0
MORF	BZ14791	318	EP			1730	6.34	0.18							1.0
MORF	BZ14791	318	EPP			1732	31.60	-0.05							1.0

September 29 2010 Hour: 17:11 24.0 Lat: 4.92S Lon: 133.78E Depth: 12F Agency: IGL Distant  
Rms: 0.2 secs

NEAR SOUTH COAST OF PAPUA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14733	319	EP			1730	37.55	-0.20							1.0
MESJ	BZ14733	319	EPP			1733	1.17	0.28							1.0
GGNV	BZ14745	320	EP			1730	37.89	-0.03							1.0
MORF	BZ14798	318	EP			1730	38.69	-0.20							1.0
MORF	BZ14798	318	EPP			1733	4.83	0.16							1.0

September 30 2010 Hour: 1:46 23.9 Lat: 38.93N Lon: 8.72W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SE BENAVENTE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	129	160	EP		146	44.57	-0.07							1.0
MESJ	HE	129	160	ES		146	59.87	0.07							1.0
MESJ	HE	129	160	AML		147	0.70			1	0.0				

September 30 2010 Hour: 3:15 2.0 Lat: 36.00N Lon: 8.66W Depth: 29F 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	145	0	EP		3	2	13.09	0.15						1.0
MORF	HN	145	0	ES		3	2	27.97	-0.25						1.0
MORF	HE	145	0	AML		3	2	28.67			3	0.1			
MESJ	HZ	208	11	EP		3	2	20.64	-0.09						1.0
MESJ	HN	208	11	ES		3	2	41.87	0.19						1.0
MESJ	HN	208	11	AML		3	2	43.05			4	0.4			

September 30 2010 Hour: 10:19 21.1 Lat: 38.51N Lon: 8.17W Depth: 12F Agency: IGL Regional  
Magnitudes: 1.1ML 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	75	183	EP		1019	33.18	0.09							1.0
MESJ	HN	75	183	ES		1019	41.75	-0.09							1.0
MESJ	HN	75	183	AML		1019	43.02				7	0.1			

September 30 2010 Hour: 23:30 47.5 Lat: 7.92S Lon: 71.31W Depth: 631F Agency: IGL Distant  
Magnitudes: 4.7MB IGL Rms: 0.1 secs

AMAZONAS, BRAZIL Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8207	48	EP		2341	19.10	-0.12							1.0
MORF	BZ	8207	48	AMb		2341	23.15			198	1.6				
MESJ	BZ	8266	47	EP		2341	22.24	0.12							1.0

MESJ BZ 8266 47 AMb 2341 24.93 52 1.4

**October 1 2010 Hour: 19:19 15.1 Lat: 38.49N Lon: 7.74W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**SE EVORA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	84	210	EP		1919	28.54	0.02							1.0
MESJ	HN	84	210	ES		1919	38.22	-0.07							1.0
MESJ	HE	84	210	AML		1919	39.05			19	0.3				
MORF	HN	154	212	ES		1919	55.80	0.06							1.0
MORF	HN	154	212	AML		1919	58.25			9	0.2				

**October 1 2010 Hour: 23:29 1.4 Lat: 37.64N Lon: 8.39W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**W OURIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	27	34	EP		2329	6.01	-0.02							1.0
MESJ	HE	27	34	ES		2329	9.43	0.03							1.0
MESJ	HE	27	34	AML		2329	9.83			121	0.1				
MORF	HZ	44	212	EP		2329	8.72	0.07							1.0
MORF	HE	44	212	ES		2329	13.85	-0.09							1.0
MORF	HN	44	212	AML		2329	14.53			26	0.1				

**October 2 2010 Hour: 5:54 41.4 Lat: 36.93N Lon: 12.28W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.2 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	326	82	EP		555	27.12	-0.17							1.0
MORF	HE	326	82	ES		556	0.69	-0.12							1.0
MORF	HE	326	82	AML		556	2.54			4	0.2				
MESJ	HZ	374	73	EP		555	33.22	-0.02							1.0
MESJ	HN	374	73	ES		556	11.43	0.32							1.0
MESJ	HE	374	73	AML		556	13.10			1	0.1				

**October 2 2010 Hour: 19:59 6.1 Lat: 37.31N Lon: 8.55W Depth: 18F 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		1959	9.39	0.00							1.0
MORF	HE	9	267	ES		1959	11.77	0.00							1.0
MORF	HN	9	267	AML		1959	12.27			15	0.3				

**October 3 2010 Hour: 0:52 46.9 Lat: 37.61N Lon: 8.51W Depth: 5F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.0 secs**

**E ODEMIRA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	36	200	EP		052	52.81	0.02							1.0
MORF	HE	36	200	ES		052	57.07	0.00							1.0
MORF	HE	36	200	AML		052	58.00			9	0.1				
MESJ	HZ	36	45	EP		052	52.81	0.00							1.0
MESJ	HN	36	45	ES		052	57.07	-0.03							1.0
MESJ	HN	36	45	AML		052	57.90			6	0.1				

**October 3 2010 Hour: 1:15 46.7 Lat: 37.33N Lon: 8.53W Depth: 6F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	256	EP		115	48.60	-0.20							1.0
MORF	HN	11	256	ES		115	50.48	0.17							1.0
MORF	HN	11	256	AML		115	50.97			269	0.2				
MESJ	HZ	63	26	EP		115	56.86	-0.06							1.0
MESJ	HE	63	26	ES		116	4.44	0.09							1.0
MESJ	HE	63	26	AML		116	7.44			6	0.1				

October 3 2010 Hour: 3:55 28.0 Lat: 37.60N Lon: 8.48W Depth: 19F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.0 secs

E ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	35	41	EP		355	34.31	0.00							1.0
MESJ	HN	35	41	ES		355	38.88	-0.03							1.0
MESJ	HN	35	41	AML		355	39.72			5	0.2				
MORF	HZ	36	205	EP		355	34.51	0.06							1.0
MORF	HN	36	205	ES		355	39.13	-0.03							1.0
MORF	HE	36	205	AML		355	39.50			11	0.2				

October 3 2010 Hour: 10:15 37.5 Lat: 36.82N Lon: 8.89W Depth: 27F Agency: IGL Regional  
Magnitudes: 2.7ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	58	21	EP		1015	47.28	-0.10							1.0
MORF	HN	58	21	ES		1015	54.75	0.17							1.0
MORF	HE	58	21	AML		1015	55.67			621	0.1				
MESJ	HZ	128	27	EP		1015	56.19	-0.22							1.0
MESJ	HE	128	27	ES		1016	10.34	0.15							1.0
MESJ	HE	128	27	AML		1016	11.18			68	0.2				

October 3 2010 Hour: 17:44 47.6 Lat: 37.60N Lon: 8.48W Depth: 16F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

E ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	35	41	EP		1744	53.72	-0.02							1.0
MESJ	HE	35	41	ES		1744	58.07	-0.15							1.0
MESJ	HE	35	41	AML		1744	58.66			4	0.2				
MORF	HZ	36	205	EP		1744	53.93	0.05							1.0
MORF	HE	36	205	ES		1744	58.59	0.13							1.0
MORF	HN	36	205	AML		1744	59.08			12	0.4				

October 3 2010 Hour: 18:17 48.5 Lat: 37.32N Lon: 8.54W Depth: 14F Agency: IGL Regional  
Magnitudes: 0.2ML 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	10	261	EP		1817	51.19	-0.10							1.0
MORF	HN	10	261	ES		1817	53.44	0.10							1.0
MORF	HN	10	261	AML		1817	53.87			8	0.2				

October 4 2010 Hour: 11:21 30.6 Lat: 36.62N Lon: 7.39W Depth: 19F 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
MESJ	HZ	154	332	EP		1121	53.27	-0.08							1.0
MESJ	HE	154	332	ES		1122	10.05	0.08							1.0
MESJ	HE	154	332	AML		1122	11.44			5	0.1				

October 4 2010 Hour: 13:28 38.3 Lat: 24.26N Lon: 125.15E Depth: 32F Agency: IGL Distant  
Magnitudes: 6.4MS IGL Rms: 0.1 secs

SOUTHWESTERN RYUKYU ISLAND, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ11586	325	EPP			1346	56.47	0.14							1.0
GGNV	BE11586	325	AMS			1427	57.06			11601	20.8				
MESJ	BZ11602	324	EPP			1346	57.27	-0.18							1.0
MESJ	BE11602	324	ES			1353	16.39	0.03							1.0
MESJ	BZ11602	324	AMS			1435	60.00			8496	11.9				
MORF	BZ11671	323	EPP			1347	2.13	0.01							1.0
MORF	BZ11671	323	AMS			1437	47.28			8047	23.2				

**October 4 2010 Hour: 19: 2 41.5 Lat: 37.41N Lon: 9.09W Depth: 29F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.0 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	41	106	EP		19	2	49.23	0.02						1.0
MORF	HN	41	106	ES		19	2	54.81	-0.02						1.0
MORF	HN	41	106	AML		19	2	55.30		15	0.2				

**October 5 2010 Hour: 10:29 33.6 Lat: 36.76N Lon: 12.62W 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	358	79	EP		1030	23.46	0.06							1.0
MORF	HE	358	79	ES		1030	59.69	-0.10							1.0
MORF	HE	358	79	AML		1031	0.65			28	0.2				
MESJ	HZ	408	72	EP		1030	29.60	0.05							1.0
MESJ	HN	408	72	ES		1031	10.41	-0.01							1.0
MESJ	HN	408	72	AML		1031	11.39			13	0.2				

**October 6 2010 Hour: 2: 4 13.7 Lat: 36.63N Lon: 9.66W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	50	EP		2	4	31.82	-0.03						1.0
MESJ	HZ	185	43	EP		2	4	40.33	0.03						1.0

**October 6 2010 Hour: 7:53 48.5 Lat: 37.31N Lon: 8.55W Depth: 14F 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	9	267	EP		753	51.11	-0.11							1.0
MORF	HN	9	267	ES		753	53.24	0.02							1.0
MORF	HN	9	267	AML		753	53.98			19	0.2				
MESJ	HE	66	26	ES		754	6.97	0.10							1.0
MESJ	HN	66	26	AML		754	8.32			4	0.3				

**October 6 2010 Hour: 19: 9 36.5 Lat: 36.99N Lon: 7.25W Depth: 1 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
MESJ	HZ	128	318	EP		19	9	57.04	-0.08						1.0
MESJ	HE	128	318	ES		1910	12.17	0.04							1.0
MESJ	HN	128	318	AML		1910	12.75			4	0.3				
MORF	HE	129	286	ES		1910	12.67	0.04							1.0
MORF	HN	129	286	AML		1910	14.25			13	0.3				

**October 7 2010 Hour: 2:35 10.3 Lat: 36.62N Lon: 7.64W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	311	EP		235	28.78	-0.06							1.0
MORF	HE	118	311	ES		235	42.39	0.00							1.0
MORF	HE	118	311	AML		235	44.25			58	0.2				
MESJ	HZ	145	339	EP		235	32.54	0.13							1.0
MESJ	HE	145	339	ES		235	48.49	-0.07							1.0
MESJ	HE	145	339	AML		235	49.79			14	0.2				



October 7 2010 Hour: 10:41 15.8 Lat: 36.67N Lon: 9.52W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	105	47	EP		1041	32.43	0.03							1.0
MORF	HE	105	47	ES		1041	44.55	0.04							1.0
MORF	HE	105	47	AML		1041	45.18			7	0.3				
MESJ	HZ	174	41	EP		1041	40.92	-0.10							1.0
MESJ	HN	174	41	ES		1041	59.43	0.02							1.0
MESJ	HN	174	41	AML		1042	0.20			3	0.4				

October 7 2010 Hour: 14: 2 5.7 Lat: 36.68N Lon: 9.54W Depth: 23F 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	105	48	EP		14 2	21.91	-0.15							1.0
MORF	HN	105	48	ES		14 2	34.17	0.15							1.0
MORF	HN	105	48	AML		14 2	35.21			5	0.1				

October 8 2010 Hour: 3:26 13.3 Lat: 51.42N Lon: 175.43W Depth: 21F Agency: IGL Distant  
Magnitudes: 6.3MS IGL Rms: 0.2 secs

ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9936	11	EP		339	7.91	-0.04							1.0
GGNV	BZ	9936	11	EPP		342	39.28	-0.27							1.0
GGNV	BZ	9936	11	AMS		427	48.80			11959	19.0				
MESJ	BZ10044	10	EP			339	12.52	0.00							1.0
MESJ	BZ10044	10	EPP			342	47.46	0.15							1.0
MESJ	BZ10044	10	AMS			423	6.52			12055	20.0				
MORF	BZ10097	11	EP			339	14.96	0.15							1.0
MORF	BZ10097	11	AMS			420	21.17			11298	18.9				

October 8 2010 Hour: 5:43 11.4 Lat: 2.75N Lon: 128.20E Depth: 145F Agency: IGL Distant  
Rms: 0.0 secs

HALMAHERA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13685	319	EP			6 1	50.12	-0.05							1.0
MORF	BZ13751	319	EP			6 1	51.38	0.05							1.0

October 9 2010 Hour: 1:54 6.1 Lat: 10.31N Lon: 84.23W Depth: 98F Agency: IGL Distant  
Magnitudes: 4.9MS IGL Rms: 0.1 secs

COSTA RICA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8057	54	EP		2 5	21.59	-0.15							1.0
MORF	BZ	8057	54	AMS		231	48.19			914	21.8				
MESJ	BZ	8095	54	EP		2 5	23.88	0.15							1.0
MESJ	BZ	8095	54	AMS		230	54.16			654	25.2				

October 9 2010 Hour: 7:55 60.0 Lat: 37.10N Lon: 3.97W Depth: 22F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	385	284	EP		756	51.10	-0.02							1.0

October 9 2010 Hour: 8:20 32.0 Lat: 37.17N Lon: 4.22W 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	362	283	EP		821	21.92	0.07							1.0

October 9 2010 Hour: 8:41 11.1 Lat: 37.18N Lon: 4.21W 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	362	283	EP		842	0.95	-0.03							1.0

October 9 2010 Hour: 22:36 58.7 Lat: 33.42N Lon: 6.30W 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
MESJ	HZ	520	341	EP		2238	5.64	-0.06							1.0

October 10 2010 Hour: 19:49 38.4 Lat: 35.88N Lon: 10.05W Depth: 13F 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	202	38	EP		1950	7.57	-0.03							1.0
MORF	HN	202	38	ES		1950	29.00	0.05							1.0
MORF	HN	202	38	AML		1950	30.67			10	0.2				
MESJ	HZ	272	36	EP		1950	16.26	-0.01							1.0

October 12 2010 Hour: 4:36 44.4 Lat: 37.59N Lon: 8.34W Depth: 2F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.2 secs

SW OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	221	EP		436	51.39	0.22							1.0
MORF	HE	42	221	ES		436	55.89	-0.22							1.0
MORF	HE	42	221	AML		436	56.42			6	0.1				

October 12 2010 Hour: 10:8 48.7 Lat: 35.22N Lon: 4.47W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	441	303	EP		109	48.83	-0.08							1.0
MORF	HN	441	303	ES		1010	32.75	-0.10							1.0
MORF	HN	441	303	AML		1010	34.23			3	0.3				
MESJ	HZ	444	312	EP		109	49.29	0.07							1.0
MESJ	HE	444	312	ES		1010	33.50	0.12							1.0
MESJ	HE	444	312	AML		1010	34.57			1.00	0.1				

October 12 2010 Hour: 10:15 49.5 Lat: 38.77N Lon: 9.48W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

SW SINTRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	151	133	EP		1016	12.41	-0.15							1.0
MESJ	HN	151	133	ES		1016	29.56	0.15							1.0
MESJ	HE	151	133	AML		1016	30.80			5	0.3				

October 12 2010 Hour: 10:21 36.2 Lat: 4.94S Lon: 133.72E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.8MS IGL Rms: 0.1 secs

NEAR SOUTH COAST OF PAPUA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14730	319	EP			1040	50.09	-0.14							1.0
MESJ	BZ14730	319	EPP			1043	13.32	0.10							1.0
MESJ	BN14730	319	ESS			110	53.36	0.05							1.0
MESJ	BZ14730	319	AMS			1148	39.28			1855	16.4				
GGNV	BZ14742	320	EP			1040	50.40	0.01							1.0
GGNV	BN14742	320	AMS			1147	10.02			2104	27.4				
MORF	BZ14795	318	EP			1040	51.36	-0.01							1.0
MORF	BN14795	318	ESS			111	0.43	-0.02							1.0
MORF	BZ14795	318	AMS			1152	52.39			2156	16.4				

**October 12 2010 Hour: 10:47 50.0 Lat: 36.54N Lon: 7.50W Depth: 18F Agency: IGL Regional**  
**Magnitudes: 1.3ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HN	158	336	ES		1048	30.20	-0.16							1.0
MESJ	HE	158	336	AML		1048	31.72			4	0.2				
MORF	HZ	134	310	EP		1048	10.27								
MESJ	HZ	158	336	EP		1048	13.59								

**October 13 2010 Hour: 23:14 47.1 Lat: 36.58N Lon: 7.58W Depth: 12F 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
MORF	HZ	125	311	EP		2315	6.67	-0.04							1.0
MORF	HN	125	311	ES		2315	20.86	-0.17							1.0
MORF	HN	125	311	AML		2315	21.25			4	0.1				
MESJ	HZ	151	338	EP		2315	10.44	0.37							1.0
MESJ	HN	151	338	ES		2315	26.70	-0.14							1.0
MESJ	HE	151	338	AML		2315	28.02			4	0.2				

**October 14 2010 Hour: 0:49 12.2 Lat: 37.77N Lon: 7.88W Depth: 5F Agency: IGL Regional**  
**Magnitudes: 0.1ML IGL Rms: 0.1 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	31	285	EP		049	17.39	0.12							1.0
MESJ	HN	31	285	ES		049	20.85	-0.12							1.0
MESJ	HE	31	285	AML		049	21.50			2	0.2				

**October 14 2010 Hour: 1:12 28.5 Lat: 37.09N Lon: 8.83W Depth: 21F Agency: IGL Regional**  
**Magnitudes: 0.5ML IGL Rms: 0.1 secs**

**E VILA DO BISPO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	29	33	EP		112	34.04	-0.10							1.0
MORF	HN	29	33	ES		112	38.37	0.10							1.0
MORF	HN	29	33	AML		112	38.87			6	0.2				

**October 14 2010 Hour: 4:29 38.1 Lat: 37.33N Lon: 8.58W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.0 secs**

**NW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	247	EP		429	40.38	-0.01							1.0
MORF	HN	7	247	ES		429	42.09	0.01							1.0
MORF	HE	7	247	AML		429	42.55			27	0.1				

**October 14 2010 Hour: 7:31 30.5 Lat: 37.69N Lon: 9.12W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**

**SW SINES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	59	136	EP		731	40.74	0.03							1.0
MORF	HN	59	136	ES		731	48.02	-0.11							1.0
MORF	HE	59	136	AML		731	48.52			14	0.1				
MESJ	HZ	81	78	EP		731	43.51	0.10							1.0
MESJ	HN	81	78	ES		731	52.78	-0.02							1.0
MESJ	HN	81	78	AML		731	53.54			2	0.5				

**October 14 2010 Hour: 10: 3 32.0 Lat: 10.31S Lon: 42.83E Depth: 15F Agency: IGL Distant**  
**Magnitudes: 4.9MB IGL Rms: 0.2 secs**

**COMOROS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7522	318	EP		1014	28.05	-0.17							1.0
MORF	BZ	7522	318	AMb		1014	32.24			27	1.7				
MESJ	BZ	7524	318	EP		1014	28.42	0.17							1.0
MESJ	BZ	7524	318	AMb		1014	30.61			25	1.6				

**October 14 2010 Hour: 13:58 53.5 Lat: 42.34N Lon: 142.90E Depth: 35F Agency: IGL Distant**  
**Magnitudes: 5.0MS IGL Rms: 0.0 secs**  
**HOKKAIDO, JAPAN REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10668	337		EP		1412	16.54	0.03							1.0
MESJ	BZ10668	337		AMS		1458	46.70			532	19.6				

**October 14 2010 Hour: 19:27 25.5 Lat: 36.75N Lon: 9.66W Depth: 22F 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	109	55	EP		1927	42.30	-0.12							1.0
MORF	HN	109	55	ES		1927	54.90	0.12							1.0
MORF	HN	109	55	AML		1927	55.92			4	0.1				

**October 15 2010 Hour: 17:54 0.5 Lat: 46.78N Lon: 27.30W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	1729	115	EP		1757	39.90	0.01							1.0
GGNV	BZ	1729	115	AMb		1757	43.57			273	1.2				
MESJ	BZ	1852	116	EP		1757	54.16	-0.07							1.0
MESJ	BZ	1852	116	AMb		1757	58.56			91	1.4				
MORF	BZ	1860	118	EP		1757	55.26	0.06							1.0
MORF	BZ	1860	118	AMb		1758	3.78			121	2.0				

**October 15 2010 Hour: 21:52 4.3 Lat: 36.93N Lon: 8.59W Depth: 18F Agency: IGL Regional**  
**Magnitudes: 0.4ML 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	42	353	EP		2152	11.67	0.07							1.0
MORF	HN	42	353	ES		2152	16.82	-0.07							1.0
MORF	HN	42	353	AML		2152	17.49			3	0.2				

**October 15 2010 Hour: 22:10 34.1 Lat: 36.30N Lon: 10.49W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.9ML 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	199	55	EP		2211	4.12	-0.15							1.0
MORF	HN	199	55	ES		2211	26.53	0.25							1.0
MORF	HE	199	55	AML		2211	27.68			18	0.2				
MESJ	HZ	264	49	EP		2211	12.18	-0.25							1.0
MESJ	HE	264	49	ES		2211	40.53	0.14							1.0
MESJ	HE	264	49	AML		2211	41.50			4	0.1				

**October 16 2010 Hour: 0:47 55.1 Lat: 37.19N Lon: 9.82W Depth: 1 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	105	83	EP		048	11.86	-0.05							1.0
MORF	HN	105	83	ES		048	24.30	0.08							1.0
MORF	HN	105	83	AML		048	25.73			3	0.3				
MESJ	HZ	159	63	EP		048	20.15	0.08							1.0
MESJ	HE	159	63	ES		048	38.24	-0.10							1.0
MESJ	HE	159	63	AML		048	39.91			1	0.5				

**October 16 2010 Hour: 1:57 3.2 Lat: 37.31N Lon: 8.63W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 0.4ML IGL Rms: 0.0 secs**  
**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	2	258	EP		157	5.88	0.01							1.0
MORF	HN	2	258	ES		157	7.80	-0.01							1.0
MORF	HE	2	258	AML		157	8.02			13	0.1				

**October 16 2010 Hour: 3:52 50.9 Lat: 35.52N Lon: 3.82W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 2.9ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	470	304	EP		353	54.79	0.33							1.0
MESJ	HN	470	304	ES		354	40.87	0.01							1.0
MESJ	HE	470	304	AML		354	43.43			19	0.3				
MORF	HZ	477	296	EP		353	55.17	-0.11							1.0
MORF	HE	477	296	ES		354	42.05	-0.24							1.0
MORF	HN	477	296	AML		354	45.01			35	0.3				

**October 16 2010 Hour: 13:27 47.3 Lat: 20.40S Lon: 173.96W Depth: 10F 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
MESJ	BZ17656		32	EP		1347	44.47	0.02							1.0
MESJ	BZ17656		32	AMS		1455	41.54			1529	20.4				
MORF	BZ17676		34	EP		1347	44.71	-0.02							1.0
MORF	BZ17676		34	AMS		1458	1.24			1849	18.8				

**October 16 2010 Hour: 15:44 33.2 Lat: 7.34S Lon: 125.66E Depth: 21F Agency: IGL Distant**  
**Magnitudes: 5.3MS IGL 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	BZ14299		313	EP		16 3	38.10	0.06							1.0
MESJ	BZ14299		313	EPP		16 5	43.23	-0.04							1.0
MESJ	BZ14299		313	AMS		17 1	34.63			555	16.8				
GGNV	BZ14332		315	EPP		16 5	45.36	0.17							1.0
MORF	BZ14358		313	EP		16 3	38.90	-0.19							1.0
MORF	BZ14358		313	AMS		17 5	24.76			663	21.0				

**October 16 2010 Hour: 20: 8 31.6 Lat: 20.33S Lon: 173.74W Depth: 13F Agency: IGL Distant**  
**Magnitudes: 6.2MS IGL Rms: 0.1 secs**

**TONGA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ17510		33	EP		2028	26.73	0.10							1.0
GGNV	BZ17510		33	AMS		2137	26.76			4000	21.0				
MESJ	BZ17637		33	EP		2028	27.92	-0.15							1.0
MESJ	BZ17637		33	AMS		2136	23.31			2935	18.7				
MORF	BZ17657		34	EP		2028	28.39	0.05							1.0
MORF	BZ17657		34	AMS		2138	43.46			3295	16.7				

**October 16 2010 Hour: 23:43 19.2 Lat: 35.47N Lon: 3.85W Depth: 1F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	471	305	EP		2344	22.65	-0.20							1.0
MESJ	HE	471	305	ES		2345	9.49	0.20							1.0
MESJ	HE	471	305	AML		2345	10.87			2	0.3				

**October 17 2010 Hour: 2:28 26.8 Lat: 37.40N Lon: 3.96W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 2.4ML 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	380	279	EP		229	18.22	-0.03							1.0
MORF	HZ	416	270	EP		229	22.85	0.04							1.0
MORF	HN	416	270	ES		230	3.72	-0.01							1.0
MORF	HN	416	270	AML		230	7.15			10	0.4				

**October 17 2010 Hour: 8:51 56.6 Lat: 37.08N Lon: 5.43W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 1.9ML 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	261	290	EP		852	33.31	-0.01							1.0
MORF	HE	287	276	ES		853	5.89	0.01							1.0
MORF	HE	287	276	AML		853	7.95			6	0.3				

**October 17 2010 Hour: 11:11 10.9 Lat: 36.02N Lon: 8.70W Depth: 12F 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	143	2	EP		1111	32.75	-0.11							1.0
MORF	HN	143	2	ES		1111	48.78	-0.15							1.0
MORF	HE	143	2	AML		1111	50.16			9	0.3				
MESJ	HZ	206	12	EP		1111	40.85	0.12							1.0
MESJ	HN	206	12	ES		1112	2.69	0.15							1.0
MESJ	HN	206	12	AML		1112	4.10			4	0.0				

**October 17 2010 Hour: 16:36 30.0 Lat: 36.26N Lon: 4.14W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 2.1ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	403	297	EP		1637	25.54	-0.03							1.0
MESJ	HE	403	297	ES		1638	6.20	0.10							1.0
MESJ	HN	403	297	AML		1638	9.07			4	0.3				
MORF	HZ	419	288	EP		1637	27.48	-0.10							1.0
MORF	HE	419	288	ES		1638	9.60	0.02							1.0
MORF	HE	419	288	AML		1638	11.33			7	0.2				

**October 17 2010 Hour: 17:55 4.9 Lat: 39.39N Lon: 20.49E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 4.5MB IGL Rms: 0.2 secs**

**GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2496	275	EP		18 0	3.79	-0.20							1.0
MESJ	BZ	2496	275	AMb		18 0	6.04			33	1.7				
MESJ	BE	2496	275	ES		18 4	12.00	0.20							1.0

**October 18 2010 Hour: 8: 2 13.3 Lat: 6.48S Lon: 153.63E Depth: 5F Agency: IGL Distant**  
**Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16107	335	EP			821	49.79	-0.06							1.0
MORF	BZ16177	335	EP			821	52.06	0.06							1.0

**October 19 2010 Hour: 0: 6 5.8 Lat: 35.74N Lon: 9.89W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 2.5ML IGL Rms: 0.2 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	206	32	EP		0 6	36.01	0.03							1.0
MORF	HE	206	32	ES		0 6	57.72	-0.29							1.0
MORF	HE	206	32	AML		0 6	58.02			57	0.2				
MESJ	HZ	277	32	EP		0 6	44.69	0.01							1.0
MESJ	HN	277	32	ES		0 7	13.35	0.27							1.0
MESJ	HE	277	32	AML		0 7	14.80			15	0.1				

**October 19 2010 Hour: 2:58 54.1 Lat: 37.09N Lon: 8.52W Depth: 16F 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	27	334	EP		258	59.09	-0.02							1.0
MORF	HE	27	334	ES		259	2.72	-0.03							1.0
MORF	HE	27	334	AML		259	3.23			10	0.3				

MESJ HZ	87	18	EP	259	8.15	0.09											1.0
MESJ HN	87	18	ES	259	18.20	-0.03											1.0
MESJ HN	87	18	AML	259	19.95				3	0.2							

**October 19 2010 Hour: 3:54 17.9 Lat: 37.33N Lon: 8.49W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.0 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	15	260	EP			354	21.12	0.04							1.0
MORF HN	15	260	ES			354	23.37	-0.04							1.0
MORF HN	15	260	AML			354	23.88		22	0.3					

**October 19 2010 Hour: 8:42 34.2 Lat: 36.74N Lon: 11.08W Depth: 1F Agency: IGL Regional**  
**Magnitudes: 1.8ML 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	225	73	EP			843	7.46	-0.05							1.0
MORF HE	225	73	ES			843	31.66	-0.17							1.0
MORF HN	225	73	AML			843	32.34		8	0.2					
MESJ HZ	281	63	EP			843	14.71	0.24							1.0
MESJ HN	281	63	ES			843	43.87	0.00							1.0
MESJ HN	281	63	AML			843	45.45		4	0.2					

**October 19 2010 Hour: 9: 8 56.4 Lat: 36.82N Lon: 12.49W Depth: 1F Agency: IGL Regional**  
**Magnitudes: 2.5ML IGL Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	346	80	EP			9 9	44.71	-0.03							1.0
MORF HN	346	80	ES			910	20.00	-0.04							1.0
MORF HE	346	80	AML			910	22.24		31	0.3					
MESJ HZ	395	72	EP			9 9	50.84	0.02							1.0
MESJ HN	395	72	ES			910	30.61	0.05							1.0
MESJ HN	395	72	AML			910	32.89		7	0.2					

**October 19 2010 Hour: 11: 2 52.9 Lat: 37.35N Lon: 8.47W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.8ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF HZ	17	253	EP			11 2	56.27	-0.02							1.0
MORF HE	17	253	ES			11 2	58.83	0.08							1.0
MORF HE	17	253	AML			11 2	59.28		489	0.2					
MESJ HN	59	22	ES			11 3	9.40	-0.06							1.0
MESJ HE	59	22	AML			11 3	10.68		21	0.2					

**October 20 2010 Hour: 0:28 39.6 Lat: 36.52N Lon: 9.87W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 0.0ML 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	139	51	EP			028	59.64	-0.02							1.0
MESJ HZ	207	45	EP			029	8.07	0.02							1.0

**October 20 2010 Hour: 4: 9 44.6 Lat: 24.61N Lon: 109.06W Depth: 14F Agency: IGL Distant**  
**Magnitudes: 5.4MB IGL Rms: 0.0 secs**

**GULF OF CALIFORNIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ	9254	52	EP			422	10.63	-0.02							1.0
MORF BZ	9254	52	AMb			422	20.74		60	1.8					
MESJ BZ	9263	52	EP			422	11.01	0.02							1.0
MESJ BZ	9263	52	AMb			422	21.56		67	1.6					

October 20 2010 Hour: 6:58 15.6 Lat: 24.62N Lon: 108.99W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.9MS IGL Rms: 0.0 secs

GULF OF CALIFORNIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9248	52	EP		710	42.02	0.06							1.0
MORF	BN	9248	52	ES		721	2.61	0.03							1.0
MORF	BN	9248	52	AMS		741	42.04		5096	22.2					
MESJ	BZ	9256	52	EP		710	42.27	-0.03							1.0
MESJ	BE	9256	52	ES		721	3.21	-0.06							1.0
MESJ	BZ	9256	52	AMS		747	58.18		5699	19.2					

October 20 2010 Hour: 8:41 38.2 Lat: 36.52N Lon: 7.55W Depth: 16F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	131	312	EP		841	58.26	-0.18							1.0
MESJ	HZ	158	338	EP		842	1.83	0.10							1.0
MESJ	HN	158	338	ES		842	18.99	0.09							1.0
MESJ	HN	158	338	AML		842	20.11		19	0.2					

October 21 2010 Hour: 0:41 27.6 Lat: 36.24N Lon: 7.62W Depth: 12F 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
MORF	HZ	150	322	EP		041	50.36	-0.17							1.0
MESJ	HZ	185	343	EP		041	55.07	0.17							1.0
MESJ	HE	185	343	ES		042	14.81	0.01							1.0
MESJ	HE	185	343	AML		042	16.09		2	0.1					

October 21 2010 Hour: 2:49 56.3 Lat: 34.71S Lon: 73.74W Depth: 7F Agency: IGL Distant  
Magnitudes: 5.5MS IGL Rms: 0.1 secs

OFF COAST OF O'HIGGINS, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10425	46	EP			3 3	13.66	-0.11							1.0
MORF	BE10425	46	ES			313	48.68	-0.05							1.0
MORF	BZ10425	46	AMS			345	22.99		1519	17.2					
MESJ	BZ10492	46	EP			3 3	16.44	-0.05							1.0
MESJ	BE10492	46	ES			313	52.19	0.22							1.0
MESJ	BZ10492	46	AMS			345	50.35		1782	20.4					

October 21 2010 Hour: 5:9 44.2 Lat: 37.03N Lon: 5.53W Depth: 10F 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	254	291	EP		510	20.19	0.02							1.0
MORF	HZ	279	277	EP		510	23.22	-0.02							1.0

October 21 2010 Hour: 9:2 21.7 Lat: 36.73N Lon: 7.56W Depth: 0 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	116	304	EP		9 2	40.33	-0.16							1.0
MORF	HN	116	304	ES		9 2	54.27	0.09							1.0
MORF	HN	116	304	AML		9 2	57.36		10	0.3					
MESJ	HE	136	335	ES		9 2	59.86	0.08							1.0
MESJ	HN	136	335	AML		9 3	0.80		3	0.2					



**October 21 2010 Hour: 17:28 3.1 Lat: 36.64N Lon: 11.19W Depth: 26F 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	238	71	EP		1728	35.80	0.03							1.0
MORF	HN	238	71	ES		1728	59.67	0.06							1.0
MORF	HN	238	71	AML		1729	0.93		101	0.3					
MESJ	HZ	295	62	EP		1728	42.84	-0.02							1.0
MESJ	HN	295	62	ES		1729	11.80	-0.08							1.0
MESJ	HN	295	62	AML		1729	13.56		42	0.2					

**October 21 2010 Hour: 17:33 5.8 Lat: 36.50N Lon: 7.19W Depth: 27F Agency: IGL Regional**  
**Magnitudes: 2.7ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	158	305	EP		1733	28.23	-0.28							1.0
MORF	HE	158	305	ES		1733	45.02	-0.04							1.0
MORF	HN	158	305	AML		1733	46.71		87	0.2					
MESJ	HZ	175	329	EP		1733	30.83	0.29							1.0
MESJ	HN	175	329	ES		1733	48.59	0.03							1.0
MESJ	HN	175	329	AML		1733	50.74		81	0.2					

**October 21 2010 Hour: 17:53 14.6 Lat: 24.84N Lon: 109.17W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 7.2MS IGL Rms: 0.2 secs**

**GULF OF CALIFORNIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9140	51	EP		18 5	36.14	0.32							0.9
GGNV	BE	9140	51	ES		1815	51.40	-0.13							1.0
GGNV	BZ	9140	51	AMS		1840	20.23		107000	18.8					
MORF	BZ	9247	52	EP		18 5	41.07	0.13							1.0
MORF	BE	9247	52	ES		1816	1.40	-0.13							1.0
MORF	BN	9247	52	AMS		1836	43.90		95102	22.2					
MESJ	BZ	9255	52	EP		18 5	41.22	-0.04							1.0
MESJ	BE	9255	52	ES		1816	2.09	-0.09							1.0
MESJ	BZ	9255	52	AMS		1842	58.41		86346	17.1					

**October 22 2010 Hour: 2:57 26.7 Lat: 36.21N Lon: 9.60W Depth: 0 Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	148	35	EP		257	50.54	-0.02							1.0
MORF	HE	148	35	ES		258	7.93	-0.02							1.0
MORF	HE	148	35	AML		258	8.81		7	0.2					
MESJ	HZ	219	34	EP		257	59.34	-0.01							1.0
MESJ	HN	219	34	ES		258	23.21	0.05							1.0
MESJ	HN	219	34	AML		258	25.16		3	0.2					

**October 22 2010 Hour: 3:54 28.7 Lat: 36.59N Lon: 7.53W Depth: 16F 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
MORF	HZ	128	309	EP		354	48.34	-0.17							1.0
MESJ	HZ	152	336	EP		354	51.60	0.14							1.0
MESJ	HE	152	336	ES		355	8.07	0.03							1.0
MESJ	HE	152	336	AML		355	10.05		2	0.0					

**October 22 2010 Hour: 9:15 43.0 Lat: 36.20N Lon: 7.74W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	147	327	EP		916	5.95	-0.02							1.0
MESJ	HZ	187	347	EP		916	10.87	0.01							1.0
MESJ	HN	187	347	ES		916	31.22	0.02							1.0

MESJ HN 187 347 AML 916 32.45 14 0.1

**October 22 2010 Hour: 10:12 7.3 Lat: 35.78N Lon: 3.77W Depth: 1F Agency: IGL Regional  
Rms: 0.0 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	458	301	EP		1013	9.58	0.03							1.0

**October 22 2010 Hour: 15:38 13.5 Lat: 55.53N Lon: 35.25W Depth: 10F Agency: IGL Distant  
Magnitudes: 4.7MB IGL Rms: 0.0 secs**

**REYKJANES RIDGE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2819	123	EP		1543	40.77	0.04							1.0
MESJ	BZ	2819	123	AMb		1543	52.23			22	1.7				
MORF	BZ	2843	124	EP		1543	42.77	-0.04							1.0
MORF	BZ	2843	124	AMb		1543	50.93			24	1.1				

**October 22 2010 Hour: 19:31 32.8 Lat: 20.86S Lon: 68.45W Depth: 88F Agency: IGL Distant  
Magnitudes: 5.3MB IGL Rms: 0.2 secs**

**POTOSI, BOLIVIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8980	44	EP		1943	36.75	0.31							1.0
MORF	BZ	8980	44	AMb		1943	39.83			75	1.1				
MORF	BE	8980	44	ES		1953	37.28	-0.23							1.0
GGNV	BZ	9035	43	EP		1943	38.79	-0.16							1.0
GGNV	BZ	9035	43	AMb		1943	41.43			64	1.3				
GGNV	BE	9035	43	ES		1953	42.28	-0.15							1.0
MESJ	BZ	9046	44	EP		1943	39.77	0.28							1.0
MESJ	BZ	9046	44	AMb		1943	43.08			54	0.7				
MESJ	BE	9046	44	ES		1953	43.45	-0.02							1.0

**October 23 2010 Hour: 1:38 14.3 Lat: 29.59S Lon: 71.11W Depth: 44F Agency: IGL Distant  
Magnitudes: 5.2MS IGL Rms: 0.1 secs**

**COQUIMBO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9854	45	EP		151	2.30	-0.18							1.0
MORF	BZ	9854	45	AMS		231	9.59			1035	20.3				
GGNV	BZ	9920	44	EP		151	5.29	0.14							1.0
GGNV	BZ	9920	44	AMS		229	45.05			991	18.4				
MESJ	BZ	9921	45	EP		151	5.29	0.04							1.0
MESJ	BZ	9921	45	AMS		231	36.84			858	20.0				

**October 23 2010 Hour: 5:58 31.5 Lat: 37.77S Lon: 73.47W Depth: 35F Agency: IGL Distant  
Magnitudes: 5.5MS IGL Rms: 0.1 secs**

**BIO-BIO, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	10639	46	EP		611	53.16	-0.10							1.0
MORF	BE	10639	46	AMS		652	56.88			1718	21.3				
MESJ	BZ	10707	46	EP		611	56.08	0.10							1.0
MESJ	BZ	10707	46	AMS		653	29.03			1726	17.2				

**October 23 2010 Hour: 11: 8 22.7 Lat: 4.72N Lon: 35.92E Depth: 10F Agency: IGL Distant  
Magnitudes: 4.8MB IGL Rms: 0.1 secs**

**LAKE RUDOLF REGION, KENYA-SUDAN Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5784	316	EP		1117	32.12	0.09							1.0
MESJ	BZ	5784	316	AMb		1117	44.75			19	1.3				

**October 23 2010 Hour: 20: 6 12.3 Lat: 37.38N Lon: 9.12W Depth: 28F Agency: IGL Regional**  
**Magnitudes: 2.3ML 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	42	101	EP		20	6	20.16	0.03						1.0
MORF	HE	42	101	ES		20	6	25.87	0.01						1.0
MORF	HE	42	101	AML		20	6	26.78		428	0.2				
MESJ	HZ	94	57	EP		20	6	26.82	-0.14						1.0
MESJ	HE	94	57	ES		20	6	37.78	0.11						1.0
MESJ	HN	94	57	AML		20	6	41.69		33	0.2				

**October 24 2010 Hour: 23:42 8.0 Lat: 42.33N Lon: 8.58W Depth: 11F 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	499	176	EP		2343	14.02	-0.06							1.0
MORF	HZ	558	181	EP		2343	21.25	0.07							1.0

**October 25 2010 Hour: 7:40 40.9 Lat: 34.64N Lon: 23.53E Depth: 2F Agency: IGL Distant**  
**Magnitudes: 5.0MB 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	2863	286	EP		746	12.98	0.12							1.0
MESJ	BZ	2863	286	AMB		746	17.88			44	1.4				
MESJ	BE	2863	286	ES		750	43.63	-0.12							1.0

**October 25 2010 Hour: 12: 5 28.1 Lat: 0.05S Lon: 125.09E Depth: 26F Agency: IGL Distant**  
**Magnitudes: 5.4MS IGL Rms: 0.2 secs**

**MOLUCCA SEA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13684	317	EP			1224	21.61	-0.11							1.0
MESJ	BZ13684	317	EPP			1226	0.70	0.07							1.0
MESJ	BN13684	317	ESS			1242	43.92	-0.20							1.0
MESJ	BZ13684	317	AMS			1327	50.01			731	21.1				
GGNV	BZ13705	318	EPP			1226	2.15	0.30							1.0
GGNV	BE13705	318	AMS			1317	3.10			1050	14.2				
MORF	BZ13747	316	EP			1224	22.78	-0.06							1.0
MORF	BZ13747	316	AMS			1328	15.88			704	20.8				

**October 25 2010 Hour: 14:42 21.6 Lat: 3.47S Lon: 100.12E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 7.1MS IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11865	308	EP			1456	35.91	0.00							1.0
MESJ	BN11865	308	ESS			1516	6.68	-0.05							1.0
MESJ	BN11865	308	AMS			1549	16.42			44982	17.8				
MORF	BZ11911	308	EP			1456	38.15	0.32							0.8
MORF	BE11911	308	ES			15	7	17.95	-0.05						1.0
MORF	BN11911	308	ESS			1516	12.50	-0.01							1.0
MORF	BZ11911	308	AMS			16	2	6.77		63710	20.1				
GGNV	BE11930	309	ESS			1516	14.51	-0.10							1.0
GGNV	BE11930	309	AMS			1547	1.41			63242	20.7				

**October 25 2010 Hour: 23: 4 3.5 Lat: 36.30N Lon: 8.33W Depth: 12F 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	115	346	EP		23	4	21.60	-0.04						1.0
MORF	HN	115	346	ES		23	4	35.01	0.11						1.0
MORF	HN	115	346	AML		23	4	35.94		4	0.2				
MESJ	HZ	171	3	EP		23	4	28.86	-0.11						1.0
MESJ	HE	171	3	ES		23	4	47.60	0.03						1.0
MESJ	HE	171	3	AML		23	4	48.22		4	0.2				

**October 26 2010 Hour: 13:57 45.5 Lat: 37.81N Lon: 9.13W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	70	143	EP		1357	57.03	0.19							1.0
MORF	HN	70	143	ES		1358	5.18	0.04							1.0
MORF	HN	70	143	AML		1358	6.45			24	0.2				
MESJ	HZ	80	87	EP		1357	58.14	-0.20							1.0
MESJ	HE	80	87	ES		1358	7.72	-0.03							1.0
MESJ	HE	80	87	AML		1358	9.06			19	0.1				

**October 26 2010 Hour: 23: 5 46.2 Lat: 36.20N Lon: 9.53W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.2ML IGL Rms: 0.2 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	146	32	EP		23 6	9.58	-0.06							1.0
MORF	HE	146	32	ES		23 6	26.66	-0.08							1.0
MORF	HE	146	32	AML		23 6	28.26			41	0.1				
MESJ	HZ	216	32	EP		23 6	18.38	-0.12							1.0
MESJ	HN	216	32	ES		23 6	42.36	0.28							1.0
MESJ	HN	216	32	AML		23 6	43.95			16	0.1				

**October 28 2010 Hour: 2:22 25.7 Lat: 23.14N Lon: 108.50W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.2MS IGL Rms: 0.2 secs**

**GULF OF CALIFORNIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9309	52	EP		234	54.92	0.00							1.0
MORF	BE	9309	52	ES		245	16.26	-0.31							1.0
MORF	BZ	9309	52	AMS		312	32.83			921	19.9				
MESJ	BZ	9320	52	EP		234	55.38	0.04							1.0
MESJ	BE	9320	52	ES		245	17.35	0.26							1.0
MESJ	BZ	9320	52	AMS		312	59.42			1120	16.3				

**October 28 2010 Hour: 3:17 27.5 Lat: 5.62S Lon: 153.61E Depth: 52F Agency: IGL Distant  
Rms: 0.2 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
MESJ	BZ16020	335	EP			336	56.27	-0.19							1.0
MORF	BZ16090	335	EP			336	56.98	0.19							1.0

**October 28 2010 Hour: 3:59 40.9 Lat: 36.53N Lon: 71.04E Depth: 177F Agency: IGL Distant  
Magnitudes: 4.8MB IGL Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6811	297	EP		4 9	37.34	0.02							1.0
MESJ	BZ	6811	297	AMb		4 9	39.00			44	1.1				
MORF	BZ	6871	297	EP		4 9	40.98	-0.02							1.0
MORF	BZ	6871	297	AMb		4 9	43.37			37	1.5				

**October 28 2010 Hour: 5:20 3.3 Lat: 35.40N Lon: 13.24W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.5 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	463	61	EP		521	5.88	-0.29							1.0
MORF	HE	463	61	ES		521	52.04	-0.01							1.0
MORF	HN	463	61	AML		521	53.63			3	0.4				
MESJ	HZ	524	57	EP		521	13.02	-0.54							1.0
MESJ	HN	524	57	ES		522	5.69	0.85							1.0
MESJ	HN	524	57	AML		522	8.18			1	0.3				

October 28 2010 Hour: 10:41 28.1 Lat: 35.77N Lon: 6.96W Depth: 0 Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	228	319	EP		1042	1.77	-0.19							1.0
MORF	HN	228	319	ES		1042	26.57	-0.07							1.0
MORF	HN	228	319	AML		1042	29.80			11	0.1				
MESJ	HZ	256	334	EP		1042	5.56	0.20							1.0
MESJ	HE	256	334	ES		1042	32.60	0.07							1.0
MESJ	HN	256	334	AML		1042	36.26			8	0.3				

October 28 2010 Hour: 15: 9 30.3 Lat: 36.40N Lon: 9.72W Depth: 9F 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	139	43	EP		15 9	52.14	0.03							1.0
MORF	HN	139	43	ES		1510	8.00	-0.02							1.0
MORF	HN	139	43	AML		1510	8.36			7	0.3				
MESJ	HZ	208	39	EP		1510	0.66	-0.05							1.0
MESJ	HE	208	39	ES		1510	22.93	0.04							1.0
MESJ	HE	208	39	AML		1510	24.33			2	0.0				

October 28 2010 Hour: 21:41 15.1 Lat: 0.36S Lon: 19.99W Depth: 10F Agency: IGL Distant  
Magnitudes: 4.9MB IGL Rms: 0.1 secs

CENTRAL MID-ATLANTIC RIDGE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	4332	14	EP		2148	41.17	-0.08							1.0
MORF	BZ	4332	14	AMB		2148	45.87			48	1.5				
MESJ	BZ	4400	15	EP		2148	46.41	0.08							1.0
MESJ	BZ	4400	15	AMB		2148	50.45			34	2.1				

October 29 2010 Hour: 0:31 59.3 Lat: 36.73N Lon: 8.25W Depth: 23F 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	73	331	EP		032	11.22	-0.02							1.0
MORF	HN	73	331	ES		032	19.97	0.04							1.0
MORF	HE	73	331	AML		032	22.62			5	0.1				
MESJ	HZ	123	1	EP		032	17.95	0.05							1.0
MESJ	HE	123	1	ES		032	31.38	-0.08							1.0
MESJ	HE	123	1	AML		032	32.06			2	0.3				

October 29 2010 Hour: 16:16 53.1 Lat: 36.38N Lon: 11.27W Depth: 32F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	255	65	EP		1617	27.74	0.17							1.0
MORF	HE	255	65	ES		1617	52.57	-0.17							1.0
MORF	HE	255	65	AML		1617	54.25			6	0.3				
MESJ	HZ	316	58	EP		1617	35.15	0.09							1.0
MESJ	HN	316	58	ES		1618	5.62	-0.08							1.0
MESJ	HE	316	58	AML		1618	6.93			0.70	0.2				
MESJ	HN	316	58	AML		1618	7.11			2	0.5				

October 30 2010 Hour: 1:43 36.1 Lat: 36.13N Lon: 9.59W Depth: 4F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.2 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	155	32	EP		144	0.43	-0.05							1.0
MORF	HE	155	32	ES		144	17.95	-0.31							1.0
MORF	HN	155	32	AML		144	18.91			29	0.2				
MESJ	HZ	226	32	EP		144	9.26	0.08							1.0
MESJ	HN	226	32	ES		144	33.63	0.30							1.0

MESJ HN 226 32 AML 144 34.77 10 0.2

**October 30 2010 Hour: 9:54 1.0 Lat: 7.98S Lon: 71.27W Depth:628FAgency: IGL Distant  
Magnitudes: 4.8MB IGL Rms: 0.0 secs**

**AMAZONAS, BRASIL Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8208	48	EP		10	4	33.01	-0.03						1.0
MORF	BZ	8208	48	AMb		10	4	35.51		129	1.6				