

# Seismological Bulletin

from the

UNIVERSITY OF LISBON  
FACULTY OF SCIENCE

## IDL Seismic Network

January to February

2020

Instituto D. Luiz  
University of Lisbon  
Faculty of Science  
Campo Grande  
Edifício C1, Piso 1  
1749 016 Lisboa  
Portugal

Tel : +351-213921866  
E-Mail : sigidl@fc.ul.pt

IDL.UL.PT

## STATIONS USED

The stations listed below are those operated by the Instituto D. Luiz, Faculty of Science, University of Lisbon (FCUL).  
Former Instituto Geofisico Infante D.Luiz.

Lisboa (IGIDL)  
GGNV

Latitude	38.7165N
Longitude	9.1491W
Height	77m

Marmelete (Picos)  
MORF

Latitude	37.3043N
Longitude	8.6527W
Height	560m

Messejana  
MESJ

Latitude	37.8395N
Longitude	8.2199W
Height	250m

January 1 2020 Hour: 9:9 46.4 Lat: 36.96N Lon: 2.36W Depth: 1F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	528	282	EP		910	57.01	-.050							1.0
MORF	HZ	561	276	EP		911	1.070	.050							1.0

January 1 2020 Hour: 12:45 45.1 Lat: 37.50N Lon: 8.31W Depth: 6F Agency: IGL Regional  
Magnitudes: 0.1ML IGL Rms: 0.1 secs

SW OURIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	37	235	EP		1245	51.370	.150							1.0
MORF	HN	37	235	ES		1245	55.61	-.070							1.0
MORF	HN	37	235	IAML		1245	56.96			3	0.2				
MESJ	HZ	39	12	EP		1245	51.400	.000							1.0
MESJ	HE	39	12	ES		1245	55.90	-.090							1.0
MESJ	HN	39	12	IAML		1245	56.97			2	0.1				

January 1 2020 Hour: 13:11 30.1 Lat: 36.51N Lon: 7.44W Depth: 13F Agency: IGL Regional  
Magnitudes: 1.0ML 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
MESJ	HZ	163	335	EP		1311	54.41	-.120							1.0
MESJ	HE	163	335	ES		1312	12.450	.120							1.0
MESJ	HN	163	335	IAML		1312	14.97			2	0.2				

January 1 2020 Hour: 15:18 9.6 Lat: 37.01N Lon: 13.48W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	430	84	EP		1519	4.90	-.000							1.0
MORF	HE	430	84	ES		1519	45.14	-.110							1.0
MORF	HN	430	84	IAML		1519	48.47			10	0.3				
MESJ	HZ	475	77	EP		1519	10.290	.020							1.0
MESJ	HE	475	77	ES		1519	54.630	.100							1.0
MESJ	HN	475	77	IAML		1519	58.11			2	0.2				

January 1 2020 Hour: 22:54 26.1 Lat: 36.61N Lon: 10.68W Depth: 28F 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	196	66	EP		2254	53.520	.060							1.0
MORF	HE	196	66	ES		2255	13.37	-.060							1.0
MORF	HN	196	66	IAML		2255	15.17			5	0.1				
MESJ	HZ	257	57	EP		2255	1.02	-.000							1.0

January 2 2020 Hour: 2:36 55.9 Lat: 38.00N Lon: 9.16W Depth: 5F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

W SINES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	85	102	EP		237	9.670	.100							1.0
MESJ	HE	85	102	ES		237	19.630	.090							1.0
MESJ	HN	85	102	IAML		237	21.71			2	0.2				
MORF	HZ	89	150	EP		237	10.13	-.200							1.0
MORF	HE	89	150	ES		237	20.860	.000							1.0
MORF	HN	89	150	IAML		237	23.33			5	0.2				

January 2 2020 Hour: 4:29 6.5 Lat: 34.15N Lon: 60.30E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.6Mb IGL Rms: 0.1 secs

**NORTHEASTERN IRAN Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6052	295	EP		438	33.74	-.130							1.0
MESJ	BZ	6052	295	IAmb		438	34.34			29	0.9				
GGNV	BZ	6099	296	EP		438	36.990	.120							1.0
GGNV	BZ	6099	296	IAmb		438	38.52			163	1.2				
MORF	BZ	6108	295	EP		438	37.550	.010							1.0
MORF	BZ	6108	295	IAmb		438	38.35			126	1.6				

January 2 2020 Hour: 6:28 28.2 Lat: 36.59N Lon: 12.63W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.2ML IGL Rms: 0.1 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	363	76	EP		629	15.20	-.170							1.0
MORF	HN	363	76	ES		629	49.800	.010							1.0
MORF	HE	363	76	IAML		629	52.86			12	0.1				
MESJ	HZ	415	69	EP		629	21.810	.130							1.0
MESJ	HN	415	69	ES		630	0.740	.040							1.0
MESJ	HN	415	69	IAML		630	5.50			3	0.2				

January 2 2020 Hour: 8:54 32.6 Lat: 55.55N Lon: 151.39W Depth: 8F Agency: IGL Distant  
Magnitudes: 4.7Mb IGL Rms: 0.0 secs

**SOUTH OF ALASKA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9086	29	EP		9 6	51.63	-.010							1.0
MESJ	BZ	9086	29	IAmb		9 6	53.18			7	1.0				

January 2 2020 Hour: 13:41 31.8 Lat: 9.66S Lon: 159.92E Depth: 32F Agency: IGL Distant  
Rms: 0.0 secs

**SOLOMON ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	16694	341	EPKP		14 1	19.290	.030							1.0
MORF	BZ	16764	341	EPKP		14 1	20.89	-.030							1.0

January 2 2020 Hour: 20:14 2.5 Lat: 36.69N Lon: 11.31W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	246	73	EP		2014	35.370	.200							1.0
MORF	HE	246	73	ES		2014	58.82	-.170							1.0
MORF	HN	246	73	IAML		2015	1.96			8	0.2				
MESJ	HZ	302	64	EP		2014	42.11	-.000							1.0
MESJ	HE	302	64	ES		2015	10.97	-.030							1.0
MESJ	HE	302	64	IAML		2015	13.60			1	0.1				

January 2 2020 Hour: 22:38 2.9 Lat: 36.97N Lon: 8.40W Depth: 16F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	329	EP		2238	10.13	-.130							1.0
MORF	HN	43	329	ES		2238	15.62	-.010							1.0
MORF	HE	43	329	IAML		2238	17.67			13	0.1				
MESJ	HZ	98	9	EP		2238	18.610	.190							1.0
MESJ	HE	98	9	ES		2238	29.72	-.030							1.0
MESJ	HN	98	9	IAML		2238	31.53			3	0.2				

January 3 2020 Hour: 0:28 47.6 Lat: 36.54N Lon: 7.77W Depth: 18F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	150	345	EP		029	10.040	.140							1.0
MESJ	HE	150	345	ES		029	26.03-	.140							1.0
MESJ	HN	150	345	IAML		029	30.21			1	0.1				

January 3 2020 Hour: 1:19 10.3 Lat: 40.25N Lon: 139.33E Depth:194FAgency: IGL Distant  
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

NEAR WEST COAST OF HONSHU, JAPAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ10760	335	EP			132	18.540	.000							1.0
MESJ	BZ10760	335	IAMB			132	19.80			4	0.7				

January 3 2020 Hour: 6:41 23.4 Lat: 36.70N Lon: 9.71W Depth: 20F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	116	54	EP		641	41.340	.010							1.0
MORF	HE	116	54	ES		641	54.470	.050							1.0
MORF	HN	116	54	IAML		641	55.35			29	0.1				
MESJ	HZ	183	46	EP		641	49.63-	.040							1.0
MESJ	HN	183	46	ES		642	8.81-	.030							1.0
MESJ	HN	183	46	IAML		642	10.53			5	0.1				

January 3 2020 Hour: 9:50 27.9 Lat: 38.88N Lon: 8.03W Depth: 18F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

SE MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	117	188	EP		950	46.250	.110							1.0
MESJ	HN	117	188	ES		950	59.31-	.110							1.0
MESJ	HE	117	188	IAML		951	0.09			5	0.2				

January 3 2020 Hour: 9:51 16.4 Lat: 38.88N Lon: 8.03W Depth: 17F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

SE MORA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	117	188	EP		951	34.800	.130							1.0
MESJ	HE	117	188	ES		951	48.070	.040							1.0
MESJ	HN	117	188	IAML		951	48.65			23	0.1				
MORF	HZ	183	198	EP		951	42.79-	.180							1.0

January 3 2020 Hour: 12: 3 42.4 Lat: 37.32N Lon: 9.14W Depth: 38F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

W ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	92	EP		12 3	50.990	.130							1.0
MORF	HE	43	92	ES		12 3	56.93-	.130							1.0
MORF	HE	43	92	IAML		12 3	57.99			5	0.2				

January 3 2020 Hour: 15:28 53.5 Lat: 11.74N Lon: 86.29W Depth:115FAgency: IGL Distant  
Magnitudes: 4.6Mb IGL Rms: 0.2 secs

NEAR COAST OF NICARAGUA Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8147	54	EP		1540	11.83-	.190							1.0
MORF	BZ	8147	54	IAMB		1540	15.68			16	1.0				
MORF	BZ	8147	54	EpP		1540	40.880	.250							1.0
MESJ	BZ	8183	54	EP		1540	13.70-	.160							1.0
MESJ	BZ	8183	54	IAMB		1540	15.01			5	0.8				
MESJ	BZ	8183	54	EpP		1540	42.610	.110							1.0

January 4 2020 Hour: 1:48 13.0 Lat: 36.58N Lon: 9.80W Depth: 15F 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	130	51	EP		148	33.11	-.060							1.0
MORF	HN	130	51	ES		148	47.95	0.070							1.0
MORF	HE	130	51	IAML		148	50.57		20	0.1					
MESJ	HZ	198	45	EP		148	41.56	-.020							1.0
MESJ	HN	198	45	ES		149	2.46	0.020							1.0
MESJ	HN	198	45	IAML		149	4.69		3	0.1					

January 4 2020 Hour: 12:53 28.1 Lat: 43.18N Lon: 15.49W Depth: 26F Agency: IGL Regional  
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
MESJ	HZ	854	131	EP		1255	15.42	0.140							1.0
MORF	HZ	873	136	EP		1255	17.41	-.140							1.0

January 4 2020 Hour: 14: 7 38.6 Lat: 36.35N Lon: 8.16W Depth: 19F 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	115	338	EP		14 7	56.57	0.070							1.0
MESJ	HZ	165	358	EP		14 8	2.77	0.000							1.0
MESJ	HE	165	358	ES		14 8	20.33	-.080							1.0
MESJ	HE	165	358	IAML		14 8	21.80		1	0.2					

January 4 2020 Hour: 16: 3 32.6 Lat: 36.79N Lon: 8.17W Depth: 26F Agency: IGL Regional  
Magnitudes: 2.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	71	323	EP		16 3	44.31	0.050							1.0
MORF	HN	71	323	ES		16 3	52.71	-.080							1.0
MORF	HE	71	323	IAML		16 3	53.56		288	0.2					
MESJ	HZ	117	358	EP		16 3	50.27	0.150							1.0
MESJ	HE	117	358	ES		16 4	2.82	-.120							1.0
MESJ	HN	117	358	IAML		16 4	7.35		76	0.2					

January 4 2020 Hour: 18:36 30.4 Lat: 36.72N Lon: 7.80W Depth: 23F Agency: IGL Regional  
Magnitudes: 1.1ML 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	130	343	EP		1836	50.10	0.050							1.0
MESJ	HN	130	343	ES		1837	4.35	-.050							1.0
MESJ	HN	130	343	IAML		1837	6.18		3	0.2					

January 5 2020 Hour: 2:35 38.3 Lat: 36.69N Lon: 7.46W Depth: 24F Agency: IGL Regional  
Magnitudes: 1.0ML 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
MESJ	HZ	144	332	EP		235	59.45	-.010							1.0
MESJ	HE	144	332	ES		236	14.89	0.010							1.0
MESJ	HN	144	332	IAML		236	16.75		2	0.1					

January 5 2020 Hour: 4:40 50.7 Lat: 16.42N Lon: 94.35W Depth: 97F Agency: IGL Distant  
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

OAXACA, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BE	8485	53	ES		5 2	6.13	0.150							1.0
GGNV	BE	8485	53	IAMs_20		518	53.40		6107	30.8					
MORF	BZ	8556	55	EP		452	32.43	-.050							1.0
MORF	BE	8556	55	ES		5 2	13.20	0.090							1.0
MORF	BE	8556	55	IAMs_20		517	37.49		4020	29.6					

MESJ BZ 8583	54 EP	452	33.72	-.040														1.0
MESJ BE 8583	54 ES	5	2	15.45	-.150													1.0
MESJ BZ 8583	54 IAMS_20	517	37.55						4080	33.2								

**January 5 2020 Hour: 14:57 12.5 Lat: 37.65N Lon: 7.79W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.0 secs**

**W MERTOLA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ HZ		43	299	EP		1457	19.730	.030							1.0
MESJ HN		43	299	ES		1457	24.970	.020							1.0
MESJ HN		43	299	IAML		1457	26.70		15	0.1					
MORF HE		85	244	ES		1457	36.25	-.050							1.0
MORF HN		85	244	IAML		1457	40.82		26	0.2					

**January 6 2020 Hour: 1:29 21.3 Lat: 0.24N Lon: 16.99W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.3Mb IGL Rms: 0.1 secs**

**NORTH OF ASCENSION ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF BZ		4194	11	EP		136	36.81	-.140							1.0
MORF BZ		4194	11	IAmb		136	38.71		80	1.3					
MORF BZ		4194	11	EPP		138	2.820	.130							1.0
MORF BE		4194	11	ES		142	28.05	-.100							1.0
MESJ BZ		4261	11	EP		136	41.89	-.090							1.0
MESJ BZ		4261	11	IAmb		136	42.76		63	1.1					
MESJ BZ		4261	11	EPP		138	9.360	.120							1.0
MESJ BE		4261	11	ES		142	37.410	.240							0.9
GGNV BZ		4337	10	EP		136	47.51	-.170							1.0
GGNV BZ		4337	10	IAmb		136	50.21		72	1.1					
GGNV BZ		4337	10	EPP		138	16.720	.030							1.0

**January 6 2020 Hour: 10:32 20.7 Lat: 17.88N Lon: 66.77W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.6Ms IGL Rms: 0.1 secs**

**PUERTO RICO REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV BE		6000	55	ES		1049	20.750	.130							1.0
GGNV BZ		6000	55	IAMS_20		1059	30.68		5164	19.5					
MORF BZ		6030	57	EP		1041	46.25	-.170							1.0
MORF BE		6030	57	ES		1049	24.490	.070							1.0
MORF BZ		6030	57	IAMS_20		1059	39.17		6090	19.9					
MESJ BZ		6072	56	EP		1041	49.09	-.070							1.0
MESJ BE		6072	56	ES		1049	29.520	.030							1.0
MESJ BZ		6072	56	IAMS_20		1059	39.96		5854	19.5					

**January 6 2020 Hour: 15:58 0.5 Lat: 39.24N Lon: 9.28W Depth: 13F Agency: IGL Regional**  
**Magnitudes: 2.6ML IGL Rms: 0.1 secs**

**E LOURINHA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV HZ		59	169	EP		1558	10.250	.130							1.0
GGNV HN		59	169	ES		1558	17.250	.100							1.0
GGNV HE		59	169	IAML		1558	18.33		912	0.2					
MESJ HZ		181	149	EP		1558	27.130	.050							0.9
MESJ HZ		181	149	EPg		1558	28.39	-.160							0.9
MESJ HE		181	149	ESg		1558	49.080	.030							0.9
MESJ HN		181	149	IAML		1558	52.00		20	0.1					
MORF HZ		222	165	EP		1558	31.99	-.210							0.9
MORF HE		222	165	ES		1558	55.380	.030							0.9
MORF HE		222	165	IAML		1559	4.39		29	0.2					

January 6 2020 Hour: 20:22 55.1 Lat: 36.48N Lon: 9.83W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	139	49	EP		2023	14.480	.010							1.0
MORF	HE	139	49	ES		2023	28.650	.060							1.0
MORF	HE	139	49	IAML		2023	30.29			6	0.2				
MESJ	HZ	208	43	EP		2023	22.990	.020							1.0
MESJ	HE	208	43	ES		2023	43.21	-.080							1.0
MESJ	HE	208	43	IAML		2023	45.38			1	0.1				

January 7 2020 Hour: 4:31 53.3 Lat: 80.04N Lon: 0.16E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.3Mb IGL Rms: 0.0 secs

NORTH OF SVALBARD Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4710	190	EP		439	47.68	-.000							1.0
MESJ	BZ	4710	190	IAMB		439	57.22			129	2.1				

January 7 2020 Hour: 6:5 20.5 Lat: 2.33N Lon: 96.35E Depth: 20F Agency: IGL Distant  
Magnitudes: 6.1Ms IGL Rms: 0.1 secs

SIMEULUE, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ11137	309	EPdif			619	4.00	-.090							1.0
MESJ	BZ11137	309	EPP			623	9.430	.020							1.0
MESJ	BE11137	309	ESKSac			629	41.720	.090							1.0
MESJ	BZ11137	309	IAMS_20			7 8	31.51			5774	22.4				
MORF	BZ11185	308	EPP			623	12.800	.010							1.0
MORF	BZ11185	308	IAMS_20			7 6	2.66			4123	17.6				
GGNV	BE11197	310	ESKSac			629	44.22	-.030							1.0
GGNV	BZ11197	310	IAMS_20			717	36.11			25786	67.1				

January 7 2020 Hour: 8:24 26.6 Lat: 17.92N Lon: 66.81W Depth: 10F Agency: IGL Distant  
Magnitudes: 6.4Ms IGL Rms: 0.0 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	6001	55	EP		833	50.29	-.030							1.0
GGNV	BE	6001	55	ES		841	26.61	-.010							1.0
GGNV	BZ	6001	55	IAMS_20		850	56.86			26142	21.9				
MORF	BZ	6031	57	EP		833	52.410	.020							1.0
MORF	BN	6031	57	ES		841	30.510	.060							1.0
MORF	BZ	6031	57	IAMS_20		851	47.49			37013	18.6				
MESJ	BZ	6073	56	EP		833	55.120	.000							1.0
MESJ	BE	6073	56	ES		841	35.47	-.040							1.0
MESJ	BZ	6073	56	IAMS_20		851	48.45			34753	19.9				

January 7 2020 Hour: 8:34 2.2 Lat: 17.92N Lon: 66.73W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.4Mb IGL Rms: 0.1 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6024	57	EP		843	27.590	.070							1.0
MORF	BZ	6024	57	IAMB		843	31.29			79	1.5				
MESJ	BZ	6066	56	EP		843	30.19	-.070							1.0
MESJ	BZ	6066	56	IAMB		843	36.10			43	1.3				

January 7 2020 Hour: 11:18 43.6 Lat: 17.98N Lon: 66.73W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.6Ms IGL Rms: 0.1 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BE	5990	55	ES		1135	42.350	.010							1.0
GGNV	BZ	5990	55	IAMS_20		1146	31.52			4806	10.7				
MORF	BZ	6020	57	EP		1128	8.760	.050							1.0
MORF	BZ	6020	57	IAMS_20		1147	1.77			4738	19.3				
MESJ	BZ	6062	56	EP		1128	11.30	-.140							1.0



MESJ BE 6062 56 ES 1135 51.310.080 1.0  
 MESJ BZ 6062 56 IAMs\_20 1147 2.38 4405 19.6

**January 7 2020 Hour: 18:48 39.3 Lat: 36.74N Lon: 7.45W Depth: 24F Agency: IGL Regional  
 Magnitudes: 0.6ML 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
MESJ	HZ	140	331	EP		1848	59.960	.070							1.0
MESJ	HN	140	331	ES		1849	14.85-	.070							1.0
MESJ	HE	140	331	IAML		1849	16.20			0.80	0.1				

**January 7 2020 Hour: 19: 8 57.5 Lat: 12.26N Lon: 86.43W Depth:203F Agency: IGL Distant  
 Magnitudes: 4.9Mb IGL Rms: 0.0 secs**

**NICARAGUA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8125	55	EP		1920	5.230	.050							1.0
MORF	BZ	8125	55	IAMB		1920	7.10			37	0.8				
MESJ	BZ	8161	54	EP		1920	6.95-	.050							1.0
MESJ	BZ	8161	54	IAMB		1920	8.06			15	0.8				

**January 7 2020 Hour: 19:11 35.9 Lat: 5.15S Lon: 151.26E Depth:117F Agency: IGL Distant  
 Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ15859	333	EP	KPdf		1930	54.24-	.030							1.0
MORF	BZ15930	333	EP	KPdf		1930	55.460	.030							1.0

**January 8 2020 Hour: 8:47 44.4 Lat: 20.44S Lon: 68.77W Depth:109F Agency: IGL Distant  
 Rms: 0.0 secs**

**TARAPACA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	9035	44	EP		859	48.190	.010							1.0

**January 8 2020 Hour: 14: 1 53.2 Lat: 15.22N Lon: 61.31W Depth:144F Agency: IGL Distant  
 Magnitudes: 5.3Mb IGL Rms: 0.1 secs**

**DOMINICA REGION, LEEWARD ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	5717	54	EP		1410	43.06-	.080							1.0
MORF	BZ	5717	54	IAMB		1410	44.63			60	1.1				
MESJ	BZ	5765	54	EP		1410	46.410	.080							1.0

**January 8 2020 Hour: 18: 2 21.1 Lat: 37.36N Lon: 2.11W Depth: 1F Agency: IGL Regional  
 Rms: 0.0 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	542	277	EP		18	3	33.420	.010						1.0

**January 9 2020 Hour: 8:38 9.3 Lat: 62.34N Lon: 171.06E Depth: 10F Agency: IGL Distant  
 Magnitudes: 6.5Ms IGL Rms: 0.1 secs**

**CHUKOTKA, RUSSIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BN	8804	0	ES		9	0	14.720	.060						1.0
GGNV	BZ	8804	0	IAMs_20		922	23.75			30162	21.4				
MESJ	BZ	8901	359	EP		850	18.95-	.110							1.0
MESJ	BN	8901	359	ES		9	0	23.970	.020						1.0
MESJ	BN	8901	359	ESS		9	5	36.64-	.130						1.0
MESJ	BZ	8901	359	IAMs_20		921	36.68			20689	27.8				
MORF	BZ	8960	360	EP		850	22.090	.100							1.0
MORF	BN	8960	360	ES		9	0	29.700	.050						1.0
MORF	BZ	8960	360	IAMs_20		923	30.44			31520	18.6				

January 9 2020 Hour: 9:9 42.6 Lat: 37.54N Lon: 8.68W Depth: 12F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.1 secs

SW ODEMIRA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	26	175	EP		9 9	47.500	.240							1.0
MORF	HN	26	175	ES		9 9	50.54	-.140							1.0
MORF	HN	26	175	IAML		9 9	51.49			50	0.2				
MESJ	HZ	52	51	EP		9 9	51.15	-.030							1.0
MESJ	HE	52	51	ES		9 9	57.41	-.070							1.0
MESJ	HE	52	51	IAML		9 9	57.97			4	0.1				

January 10 2020 Hour: 0:10 53.9 Lat: 35.84N Lon: 8.66W Depth: 28F Agency: IGL Regional  
Magnitudes: 2.3ML 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	162	0	EP		011	16.89	-.130							1.0
MORF	HE	162	0	ES		011	33.86	-.070							1.0
MORF	HE	162	0	IAML		011	34.45			55	0.2				
MESJ	HZ	225	10	EP		011	24.940	.140							1.0
MESJ	HN	225	10	ES		011	47.450	.070							1.0
MESJ	HN	225	10	IAML		011	48.31			12	0.2				

January 11 2020 Hour: 1:39 49.2 Lat: 36.66N Lon: 7.60W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.0ML 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	118	308	EP		140	7.540	.050							1.0
MESJ	HZ	142	337	EP		140	10.500	.050							1.0
MESJ	HE	142	337	ES		140	25.87	-.100							1.0
MESJ	HN	142	337	IAML		140	26.87			2	0.1				

January 11 2020 Hour: 12:54 45.4 Lat: 17.87N Lon: 66.83W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	6005	55	EP		13 4	9.450	.060							1.0
GGNV	BZ	6005	55	IAMs_20		1322	19.09			8496	16.5				
MORF	BZ	6036	57	EP		13 4	11.600	.140							1.0
MORF	BE	6036	57	ES		1311	49.69	-.090							1.0
MORF	BZ	6036	57	IAMs_20		1323	7.16			10871	18.8				
MESJ	BZ	6078	56	EP		13 4	14.200	.010							1.0
MESJ	BE	6078	56	ES		1311	54.73	-.120							1.0
MESJ	BZ	6078	56	IAMs_20		1323	8.73			10642	23.8				

January 11 2020 Hour: 23:22 58.6 Lat: 36.54N Lon: 11.06W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	231	68	EP		2323	30.10	-.020							1.0
MORF	HE	231	68	ES		2323	53.140	.020							1.0
MORF	HE	231	68	IAML		2323	54.87			3	0.1				

January 12 2020 Hour: 5:23 55.8 Lat: 35.01N Lon: 74.46E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

NORTHWESTERN KASHMIR Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7164	299	EP		534	32.32	-.020							1.0
MESJ	BZ	7164	299	IAMB		534	33.20			18	1.0				

January 12 2020 Hour: 9:47 57.3 Lat: 37.34N Lon: 9.20W Depth: 32F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

W ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	49	94	EP		948	6.02	-.150							1.0
MORF	HE	49	94	ES		948	12.780	.150							1.0
MORF	HN	49	94	IAML		948	13.27			3	0.1				

January 12 2020 Hour: 14:32 6.7 Lat: 36.62N Lon: 4.98W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	318	296	EP		1432	48.94	-.060							1.0
MESJ	HN	318	296	ES		1433	19.930	.060							1.0
MESJ	HN	318	296	IAML		1433	22.55			3	0.1				

January 12 2020 Hour: 16:48 4.7 Lat: 7.36S Lon: 155.86E Depth: 35F Agency: IGL Distant  
Rms: 0.1 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16296	337	EP	KPab		17 7	42.930	.070							1.0
MORF	BZ16367	337	EP	KPab		17 7	45.35	-.070							1.0

January 13 2020 Hour: 2: 8 45.8 Lat: 36.91N Lon: 8.18W 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	61	316	EP		2 8	55.76	-.000							1.0
MORF	HN	61	316	ES		2 9	3.170	.100							1.0
MORF	HE	61	316	IAML		2 9	4.08			27	0.2				
MESJ	HZ	103	358	EP		2 9	1.88	-.210							1.0
MESJ	HE	103	358	ES		2 9	14.130	.110							1.0
MESJ	HE	103	358	IAML		2 9	15.28			4	0.2				

January 13 2020 Hour: 4:56 16.0 Lat: 37.05N Lon: 5.45W Depth: 0 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	260	290	EP		456	53.800	.060							1.0
MORF	HZ	286	277	EP		456	56.88	-.060							1.0

January 13 2020 Hour: 8:33 14.1 Lat: 37.26N Lon: 7.39W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.6ML IGL 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	98	311	EP		833	29.56	-.040							1.0
MESJ	HN	98	311	ES		833	40.940	.020							1.0
MESJ	HN	98	311	IAML		833	42.48			6	0.2				
MORF	HZ	112	273	EP		833	31.850	.030							1.0
MORF	HE	112	273	ES		833	44.76	-.000							1.0
MORF	HN	112	273	IAML		833	47.62			30	0.3				

January 13 2020 Hour: 20:58 3.6 Lat: 35.90N Lon: 7.54W Depth: 32F Agency: IGL Regional  
Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	224	344	EP		2058	34.08	-.010							1.0

January 14 2020 Hour: 8:12 50.6 Lat: 36.30N Lon: 7.64W Depth: 7F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	143	321	EP		813	13.17	-.050							1.0
MESJ	HE	178	343	ES		813	37.230	.050							1.0
MESJ	HN	178	343	IAML		813	38.32			2	0.1				

January 15 2020 Hour: 0:59 44.7 Lat: 39.28N Lon: 10.30W Depth: 16F Agency: IGL Regional  
Magnitudes: 3.2ML 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
GGNV	HZ	118	122	EP		1	0	3.200	.010						1.0
GGNV	HE	118	122	ES		1	0	16.930	.250						1.0
GGNV	HE	118	122	IAML		1	0	24.38		1059	0.4				
MESJ	HZ	242	131	EP		1	0	18.58	-.030						0.9
MORF	HZ	262	146	EP		1	0	20.81	-.400						0.9
MORF	HE	262	146	ES		1	0	48.010	.140						0.9
MORF	HN	262	146	IAML		1	0	50.84		59	0.2				

January 15 2020 Hour: 4:0 24.2 Lat: 37.34N Lon: 8.54W Depth: 8F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.2 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	11	248	EP		4	0	26.01	-.360						1.0
MORF	HE	11	248	ES		4	0	28.150	.160						1.0
MORF	HN	11	248	IAML		4	0	28.57		76	0.2				
MESJ	HZ	62	27	EP		4	0	34.18	-.100						1.0
MESJ	HE	62	27	ES		4	0	41.980	.310						1.0
MESJ	HE	62	27	IAML		4	0	44.30		2	0.1				

January 15 2020 Hour: 17:2 46.0 Lat: 37.08N Lon: 5.57W Depth: 23F 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	249	291	EP		17	3	20.470	.020						1.0

January 16 2020 Hour: 1:32 11.0 Lat: 37.96N Lon: 8.18W Depth: 1F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs

NW ALJUSTREL, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	14	195	EP		132	13.07	-.120							1.0
MESJ	HE	14	195	ES		132	14.80	-.030							1.0
MESJ	HE	14	195	IAML		132	14.98			267	0.1				
MORF	HZ	84	210	EP		132	24.630	.140							1.0
MORF	HE	84	210	ES		132	34.380	.020							1.0
MORF	HN	84	210	IAML		132	36.17			20	0.2				

January 16 2020 Hour: 1:55 20.1 Lat: 36.73N Lon: 5.45W Depth: 7F Agency: IGL Regional  
Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	275	298	EP		155	58.940	.000							1.0

January 16 2020 Hour: 4:33 40.1 Lat: 34.42N Lon: 4.48W Depth: 1F Agency: IGL Regional  
Rms: 0.0 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	494	312	EP		434	46.770	.040							1.0
MESJ	HZ	507	320	EP		434	48.21	-.040							1.0

January 16 2020 Hour: 5:53 6.4 Lat: 37.70N Lon: 7.83W Depth: 6F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NW MERTOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	38	294	EP		553	12.44	-.110							1.0
MESJ	HE	38	294	ES		553	16.99	-.060							1.0
MESJ	HN	38	294	IAML		553	18.20			13	0.1				
MORF	HZ	85	239	EP		553	20.300	.170							1.0

January 16 2020 Hour: 9:58 19.3 Lat: 0.11N Lon: 17.09W Depth: 10F Agency: IGL Distant  
Magnitudes: 4.8Ms IGL Rms: 0.0 secs

NORTH OF ASCENSION ISLAND Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4277	11	EP		10	5	41.27	0.06						1.0
MESJ	BE	4277	11	ES		1011	37.33	-0.06							1.0
MESJ	BN	4277	11	IAMs_20		1020	32.78			1574	21.0				

January 17 2020 Hour: 2:23 49.6 Lat: 36.13N Lon: 13.92W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	488	73	EP		224	52.910	.160							1.0
MESJ	HZ	542	68	EP		224	59.18	-.020							1.0
MESJ	HN	542	68	ES		225	49.88	-.150							1.0
MESJ	HN	542	68	IAML		225	54.17			2	0.2				

January 17 2020 Hour: 5:43 26.1 Lat: 36.52N Lon: 9.77W Depth: 9F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	132	49	EP		543	46.94	-.010							1.0
MORF	HE	132	49	ES		544	2.20	-.010							1.0
MORF	HN	132	49	IAML		544	3.77			7	0.1				
MESJ	HN	201	43	ES		544	17.110	.020							1.0
MESJ	HN	201	43	IAML		544	19.63			1	0.1				

January 17 2020 Hour: 6:37 53.1 Lat: 11.64S Lon: 13.78W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.8Ms IGL Rms: 0.0 secs

ASCENSION ISLAND REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BN	5445	5	ES		653	44.54	-.010							1.0
MORF	BZ	5445	5	IAMs_20		7	3	15.89		7200	21.8				
MESJ	BN	5509	6	ES		653	52.520	.030							1.0
MESJ	BZ	5509	6	IAMs_20		7	4	22.25		6620	16.1				
GGNV	BE	5596	5	ES		654	3.40	-.020							1.0
GGNV	BZ	5596	5	IAMs_20		7	6	4.93		8715	13.5				

January 17 2020 Hour: 17:49 29.5 Lat: 34.49N Lon: 8.79W Depth: 27F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	313	2	EP		1750	11.18	-.150							1.0
MORF	HE	313	2	ES		1750	41.990	.100							1.0
MORF	HE	313	2	IAML		1750	42.97			9	0.3				
MESJ	HZ	375	8	EP		1750	19.170	.090							1.0
MESJ	HE	375	8	ES		1750	55.26	-.040							1.0
MESJ	HN	375	8	IAML		1750	56.82			2	0.2				

January 17 2020 Hour: 22:110.4 Lat: 37.10N Lon: 3.82W Depth: 1F Agency: IGL Regional  
Rms: 0.0 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	398	283	EP		22	2	5.200	.020						1.0

January 18 2020 Hour: 2:14 54.6 Lat: 38.63N Lon: 6.97W Depth: 1F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.1 secs

SPAIN Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	141	232	EP			215	17.340	.160						1.0
MESJ	HE	141	232	ES			215	33.51	-.160						1.0
MESJ	HN	141	232	IAML			215	35.69			5	0.1			

January 18 2020 Hour: 5:38 13.4 Lat: 36.56N Lon: 7.54W Depth: 21F Agency: IGL Regional  
Magnitudes: 1.0ML 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
MESJ	HZ	154	337	EP			538	36.00	-.020						1.0
MESJ	HN	154	337	ES			538	52.560	.020						1.0
MESJ	HN	154	337	IAML			538	55.50			2	0.3			

January 18 2020 Hour: 16:10 51.3 Lat: 36.57N Lon: 10.87W Depth: 0 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	214	67	EP			1611	23.360	.040						1.0
MORF	HE	214	67	ES			1611	46.760	.050						1.0
MORF	HE	214	67	IAML			1611	49.19			6	0.2			
MESJ	HZ	274	58	EP			1611	30.69	-.120						1.0
MESJ	HN	274	58	ES			1611	59.680	.020						1.0
MESJ	HN	274	58	IAML			1612	3.67			2	0.1			

January 18 2020 Hour: 20:16 20.2 Lat: 36.39N Lon: 11.10W Depth: 31F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	241	64	EP			2016	52.06	-.040						1.0
MORF	HN	241	64	ES			2017	15.470	.040						1.0
MORF	HE	241	64	IAML			2017	17.60			9	0.3			

January 18 2020 Hour: 20:26 56.6 Lat: 37.36N Lon: 8.53W Depth: 12F Agency: IGL Regional  
Magnitudes: 0.5ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	13	240	EP			2026	59.36	-.100						1.0
MORF	HE	13	240	ES			2027	1.47	-.080						1.0
MORF	HN	13	240	IAML			2027	1.85			24	0.1			
MESJ	HZ	60	27	EP			2027	6.610	.260						1.0
MESJ	HN	60	27	ES			2027	13.39	-.070						1.0
MESJ	HN	60	27	IAML			2027	15.19			2	0.1			

January 18 2020 Hour: 22:44 51.9 Lat: 35.12N Lon: 3.20W Depth: 0 Agency: IGL Regional  
Rms: 0.0 secs

MOROCCO Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	542	305	EP			2246	4.26	-.020						1.0

January 18 2020 Hour: 22:48 31.2 Lat: 36.63N Lon: 11.29W Depth: 32F Agency: IGL Regional  
 Magnitudes: 2.1ML IGL Rms: 0.1 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	246	72	EP		2249	4.740	.190							1.0
MORF	HE	246	72	ES		2249	28.83	-.100							1.0
MORF	HE	246	72	IAML		2249	32.01			17	0.2				
MESJ	HZ	304	63	EP		2249	11.60	-.030							1.0
MESJ	HN	304	63	ES		2249	41.11	-.060							1.0
MESJ	HN	304	63	IAML		2249	44.89			5	0.2				

January 18 2020 Hour: 23:48 3.3 Lat: 36.87N Lon: 5.65W Depth: 0 Agency: IGL Regional  
 Rms: 0.0 secs

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	252	296	EP		2348	40.11	-.010							1.0

January 19 2020 Hour: 13:27 58.3 Lat: 39.88N Lon: 77.15E Depth: 11F Agency: IGL Distant  
 Magnitudes: 6.0Ms IGL Rms: 0.1 secs

**SOUTHERN XINJIANG, CHINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	7108	299	EP		1338	31.550	.090							1.0
MESJ	BN	7108	299	ES		1347	7.98	-.070							1.0
MESJ	BN	7108	299	IAMs_20		14 4	15.85			9870	23.7				
GGNV	BN	7127	300	ES		1347	9.99	-.060							1.0
GGNV	BZ	7127	300	IAMs_20		14 8	9.01			9015	22.3				
MORF	BZ	7172	298	EP		1338	35.330	.040							1.0
MORF	BN	7172	298	IAMs_20		14 5	15.84			16048	25.4				

January 19 2020 Hour: 16:58 20.4 Lat: 0.13S Lon: 123.82E Depth: 118F Agency: IGL Distant  
 Rms: 0.1 secs

**SULAWESI, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13594	316	EP	KPdf		1717	0.71	-.100							1.0
MESJ	BZ13594	316	EPP			1718	37.12	-.000							1.0
MORF	BZ13656	316	EP	KPdf		1717	2.010	.080							1.0
MORF	BZ13656	316	EPP			1718	40.980	.020							1.0

January 19 2020 Hour: 20:25 49.1 Lat: 38.23N Lon: 8.00W Depth: 1 Agency: IGL Regional  
 Magnitudes: 1.8ML IGL Rms: 0.0 secs

**S ALVITO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	47	204	EP		2025	56.770	.040							1.0
MESJ	HN	47	204	ES		2026	2.370	.050							1.0
MESJ	HN	47	204	IAML		2026	3.29			24	0.1				
MORF	HZ	118	209	EP		2026	7.98	-.080							1.0
MORF	HN	118	209	ES		2026	21.92	-.010							1.0
MORF	HN	118	209	IAML		2026	23.74			44	0.3				

January 19 2020 Hour: 21:43 26.0 Lat: 38.47N Lon: 8.00W Depth: 12F Agency: IGL Regional  
 Magnitudes: 0.7ML IGL Rms: 0.0 secs

**SW EVORA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	73	195	EP		2143	37.750	.040							1.0
MESJ	HE	73	195	ES		2143	46.20	-.040							1.0
MESJ	HN	73	195	IAML		2143	47.51			3	0.2				

**January 20 2020 Hour: 6:51 38.8 Lat: 59.23S Lon: 26.27W Depth: 91F Agency: IGL Distant**  
**Magnitudes: 5.6Ms IGL Rms: 0.1 secs**

**SOUTH SANDWICH ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10803		14	EP		7 5	0.300	.060							1.0
MORF	BZ10803		14	EPP		7 8	58.73-	.140							1.0
MORF	BZ10803		14	IAMs_20		738	33.88		2683	27.1					
MESJ	BZ10867		14	EP		7 5	2.71-	.070							1.0
MESJ	BZ10867		14	EPP		7 9	3.430	.150							1.0
MESJ	BZ10867		14	IAMs_20		739	12.82		5133	43.6					

**January 20 2020 Hour: 21:17 57.8 Lat: 36.03N Lon: 6.86W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 2.9ML IGL Rms: 0.2 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	214	312	EP		2118	26.97-	.240							1.0
MORF	HN	214	312	ES		2118	48.62-	.050							1.0
MORF	HE	214	312	IAML		2118	55.01		116	0.2					
MESJ	HZ	235	329	EP		2118	29.930	.170							1.0
MESJ	HN	235	329	ES		2118	53.220	.130							1.0
MESJ	HN	235	329	IAML		2118	59.70		49	0.2					

**January 21 2020 Hour: 9:43 17.3 Lat: 36.30N Lon: 8.21W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 3.4ML 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	118	341	EP		943	35.78-	.140							1.0
MORF	HN	118	341	ES		943	49.45-	.060							1.0
MORF	HE	118	341	IAML		943	50.89		983	0.2					
MESJ	HZ	171	360	EP		943	42.810	.050							1.0
MESJ	HN	171	360	ES		944	1.510	.160							1.0
MESJ	HE	171	360	IAML		944	2.66		250	0.2					

**January 21 2020 Hour: 14:43 15.5 Lat: 37.32N Lon: 8.59W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.1 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	6	253	EP		1443	17.24-	.070							1.0
MORF	HE	6	253	ES		1443	18.770	.140							1.0
MORF	HN	6	253	IAML		1443	19.42		74	0.1					
MESJ	HZ	66	29	EP		1443	26.23-	.070							1.0

**January 21 2020 Hour: 18:16 56.6 Lat: 37.34N Lon: 8.46W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 1.0ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	18	257	EP		1816	59.68-	.040							1.0
MORF	HN	18	257	ES		1817	2.080	.110							1.0
MORF	HN	18	257	IAML		1817	3.01		68	0.2					
MESJ	HZ	59	21	EP		1817	6.380	.100							1.0
MESJ	HN	59	21	ES		1817	13.15-	.170							1.0
MESJ	HE	59	21	IAML		1817	13.97		4	0.1					

**January 21 2020 Hour: 22:35 9.5 Lat: 36.93N Lon: 8.56W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 0.6ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	42	349	EP		2235	16.89-	.110							1.0
MORF	HE	42	349	ES		2235	22.600	.110							1.0
MORF	HE	42	349	IAML		2235	24.06		5	0.2					



January 22 2020 Hour: 5:34 26.2 Lat: 36.76N Lon: 9.54W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	99	52	EP		534	40.730	.090							1.0
MORF	HE	99	52	ES		534	51.11	-.040							1.0
MORF	HE	99	52	IAML		534	53.88		48	0.3					
MESJ	HZ	167	44	EP		534	49.06	-.010							1.0
MESJ	HN	167	44	ES		535	5.68	-.040							1.0
MESJ	HN	167	44	IAML		535	7.13		8	0.2					

January 22 2020 Hour: 18:14 13.2 Lat: 36.54N Lon: 9.81W Depth: 12F 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	134	50	EP		1814	34.140	.140							1.0
MORF	HE	134	50	ES		1814	49.09	-.140							1.0
MORF	HN	134	50	IAML		1814	50.94		3	0.2					

January 22 2020 Hour: 19:22 16.5 Lat: 39.06N Lon: 27.84E Depth: 9F Agency: IGL Distant  
Magnitudes: 5.2Ms IGL Rms: 0.1 secs

WESTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BE	3130	279	ES		1932	55.46	-.130							1.0
MESJ	BZ	3130	279	IAMs_20		1943	26.59		3084	13.6					
MORF	BZ	3182	278	EP		1928	13.430	.130							1.0
MORF	BE	3182	278	IAMs_20		1944	21.57		3983	10.1					

January 23 2020 Hour: 1:48 51.4 Lat: 36.60N Lon: 9.78W Depth: 15F 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	127	52	EP		149	11.240	.050							1.0
MORF	HE	127	52	ES		149	25.690	.040							1.0
MORF	HE	127	52	IAML		149	28.43		72	0.3					
MESJ	HZ	195	45	EP		149	19.620	.030							1.0
MESJ	HN	195	45	ES		149	40.07	-.120							1.0
MESJ	HN	195	45	IAML		149	43.42		12	0.2					

January 23 2020 Hour: 2: 9 42.3 Lat: 36.59N Lon: 7.53W Depth: 13F Agency: IGL Regional  
Magnitudes: 0.6ML 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
MESJ	HZ	152	336	EP		210	5.350	.090							1.0
MESJ	HE	152	336	ES		210	21.94	-.090							1.0
MESJ	HE	152	336	IAML		210	24.38		0.70	0.1					

January 23 2020 Hour: 2:28 6.9 Lat: 36.43N Lon: 11.15W Depth: 8F 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	243	66	EP		228	41.86	0.09							1.0
MORF	HN	243	66	ES		229	7.14	-0.07							1.0
MORF	HE	243	66	IAML		229	11.18		2	0.1					
MESJ	HZ	304	58	EP		228	49.26	-0.03							1.0

January 23 2020 Hour: 5:53 3.8 Lat: 51.92N Lon: 177.83W Depth: 10F Agency: IGL Distant  
Magnitudes: 6.4Ms IGL Rms: 0.1 secs

ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9909	9	EPP		6 9	29.920	.120							1.0
GGNV	BE	9909	9	ESS		622	44.520	.170							1.0
GGNV	BZ	9909	9	IAMs_20		649	40.09		14705	20.4					

MESJ	BZ10015	8	EPP	6	9	37.34	-.100										1.0
MESJ	BE10015	8	ESS	622	58.08	-.160											1.0
MESJ	BZ10015	8	IAMs_20	651	2.51				18069	17.0							
MORF	BZ10070	9	EPP	6	9	41.31	-.080										1.0
MORF	BE10070	9	ESS	623	5.480	.050											1.0
MORF	BZ10070	9	IAMs_20	650	20.56				13556	22.3							

**January 23 2020 Hour: 7:38 55.0 Lat: 37.02N Lon: 8.62W Depth: 13F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	32	355	EP		739	0.500	.000							1.0
MORF	HE	32	355	ES		739	4.570	.030							1.0
MORF	HE	32	355	IAML		739	5.28		11	0.2					
MESJ	HN	98	21	ES		739	21.69	-.040							1.0
MESJ	HN	98	21	IAML		739	22.84		3	0.3					

**January 23 2020 Hour: 13:28 24.2 Lat: 36.93N Lon: 8.61W Depth: 30F 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	355	EP		1328	32.200	.130							1.0
MORF	HN	42	355	ES		1328	37.71	-.130							1.0
MORF	HN	42	355	IAML		1328	38.90		2	0.1					

**January 23 2020 Hour: 17:4 28.2 Lat: 11.55S Lon: 166.79E Depth:200F Agency: IGL Distant  
Rms: 0.0 secs**

**SANTA CRUZ ISLANDS Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ17079	351	EPKPbc			1724	3.300	.050							1.0
MESJ	BZ17079	351	EPKPab			1724	15.80	-.080							1.0
MORF	BZ17145	352	EPKPbc			1724	4.61	-.000							1.0
MORF	BZ17145	352	EPKPab			1724	18.480	.030							1.0

**January 23 2020 Hour: 18:54 35.0 Lat: 37.52N Lon: 7.60W Depth: 15F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.0 secs**

**NW ALCOUTIM, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	65	303	EP		1854	45.58	-.000							1.0
MESJ	HE	65	303	ES		1854	53.310	.000							1.0
MESJ	HN	65	303	IAML		1854	54.74		3	0.2					

**January 23 2020 Hour: 21:11 29.1 Lat: 27.02S Lon: 63.39W Depth:560F Agency: IGL Distant  
Magnitudes: 5.0Mb IGL Rms: 0.0 secs**

**SANTIAGO DEL ESTERO, ARGENTINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9129	41	EP		2122	51.29	-.030							1.0
MORF	BZ	9129	41	IAMB		2122	53.14		61	1.4					
MESJ	BZ	9198	41	EP		2122	54.380	.030							1.0
MESJ	BZ	9198	41	IAMB		2122	55.57		46	0.9					

**January 23 2020 Hour: 21:12 51.1 Lat: 37.33N Lon: 8.63W Depth: 14F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	3	215	EP		2112	53.39	-.150							1.0
MORF	HE	3	215	ES		2112	55.370	.080							1.0
MORF	HE	3	215	IAML		2112	55.80		56	0.1					
MESJ	HZ	67	33	EP		2113	2.080	.070							1.0

January 23 2020 Hour: 23:28 48.5 Lat: 36.84N Lon: 8.36W Depth: 25F 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	58	333	EP		2328	58.24	-.030							1.0
MORF	HE	58	333	ES		2329	5.35	-.050							1.0
MORF	HE	58	333	IAML		2329	7.28		24	0.1					
MESJ	HZ	112	6	EP		2329	5.51	-.010							1.0
MESJ	HN	112	6	ES		2329	18.040	.100							1.0
MESJ	HN	112	6	IAML		2329	20.43		4	0.2					

January 24 2020 Hour: 2:12 22.9 Lat: 38.18N Lon: 8.29W Depth: 1F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	38	171	EP		212	29.260	.150							1.0
MESJ	HN	38	171	ES		212	33.61	-.010							1.0
MESJ	HE	38	171	IAML		212	34.41		3	0.2					
MORF	HZ	102	198	EP		212	39.450	.010							1.0
MORF	HN	102	198	ES		212	51.33	-.150							1.0
MORF	HN	102	198	IAML		212	53.08		3	0.2					

January 24 2020 Hour: 4:46 20.4 Lat: 36.79N Lon: 8.71W Depth: 24F 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	57	5	EP		446	30.00	-.090							1.0
MORF	HN	57	5	ES		446	37.300	.140							1.0
MORF	HE	57	5	IAML		446	37.91		10	0.2					
MESJ	HN	124	20	ES		446	52.61	-.060							1.0
MESJ	HN	124	20	IAML		446	53.40		1	0.1					

January 24 2020 Hour: 5:13 49.4 Lat: 17.42S Lon: 71.01W Depth: 82F Agency: IGL Distant  
Magnitudes: 5.4Mb IGL Rms: 0.0 secs

NEAR COAST OF SOUTHERN PERU Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8903	46	EP		525	49.980	.010							1.0
MORF	BZ	8903	46	IAMB		525	50.94		69	0.7					
MESJ	BZ	8966	46	EP		525	52.95	-.010							1.0
MESJ	BZ	8966	46	IAMB		525	54.38		31	0.9					

January 24 2020 Hour: 6:40 28.1 Lat: 38.09N Lon: 8.79W Depth: 8F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SW MELIDES, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	57	119	EP		640	37.30	-.160							1.0
MESJ	HE	57	119	ES		640	44.23	-.040							1.0
MESJ	HN	57	119	IAML		640	45.41		3	0.1					
MORF	HZ	88	172	EP		640	42.510	.130							1.0
MORF	HE	88	172	ES		640	52.860	.080							1.0
MORF	HN	88	172	IAML		640	54.67		4	0.1					

January 24 2020 Hour: 7:9 16.0 Lat: 39.14N Lon: 71.52E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.6Mb IGL Rms: 0.0 secs

TAJIKISTAN Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	6717	296	EP		719	25.69	-.000							1.0
MESJ	BZ	6717	296	IAMB		719	29.10		47	0.8					

January 24 2020 Hour: 7:24 18.4 Lat: 36.73N Lon: 5.61E Depth: 10F Agency: IGL Distant  
Rms: 0.1 secs

**NORTHERN ALGERIA Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	1232	280	EP		726	56.74	-.120							1.0
MORF	BZ	1270	277	EP		727	1.720	.120							1.0

January 24 2020 Hour: 8:34 16.9 Lat: 36.51N Lon: 7.54W Depth: 5F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	133	312	ES		834	53.48	-.060							1.0
MORF	HN	133	312	IAML		834	58.12			15	0.2				
MESJ	HZ	159	338	EP		834	41.52	-.120							1.0
MESJ	HN	159	338	ES		834	59.890	.180							1.0
MESJ	HE	159	338	IAML		835	1.41			2	0.1				

January 24 2020 Hour: 14:3 27.1 Lat: 36.11N Lon: 7.94W Depth: 30F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	147	335	EP		14 3	47.97	-.190							1.0
MORF	HE	147	335	ES		14 4	3.690	.120							1.0
MORF	HE	147	335	IAML		14 4	4.82			12	0.3				
MESJ	HZ	194	353	EP		14 3	54.060	.150							1.0
MESJ	HE	194	353	ES		14 4	13.44	-.070							1.0
MESJ	HE	194	353	IAML		14 4	15.71			2	0.1				

January 24 2020 Hour: 17:55 14.4 Lat: 38.37N Lon: 39.22E Depth: 15F Agency: IGL Distant  
Magnitudes: 6.7Ms IGL Rms: 0.1 secs

**EASTERN TURKEY Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4115	284	EP		18 2	23.490	.190							1.0
MESJ	BE	4115	284	ES		18 8	9.07	-.130							1.0
MESJ	BZ	4115	284	IAMs_20		1818	27.21			94930	18.4				
GGNV	BZ	4167	286	EP		18 2	27.330	.070							1.0
GGNV	BE	4167	286	ES		18 8	16.23	-.060							1.0
GGNV	BE	4167	286	IAMs_20		1819	48.54			177000	13.3				
MORF	BZ	4168	284	EP		18 2	27.500	.070							1.0
MORF	BE	4168	284	ES		18 8	16.45	-.140							1.0
MORF	BE	4168	284	IAMs_20		1814	50.03			198000	44.9				

January 24 2020 Hour: 19:51 36.8 Lat: 36.09N Lon: 10.26W Depth: 13F Agency: IGL Regional  
Magnitudes: 1.8ML IGL Rms: 0.0 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	197	46	EP		1952	5.43	-.030							1.0
MORF	HN	197	46	ES		1952	26.400	.030							1.0
MORF	HN	197	46	IAML		1952	27.83			8	0.1				

January 24 2020 Hour: 22:56 5.1 Lat: 31.98N Lon: 95.01E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

**XIZANG-QINGHAI BORDER REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	8934	309	EP		23 8	16.730	.070							1.0
MESJ	BZ	8934	309	IAMB		23 8	17.85			42	1.0				
MORF	BZ	8999	308	EP		23 8	19.75	-.070							1.0
MORF	BZ	8999	308	IAMB		23 8	21.45			33	1.0				

January 25 2020 Hour: 6:40 21.4 Lat: 37.24N Lon: 12.73W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.7ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	362	88	EP		641	11.66	-.200							1.0
MORF	HE	362	88	ES		641	48.720	.020							1.0
MORF	HE	362	88	IAML		641	51.32			5	0.1				
MESJ	HZ	404	79	EP		641	17.180	.080							1.0
MESJ	HN	404	79	ES		641	57.870	.110							1.0
MESJ	HN	404	79	IAML		642	1.49			1	0.1				

January 25 2020 Hour: 11:32 25.9 Lat: 37.40N Lon: 9.12W Depth: 25F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NW ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	43	104	EP		1132	33.650	.060							1.0
MORF	HE	43	104	ES		1132	39.280	.060							1.0
MORF	HE	43	104	IAML		1132	39.85			9	0.1				
MESJ	HZ	93	58	EP		1132	40.50	-.080							1.0
MESJ	HE	93	58	ES		1132	51.27	-.050							1.0
MESJ	HE	93	58	IAML		1132	51.58			0.80	0.1				

January 25 2020 Hour: 11:56 34.3 Lat: 36.74N Lon: 9.69W Depth: 19F 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	112	56	EP		1156	51.77	-.020							1.0
MORF	HE	112	56	ES		1157	4.710	.130							1.0
MORF	HE	112	56	IAML		1157	6.09			48	0.2				
MESJ	HZ	179	46	EP		1157	0.01	-.070							1.0
MESJ	HE	179	46	ES		1157	18.88	-.040							1.0
MESJ	HN	179	46	IAML		1157	20.97			10	0.2				

January 25 2020 Hour: 20:20 37.0 Lat: 17.84N Lon: 66.82W Depth: 12F Agency: IGL Distant  
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

PUERTO RICO REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	6036	57	EP		2030	2.940	.090							1.0
MORF	BZ	6036	57	IAMB		2030	5.07			36	1.3				
MESJ	BZ	6079	56	EP		2030	5.50	-.090							1.0
MESJ	BZ	6079	56	IAMB		2030	8.46			61	1.7				

January 26 2020 Hour: 2:21 0.1 Lat: 38.48N Lon: 7.03W Depth: 2F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs

SPAIN Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	126	236	EP		221	20.540	.070							1.0
MESJ	HE	126	236	ES		221	35.25	-.070							1.0
MESJ	HN	126	236	IAML		221	36.65			6	0.1				

January 26 2020 Hour: 2:32 56.1 Lat: 37.24N Lon: 13.73W Depth: 15F Agency: IGL Regional  
Magnitudes: 2.4ML 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	450	88	EP		233	55.91	-.080							1.0
MORF	HE	450	88	ES		234	39.700	.020							1.0
MORF	HE	450	88	IAML		234	42.88			13	0.2				
MESJ	HZ	492	81	EP		234	1.070	.130							1.0
MESJ	HE	492	81	ES		234	48.17	-.070							1.0
MESJ	HN	492	81	IAML		234	52.53			5	0.2				

January 26 2020 Hour: 4:57 43.5 Lat: 37.37N Lon: 8.85W Depth: 0 Agency: IGL Regional  
 Magnitudes: 0.4ML 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	19	113	EP		457	46.700	.160							1.0
MORF	HE	19	113	ES		457	48.62	-.160							1.0
MORF	HN	19	113	IAML		457	49.70			10	0.1				

January 26 2020 Hour: 6:31 57.7 Lat: 51.35N Lon: 179.92W Depth: 27F Agency: IGL Distant  
 Magnitudes: 5.9Ms IGL Rms: 0.1 secs  
 ANDREANOF ISLANDS, ALEUTIAN ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9993	7	EP		644	53.930	.070							1.0
GGNV	BZ	9993	7	IAMs_20		719	50.77			7238	31.8				
MESJ	BZ10097	7	EP			644	58.410	.130							1.0
MESJ	BZ10097	7	EPP			648	34.62	-.100							1.0
MESJ	BN10097	7	ESS			7	1	58.47	-.050						1.0
MESJ	BZ10097	7	IAMs_20			731	2.56			4885	24.6				
MORF	BZ10153	7	EP			645	0.780	.120							1.0
MORF	BZ10153	7	EPP			648	38.54	-.190							1.0
MORF	BZ10153	7	IAMs_20			720	4.26			4831	22.7				

January 26 2020 Hour: 11:23 16.4 Lat: 35.57N Lon: 8.79W Depth: 29F 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	4	EP		1123	43.13	-.160							1.0
MORF	HE	193	4	ES		1124	2.87	-.040							1.0
MORF	HE	193	4	IAML		1124	3.37			8	0.1				
MESJ	HZ	257	11	EP		1123	51.350	.120							1.0
MESJ	HE	257	11	ES		1124	16.720	.090							1.0
MESJ	HN	257	11	IAML		1124	18.14			2	0.3				

January 26 2020 Hour: 13:38 15.6 Lat: 36.73N Lon: 7.62W Depth: 23F Agency: IGL Regional  
 Magnitudes: 1.7ML IGL Rms: 0.1 secs  
 STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	112	305	EP		1338	32.97	-.070							1.0
MORF	HN	112	305	ES		1338	45.800	.020							1.0
MORF	HE	112	305	IAML		1338	47.29			21	0.2				
MESJ	HZ	134	337	EP		1338	35.880	.110							1.0
MESJ	HE	134	337	ES		1338	50.46	-.060							1.0
MESJ	HE	134	337	IAML		1338	52.70			7	0.1				

January 26 2020 Hour: 18:44 5.5 Lat: 22.04S Lon: 65.92W Depth: 278F Agency: IGL Distant  
 Magnitudes: 5.6Mb IGL Rms: 0.1 secs  
 JUJUY, ARGENTINA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8893	43	EP		1855	43.73	-.130							1.0
MORF	BZ	8893	43	IAMB		1855	44.83			83	1.0				
GGNV	BZ	8955	42	EP		1855	46.710	.010							1.0
GGNV	BZ	8955	42	IAMB		1855	47.78			83	0.7				
MESJ	BZ	8960	43	EP		1855	47.100	.130							1.0
MESJ	BZ	8960	43	IAMB		1855	48.25			67	0.7				

January 26 2020 Hour: 23:47 3.7 Lat: 38.20N Lon: 8.22W Depth: 13F Agency: IGL Regional  
 Magnitudes: 0.1ML IGL Rms: 0.0 secs  
 NW FERREIRA DO ALENTEJO, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	40	180	EP		2347	10.500	.010							1.0
MESJ	HE	40	180	ES		2347	15.41	-.010							1.0
MESJ	HZ	40	180	IAML		2347	15.86			2	0.1				

January 27 2020 Hour: 2:50 56.2 Lat: 37.07N Lon: 5.18W Depth: 2F 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	282	289	EP		251	36.480	.020							1.0

January 27 2020 Hour: 5: 2 16.9 Lat: 36.52N Lon: 8.90W Depth: 4F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	90	14	EP		5	2	31.32							1.0
MORF	HE	90	14	ES		5	2	41.970							1.0
MORF	HE	90	14	IAML		5	2	44.84		3	0.2				

January 27 2020 Hour: 5: 2 1.8 Lat: 10.11S Lon: 161.02E Depth: 18F Agency: IGL Distant  
Magnitudes: 6.5Ms IGL Rms: 0.1 secs

SOLOMON ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ16717	344	EPKp $\bar{d}$ f			521	45.770	.020							1.0
GGNV	BZ16717	344	EPP			525	26.600	.180							1.0
GGNV	BZ16717	344	IAMs_20			636	40.14			7073	16.0				
MESJ	BZ16779	342	EPKp $\bar{d}$ f			521	46.59	-.050							1.0
MESJ	BZ16779	342	EPP			525	29.740	.080							1.0
MESJ	BZ16779	342	IAMs_20			628	25.43			6826	21.3				
MORF	BZ16848	343	EPKp $\bar{d}$ f			521	47.41	-.240							1.0
MORF	BZ16848	343	EPP			525	33.29	-.000							1.0
MORF	BZ16848	343	IAMs_20			634	59.08			7716	21.5				

January 27 2020 Hour: 10:50 26.4 Lat: 36.81N Lon: 8.22W Depth: 6F 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	67	325	EP		1050	37.18	-.050							1.0
MORF	HE	67	325	ES		1050	45.190	.040							1.0
MORF	HN	67	325	IAML		1050	47.16			8	0.2				
MESJ	HZ	114	360	EP		1050	44.780	.090							1.0
MESJ	HN	114	360	ES		1050	57.98	-.080							1.0
MESJ	HN	114	360	IAML		1051	1.17			6	0.2				

January 28 2020 Hour: 8:49 42.2 Lat: 37.32N Lon: 8.61W Depth: 13F Agency: IGL Regional  
Magnitudes: 0.6ML 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	4	245	EP		849	44.480	.000							1.0
MORF	HN	4	245	ES		849	46.14	-.000							1.0
MORF	HN	4	245	IAML		849	47.10			28	0.2				

January 28 2020 Hour: 15:38 32.9 Lat: 35.04N Lon: 27.92E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.3Mb IGL Rms: 0.1 secs

DODECANESE ISLANDS, GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3236	286	EP		1544	33.51	-.210							1.0
MESJ	BZ	3236	286	IAMB		1544	38.81			54	1.0				
MESJ	BE	3236	286	ES		1549	26.680	.160							1.0
MORF	BN	3280	285	ES		1549	32.940	.050							1.0

January 28 2020 Hour: 16:28 32.0 Lat: 36.71N Lon: 11.02W Depth: 9F Agency: IGL Regional  
Magnitudes: 1.1ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	221	72	EP		1629	4.080	.100							1.0
MESJ	HZ	278	62	EP		1629	10.96	-.110							1.0
MESJ	HE	278	62	ES		1629	39.620	.010							1.0

MESJ HE 278 62 IAML 1629 41.36 0.90 0.1

**January 28 2020 Hour: 19:10 25.6 Lat: 19.44N Lon: 78.75W Depth: 10F Agency: IGL Distant  
Magnitudes: 7.7Ms IGL Rms: 0.0 secs**

**CUBA REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	6943	56	EP		1920	48.61	-.050							1.0
GGNV	BN	6943	56	IAMs_20		1937	24.50		856000	28.3					
MORF	BZ	6998	57	EP		1920	52.080	.050							1.0
MORF	BN	6998	57	IAMs_20		1937	37.19		1088000	32.6					
MESJ	BZ	7031	57	EP		1920	53.980	.000							1.0
MESJ	BN	7031	57	IAMs_20		1938	2.08		785000	42.2					

**January 28 2020 Hour: 20:15 9.4 Lat: 41.48N Lon: 19.57E Depth: 10F Agency: IGL Distant  
Magnitudes: 4.6Mb IGL Rms: 0.0 secs**

**ALBANIA Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2408	270	EP		2020	0.03	-.000							1.0
MESJ	BZ	2408	270	IAMB		2020	17.04			29	1.0				

**January 28 2020 Hour: 21:55 17.2 Lat: 18.95N Lon: 80.71W Depth: 10F Agency: IGL Distant  
Magnitudes: 6.4Mb IGL Rms: 0.1 secs**

**CAYMAN ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	7200	57	EP		22 5	55.770	.070							1.0
MORF	BZ	7200	57	IAMB		22 6	8.87		755	2.2					
MESJ	BZ	7233	56	EP		22 5	57.49	-.070							1.0
MESJ	BZ	7233	56	IAMB		22 6	9.45		412	1.9					

**January 29 2020 Hour: 1:58 14.4 Lat: 37.03N Lon: 5.75W Depth: 4F 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	237	293	EP		158	48.840	.030							1.0
MORF	HZ	260	278	EP		158	51.70	-.030							1.0

**January 29 2020 Hour: 10:20 38.1 Lat: 38.29N Lon: 9.25W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs**

**NORTH ATLANTIC OCEAN Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	103	119	EP		1020	54.73	-.060							1.0
MESJ	HE	103	119	ES		1021	7.010	.060							1.0
MESJ	HE	103	119	IAML		1021	8.33		3	0.2					

**January 29 2020 Hour: 13:37 0.1 Lat: 35.07N Lon: 27.81E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.2Mb IGL Rms: 0.0 secs**

**DODECANESE ISLANDS, GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3225	286	EP		1343	0.060	.010							1.0
MESJ	BZ	3225	286	IAMB		1343	0.79		63	1.6					

**January 29 2020 Hour: 13:49 49.3 Lat: 10.37S Lon: 161.28E Depth: 87F Agency: IGL Distant  
Rms: 0.0 secs**

**SOLOMON ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ16815	343	EPKPbc			14 9	32.640	.010							1.0
MORF	BZ16884	343	EPKPbc			14 9	34.20	-.010							1.0



**January 29 2020 Hour: 19:10 54.8 Lat: 36.33N Lon: 9.92W Depth: 22F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	156	46	EP		1911	17.59	-.010							1.0
MORF	HE	156	46	ES		1911	34.20	-.060							1.0
MORF	HE	156	46	IAML		1911	34.79			17	0.2				
MESJ	HZ	226	42	EP		1911	26.13	-.030							1.0
MESJ	HN	226	42	ES		1911	49.180	.110							1.0
MESJ	HN	226	42	IAML		1911	50.39			3	0.1				

**January 30 2020 Hour: 1:28 5.3 Lat: 35.06N Lon: 27.87E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.6Mb IGL Rms: 0.0 secs**

**DODECANESE ISLANDS Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3231	286	EP		134	5.71	-.000							1.0
MESJ	BZ	3231	286	IAMB		134	11.03			155	1.5				
MESJ	BE	3231	286	ES		138	58.210	.000							1.0

**January 30 2020 Hour: 4:16 14.7 Lat: 36.59N Lon: 11.15W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 1.7ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	236	70	EP		416	45.93	-.110							1.0
MORF	HE	236	70	ES		417	8.88	-.070							1.0
MORF	HE	236	70	IAML		417	10.47			9	0.1				
MESJ	HZ	295	61	EP		416	53.390	.110							1.0
MESJ	HE	295	61	ES		417	21.560	.080							1.0
MESJ	HE	295	61	IAML		417	25.28			2	0.1				

**January 30 2020 Hour: 11:21 35.0 Lat: 35.08N Lon: 27.80E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.3Mb IGL Rms: 0.1 secs**

**DODECANESE ISLANDS Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3224	286	EP		1127	34.86	-.040							1.0
MESJ	BZ	3224	286	IAMB		1127	43.05			36	0.7				
MESJ	BE	3224	286	ES		1132	26.87	-.110							1.0
MORF	BE	3268	285	ES		1132	33.380	.030							1.0
GGNV	BE	3296	288	ES		1132	37.240	.120							1.0

**January 30 2020 Hour: 22:10 10.1 Lat: 3.71S Lon: 75.34W Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.3Mb 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	8234	50	EP		2221	46.110	.090							1.0
MORF	BZ	8234	50	IAMB		2221	47.14			54	1.0				
MESJ	BZ	8289	49	EP		2221	48.73	-.090							1.0
MESJ	BZ	8289	49	IAMB		2221	49.91			16	1.0				

**January 31 2020 Hour: 5:13 32.2 Lat: 36.64N Lon: 9.80W Depth: 14F 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	126	54	EP		513	51.990	.060							1.0
MORF	HE	126	54	ES		514	6.32	-.020							1.0
MORF	HE	126	54	IAML		514	9.11			7	0.2				
MESJ	HZ	193	46	EP		514	0.360	.090							1.0
MESJ	HN	193	46	ES		514	20.63	-.130							1.0
MESJ	HN	193	46	IAML		514	21.87			1	0.2				

January 31 2020 Hour: 13:53 31.8 Lat: 25.36S Lon: 178.50E Depth:576FAgency: IGL Distant  
Rms: 0.1 secs

**SOUTH OF FIJI ISLANDS Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ18502	23	EP	KPdf		1412	31.040	.090							1.0
MESJ	BZ18502	23	EP	KPab		1413	36.66-	.110							1.0
MORF	BZ18537	25	EP	KPdf		1412	31.390	.140							1.0
MORF	BZ18537	25	EP	KPab		1413	38.10-	.120							1.0

January 31 2020 Hour: 19:31 14.2 Lat: 38.34N Lon: 8.57W Depth: 0 Agency: IGL Regional  
Magnitudes: 0.9ML IGL  
Rms: 0.1 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	64	151	EP		1931	24.29-	.150							1.0
MESJ	HE	64	151	ES		1931	31.82-	.090							1.0
MESJ	HE	64	151	IAML		1931	33.88			3	0.2				
MORF	HZ	115	184	EP		1931	33.000	.220							1.0
MORF	HE	115	184	ES		1931	46.370	.030							1.0
MORF	HE	115	184	IAML		1931	47.10			5	0.2				

January 31 2020 Hour: 19:38 9.3 Lat: 36.47N Lon: 9.32W Depth: 4F 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	110	33	EP		1938	26.99-	.100							1.0
MORF	HN	110	33	ES		1938	40.210	.150							1.0
MORF	HE	110	33	IAML		1938	42.41			11	0.1				
MESJ	HZ	181	32	EP		1938	36.71-	.120							1.0
MESJ	HN	181	32	ES		1938	56.970	.070							1.0
MESJ	HE	181	32	IAML		1939	1.28			1	0.2				

January 31 2020 Hour: 20: 7 40.6 Lat: 37.28N Lon: 8.58W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.4ML IGL  
Rms: 0.1 secs

**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	7	293	EP		20 7	42.64-	.120							1.0
MORF	HE	7	293	ES		20 7	44.470	.120							1.0
MORF	HN	7	293	IAML		20 7	44.93			21	0.2				

January 31 2020 Hour: 22:10 57.3 Lat: 6.44S Lon: 129.17E Depth:226FAgency: IGL Distant  
Rms: 0.0 secs

**BANDA SEA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14507	315	Ex			2232	41.09								
MORF	BZ14569	315	EP	KPdf		2229	41.33-	.040							1.0
MORF	BZ14569	315	Ex			2232	43.12								

February 1 2020 Hour: 2:35 57.4 Lat: 24.44S Lon: 66.96W Depth:158FAgency: IGL Distant  
Magnitudes: 5.1Mb IGL  
Rms: 0.0 secs

**SALTA, ARGENTINA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9159	43	EP		248	1.500	.030							1.0
MORF	BZ	9159	43	IAMB		248	1.78			51	1.4				
MESJ	BZ	9226	43	EP		248	4.47-	.030							1.0
MESJ	BZ	9226	43	IAMB		248	5.47			32	0.9				

February 1 2020 Hour: 5: 4 32.4 Lat: 36.74N Lon: 8.21W Depth: 22F Agency: IGL Regional  
Magnitudes: 0.8ML IGL  
Rms: 0.0 secs

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	74	328	EP		5 4	44.450	.010							1.0
MORF	HN	74	328	ES		5 4	53.25-	.010							1.0
MORF	HE	74	328	IAML		5 4	54.47			4	0.2				

February 1 2020 Hour: 5:40 16.4 Lat: 37.23N Lon: 8.70W Depth: 22F Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

SE ALJEZUR, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	9	27	EP		540	20.00	-.210							1.0
MORF	HE	9	27	ES		540	23.170	.160							1.0
MORF	HE	9	27	IAML		540	23.55			15	0.1				
MESJ	HZ	80	32	EP		540	29.22	-.050							1.0
MESJ	HE	80	32	ES		540	38.770	.100							1.0
MESJ	HN	80	32	IAML		540	39.79			3	0.2				

February 1 2020 Hour: 13:10 4.1 Lat: 36.28N Lon: 9.83W Depth: 32F Agency: IGL Regional  
Magnitudes: 2.2ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	155	42	EP		1310	26.170	.030							1.0
MORF	HN	155	42	ES		1310	42.250	.050							1.0
MORF	HE	155	42	IAML		1310	45.23			51	0.3				
MESJ	HZ	225	39	EP		1310	34.75	-.030							1.0
MESJ	HE	225	39	ES		1310	57.10	-.050							1.0
MESJ	HN	225	39	IAML		1310	59.03			9	0.3				

February 1 2020 Hour: 13:16 8.7 Lat: 35.16N Lon: 11.52W Depth: 24F Agency: IGL Regional  
Magnitudes: 2.4ML 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	351	46	EP		1316	55.560	.010							1.0
MORF	HE	351	46	ES		1317	29.69	-.040							1.0
MORF	HN	351	46	IAML		1317	35.26			26	0.4				
MESJ	HZ	419	44	EP		1317	4.030	.060							1.0
MESJ	HE	419	44	ES		1317	44.27	-.020							1.0
MESJ	HN	419	44	IAML		1317	48.31			5	0.2				

February 1 2020 Hour: 13:34 35.9 Lat: 36.69N Lon: 7.29W Depth: 21F Agency: IGL Regional  
Magnitudes: 1.0ML 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
MESJ	HZ	152	327	EP		1334	58.11	-.140							1.0
MESJ	HE	152	327	ES		1335	14.690	.140							1.0
MESJ	HN	152	327	IAML		1335	16.28			2	0.2				

February 1 2020 Hour: 14:28 9.7 Lat: 43.60N Lon: 14.18W Depth: 32F Agency: IGL Regional  
Magnitudes: 3.4ML 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
MESJ	HZ	813	140	EP		1429	51.770	.140							1.0
MESJ	HN	813	140	ES		1431	5.89	-.170							1.0
MESJ	HE	813	140	IAML		1431	12.03			15	0.2				
MORF	HZ	841	144	EP		1429	54.940	.020							1.0
MORF	HE	841	144	ES		1431	11.760	.010							1.0
MORF	HE	841	144	IAML		1431	18.35			45	0.1				

February 1 2020 Hour: 16:49 57.6 Lat: 36.30N Lon: 8.42W Depth: 10F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	113	350	EP		1650	15.610	.040							1.0
MORF	HN	113	350	ES		1650	28.57	-.130							1.0
MORF	HE	113	350	IAML		1650	30.32			20	0.1				
MESJ	HZ	172	6	EP		1650	23.490	.130							1.0
MESJ	HE	172	6	ES		1650	42.15	-.030							1.0
MESJ	HN	172	6	IAML		1650	43.95			4	0.1				

February 1 2020 Hour: 19:17 12.5 Lat: 38.39N Lon: 8.03W Depth: 1F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

NW VIANA DO ALENTEJO, PORTUGAL Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	63	195	EP		1917	22.800	.120							1.0
MESJ	HE	63	195	ES		1917	30.00	-.120							1.0
MESJ	HN	63	195	IAML		1917	30.58			4	0.1				

February 1 2020 Hour: 21:22 23.3 Lat: 39.14N Lon: 20.51E Depth: 12F Agency: IGL Distant  
Magnitudes: 4.6Mb IGL Rms: 0.0 secs

GREECE Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2500	276	EP		2127	22.49	-.010							1.0
MESJ	BZ	2500	276	IAMB		2127	26.95			34	1.4				

February 1 2020 Hour: 21:55 15.4 Lat: 36.85N Lon: 7.31W Depth: 7F Agency: IGL Regional  
Magnitudes: 1.0ML IGL Rms: 0.0 secs

STRAIT OF GIBRALTAR Net: MAD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	130	294	EP		2155	36.100	.060							1.0
MORF	HN	130	294	ES		2155	51.06	-.050							1.0
MORF	HN	130	294	IAML		2155	52.46			4	0.1				
MESJ	HN	137	324	ES		2155	52.87	-.010							1.0
MESJ	HN	137	324	IAML		2155	55.00			1	0.1				

February 1 2020 Hour: 22: 7 7.2 Lat: 37.29N Lon: 8.60W Depth: 16F Agency: IGL Regional  
Magnitudes: 0.1ML IGL Rms: 0.0 secs

SW MONCHIQUÉ, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	289	EP		22 7	9.89	-.010							1.0
MORF	HN	5	289	ES		22 7	11.920	.010							1.0
MORF	HN	5	289	IAML		22 7	12.42			7	0.1				

February 2 2020 Hour: 3:32 43.5 Lat: 13.80N Lon: 92.83W Depth: 10F Agency: IGL Distant  
Magnitudes: 5.2Mb IGL Rms: 0.0 secs

OFF COAST OF CHIAPAS, MEXICO Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8592	54	EP		344	37.86	-.030							1.0
MORF	BZ	8592	54	IAMB		344	40.60			33	1.1				
MESJ	BZ	8622	54	EP		344	39.32	-.020							1.0
MESJ	BZ	8622	54	IAMB		344	42.84			24	1.2				
MESJ	BE	8622	54	ES		354	31.120	.050							1.0

February 2 2020 Hour: 8:25 19.8 Lat: 36.61N Lon: 11.20W Depth: 30F 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	240	70	EP		825	52.450	.010							1.0
MORF	HE	240	70	ES		826	16.17	-.070							1.0
MORF	HE	240	70	IAML		826	18.68			8	0.2				
MESJ	HZ	298	62	EP		825	59.620	.010							1.0
MESJ	HE	298	62	ES		826	28.700	.050							1.0
MESJ	HE	298	62	IAML		826	30.27			1	0.2				

February 2 2020 Hour: 18:30 4.2 Lat: 35.98N Lon: 10.73W Depth: 31F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.0 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	237	51	EP		1830	35.62	-.010							1.0
MORF	HE	237	51	ES		1830	58.670	.060							1.0
MORF	HE	237	51	IAML		1831	1.10			5	0.1				
MESJ	HZ	304	47	EP		1830	43.97	-.010							1.0
MESJ	HE	304	47	ES		1831	13.00	-.050							1.0

MESJ HE 304 47 IAML 1831 16.05 1 0.2

**February 3 2020 Hour: 3: 6 33.3 Lat: 36.63N Lon: 8.01W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	136	352	EP		3 6	53.830	.100							1.0
MESJ	HN	136	352	ES		3 7	8.56-	.100							1.0
MESJ	HN	136	352	IAML		3 7	9.16				4			0.1	

**February 3 2020 Hour: 14:45 18.7 Lat: 36.81N Lon: 4.48W Depth: 58F Agency: IGL Regional  
Magnitudes: 3.4ML IGL Rms: 0.1 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	351	290	EP		1446	4.710	.070							1.0
MESJ	HN	351	290	ES		1446	38.270	.120							1.0
MESJ	HN	351	290	IAML		1446	39.97				73			0.2	
MORF	HZ	375	280	EP		1446	7.58-	.070							1.0
MORF	HN	375	280	ES		1446	43.22-	.130							1.0
MORF	HN	375	280	IAML		1446	48.12				186			0.4	

**February 4 2020 Hour: 0:56 54.0 Lat: 36.69N Lon: 7.20W Depth: 19F 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	146	298	EP		057	15.81-	.010							1.0
MORF	HE	146	298	ES		057	31.74-	.000							1.0
MORF	HE	146	298	IAML		057	32.83				44			0.2	
MESJ	HZ	156	325	EP		057	17.01-	.040							1.0
MESJ	HE	156	325	ES		057	33.930	.050							1.0
MESJ	HN	156	325	IAML		057	35.45				8			0.2	

**February 4 2020 Hour: 2:10 53.4 Lat: 35.13N Lon: 28.03E Depth: 10F Agency: IGL Distant  
Magnitudes: 4.5Mb IGL Rms: 0.0 secs**

**EASTERN MEDITERRANEAN SEA Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3242	286	EP		216	54.750	.010							1.0
MESJ	BZ	3242	286	IAMB		216	59.94				6			0.8	

**February 4 2020 Hour: 10: 5 31.3 Lat: 38.28N Lon: 8.37W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	51	165	EP		10 5	39.820	.030							1.0
MESJ	HE	51	165	ES		10 5	46.050	.040							1.0
MESJ	HE	51	165	IAML		10 5	48.11				7			0.1	
MORF	HZ	111	193	EP		10 5	48.57-	.160							1.0
MORF	HE	111	193	ES		10 6	1.560	.080							1.0
MORF	HN	111	193	IAML		10 6	2.78				9			0.1	

**February 4 2020 Hour: 17:55 24.1 Lat: 38.97N Lon: 27.84E Depth: 9F Agency: IGL Distant  
Magnitudes: 5.1Mb IGL Rms: 0.0 secs**

**WESTERN TURKEY Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3132	279	EP		18 1	16.770	.010							1.0
MESJ	BZ	3132	279	IAMB		18 1	23.99				61			1.7	

**February 4 2020 Hour: 22:27 59.3 Lat: 35.98N Lon: 8.77W Depth: 32F 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	147	4	EP		2228	20.390	.020							1.0
MORF	HE	147	4	ES		2228	35.62-	.140							1.0
MORF	HE	147	4	IAML		2228	37.96				7			0.2	

MESJ HN 212 13 ES 2228 49.750.130 1.0  
 MESJ HN 212 13 IAML 2228 50.61 0.80 0.2

**February 5 2020 Hour: 18:12 37.5 Lat: 6.08S Lon: 113.11E Depth:590F Agency: IGL Distant  
 Rms: 0.1 secs**

**JAVA, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13166	310		EPKP		1830	18.35-	.010							1.0
GGNV	BZ13217	311		EPKP		1830	19.300.	.080							1.0
MORF	BZ13218	309		EPKP		1830	19.25-	.070							1.0

**February 6 2020 Hour: 5:17 47.7 Lat: 36.41N Lon: 9.34W Depth: 11F Agency: IGL Regional  
 Magnitudes: 1.4ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	117	31	ES		518	19.60-	.020							1.0
MORF	HN	117	31	IAML		518	21.18			10	0.1				
MESJ	HZ	187	32	EP		518	15.510.	.170							1.0
MESJ	HE	187	32	ES		518	35.34-	.150							1.0
MESJ	HE	187	32	IAML		518	39.79			2	0.2				

**February 6 2020 Hour: 6:30 43.0 Lat: 37.17N Lon: 8.54W Depth: 21F Agency: IGL Regional  
 Magnitudes: 0.7ML IGL Rms: 0.0 secs**

**NE PORTIMAO, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	18	326	EP		630	47.39-	.000							1.0
MORF	HE	18	326	ES		630	50.610.	.000							1.0
MORF	HE	18	326	IAML		630	51.07			14	0.2				

**February 6 2020 Hour: 9:24 14.6 Lat: 39.18N Lon: 21.44E Depth: 9F Agency: IGL Distant  
 Magnitudes: 4.8Mb IGL Rms: 0.0 secs**

**GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	2580	276	EP		929	21.89-	.010							1.0
MESJ	BZ	2580	276	IAMB		929	25.28			34	1.1				

**February 6 2020 Hour: 13:40 10.3 Lat: 5.47N Lon: 126.49E Depth: 44F Agency: IGL Distant  
 Magnitudes: 5.9Ms IGL Rms: 0.1 secs**

**MINDANAO, PHILIPPINES Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13334	320		EPKpdf		1358	55.450.	.050							1.0
MESJ	BZ13334	320		EPP		14	0	19.130.	.030						1.0
MESJ	BZ13334	320		IAMs_20		1447	28.79			2188	25.7				
GGNV	BZ13342	321		EPP		14	0	19.760.	.160						1.0
GGNV	BZ13342	321		IAMs_20		1454	54.64			3435	22.1				
MORF	BZ13399	319		EPKpdf		1358	56.49-	.090							1.0
MORF	BZ13399	319		EPP		14	0	23.06-	.140						1.0
MORF	BZ13399	319		IAMs_20		1457	10.35			3263	19.6				

**February 6 2020 Hour: 22:17 40.8 Lat: 36.35N Lon: 8.12W Depth: 15F 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	116	336	EP		2217	58.91-	.230							1.0
MORF	HE	116	336	ES		2218	12.760.	.270							1.0
MORF	HE	116	336	IAML		2218	14.65			59	0.1				
MESJ	HZ	166	357	EP		2218	5.28-	.100							1.0
MESJ	HE	166	357	ES		2218	23.360.	.070							1.0
MESJ	HN	166	357	IAML		2218	24.74			66	0.1				

February 7 2020 Hour: 0:40 3.9 Lat: 37.06N Lon: 15.75W Depth: 66F Agency: IGL Regional  
Magnitudes: 2.1ML IGL Rms: 0.0 secs

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	631	85	EP		041	23.250	.010							1.0
MORF	HN	631	85	ES		042	21.180	.050							1.0
MORF	HE	631	85	IAML		042	23.61			2	0.2				
MESJ	HZ	672	80	EP		041	27.98	-.060							1.0

February 7 2020 Hour: 6:46 44.8 Lat: 36.68N Lon: 7.38W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.8ML IGL Rms: 0.1 secs

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	149	330	EP		647	8.700	.150							1.0
MESJ	HN	149	330	ES		647	25.76	-.150							1.0
MESJ	HN	149	330	IAML		647	27.17			1	0.2				

February 7 2020 Hour: 11:37 46.7 Lat: 37.30N Lon: 8.54W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.4ML IGL Rms: 0.2 secs

**SE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	273	EP		1137	48.90	-.220							1.0
MORF	HE	10	273	ES		1137	51.090	.170							1.0
MORF	HN	10	273	IAML		1137	52.52			25	0.2				
MESJ	HZ	66	25	EP		1137	57.620	.200							1.0
MESJ	HE	66	25	ES		1138	5.12	-.160							1.0
MESJ	HE	66	25	IAML		1138	6.32			1	0.1				

February 7 2020 Hour: 16:38 40.5 Lat: 36.67N Lon: 9.68W Depth: 21F 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	115	52	EP		1638	58.440	.110							1.0
MORF	HN	115	52	ES		1639	11.15	-.180							1.0
MORF	HN	115	52	IAML		1639	12.63			15	0.2				
MESJ	HZ	183	45	EP		1639	6.73	-.000							1.0
MESJ	HE	183	45	ES		1639	25.960	.080							1.0
MESJ	HN	183	45	IAML		1639	27.27			5	0.2				

February 7 2020 Hour: 17:44 11.6 Lat: 36.64N Lon: 2.12E Depth: 60F Agency: IGL Regional  
Rms: 0.0 secs

**NORTHERN ALGERIA Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	927	281	EP		1746	5.910	.010							1.0

February 7 2020 Hour: 18:40 54.4 Lat: 37.31N Lon: 8.57W Depth: 10F Agency: IGL Regional  
Magnitudes: 0.6ML 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	265	EP		1840	56.490	.020							1.0
MORF	HE	7	265	ES		1840	58.030	.050							1.0
MORF	HN	7	265	IAML		1840	58.53			71	0.1				
MESJ	HZ	66	28	EP		1841	5.360	.130							1.0
MESJ	HE	66	28	ES		1841	12.94	-.200							1.0
MESJ	HN	66	28	IAML		1841	15.79			1	0.2				

February 8 2020 Hour: 2:40 6.3 Lat: 37.27N Lon: 8.40W Depth: 19F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

**NE SILVES, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	23	280	EP		240	10.98	-.090							1.0
MORF	HN	23	280	ES		240	14.610	.090							1.0
MORF	HN	23	280	IAML		240	15.16			12	0.3				

**February 8 2020 Hour: 14:33 0.1 Lat: 60.02S Lon: 25.48W Depth: 16F Agency: IGL Distant**  
**Magnitudes: 6.1Ms IGL Rms: 0.1 secs**

**SOUTH SANDWICH ISLANDS REGION Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ10877	13	EP			1446	34.060	.010							1.0
MORF	BZ10877	13	IAMs_20			1527	55.29		3925	19.2					
MESJ	BZ10942	14	EP			1446	37.830	.110							1.0
MESJ	BZ10942	14	IAMs_20			1528	8.01		6376	18.7					
GGNV	BZ11026	13	EP			1446	40.95-	.110							1.0
GGNV	BE11026	13	IAMs_20			1526	11.48		5790	10.7					

**February 9 2020 Hour: 0:54 12.1 Lat: 37.34N Lon: 8.51W Depth: 6F Agency: IGL Regional**  
**Magnitudes: 1.4ML 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	13	253	EP		054	14.19-	.250							1.0
MORF	HN	13	253	ES		054	16.260	.080							1.0
MORF	HN	13	253	IAML		054	16.74		326	0.1					
MESJ	HZ	61	25	EP		054	22.180	.230							1.0
MESJ	HN	61	25	ES		054	29.12-	.060							1.0
MESJ	HN	61	25	IAML		054	30.33		8	0.1					

**February 9 2020 Hour: 2:14 46.1 Lat: 36.55N Lon: 9.79W Depth: 10F 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	131	50	EP		2 2	6.880	.060							1.0
MORF	HE	131	50	ES		2 2	21.950	.000							1.0
MORF	HN	131	50	IAML		2 2	25.71		9	0.2					
MESJ	HZ	200	44	EP		2 2	15.28-	.070							1.0
MESJ	HN	200	44	ES		2 2	36.710	.000							1.0
MESJ	HE	200	44	IAML		2 2	39.27		2	0.1					

**February 9 2020 Hour: 6:42 27.2 Lat: 5.45S Lon: 152.10E Depth: 31F Agency: IGL Distant**  
**Magnitudes: 6.1Ms IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ15893	335	EPKP			623	56.81-	.020							1.0
GGNV	BE15893	335	IAMs_20			729	43.81		4791	18.1					
MESJ	BZ15931	334	EPKP			623	57.37-	.080							1.0
MESJ	BZ15931	334	IAMs_20			726	4.69		2875	20.4					
MORF	BZ16001	334	EPKP			623	58.710	.100							1.0
MORF	BE16001	334	IAMs_20			730	22.64		4541	27.1					

**February 9 2020 Hour: 17:55 11.5 Lat: 37.33N Lon: 8.52W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 0.5ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	256	EP		1755	13.79-	.200							1.0
MORF	HE	12	256	ES		1755	15.840	.040							1.0
MORF	HE	12	256	IAML		1755	16.68		21	0.1					
MESJ	HZ	62	25	EP		1755	21.880	.200							1.0
MESJ	HN	62	25	ES		1755	29.08-	.030							1.0

**February 10 2020 Hour: 7:11 42.8 Lat: 37.32N Lon: 8.63W Depth: 16F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**W MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HN	3	229	ES		711	47.33-	.070							1.0
MORF	HN	3	229	IAML		711	47.62		79	0.2					
MESJ	HZ	68	32	EP		711	53.970	.150							1.0
MESJ	HE	68	32	ES		712	1.79-	.080							1.0
MESJ	HN	68	32	IAML		712	4.21		9	0.2					



February 10 2020 Hour: 11:42 13.7 Lat: 35.43N Lon: 6.44W Depth: 38F Agency: IGL Regional  
Magnitudes: 2.2ML 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	288	317	EP		1142	52.14	-.100							1.0
MORF	HN	288	317	ES		1143	20.400	.050							1.0
MORF	HN	288	317	IAML		1143	24.79			12	0.2				
MESJ	HZ	311	330	EP		1142	55.150	.010							1.0
MESJ	HN	311	330	ES		1143	25.410	.040							1.0
MESJ	HN	311	330	IAML		1143	27.23			9	0.4				

February 10 2020 Hour: 15:5 17.1 Lat: 35.44N Lon: 6.43W Depth: 32F 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	311	330	EP		15 5	58.520	.030							1.0
MESJ	HE	311	330	ES		15 6	28.63	-.030							1.0
MESJ	HN	311	330	IAML		15 6	30.28			4	0.2				

February 10 2020 Hour: 20:19 21.2 Lat: 36.54N Lon: 7.60W Depth: 11F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.0 secs

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	126	312	EP		2019	41.07	-.010							1.0
MESJ	HZ	154	339	EP		2019	44.63	-.050							1.0
MESJ	HE	154	339	ES		2020	1.900	.060							1.0
MESJ	HE	154	339	IAML		2020	4.74			3	0.1				

February 10 2020 Hour: 22:46 54.5 Lat: 35.12N Lon: 27.95E Depth: 50F Agency: IGL Distant  
Magnitudes: 5.1Mb IGL Rms: 0.0 secs

**DODECANESE ISLANDS, GREECE Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3236	286	EP		2252	50.44	-.000							1.0
MESJ	BZ	3236	286	IAMB		2252	55.16			82	1.8				

February 11 2020 Hour: 2:45 7.4 Lat: 36.62N Lon: 9.68W Depth: 18F Agency: IGL Regional  
Magnitudes: 1.6ML IGL Rms: 0.1 secs

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	119	50	EP		245	25.93	-.030							1.0
MORF	HN	119	50	ES		245	39.550	.080							1.0
MORF	HN	119	50	IAML		245	41.80			11	0.2				
MESJ	HZ	187	43	EP		245	34.35	-.080							1.0
MESJ	HN	187	43	ES		245	54.150	.020							1.0

February 11 2020 Hour: 7:22 21.0 Lat: 41.53N Lon: 8.49W Depth: 7F Agency: IGL Regional  
Rms: 0.0 secs

**SW BRAGA, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	410	177	EP		723	16.750	.040							1.0
MORF	HZ	469	182	EP		723	23.87	-.050							1.0

February 11 2020 Hour: 13:50 2.7 Lat: 24.77S Lon: 70.91W Depth: 34F Agency: IGL Distant  
Magnitudes: 5.6Mb IGL Rms: 0.1 secs

**OFFSHORE ANTOFAGASTA, CHILE Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9464	45	EP		14 2	35.160	.080							1.0
MORF	BZ	9464	45	IAMB		14 2	36.70			55	1.3				
MESJ	BZ	9530	45	EP		14 2	37.89	-.080							1.0
MESJ	BZ	9530	45	IAMB		14 2	39.48			50	1.2				

February 11 2020 Hour: 23:43 11.6 Lat: 33.05N Lon: 5.33W Depth: 18F Agency: IGL Regional  
Rms: 0.0 secs

MOROCCO Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	561	328	EP		2344	24.54	-.020							1.0
MESJ	HZ	593	335	EP		2344	28.430	.030							1.0

February 12 2020 Hour: 21: 5 30.7 Lat: 37.55N Lon: 6.75W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.2ML IGL 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	134	284	EP		21 5	52.19	-.000							1.0
MESJ	HE	134	284	ES		21 6	7.880	.000							1.0
MESJ	HE	134	284	IAML		21 6	9.58			4	0.1				

February 13 2020 Hour: 7:14 31.3 Lat: 36.81N Lon: 6.49W Depth: 21F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	191	307	EP		714	58.530	.070							1.0
MESJ	HE	191	307	ES		715	18.330	.010							1.0
MESJ	HN	191	307	IAML		715	19.57			6	0.1				
MORF	HZ	200	287	EP		714	59.620	.030							1.0
MORF	HN	200	287	ES		715	20.15	-.120							1.0
MORF	HE	200	287	IAML		715	21.99			21	0.2				

February 13 2020 Hour: 10:33 43.4 Lat: 45.63N Lon: 148.93E Depth:144FAgency: IGL Distant  
Magnitudes: 6.7Mb IGL Rms: 0.1 secs

KURIL ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ10419	343	EP			1046	43.530	.140							1.0
GGNV	BZ10419	343	IAMB			1046	48.71			449	1.3				
GGNV	BZ10419	343	EPP			1050	30.780	.030							1.0
GGNV	BN10419	343	ESKSac			1057	4.450	.160							1.0
MESJ	BZ10491	342	EP			1046	46.37	-.030							1.0
MESJ	BZ10491	342	IAMB			1046	51.34			470	1.2				
MESJ	BZ10491	342	EPP			1050	35.880	.060							1.0
MESJ	BZ10491	342	EPKiKP			1051	29.18	-.090							1.0
MESJ	BN10491	342	ESKSac			1057	7.910	.040							1.0
MORF	BZ10558	342	EP			1046	49.12	-.110							1.0
MORF	BZ10558	342	IAMB			1046	54.83			1276	1.6				
MORF	BZ10558	342	EPP			1050	40.48	-.100							1.0
MORF	BN10558	342	ESKSac			1057	11.14	-.080							1.0

February 13 2020 Hour: 22:58 25.8 Lat: 37.32N Lon: 8.60W Depth: 15F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

NW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	5	250	EP		2258	28.390	.020							1.0
MORF	HE	5	250	ES		2258	30.310	.040							1.0
MORF	HN	5	250	IAML		2258	30.83			38	0.2				
MESJ	HZ	67	30	EP		2258	36.610	.040							1.0
MESJ	HE	67	30	ES		2258	44.37	-.090							1.0
MESJ	HN	67	30	IAML		2258	46.86			1	0.1				

February 14 2020 Hour: 9:36 12.9 Lat: 37.31N Lon: 8.56W Depth: 11F Agency: IGL Regional  
Magnitudes: 0.7ML IGL Rms: 0.1 secs

SW MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	266	EP		936	15.03	-.140							1.0
MORF	HN	8	266	ES		936	16.900	.060							1.0
MORF	HE	8	266	IAML		936	17.90			25	0.1				
MESJ	HZ	66	27	EP		936	23.610	.000							1.0

MESJ HE 66 27 ES 936 31.520.080 1.0  
 MESJ HN 66 27 IAML 936 32.12 5 0.2

**February 14 2020 Hour: 13:50 44.7 Lat: 16.69S Lon: 73.11W Depth: 60F Agency: IGL Distant**  
**Magnitudes: 4.9Mb IGL Rms: 0.0 secs**

**NEAR THE COAST OF SOUTHERN PERU Net: NEIC**

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 9071 46 EP 14 2 55.84-.020 1.0  
 MESJ BZ 9071 46 IAMB 14 2 57.53 22 1.3

**February 14 2020 Hour: 16: 2 15.7 Lat: 35.63N Lon: 26.98E Depth: 17F Agency: IGL Distant**  
**Magnitudes: 5.2Mb IGL Rms: 0.0 secs**

**CRETE, GREECE Net: NEIC**

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 3135 285 EP 16 8 7.460.040 1.0  
 MESJ BZ 3135 285 IAMB 16 8 11.27 30 0.7

**February 15 2020 Hour: 23: 1 16.5 Lat: 37.45N Lon: 17.38W Depth: 11F Agency: IGL Regional**  
**Magnitudes: 2.7ML IGL Rms: 0.0 secs**

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

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MORF HZ 773 89 EP 23 2 55.53-.030 1.0  
 MORF HE 773 89 ES 23 4 7.880.030 1.0  
 MORF HN 773 89 IAML 23 4 10.44 7 0.3

**February 16 2020 Hour: 12: 9 48.8 Lat: 37.56N Lon: 7.48W Depth: 12F Agency: IGL Regional**  
**Magnitudes: 1.2ML IGL Rms: 0.1 secs**

**SPAIN Net: IMP**

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ HZ 72 296 EP 1210 0.510.060 1.0  
 MESJ HE 72 296 ES 1210 8.86-.080 1.0  
 MESJ HN 72 296 IAML 1210 10.62 9 0.1  
 MORF HZ 108 255 EP 1210 5.850.020 1.0

**February 16 2020 Hour: 12:30 47.5 Lat: 27.14N Lon: 55.75E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.6Mb IGL Rms: 0.1 secs**

**SOUTHERN IRAN Net: NEIC**

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MESJ BZ 6015 299 EP 1240 12.22-.050 1.0  
 MESJ BZ 6015 299 IAMB 1240 13.42 65 1.4  
 MORF BZ 6062 298 EP 1240 15.34-.060 1.0  
 MORF BZ 6062 298 IAMB 1240 15.96 43 1.3  
 GGNV BZ 6081 300 EP 1240 16.660.110 1.0  
 GGNV BZ 6081 300 IAMB 1240 17.91 232 1.3

**February 16 2020 Hour: 14: 5 48.3 Lat: 36.56N Lon: 7.12W 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  
 MESJ HZ 172 326 EP 14 6 13.51-.070 1.0  
 MESJ HN 172 326 ES 14 6 32.120.070 1.0  
 MESJ HE 172 326 IAML 14 6 33.51 2 0.3

**February 16 2020 Hour: 20:19 28.4 Lat: 37.31N Lon: 8.56W Depth: 9F Agency: IGL Regional**  
**Magnitudes: 0.8ML 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 8 266 EP 2019 30.34-.070 1.0  
 MORF HN 8 266 ES 2019 31.960.070 1.0  
 MORF HN 8 266 IAML 2019 32.48 48 0.1

February 16 2020 Hour: 21:9 40.0 Lat: 36.55N Lon: 7.66W Depth: 17F Agency: IGL Regional  
Magnitudes: 1.5ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	122	314	EP		21 9	58.84	-.150							1.0
MESJ	HZ	152	341	EP		2110	2.840	.190							1.0
MESJ	HE	152	341	ES		2110	19.12	-.040							1.0
MESJ	HN	152	341	IAML		2110	20.60			6	0.1				

February 16 2020 Hour: 21:56 52.8 Lat: 32.50N Lon: 4.26W Depth: 11F Agency: IGL Regional  
Magnitudes: 4.7ML 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	667	324	EP		2158	19.25	-.070							1.0
MORF	HN	667	324	ES		2159	22.710	.250							1.0
MORF	HE	667	324	IAML		2159	27.42			1038	0.4				
MESJ	HZ	693	330	EP		2158	22.39	-.090							1.0
MESJ	HN	693	330	ES		2159	27.82	-.100							1.0
MESJ	HN	693	330	IAML		2159	33.34			563	0.5				

February 16 2020 Hour: 22:5 45.1 Lat: 21.95S Lon: 68.53W Depth:107F Agency: IGL Distant  
Magnitudes: 4.9Mb IGL Rms: 0.0 secs

ANTOFAGASTA, CHILE Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	9072	44	EP		2217	50.87	-.040							1.0
MORF	BZ	9072	44	IAMB		2217	55.50			29	1.4				
MESJ	BZ	9138	44	EP		2217	53.980	.040							1.0
MESJ	BZ	9138	44	IAMB		2217	56.15			12	0.6				

February 16 2020 Hour: 22:6 40.2 Lat: 32.60N Lon: 4.34W Depth: 0 Agency: IGL Regional  
Magnitudes: 3.2ML 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	654	324	EP		22 8	6.17	-.060							1.0
MESJ	HZ	680	330	EP		22 8	9.31	-.080							1.0
MESJ	HN	680	330	ES		22 9	14.630	.140							1.0
MESJ	HN	680	330	IAML		22 9	20.18			28	0.6				

February 17 2020 Hour: 0:28 15.0 Lat: 33.12S Lon: 179.95E Depth:148F Agency: IGL Distant  
Rms: 0.0 secs

SOUTH OF KERMADEC ISLANDS Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	19108	57	EPKpdf		048	5.440	.010							1.0

February 17 2020 Hour: 14:20 24.2 Lat: 37.01N Lon: 15.18W Depth: 63F Agency: IGL Regional  
Magnitudes: 4.3ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	HZ	563	69	EP		1421	35.760	.110							1.0
GGNV	HN	563	69	ES		1422	27.850	.070							1.0
GGNV	HN	563	69	IAML		1422	31.71			1071	0.3				
MORF	HZ	581	85	EP		1421	37.73	-.000							1.0
MORF	HE	581	85	ES		1422	31.19	-.190							1.0
MORF	HN	581	85	IAML		1422	36.45			366	0.3				
MESJ	HZ	623	79	EP		1421	42.62	-.030							1.0
MESJ	HE	623	79	ES		1422	39.940	.040							1.0
MESJ	HN	623	79	IAML		1422	45.68			133	0.2				

February 18 2020 Hour: 0:22 3.2 Lat: 38.08N Lon: 8.54W Depth: 1 Agency: IGL Regional  
Magnitudes: 0.3ML IGL Rms: 0.1 secs

SE GRANDOLA, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	39	133	EP		022	9.39	-.070							1.0
MESJ	HN	39	133	ES		022	14.100	.070							1.0
MESJ	HE	39	133	IAML		022	14.59			3	0.1				

February 18 2020 Hour: 4:33 10.0 Lat: 36.61N Lon: 11.23W Depth: 25F Agency: IGL Regional  
Magnitudes: 1.9ML IGL Rms: 0.1 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	242	71	EP		433	43.370	.100							1.0
MORF	HE	242	71	ES		434	7.550	.010							1.0
MORF	HE	242	71	IAML		434	9.77			11	0.2				
MESJ	HZ	300	62	EP		433	50.37	-.050							1.0
MESJ	HN	300	62	ES		434	19.84	-.070							1.0
MESJ	HN	300	62	IAML		434	21.60			4	0.3				

February 18 2020 Hour: 7:29 39.9 Lat: 85.74N Lon: 22.70E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.8Mb IGL Rms: 0.1 secs

NORTH OF SVALBARD Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	5404	213	EP		738	23.840	.100							1.0
MESJ	BZ	5404	213	IAMB		738	26.06			111	1.2				
MORF	BZ	5465	213	EP		738	27.92	-.100							1.0
MORF	BZ	5465	213	IAMB		738	29.24			154	1.6				

February 18 2020 Hour: 15:30 35.5 Lat: 35.97N Lon: 7.79W Depth: 0 Agency: IGL Regional  
Magnitudes: 1.1ML 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
MORF	HZ	167	333	EP		1531	1.51	-.220							1.0
MESJ	HZ	211	350	EP		1531	7.320	.150							1.0
MESJ	HE	211	350	ES		1531	30.350	.080							1.0
MESJ	HE	211	350	IAML		1531	32.62			2	0.1				

February 18 2020 Hour: 18:55 48.8 Lat: 36.52N Lon: 7.78W Depth: 2F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.1 secs

STRAIT OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	117	318	EP		1856	7.51	-.140							1.0
MORF	HE	117	318	ES		1856	21.560	.160							1.0
MORF	HN	117	318	IAML		1856	23.40			8	0.1				
MESJ	HZ	152	345	EP		1856	12.82	-.090							1.0
MESJ	HE	152	345	ES		1856	30.570	.080							1.0
MESJ	HN	152	345	IAML		1856	33.88			3	0.3				

February 19 2020 Hour: 12:47 8.7 Lat: 39.99N Lon: 8.56W Depth: 12F Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.1 secs

SE SOURE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	241	173	EP		1247	42.71	-.070							1.0
MESJ	HN	241	173	ES		1248	7.750	.070							1.0
MESJ	HE	241	173	IAML		1248	10.88			2	0.3				

February 20 2020 Hour: 6:51 21.6 Lat: 37.33N Lon: 8.54W Depth: 9F Agency: IGL Regional  
Magnitudes: 0.9ML IGL Rms: 0.1 secs

NE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	10	254	EP		651	23.65	-.220							1.0
MORF	HN	10	254	ES		651	25.650	.120							1.0
MORF	HN	10	254	IAML		651	26.05			124	0.2				

MESJ HZ	63	26	EP	651	31.980	0.080												1.0
MESJ HN	63	26	ES	651	39.440	0.020												1.0
MESJ HE	63	26	IAML	651	42.94				3	0.3								

**February 20 2020 Hour: 18:57 36.4 Lat: 53.64N Lon: 160.78E Depth: 34F Agency: IGL Distant  
Magnitudes: 5.9Mb IGL Rms: 0.0 secs**

**NEAR EAST COAST OF KAMCHATKA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GGNV	BZ	9731	352	EP		1910	20.45-	.020							1.0
GGNV	BZ	9731	352	IAMB		1910	23.46		105	0.8					
MESJ	BZ	9819	351	EP		1910	24.270	.010							1.0
MESJ	BZ	9819	351	IAMB		1910	25.84		37	1.0					
MORF	BZ	9882	352	EP		1910	27.000	.000							1.0
MORF	BZ	9882	352	IAMB		1910	29.83		98	1.2					

**February 21 2020 Hour: 20:37 15.9 Lat: 36.66N Lon: 9.72W Depth: 1 Agency: IGL Regional  
Magnitudes: 1.3ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	119	53	EP		2037	35.09-	.030							1.0
MORF	HN	119	53	ES		2037	49.160	.030							1.0
MORF	HN	119	53	IAML		2037	49.88		5	0.3					

**February 22 2020 Hour: 8: 8 0.2 Lat: 42.22N Lon: 2.84W Depth: 0 Agency: IGL Regional  
Rms: 0.0 secs**

**SPAIN Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	669	225	EP		8 9	28.00-	.030							1.0
MORF	HZ	739	224	EP		8 9	36.460	.040							1.0

**February 22 2020 Hour: 18:34 53.3 Lat: 34.30N Lon: 5.70W Depth: 12F Agency: IGL Regional  
Magnitudes: 2.0ML IGL Rms: 0.0 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	427	322	EP		1835	50.56-	.040							1.0
MORF	HE	427	322	ES		1836	32.440	.030							1.0
MORF	HN	427	322	IAML		1836	34.17		4	0.2					
MESJ	HZ	454	331	EP		1835	53.790	.000							1.0
MESJ	HN	454	331	ES		1836	37.93-	.000							1.0
MESJ	HN	454	331	IAML		1836	42.05		3	0.3					

**February 22 2020 Hour: 19:44 42.4 Lat: 36.76N Lon: 12.46W Depth: 27F Agency: IGL Regional  
Magnitudes: 2.5ML 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	344	79	EP		1945	28.19-	.040							1.0
MORF	HN	344	79	ES		1946	1.53-	.130							1.0
MORF	HN	344	79	IAML		1946	6.33		27	0.2					
MESJ	HZ	395	71	EP		1945	34.610	.150							1.0
MESJ	HE	395	71	ES		1946	12.470	.030							1.0
MESJ	HN	395	71	IAML		1946	15.41		8	0.1					

**February 22 2020 Hour: 20: 8 27.9 Lat: 35.91N Lon: 7.68W Depth: 28F Agency: IGL Regional  
Magnitudes: 1.4ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	178	331	EP		20 8	52.72-	.170							1.0
MESJ	HZ	219	347	EP		20 8	58.190	.120							1.0
MESJ	HE	219	347	ES		20 9	20.170	.050							1.0
MESJ	HE	219	347	IAML		20 9	21.88		3	0.2					

February 22 2020 Hour: 22:26 41.0 Lat: 37.39N Lon: 31.48E Depth: 5F Agency: IGL Distant  
Magnitudes: 5.0Mb IGL Rms: 0.0 secs

WESTERN TURKEY Net: CSEM

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	3479	283	EP		2233	1.93	-.020							1.0
MESJ	BZ	3479	283	IAMB		2233	4.22			26	1.2				

February 23 2020 Hour: 0:11 10.0 Lat: 37.30N Lon: 8.52W Depth: 9F Agency: IGL Regional  
Magnitudes: 0.6ML IGL Rms: 0.1 secs

SE MONCHIQUE, PORTUGAL Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	12	272	EP		0	1	12.36	-.090						1.0
MORF	HE	12	272	ES		0	1	14.31	0.070						1.0
MORF	HE	12	272	IAML		0	1	14.50		23	0.2				
MESJ	HZ	66	24	EP		0	1	20.70	0.030						1.0

February 23 2020 Hour: 5:53 1.0 Lat: 38.50N Lon: 44.40E Depth: 6F Agency: IGL Distant  
Magnitudes: 5.3Ms IGL Rms: 0.1 secs

TURKEY-IRAN BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4547	286	EP		6	0	43.79	-.100						1.0
MESJ	BN	4547	286	ES		6	6	56.84	0.080						1.0
MESJ	BN	4547	286	ESS		6	9	59.42	0.080						1.0
MESJ	BN	4547	286	IAMs_20		613	18.03			6801	30.0				
MORF	BZ	4602	285	EP		6	0	47.94	-.060						1.0
MORF	BE	4602	285	IAMs_20		616	13.72			7003	35.9				

February 23 2020 Hour: 10:13 30.5 Lat: 36.60N Lon: 7.24W 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
MORF	HN	148	302	ES		10	2	8.93	0.080						1.0
MORF	HN	148	302	IAML		10	2	10.57		7	0.1				
MESJ	HZ	163	328	EP		10	1	54.45	-.020						1.0
MESJ	HN	163	328	ES		10	2	11.88	-.060						1.0
MESJ	HN	163	328	IAML		10	2	13.89		4	0.2				

February 23 2020 Hour: 16:03 31.6 Lat: 38.48N Lon: 44.37E Depth: 10F Agency: IGL Distant  
Magnitudes: 5.9Ms IGL Rms: 0.1 secs

TURKEY-IRAN BORDER REGION Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BE	4545	286	ES		1614	25.98	-.140							1.0
MESJ	BN	4545	286	IAMs_20		1620	47.36			18843	32.5				
GGNV	BE	4594	288	ES		1614	32.65	0.130							1.0
GGNV	BN	4594	288	IAMs_20		1621	18.26			23488	25.7				
MORF	BE	4600	285	ES		1614	33.55	0.010							1.0
MORF	BN	4600	285	IAMs_20		1620	39.20			33635	42.6				

February 24 2020 Hour: 4:18 12.0 Lat: 36.59N Lon: 7.39W Depth: 19F 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	138	306	EP		418	32.79	0.010							1.0
MORF	HE	138	306	ES		418	47.85	-.070							1.0
MORF	HN	138	306	IAML		418	49.13			3	0.1				
MESJ	HZ	157	332	EP		418	35.22	0.060							1.0

**February 24 2020 Hour: 9:59 16.7 Lat: 36.76N Lon: 8.00W Depth: 30F 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	84	316	EP		959	29.77	-.210							1.0
MORF	HN	84	316	ES		959	39.660	.000							1.0
MORF	HN	84	316	IAML		959	40.17			6	0.1				
MESJ	HZ	121	351	EP		959	34.870	.250							1.0
MESJ	HN	121	351	ES		959	47.64	-.040							1.0
MESJ	HN	121	351	IAML		959	48.68			4	0.1				

**February 24 2020 Hour: 13:44 31.2 Lat: 32.57N Lon: 5.52W Depth: 4F Agency: IGL Regional**  
**Rms: 0.0 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	634	338	EP		1345	54.450	.000							1.0

**February 25 2020 Hour: 4:15 2.9 Lat: 8.07S Lon: 79.96W Depth: 32F Agency: IGL Distant**  
**Magnitudes: 5.3Mb IGL Rms: 0.0 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	BZ	8936	50	EP		427	10.82	-.000							1.0
MORF	BZ	8936	50	IAMB		427	12.62			43	1.2				

**February 25 2020 Hour: 9:50 8.7 Lat: 36.42N Lon: 7.74W Depth: 14F Agency: IGL Regional**  
**Magnitudes: 1.0ML 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
MESJ	HZ	163	345	EP		950	33.050	.070							1.0
MESJ	HE	163	345	ES		950	50.68	-.070							1.0
MESJ	HE	163	345	IAML		950	51.75			2	0.1				

**February 25 2020 Hour: 18:46 16.8 Lat: 36.55N Lon: 7.32W Depth: 32F Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	145	306	EP		1846	37.54	-.130							1.0
MESJ	HZ	164	331	EP		1846	40.020	.070							1.0
MESJ	HN	164	331	ES		1846	56.870	.050							1.0
MESJ	HN	164	331	IAML		1846	59.89			30	0.1				

**February 25 2020 Hour: 23:3 37.6 Lat: 38.33N Lon: 38.77E Depth: 10F Agency: IGL Distant**  
**Magnitudes: 5.0Mb IGL Rms: 0.0 secs**

**EASTERN TURKEY Net: CSEM**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ	4078	284	EP		2310	44.480	.050							1.0
MESJ	BZ	4078	284	IAMB		2310	47.93			48	1.5				
MORF	BZ	4131	284	EP		2310	48.51	-.050							1.0
MORF	BZ	4131	284	IAMB		2310	49.75			31	1.0				

**February 26 2020 Hour: 7:33 13.8 Lat: 7.56S Lon: 131.12E Depth: 61F Agency: IGL Distant**  
**Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ14747	316	EPP			754	45.13	-.010							1.0
GGNV	BZ14769	317	EPP			754	46.530	.120							1.0
MORF	BZ14809	315	EPP			754	48.66	-.110							1.0



**February 27 2020 Hour: 10:9 55.6 Lat: 37.28N Lon: 8.57W Depth: 8F Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.1 secs**

**SW MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	8	290	EP		10	9	57.34							1.0
MORF	HN	8	290	ES		10	9	58.970							1.0
MORF	HN	8	290	IAML		10	9	59.63		49	0.1				
MESJ	HZ	69	26	EP		1010		6.980							1.0

**February 27 2020 Hour: 17:41 26.8 Lat: 36.77N Lon: 9.63W Depth: 18F 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	105	55	EP		1741		43.550							1.0
MORF	HN	105	55	ES		1741		55.880							1.0
MORF	HE	105	55	IAML		1741		56.76		62	0.2				
MESJ	HZ	172	46	EP		1741		51.81							1.0
MESJ	HE	172	46	ES		1742		10.20							1.0
MESJ	HN	172	46	IAML		1742		11.58		7	0.1				

**February 27 2020 Hour: 19:13 2.4 Lat: 3.85N Lon: 125.78E Depth: 117F Agency: IGL Distant**  
**Rms: 0.0 secs**

**KEPULAUAN SANGIHE, INDONESIA Net: NEIC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13418	319		EPKpdf		1931		39.92							1.0

**February 28 2020 Hour: 2:50 22.1 Lat: 35.29N Lon: 3.45W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 2.4ML IGL 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	512	305	EP		251		30.740							1.0
MESJ	HN	512	305	ES		252		20.860							1.0
MESJ	HE	512	305	IAML		252		28.50		5	0.4				
MORF	HN	517	297	ES		252		22.00							1.0
MORF	HN	517	297	IAML		252		26.60		11	0.4				

**February 28 2020 Hour: 3:51 14.4 Lat: 38.05N Lon: 8.58W Depth: 20F Agency: IGL Regional**  
**Magnitudes: 0.7ML IGL Rms: 0.0 secs**

**NE SANTIAGO DO CACEM, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	39	126	EP		351		21.360							1.0
MESJ	HE	39	126	ES		351		26.41							1.0
MESJ	HN	39	126	IAML		351		27.88		6	0.1				

**February 28 2020 Hour: 7:15 49.2 Lat: 34.30N Lon: 5.72W Depth: 21F Agency: IGL Regional**  
**Rms: 0.0 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	HZ	453	331	EP		716		48.72							1.0

**February 28 2020 Hour: 7:43 31.3 Lat: 36.24N Lon: 8.59W Depth: 1 Agency: IGL Regional**  
**Magnitudes: 2.3ML IGL Rms: 0.0 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	118	357	EP		743		50.31							1.0
MORF	HE	118	357	ES		744		4.290							1.0
MORF	HE	118	357	IAML		744		6.46		112	0.3				
MESJ	HZ	181	10	EP		743		59.120							1.0
MESJ	HN	181	10	ES		744		19.34							1.0
MESJ	HN	181	10	IAML		744		25.49		12	0.1				

**February 28 2020 Hour: 8:48 8.3 Lat: 37.36N Lon: 8.45W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 1.5ML IGL Rms: 0.1 secs**

**NE MONCHIQUE, PORTUGAL Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	19	251	EP		848	11.67	-.140							1.0
MORF	HE	19	251	ES		848	14.33	-.040							1.0
MORF	HN	19	251	IAML		848	14.91			102	0.2				
MESJ	HZ	57	21	EP		848	17.84	0.200							1.0

**February 28 2020 Hour: 11:41 30.2 Lat: 33.66N Lon: 5.05W Depth: 2F Agency: IGL Regional**  
**Magnitudes: 0.1 secs**

**MOROCCO Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	520	322	EP		1142	39.87	0.060							1.0
MESJ	HZ	545	329	EP		1142	42.77	-.060							1.0

**February 28 2020 Hour: 14:51 53.3 Lat: 36.81N Lon: 13.72W Depth: 30F Agency: IGL Regional**  
**Magnitudes: 2.0ML IGL Rms: 0.1 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	454	82	EP		1452	52.50	0.110							1.0
MORF	HE	454	82	ES		1453	35.38	-.110							1.0
MORF	HN	454	82	IAML		1453	37.88			3	0.1				

**February 28 2020 Hour: 18:53 1.6 Lat: 36.42N Lon: 9.07W Depth: 7F Agency: IGL Regional**  
**Magnitudes: 1.4ML IGL Rms: 0.1 secs**

**WEST OF GIBRALTAR Net: IMP**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	105	21	EP		1853	18.39	-.120							1.0
MORF	HE	105	21	ES		1853	30.95	0.120							1.0
MORF	HE	105	21	IAML		1853	33.69			9	0.2				

**February 28 2020 Hour: 23:51 50.8 Lat: 36.26N Lon: 8.03W Depth: 39F Agency: IGL Regional**  
**Magnitudes: 0.9ML IGL Rms: 0.1 secs**

**STRAIT OF GIBRALTAR Net: MAD**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	128	335	EP		2352	9.67	0.080							1.0
MESJ	HN	176	355	ES		2352	33.33	-.080							1.0
MESJ	HN	176	355	IAML		2352	35.31			1	0.1				

**February 29 2020 Hour: 3: 5 29.5 Lat: 35.19N Lon: 14.71W Depth: 31F Agency: IGL Regional**  
**Magnitudes: 5.0ML IGL Rms: 0.3 secs**

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

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	592	65	EP		3 6	44.83	0.340							1.0
MORF	HE	592	65	ES		3 7	38.96	-.260							1.0
MORF	HE	592	65	IAML		3 7	43.55			2295	0.3				
GGNV	HZ	631	50	EP		3 6	49.19	0.090							1.0
GGNV	HN	631	50	ES		3 7	46.77	-.430							1.0
GGNV	HN	631	50	IAML		3 7	49.84			5171	0.4				
MESJ	HZ	651	61	EP		3 6	52.08	0.520							1.0
MESJ	HE	651	61	ES		3 7	51.19	-.250							1.0
MESJ	HN	651	61	IAML		3 7	57.81			683	0.4				

**February 29 2020 Hour: 3:37 44.1 Lat: 35.20N Lon: 14.84W Depth: 10F Agency: IGL Regional**  
**Magnitudes: 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	603	65	EP		339	2.94	-.030							1.0

February 29 2020 Hour: 3:42 19.2 Lat: 37.09N Lon: 7.35W Depth: 4F 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
MESJ	HZ	113	317	EP		342	37.41	-.120							1.0
MESJ	HN	113	317	ES		342	51.090	.210							1.0
MESJ	HN	113	317	IAML		342	52.96		2	0.2					
MORF	HE	118	282	ES		342	52.06	-.090							1.0
MORF	HN	118	282	IAML		342	53.67		3	0.1					

February 29 2020 Hour: 4: 4 1.1 Lat: 35.06N Lon: 14.56W Depth: 10F Agency: IGL Regional  
Rms: 0.0 secs

AZORES-CAPE ST. VINCENT RIDGE Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	587	63	EP		4 5	17.99	-.010							1.0

February 29 2020 Hour: 7: 3 31.2 Lat: 36.76N Lon: 7.55W Depth: 19F Agency: IGL Regional  
Magnitudes: 0.7ML 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	134	334	EP		7 3	51.430	.010							1.0
MESJ	HN	134	334	ES		7 4	6.18	-.010							1.0
MESJ	HN	134	334	IAML		7 4	7.79		1	0.1					

February 29 2020 Hour: 7:10 34.1 Lat: 36.67N Lon: 7.57W Depth: 32F Agency: IGL Regional  
Magnitudes: 1.0ML 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	HN	119	306	ES		711	4.550	.030							1.0
MORF	HE	119	306	IAML		711	5.52		4	0.1					
MESJ	HZ	142	336	EP		710	54.550	.100							1.0
MESJ	HN	142	336	ES		711	9.21	-.130							1.0
MESJ	HE	142	336	IAML		711	11.13		1	0.1					

February 29 2020 Hour: 9:28 27.0 Lat: 3.14N Lon: 128.21E Depth:142FAgency: IGL Distant  
Rms: 0.0 secs

NORTH OF HALMAHERA, INDONESIA Net: NEIC

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MESJ	BZ13654	320	EPK	pdf		947	5.56	-.020							1.0

February 29 2020 Hour: 10:45 49.5 Lat: 35.54N Lon: 9.78W 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	220	27	EP		1046	20.38	-.100							1.0
MESJ	HZ	291	28	EP		1046	29.320	.120							1.0
MESJ	HN	291	28	ES		1046	58.13	-.020							1.0
MESJ	HN	291	28	IAML		1047	0.47		3	0.1					

February 29 2020 Hour: 21:14 13.7 Lat: 36.72N Lon: 9.70W Depth: 19F Agency: IGL Regional  
Magnitudes: 1.2ML IGL Rms: 0.1 secs

WEST OF GIBRALTAR Net: IMP

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MORF	HZ	114	55	EP		2114	31.39	-.070							1.0
MORF	HE	114	55	ES		2114	44.540	.110							1.0
MORF	HN	114	55	IAML		2114	46.03		7	0.2					
MESJ	HZ	181	46	EP		2114	39.67	-.110							1.0
MESJ	HE	181	46	ES		2114	58.880	.070							1.0
MESJ	HE	181	46	IAML		2115	0.83		2	0.1					