

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

November

2014

Prepared by
The National Centre for Geophysical Research
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GENERAL BULLETIN INFORMATION

The National Centre for Geophysical Research is a governmental agency established 1975 in Lebanon by the National Council for Scientific Research (CNRS). The mission of the Centre, among other assignments, is the monitoring of seismic activity within the national territory. Currently, the national seismic network is under deployment; it has been officially registered as GRAL, an acronym for Geophysical Research Arrays of Lebanon. Station coordinates and status are given below.

Since 1993, the Centre has been participating in a regional initiative by the UNESCO and the USGS known as RELEMR, i.e. Reducing Earthquake Losses in the Eastern Mediterranean Region.

Within this framework, the Centre routinely contributes to the database set up for this purpose and maintained by the Euro-Mediterranean Seismological Centre (EMSC). For coherence, the Centre has adopted the recommended seismic analysis system SEISAN developed by Jens Havskov and Lars Ottemoller from the University of Bergen, Norway.

The localization program currently used for locating earthquakes is Hypocenter (Lienert et al., 1986). Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events.

The velocity model used for all local and regional events is the one currently adopted by the RELEMR initiative.

P-wave velocity (km/sec)	depth to top of layer (km)
6.2	0.0
6.8	14.0
8.05	34.0
8.25	50.0
8.5	80.0

Magnitudes are calculated from the coda duration. The coda wave magnitude is estimated via the formula:

$$M_c = 0.08 + 1.63 * \log_{10}(T) + 0.0009 * D.$$

where T is the coda duration (sec) and D is the epicentral distance (km). The coefficients above were adopted at the outset of our Centre in 1980 and thus are still in use for the sake of continuity.

All available coda values are used for magnitude calculations. No station corrections are used for either travel times or magnitudes calculations. The V_p/V_s velocity ratio used in both layered models above is 1.74.

As a general policy, neither depths, nor epicenters, are fixed unless stated otherwise since this might restrict later use of the data. Consequently, some event locations might be unrealistic such as zero depth earthquakes or teleseismic locations off by 1000 km. However, the locations are based on the available data and reflect the localization procedure and the models used.

STATIONS USED

The stations listed below are operated by the National Centre for Geophysical Research. They constitute the basic setup of the National Seismic Network of Lebanon.

However, readings from other cooperating agencies are also used in locating the events and thus more stations may appear in the event lists than in the station list; it is worth mentioning the systematic use of arrival times from the Cypriot seismic network CSS in order to constrain events corresponding to an active zone off the Lebanese shorelines.

STATION	LATITUDE	LONGITUDE	HEIGHT (m)	NAME	COMMENTS
BHL	3354.25N	3539.25E	1000	BHANNES	Opened May 1980
HWQ	3416.68N	3556.78E	1161	HAWQA	Opened Jan 2001
MATL	3329.32N	3519.78E	5	MATARIH	Nov2000-Sep2012
FKH	3414.69N	3624.61E	1152	FAKEHEH	Opened Dec 2004
RCY	3329.79N	3550.14E	1370	RACHAYA	Opened Jun 2006
BEYL	3352.30N	3529.59E	49	BEIRUT	Opened Jul 2006
NAQL	3307.02N	3508.46E	83	NAQOURA	Jul2008-Jan2012
DQRL	3342.34N	3534.21E	963	DEIR QAMAR	Opened Mar 2010
QRWL	3332.86N	3540.93E	875	QARAOUN	Opened Oct 2011
SHBL	3320.90N	3544.63E	1422	CHEBAA	Opened Oct 2011

REGIONAL AND DISTANT EARTHQUAKES

Because regional events and teleseisms are not localized, but simply identified, EMSC determination data are given along with phase arrivals (in general first arrival) at the stations of our network.

MACROSEISMIC DATA

Macroseismic data, if available, are included in the bulletin.

MONTHLY EPICENTER MAPS

Maps will be found on the last page.

ELECTRONIC PUBLICATION

This provisional bulletin is available for download in pdf format on:
<http://www.cnrs.edu.lb/grdownload.html>

REFERENCES

- Havskov, J. and Ottemoller, L.(2001). SEISAN: The Earthquake Analysis Software. -version 7.2-
Institute of Solid Earth Physics, University of Bergen.
<http://www.ifjf.uib.no/seismo/software/seisan.html>
- Lienert, B.R., Berg, E. and Frazer, L.N.(1986). Hypocenter: An earthquake location method using centered, scaled, and adaptively least squares. Bull. Seism. Soc. Am., 76., pp 771-783.

Abbreviations:

TIME: Origin time in UTC (hr. min. and sec.) or data file onset time if event is not located.

LAT: Latitude of epicenter

LON: Longitude of epicenter

DEPTH: Focal depth in kilometer (trailing F indicates fixed depth)

AGENCY: REL throughout the bulletin, aka. REsearch Lebanon

MAGNITUDES: Up to 3 different magnitudes can be given followed by type and reporting agency, e.g. 3.1 MC REL - coda magnitude calculated according to above mentioned formula.

EMSC: Euro-Mediterranean Seismological Centre.

OT: Origin Time

RMS: Root mean square value of travel time residuals

STAT: Station code

CO: Component; S:short period, L:long period, B:broadband.

DIST: Epicenter distance (km)

AZI: Azimuth from source to station

PHAS: Phase; The first letter characterizes onset E(mergent) or I(mpulsive)

P: Polarity (C for compression, D for dilatation)

HR: Hour

MN: Minute

SECON: Seconds

TRES: Residual (seconds)

CODA: Signal duration in seconds

AMPL: Ground Amplitude ($0.5 * (\text{peak to peak})$), (nm) at period PERI

PERI: Period where amplitude is measured

BAZ: Back azimuth (station to event)

ARES: Back azimuth residual

VELO: Apparent phase velocity (km/sec)

WT: Weight of phase in the location

*: An asterisk before the phase arrival time implies a potential timing error. If an S phase is read, differential S-P times will be used in the hypocenter location.

November 1 2014 Hour: 8:48 47.6 Lat: 35.16N Lon: 36.74E Depth: 11 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.1 secs

HOMS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	123	217	EP		849	6.69	-0.11							1.0
HWQ	SN	123	217	ES		849	21.06	0.06							1.0
BHL	BZ	172	216	EP		849	13.87	-0.05	54						1.0
BHL	BN	172	216	ES		849	33.32	-0.07							1.0
DQRL	SZ	194	214	EP		849	16.92	0.20							1.0
RCY	SZ	203	205	EP		849	17.78	-0.04							1.0
RCY	SN	203	205	ES		849	40.18	0.00							1.0

November 1 2014 Hour: 13:33 51.7

Agency: REL Regional

EMSC OT=13:33:51.7 34.88N 33.98E 35Km M=3.2 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1334	17.08								
DQRL	SZ			EP		1334	17.93								
HWQ	SZ			EP		1334	19.43								
QRWL	SZ			EP		1334	20.91								
RCY	SZ			EP		1334	23.21								
SHBL	BZ			EP		1334	23.57								

November 1 2014 Hour: 15:23 31.1 Lat: 33.79N Lon: 35.77E Depth: 13 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	319	EP		1523	34.56	-0.07	29						1.0
BHL	BE	16	319	ES		1523	37.26	0.03							1.0
DQRL	SZ	21	242	EP		1523	35.25	0.05							1.0
QRWL	SZ	28	196	EP		1523	36.18	-0.07							1.0
RCY	SZ	34	169	EP		1523	37.08	0.05							1.0
RCY	SE	34	169	ES		1523	41.40	-0.01							1.0
HWQ	SZ	56	17	EP		1523	40.41	0.01							1.0

November 1 2014 Hour: 18:57 22.2

Agency: REL Distant

EMSC OT=18:57:22.2 19.80S 177.80W 431Km M=7.1 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1916	12.02								
BHL	BZ			EP		1916	12.10								
RCY	SZ			EP		1916	13.40								
DQRL	SZ			EP		1916	13.75								
QRWL	SZ			EP		1916	13.92								

November 3 2014 Hour: 6: 7 50.7 Lat: 33.65N Lon: 35.47E Depth: 5 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	11	54	EP		6 7	52.78	-0.01	26						1.0
DQRL	SN	11	54	ES		6 7	54.30	0.00							1.0
QRWL	SZ	22	120	EP		6 7	54.47	0.00							1.0
BHL	BZ	33	30	EP		6 7	56.17	0.00							1.0
BHL	BN	33	30	ES		6 8	0.18	-0.00							1.0

November 3 2014 Hour: 20:30 50.5 Lat: 33.52N Lon: 35.65E Depth: 6 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	4	46	EP		2030	51.89	0.08							1.0
QRWL	SN	4	46	ES		2030	52.81	0.01							1.0
RCY	SZ	17	100	EP		2030	53.42	-0.12							1.0
DQRL	SZ	22	340	EP		2030	54.12	-0.03	43						1.0
DQRL	SN	22	340	ES		2030	56.80	-0.07							1.0
BHL	BZ	42	0	EP		2030	57.40	0.02							1.0

HWQ SZ 88 18 EP 2031 4.81 0.09 1.0

November 4 2014 Hour: 18:21 3.3 Agency: REL Distant

EMSC OT=18:21:03.0 28.78S 178.93W 354Km M=5.3 KERMADEC IS.REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1840	13.54								
QRWL	SZ			EP		1840	13.67								
DQRL	SZ			EP		1840	14.08								

November 5 2014 Hour: 12:28 1.0 Lat: 33.27N Lon: 35.67E Depth: 20 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	11	40	EP		1228	4.89-0.01								1.0
SHBL	BN	11	40	ES		1228	7.80 0.01								1.0
RCY	SZ	30	32	EP		1228	6.82 0.01	29							1.0
RCY	SN	30	32	ES		1228	11.09-0.01								1.0
DQRL	SZ	49	350	EP		1228	9.38-0.00								1.0

November 5 2014 Hour: 14:15 56.6 Lat: 33.99N Lon: 36.24E Depth: 31 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	42	320	EP		1416	4.81 0.01	39							1.0
HWQ	SN	42	320	ES		1416	10.86 0.00								1.0
BHL	BZ	55	261	EP		1416	6.38-0.03								1.0
RCY	SZ	66	215	EP		1416	7.93 0.01								1.0
RCY	SE	66	215	ES		1416	16.29 0.00								1.0
DQRL	SZ	70	244	EP		1416	8.40 0.05								1.0
QRWL	SZ	71	227	EP		1416	8.53-0.03								1.0

November 5 2014 Hour: 14:37 24.6 Lat: 33.81N Lon: 35.77E Depth: 26 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	313	EP		1437	29.33-0.02	27							1.0
DQRL	SZ	22	237	EP		1437	30.01 0.01								1.0
DQRL	SN	22	237	ES		1437	34.00 0.00								1.0
QRWL	SZ	31	195	EP		1437	30.90-0.02								1.0
QRWL	SN	31	195	ES		1437	35.61 0.01								1.0
HWQ	SZ	54	18	EP		1437	33.91 0.01								1.0

November 6 2014 Hour: 11:29 57.0 Lat: 33.39N Lon: 35.62E Depth: 2 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	12	111	EP		1129	59.07 0.01								1.0
QRWL	SZ	19	17	EP		1130	0.09-0.01								1.0
RCY	SZ	23	58	EP		1130	0.83 0.01	30							1.0
RCY	SN	23	58	ES		1130	3.62-0.02								1.0
DQRL	SZ	36	352	EP		1130	2.83 0.01								1.0
DQRL	SN	36	352	ES		1130	7.12 0.00								1.0

November 6 2014 Hour: 11:55 37.3 Lat: 33.78N Lon: 35.77E Depth: 5 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		1155	40.31-0.00	26							1.0
DQRL	SZ	21	245	EP		1155	40.83-0.00								1.0
DQRL	SN	21	245	ES		1155	43.42 0.00								1.0
RCY	SZ	32	170	EP		1155	42.69-0.00								1.0
RCY	SN	32	170	ES		1155	46.65-0.00								1.0
HWQ	SZ	57	16	EP		1155	46.61 0.00								1.0

November 6 2014 Hour: 15:15 40.9 Lat: 33.78N Lon: 35.79E Depth: 5 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	318	EP		1515	43.95	-0.12	41						1.0
DQRL	SZ	22	247	EP		1515	44.61	0.03							1.0
DQRL	SN	22	247	ES		1515	47.36	0.07							1.0
QRWL	SZ	28	201	EP		1515	45.40	-0.09							1.0
RCY	SZ	32	172	EP		1515	46.19	0.01							1.0
RCY	SN	32	172	ES		1515	50.09	0.01							1.0
HWQ	SZ	57	15	EP		1515	50.27	0.09							1.0

November 6 2014 Hour: 18:43 33.6

Agency: REL Distant

EMSC OT=18:43:33.6 27.13N 55.18E 10Km M=4.6 SOUTHERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		1847	42.87								
BHL	BZ			EP		1847	44.49								
DQRL	SZ			EP		1847	45.19								

November 7 2014 Hour: 0:20 47.9

Agency: REL Distant

EMSC OT=00:20:47.9 4.83N 95.06E 40Km M=5.4 NORTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		031	4.68								
HWQ	SZ			EP		031	4.88								
BHL	BZ			EP		031	5.60								
DQRL	SZ			EP		031	6.59								

November 7 2014 Hour: 14:30 46.9 Lat: 33.99N Lon: 36.17E Depth: 25 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	38	328	EP		1430	54.11	0.03	53						1.0
HWQ	SN	38	328	ES		1430	59.37	-0.01							1.0
BHL	BZ	48	258	EP		1430	55.43	-0.03							1.0
RCY	SZ	63	209	EP		1430	57.47	-0.03							1.0
RCY	SN	63	209	ES		1431	5.34	0.02							1.0
DQRL	SZ	64	240	EP		1430	57.59	0.03							1.0

November 7 2014 Hour: 14:32 18.4 Lat: 33.78N Lon: 35.78E Depth: 10 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	320	EP		1432	21.69	-0.03	27						1.0
DQRL	SZ	21	246	EP		1432	22.29	0.09							1.0
DQRL	SN	21	246	ES		1432	25.01	-0.03							1.0
QRWL	SZ	28	198	EP		1432	23.07	-0.10							1.0
QRWL	SE	28	198	ES		1432	26.78	0.05							1.0
HWQ	SZ	57	16	EP		1432	27.76	0.02							1.0

November 7 2014 Hour: 23:28 23.2 Lat: 32.58N Lon: 35.23E Depth: 10 Agency: REL Regional
Magnitudes: 3.2MC REL Rms: 0.1 secs

DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	115	21	EP		2328	41.40	0.05							1.0
QRWL	SN	115	21	ES		2328	54.70	-0.06							1.0
RCY	SZ	116	29	EP		2328	41.46	-0.08	66						1.0
RCY	SN	116	29	ES		2328	55.15	0.07							1.0
DQRL	SZ	128	14	EP		2328	43.48	0.14							1.0
DQRL	SN	128	14	ES		2328	58.23	0.01							1.0
BHL	BZ	152	15	EP		2328	46.65	-0.11							1.0
BHL	BN	152	15	ES		2329	4.17	-0.01							1.0
HWQ	SZ	199	19	EP		2328	53.06	-0.00							1.0

November 8 2014 Hour: 12:156.4 Lat: 33.54N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	298	EP		12	1	56.88	-0.01		28				1.0
RCY	SZ	13	110	EP		12	1	58.42	-0.07						1.0
RCY	SN	13	110	ES		12	2	0.05	0.04						1.0
SHBL	BZ	21	171	EP		12	1	59.86	0.02						1.0
DQRL	SZ	23	326	EP		12	2	0.12	0.02						1.0
DQRL	SN	23	326	ES		12	2	2.82	0.00						1.0

November 8 2014 Hour: 13:34 11.9 Lat: 33.46N Lon: 35.65E Depth: 0 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	10	16	EP		1334		13.39	-0.08						1.0
SHBL	BZ	15	147	EP		1334		14.36	-0.03						1.0
SHBL	BN	15	147	ES		1334		16.24	0.01						1.0
RCY	SZ	17	78	EP		1334		14.75	0.05		25				1.0
DQRL	SZ	28	344	EP		1334		16.46	0.05						1.0
DQRL	SN	28	344	ES		1334		19.74	0.00						1.0

November 8 2014 Hour: 16:9 2.8 Agency: REL Distant

EMSC OT=16:09:02.8 21.12S 178.98W 611Km M=5.3 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1627		37.24							
SHBL	BZ			EP		1627		37.73							

November 8 2014 Hour: 23:15 42.4 Agency: REL Regional

EMSC OT=23:15:42.4 38.15N 20.33E 4Km M=5.1 GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2318		44.55							
QRWL	SZ			EP		2318		46.94							
RCY	SZ			EP		2318		48.20							

November 9 2014 Hour: 10:37 53.9 Lat: 33.33N Lon: 36.33E Depth: 10 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	50	292	EP		1038		1.97	-0.11		43				1.0
RCY	SN	50	292	ES		1038		8.22	0.07						1.0
DQRL	SZ	82	301	EP		1038		7.28	0.10						1.0
BHL	BZ	89	316	EP		1038		8.22	-0.06						1.0
BHL	BE	89	316	ES		1038		18.88	-0.06						1.0
HWQ	SZ	111	341	EP		1038		11.54	0.06						1.0

November 9 2014 Hour: 14:21 27.7 Lat: 33.41N Lon: 35.66E Depth: 5 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	10	132	EP		1421		29.75	0.01						1.0
QRWL	SZ	15	8	EP		1421		30.35	-0.04						1.0
RCY	SZ	19	60	EP		1421		30.96	0.00		26				1.0
RCY	SN	19	60	ES		1421		33.37	0.01						1.0
DQRL	SZ	34	346	EP		1421		33.26	0.01						1.0
DQRL	SE	34	346	ES		1421		37.37	0.02						1.0

November 9 2014 Hour: 14:27 48.8 Lat: 33.80N Lon: 35.79E Depth: 16 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	313	EP		1427	52.75	0.01	32						1.0
DQRL	SZ	23	243	EP		1427	53.42	0.00							1.0
DQRL	SN	23	243	ES		1427	56.82	-0.00							1.0
QRWL	SZ	30	200	EP		1427	54.29	0.00							1.0
QRWL	SN	30	200	ES		1427	58.33	-0.01							1.0

November 9 2014 Hour: 16:26 2.7

Agency: REL Distant

EMSC OT=16:26:02.7 23.52S 179.79W 540Km M=5.0 FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1644	46.88								
SHBL	BZ			EP		1644	47.40								
QRWL	SZ			EP		1644	47.07								
DQRL	SZ			EP		1644	47.65								

November 9 2014 Hour: 23:24 36.3

Agency: REL Regional

EMSC OT=23:24:36.3 34.59N 26.57E 48Km M=4.5 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2326	20.57								
BHL	BZ			EP		2326	21.87								
QRWL	SZ			EP		2326	22.08								
RCY	SZ			EP		2326	23.65								

November 10 2014 Hour: 5:10 38.2 Lat: 34.23N Lon: 35.36E Depth: 12 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

OFFSHORE NORTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	46	143	EP		510	45.78	-0.03	36						1.0
HWQ	SZ	54	85	EP		510	47.19	0.00							1.0
HWQ	SN	54	85	ES		510	53.88	0.01							1.0
DQRL	SZ	62	161	EP		510	48.39	0.07							1.0
RCY	SZ	93	151	EP		510	52.88	-0.06							1.0
RCY	SN	93	151	ES		511	3.88	0.01							1.0

November 10 2014 Hour: 6:16 40.4

Agency: REL Regional

EMSC OT=06:16:40.4 37.14N 28.78E 13Km M=4.7 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		618	15.67								
DQRL	SZ			EP		618	16.10								
HWQ	SZ			EP		618	16.97								
QRWL	SZ			EP		618	18.20								
SHBL	BZ			EP		618	20.99								
RCY	SZ			EP		618	20.49								

November 10 2014 Hour: 9:20 44.0

Agency: REL Regional

EMSC OT=09:20:44.0 37.08N 28.69E 7Km M=4.4 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		922	19.62								
RCY	SZ			EP		922	23.40								

November 10 2014 Hour: 13:52 37.7

Agency: REL Distant

EMSC OT=13:52:37.7 27.90N 55.97E 10Km M=5.3 SOUTHERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1356	50.79								
SHBL	BZ			EP		1356	50.63								
HWQ	SZ			EP		1356	53.13								
BHL	BZ			EP		1356	53.66								

November 10 2014 Hour: 14:49 42.0 Lat: 33.86N Lon: 35.78E Depth: 14 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	293	EP		1449	45.17	0.03	37						1.0
BHL	BN	12	293	ES		1449	47.44	-0.02							1.0
DQRL	SZ	26	228	EP		1449	46.80	0.01							1.0
RCY	SZ	41	172	EP		1449	48.95	-0.07							1.0
RCY	SN	41	172	ES		1449	54.25	0.04							1.0
HWQ	SZ	49	19	EP		1449	50.21	0.01							1.0

November 10 2014 Hour: 15:23 10.6 Agency: REL Distant

EMSC OT=15:23:10.6 36.42S 179.93E 60Km M=5.0 OFF COAST OF N.IS.

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1542	58.07								
QRWL	SZ			EP		1542	58.12								
DQRL	SZ			EP		1542	58.24								

November 10 2014 Hour: 21:37 58.2 Agency: REL Distant

EMSC OT=21:37:58.2 30.16S 177.63W 15Km M=5.6 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		2157	45.81								
BHL	BZ			EP		2157	45.37								

November 11 2014 Hour: 4:30 16.7 Agency: REL Regional

EMSC OT=04:30:16.7 33.85N 32.12E 10Km M=3.9 EASTERN MED. SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		431	0.12								
DQRL	SZ			EP		431	0.50								
QRWL	SZ			EP		431	1.62								
RCY	SZ			EP		431	3.78								

November 11 2014 Hour: 11:33 60.0 Lat: 33.55N Lon: 35.70E Depth: 2 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	2	269	EP		1134	0.55	-0.01	40						1.0
RCY	SZ	14	115	EP		1134	2.11	-0.14							1.0
RCY	SN	14	115	ES		1134	3.98	0.06							1.0
DQRL	SZ	21	325	EP		1134	3.35	-0.12							1.0
DQRL	SN	21	325	ES		1134	6.14	0.09							1.0
SHBL	BZ	22	170	EP		1134	3.73	0.08							1.0
BHL	BZ	40	353	EP		1134	6.38	-0.04							1.0
HWQ	SZ	84	15	EP		1134	13.63	0.08							1.0

November 11 2014 Hour: 13:4 29.7 Lat: 33.79N Lon: 35.78E Depth: 5 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	320	EP		13 4	32.72	0.00	52						1.0
BHL	BN	17	320	ES		13 4	34.90	-0.02							1.0
DQRL	SZ	21	245	EP		13 4	33.28	-0.01							1.0
QRWL	SZ	28	198	EP		13 4	34.28	-0.08							1.0
QRWL	SN	28	198	ES		13 4	37.88	0.11							1.0
RCY	SZ	33	170	EP		13 4	35.12	-0.01							1.0
RCY	SN	33	170	ES		13 4	39.09	-0.03							1.0
HWQ	SZ	57	16	EP		13 4	39.02	0.05							1.0

November 12 2014 Hour: 0:34 34.3 Lat: 33.79N Lon: 35.79E Depth: 2 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	315	EP		034	37.33	0.01	40						1.0
BHL	BN	18	315	ES		034	39.55	-0.02							1.0
DQRL	SZ	23	247	EP		034	38.04	0.05							1.0
QRWL	SZ	28	202	EP		034	38.83	-0.08							1.0
RCY	SZ	32	173	EP		034	39.56	0.01							1.0
RCY	SN	32	173	ES		034	43.46	0.02							1.0
HWQ	SZ	56	14	EP		034	43.39	0.00							1.0

November 12 2014 Hour: 14: 2 3.1 Lat: 33.82N Lon: 35.73E Depth: 31 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	324	EP		14 2	8.32	-0.08	32						1.0
DQRL	SZ	19	231	EP		14 2	8.85	-0.03							1.0
DQRL	SN	19	231	ES		14 2	13.25	0.06							1.0
QRWL	SZ	30	189	EP		14 2	9.88	0.02							1.0
RCY	SZ	37	165	EP		14 2	10.65	0.01							1.0
RCY	SN	37	165	ES		14 2	16.24	-0.02							1.0
HWQ	SZ	55	21	EP		14 2	12.90	0.05							1.0

November 12 2014 Hour: 16:25 35.2 Agency: REL Regional

EMSC OT=16:25:35.2 35.93N 31.48E 10Km M=4.0 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1626	36.73								
HWQ	SZ			EP		1626	38.15								
DQRL	SZ			EP		1626	37.06								
RCY	SZ			EP		1626	41.93								
SHBL	BZ			EP		1626	42.80								

November 13 2014 Hour: 13: 0 48.4 Lat: 34.62N Lon: 36.25E Depth: 4 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.0 secs

AKKAR

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	48	216	EP		13 0	56.09	-0.06	72						1.0
BHL	BZ	97	215	EP		13 1	4.16	0.07							1.0
DQRL	SZ	120	212	EP		13 1	7.65	0.01							1.0
DQRL	SN	120	212	ES		13 1	21.85	-0.01							1.0
RCY	SZ	131	197	EP		13 1	9.28	-0.02							1.0
RCY	SN	131	197	ES		13 1	24.75	0.01							1.0

November 14 2014 Hour: 14: 0 37.7 Lat: 33.47N Lon: 35.67E Depth: 0 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	9	4	EP		14 0	39.04	-0.09							1.0
QRWL	SN	9	4	ES		14 0	40.18	-0.01							1.0
SHBL	BZ	15	154	EP		14 0	40.08	0.00							1.0
RCY	SZ	15	78	EP		14 0	40.08	-0.08	28						1.0
RCY	SN	15	78	ES		14 0	42.06	0.07							1.0
DQRL	SZ	28	340	EP		14 0	42.34	0.11							1.0

November 14 2014 Hour: 16:53 20.3 Lat: 33.79N Lon: 35.77E Depth: 12 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		1653	23.61	-0.16	37						1.0
BHL	BN	17	321	ES		1653	26.43	0.09							1.0
DQRL	SZ	20	244	EP		1653	24.24	-0.01							1.0
RCY	SZ	33	169	EP		1653	25.93	-0.12							1.0

SHBL	BZ	49	183	EP		1653	28.59	0.12											1.0
SHBL	BN	49	183	ES		1653	34.53	0.02											1.0
HWQ	SZ	57	17	EP		1653	29.80	0.06											1.0

November 15 2014 Hour: 2:31 43.1

Agency: REL Distant

EMSC OT=02:31:43.1 1.93N 126.52E 51Km M=7.1 MOLUCCA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		244	34.77								
RCY	SZ			EP		244	35.59								
BHL	BZ			EP		244	35.90								
QRWL	SZ			EP		244	35.97								

November 15 2014 Hour: 3: 8 5.4

Agency: REL Distant

EMSC OT=03:08:05.4 0.21S 124.04E 100Km M=5.8 MOLUCCA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		320	47.18								
QRWL	SZ			EP		320	47.63								
DQRL	SZ			EP		320	48.17								

November 15 2014 Hour: 11:52 40.5Lat: 33.48N Lon: 35.64E Depth: 15 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	8	26	EP		1152	43.37	-0.04							1.0
QRWL	SN	8	26	ES		1152	45.63	0.03							1.0
SHBL	BZ	17	148	EP		1152	44.44	0.08							1.0
SHBL	BN	17	148	ES		1152	47.20	-0.05							1.0
RCY	SZ	18	85	EP		1152	44.40	-0.00	35						1.0
DQRL	SZ	26	345	EP		1152	45.34	-0.02							1.0

November 15 2014 Hour: 13:57 31.1Lat: 33.92N Lon: 35.86E Depth: 15 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	19	265	EP		1357	35.21	-0.00	30						1.0
DQRL	SZ	36	229	EP		1357	37.48	0.02							1.0
DQRL	SN	36	229	ES		1357	42.15	-0.01							1.0
RCY	SZ	47	183	EP		1357	39.07	-0.02							1.0
RCY	SN	47	183	ES		1357	44.99	0.01							1.0

November 15 2014 Hour: 20:23 31.7

Agency: REL Regional

EMSC OT=20:23:31.7 36.39N 28.85E 2Km M=4.2 TURKEY BORDER REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2024	59.72								
DQRL	SZ			EP		2025	0.93								
HWQ	SZ			EP		2025	1.96								
RCY	SZ			EP		2025	4.94								

November 16 2014 Hour: 22:33 20.8

Agency: REL Distant

EMSC OT=22:33:20.8 37.69S 179.79E 20Km M=6.7 OFF COAST OF N.IS.

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2253	6.78								
RCY	SZ			EP		2253	7.01								

November 17 2014 Hour: 4:34 13.4

Agency: REL Distant

EMSC OT=04:34:13.4 20.81N 94.47E 70Km M=5.5 MYANMAR

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		443	23.79								
RCY	SZ			EP		443	24.54								
BHL	BZ			EP		443	25.72								

November 18 2014 Hour: 4:47 21.1

Agency: REL Distant

EMSC OT=04:47:21.1 1.87N 126.52E 60Km M=5.8 MOLUCCA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		5 0	11.72								
RCY	SZ			EP		5 0	12.78								
BHL	BZ			EP		5 0	12.92								

November 18 2014 Hour: 10:48 38.3Lat: 33.84N Lon: 35.78E

Depth: 23 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	14	301	EP		1048	42.62	-0.06	41						1.0
BHL	BN	14	301	ES		1048	45.93	0.02							1.0
DQRL	SZ	25	233	EP		1048	43.70	0.01							1.0
RCY	SZ	38	173	EP		1048	45.40	0.02							1.0
RCY	SN	38	173	ES		1048	50.59	-0.01							1.0
HWQ	SZ	51	17	EP		1048	47.10	0.01							1.0

November 18 2014 Hour: 16: 2 6.3

Agency: REL Distant

EMSC OT=16:02:06.3 23.50S 175.04W 7Km M=5.1 TONGA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1622	1.04								
QRWL	SZ			EP		1622	2.03								
DQRL	SZ			EP		1622	2.09								

November 18 2014 Hour: 17:14 35.5Lat: 33.82N Lon: 35.76E

Depth: 23 Agency: REL Local

Magnitudes: 2.6MC REL

Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	14	313	EP		1714	39.89	0.00	34						1.0
BHL	BE	14	313	ES		1714	43.09	-0.01							1.0
DQRL	SZ	22	235	EP		1714	40.68	0.06							1.0
QRWL	SZ	31	194	EP		1714	41.55	-0.10							1.0
RCY	SZ	36	169	EP		1714	42.41	0.04							1.0
RCY	SE	36	169	ES		1714	47.44	0.01							1.0

November 19 2014 Hour: 14:56 32.4Lat: 33.78N Lon: 35.78E

Depth: 6 Agency: REL Local

Magnitudes: 3.0MC REL

Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	321	EP		1456	35.38	-0.10	58						1.0
BHL	BN	18	321	ES		1456	37.82	0.03							1.0
DQRL	SZ	21	246	EP		1456	36.01	0.08							1.0
QRWL	SZ	27	199	EP		1456	36.85	-0.08							1.0
RCY	SZ	32	170	EP		1456	37.68	-0.01							1.0
RCY	SN	32	170	ES		1456	41.66	0.02							1.0
HWQ	SZ	57	16	EP		1456	41.74	0.04							1.0

November 19 2014 Hour: 16: 5 30.6 Lat: 33.71N Lon: 35.41E

Depth: 5 Agency: REL Local

Magnitudes: 2.4MC REL

Rms: 0.0 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	15	90	EP		16 5	33.30	0.04							1.0
DQRL	SN	15	90	ES		16 5	35.19	-0.02							1.0
QRWL	SZ	31	125	EP		16 5	35.68	-0.05	27						1.0
QRWL	SN	31	125	ES		16 5	39.51	0.01							1.0
BHL	BZ	32	46	EP		16 5	35.83	-0.01							1.0
RCY	SZ	46	120	EP		16 5	38.16	0.02							1.0

November 20 2014 Hour: 15:20 8.5 Lat: 33.47N Lon: 35.69E Depth: 0 Agency: REL Local
 Magnitudes: 2.6MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	8	356	EP		1520	9.81	-0.02							1.0
RCY	SZ	14	79	EP		1520	10.73	0.01	33						1.0
SHBL	BZ	15	159	EP		1520	10.78	-0.05							1.0
SHBL	BN	15	159	ES		1520	12.62	0.03							1.0
DQRL	SZ	28	337	EP		1520	13.04	0.04							1.0
DQRL	SN	28	337	ES		1520	16.35	-0.01							1.0

November 20 2014 Hour: 18:14 37.8 Agency: REL Distant

EMSC OT=18:14:37.8 23.57N 93.55E 45Km M=5.6 MYANMAR BORDER

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1823	35.23								
QRWL	SZ			EP		1823	37.28								
BHL	BZ			EP		1823	37.67								
DQRL	SZ			EP		1823	38.38								

November 20 2014 Hour: 23:16 51.8 Lat: 33.87N Lon: 35.52E Depth: 12 Agency: REL Local
 Magnitudes: 2.5MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	SZ	3	274	EP		2316	53.89	-0.04							1.0
BEYL	SN	3	274	ES		2316	55.49	0.02							1.0
BHL	BZ	13	73	EP		2316	54.85	0.00	28						1.0
DQRL	SZ	19	167	EP		2316	55.56	-0.01							1.0
DQRL	SE	19	167	ES		2316	58.36	0.03							1.0
QRWL	SZ	39	158	EP		2316	58.51	0.06							1.0
QRWL	SE	39	158	ES		2317	3.28	-0.05							1.0

November 21 2014 Hour: 3:29 11.8 Agency: REL Distant

EMSC OT=03:29:11.8 20.63N 120.17E 2Km M=5.8 PHILIPPINE ISLDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		340	51.04								
HWQ	BZ			EP		340	49.20								

November 21 2014 Hour: 10:10 21.7 Agency: REL Distant

EMSC OT=10:10:21.7 2.29N 127.14E 48Km M=6.6 MOLUCCA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1023	14.78								
SHBL	BZ			EP		1023	15.19								
BHL	BZ			EP		1023	15.85								

November 21 2014 Hour: 20:7 39.7 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2021	19.74								
RCY	SZ			EP		2021	20.45								
HWQ	SZ			EP		2021	21.63								

November 23 2014 Hour: 12:33 54.2 Lat: 33.53N Lon: 35.70E Depth: 0 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	314	EP		1233	54.59	-0.05							1.0
RCY	SZ	13	107	EP		1233	56.16	-0.12	47						1.0
RCY	SN	13	107	ES		1233	57.93	0.10							1.0
SHBL	BZ	21	169	EP		1233	57.42	-0.09							1.0
SHBL	BN	21	169	ES		1234	0.04	0.06							1.0
DQRL	SZ	23	328	EP		1233	58.07	0.17							1.0
DQRL	SN	23	328	ES		1234	0.64	-0.00							1.0
BHL	BZ	42	354	EP		1234	0.88	-0.03							1.0
HWQ	SZ	86	15	EP		1234	8.00	-0.04							1.0

November 24 2014 Hour: 3:39 35.8 Lat: 33.60N Lon: 36.42E Depth: 6 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	56	259	EP		339	44.92	0.00	46						1.0
RCY	SN	56	259	ES		339	51.62	-0.02							1.0
QRWL	SZ	69	266	EP		339	47.05	0.01							1.0
BHL	BZ	79	296	EP		339	48.65	-0.01							1.0
DQRL	SZ	80	279	EP		339	48.83	0.01							1.0
DQRL	SN	80	279	ES		339	58.43	0.00							1.0

November 24 2014 Hour: 14:19 22.1 Lat: 33.49N Lon: 35.66E Depth: 1 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	7	19	EP		1419	23.20	-0.06	38						1.0
QRWL	SN	7	19	ES		1419	24.16	0.01							1.0
RCY	SZ	17	87	EP		1419	24.80	0.03							1.0
RCY	SE	17	87	ES		1419	26.79	0.01							1.0
DQRL	SZ	26	341	EP		1419	26.22	0.03							1.0
DQRL	SE	26	341	ES		1419	29.29	0.04							1.0
BHL	BZ	46	360	EP		1419	29.46	-0.06							1.0

November 26 2014 Hour: 14:33 45.7 Agency: REL Distant

EMSC OT=14:33:45.7 1.95N 126.57E 46Km M=6.8 MOLUCCA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1446	38.72								
RCY	SZ			EP		1446	39.28								
QRWL	SZ			EP		1446	39.59								
BHL	BZ			EP		1446	39.99								
DQRL	SZ			EP		1446	40.14								

November 26 2014 Hour: 22:34 33.3 Lat: 33.71N Lon: 35.66E Depth: 1 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	8	267	EP		2234	34.68	0.01	42						1.0
DQRL	SN	8	267	ES		2234	35.70	-0.01							1.0
QRWL	SZ	18	173	EP		2234	36.05	-0.15							1.0
QRWL	SN	18	173	ES		2234	38.39	0.02							1.0
BHL	BZ	22	359	EP		2234	36.79	0.01							1.0
BHL	BN	22	359	ES		2234	39.41	0.03							1.0
RCY	SZ	29	145	EP		2234	37.92	0.01							1.0
RCY	SN	29	145	ES		2234	41.40	0.04							1.0
HWQ	SZ	68	23	EP		2234	44.26	-0.04							1.0

November 28 2014 Hour: 14: 4 35.8 Lat: 33.89N Lon: 35.83E Depth: 12 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	275	EP		14	4	39.26	-0.02	53					1.0
BHL	BN	16	275	ES		14	4	41.86	0.02						1.0
DQRL	SZ	32	230	EP		14	4	41.54	0.12						1.0
DQRL	SN	32	230	ES		14	4	45.48	-0.07						1.0
QRWL	SZ	41	200	EP		14	4	42.67	-0.07						1.0
RCY	SZ	44	179	EP		14	4	43.28	0.02						1.0
RCY	SN	44	179	ES		14	4	48.78	0.02						1.0
HWQ	SZ	44	14	EP		14	4	43.27	-0.02						1.0

November 29 2014 Hour: 11: 2 34.5 Lat: 33.47N Lon: 35.68E Depth: 9 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	8	1	EP		11	2	36.58	-0.04						1.0
QRWL	SN	8	1	ES		11	2	38.19	0.01						1.0
RCY	SZ	15	81	EP		11	2	37.45	0.01	37					1.0
SHBL	BZ	15	157	EP		11	2	37.52	-0.01						1.0
SHBL	BN	15	157	ES		11	2	39.78	0.01						1.0
DQRL	SZ	28	338	EP		11	2	39.29	0.02						1.0

November 30 2014 Hour: 5:57 21.5 Lat: 33.23N Lon: 35.72E Depth: 10 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	13	8	EP		557	24.41	0.03	39						1.0
SHBL	BE	13	8	ES		557	26.51	0.00							1.0
RCY	SZ	31	20	EP		557	26.94	0.03							1.0
RCY	SN	31	20	ES		557	30.90	-0.01							1.0
QRWL	SZ	35	354	EP		557	27.32	-0.18							1.0
DQRL	SZ	55	345	EP		557	30.57	0.07							1.0
DQRL	SE	55	345	ES		557	37.18	0.02							1.0
BHL	BZ	75	355	EP		557	33.79	0.04							1.0

November 30 2014 Hour: 9:56 59.4 Lat: 33.39N Lon: 35.65E Depth: 25 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.2 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	10	117	EP		957	3.94	0.03	34						1.0
SHBL	BN	10	117	ES		957	7.32	0.08							1.0
RCY	SZ	21	55	EP		957	4.56	-0.18							1.0
DQRL	SZ	36	348	EP		957	6.14	-0.23							1.0
DQRL	SN	36	348	ES		957	11.52	0.00							1.0
BHL	BZ	57	0	EP		957	9.48	0.30							1.0

November 30 2014 Hour: 10: 0 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		10	0	53.80							
DQRL	SZ			EP		10	0	57.99							

November 30 2014 Hour: 12:40 39.1 Lat: 33.45N Lon: 35.64E Depth: 3 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	11	20	EP		1240	40.96	-0.07							1.0
QRWL	SN	11	20	ES		1240	42.47	0.01							1.0
SHBL	BZ	15	141	EP		1240	41.60	-0.04							1.0
SHBL	BN	15	141	ES		1240	43.56	0.03							1.0
RCY	SZ	19	75	EP		1240	42.23	0.03	30						1.0
DQRL	SZ	29	347	EP		1240	43.86	0.07							1.0
BHL	BZ	50	1	EP		1240	47.17	-0.03							1.0

November 30 2014 Hour: 15: 5 10.1 Lat: 33.78N Lon: 35.81E Depth: 3 Agency: REL Local
Magnitudes: 2.3MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	19	313	EP		15	5	13.36	0.00	22					1.0
BHL	BN	19	313	ES		15	5	15.73	-0.01						1.0
DQRL	SZ	24	248	EP		15	5	14.04	0.01						1.0
QRWL	SZ	29	204	EP		15	5	14.85	0.01						1.0
QRWL	SN	29	204	ES		15	5	18.32	-0.00						1.0

November 30 2014 Hour: 15:24 55.3 Lat: 33.78N Lon: 35.79E Depth: 3 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	318	EP		1524	58.31	-0.00	25						1.0
DQRL	SZ	22	247	EP		1524	58.89	-0.00							1.0
DQRL	SN	22	247	ES		1525	1.55	0.00							1.0
QRWL	SZ	28	200	EP		1524	59.86	0.00							1.0
QRWL	SN	28	200	ES		1525	3.22	-0.01							1.0
HWQ	SZ	57	15	EP		1525	4.51	0.02							1.0

November 30 2014 Hour: 16:31 18.1 Lat: 33.79N Lon: 35.78E Depth: 11 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	317	EP		1631	21.46	-0.03	52						1.0
DQRL	SZ	22	244	EP		1631	22.07	-0.04							1.0
DQRL	SN	22	244	ES		1631	25.12	0.04							1.0
BEYL	SZ	28	289	EP		1631	22.98	0.01							1.0
QRWL	SZ	29	198	EP		1631	23.06	-0.05							1.0
RCY	SZ	33	171	EP		1631	23.91	0.08							1.0
RCY	SN	33	171	ES		1631	28.04	-0.03							1.0
HWQ	SZ	56	16	EP		1631	27.38	0.01							1.0

November 30 2014 Hour: 16:32 10.1 Lat: 33.82N Lon: 35.71E Depth: 27 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	11	330	EP		1632	14.78	-0.02	27						1.0
DQRL	SZ	18	226	EP		1632	15.45	0.13							1.0
DQRL	SN	18	226	ES		1632	19.18	-0.03							1.0
QRWL	SZ	30	185	EP		1632	16.30	-0.20							1.0
QRWL	SN	30	185	ES		1632	21.31	0.05							1.0
RCY	SZ	38	162	EP		1632	17.52	0.10							1.0
RCY	SN	38	162	ES		1632	22.83	-0.02							1.0

Epicentral Map of Lebanon

NOVEMBER 2014

