

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

February

2012

Prepared by
The National Centre for Geophysical Research
Bhannes

*P.o.b. : 165432
Ashrafyeh Beirut 1100-2040*

*Tel : +9614-981885
Fax : +9614-981886
Email : geophys@cnrs.edu.lb*

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	Opened Nov 2000
FKH	3414.69N	3624.61E	1152	FAKEHEH	Opened Dec 2004
RCY	3329.79N	3550.14E	1370	RACHAYA	Opened Jun 2006
DWR	3323.13N	3524.08E	420	DWEIR	Scheduled 2003
BEYL	3352.30N	3529.59E	49	BEIRUT	Opened Jul 2006
NAQL	3307.02N	3508.46E	83	NAQOURA	Opened Jul 2008
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.

February 2 2012 Hour: 13:34 39.0

Agency: REL Distant

EMSC OT=13:34:39.0 17.71S 167.19E 10Km M=7.1 VANUATU

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	BZ			EP		1353	56.03								
BHL	BZ			EP		1353	56.21								
RCY	SZ			EP		1353	56.31								

February 2 2012 Hour: 14:14 55.3

Lat: 33.32N

Lon: 35.59E

Depth: 0

Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	27	20	EP		1414	59.51-0.03								1.0
QRWL	SN	27	20	ES		1415	2.69-0.02								1.0
AZOL	BZ	27	350	EP		1414	59.60-0.01								1.0
RCY	SZ	30	50	EP		1415	0.11-0.02	42							1.0
RCY	SN	30	50	ES		1415	3.77 0.03								1.0
DQRL	SZ	43	358	EP		1415	2.17 0.05								1.0
SAWL	BZ	49	36	EP		1415	3.17-0.00								1.0

February 2 2012 Hour: 19: 2 54.0

Agency: REL Regional

EMSC OT=19:02:54.0 36.57N 26.82E 10Km M=3.7 GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		19 4	39.44								
DQRL	SZ			EP		19 4	40.37								
HWQ	SZ			EP		19 4	42.09								
RCY	SZ			EP		19 4	44.87								
SHBL	BZ			EP		19 4	45.17								

February 4 2012 Hour: 7:40 13.0

Agency: REL Distant

EMSC OT=07:40:13.0 20.52S 174.00W 10Km M=5.8 TONGA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		8 0	4.79								
RCY	SZ			EP		8 0	5.89								
BHL	BZ			EP		8 0	5.89								
SHBL	BZ			EP		8 0	6.66								

February 4 2012 Hour: 13: 9 23.0

Agency: REL Distant

EMSC OT=13:09:23.0 12.04N 125.81E 10Km M=5.7 PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1321	51.87								
SHBL	BZ			EP		1321	52.26								

February 4 2012 Hour: 14:23 18.1

Lat: 33.38N

Lon: 35.59E

Depth: 5

Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	14	102	EP		1423	20.63-0.02								1.0
SHBL	BN	14	102	ES		1423	22.59 0.04								1.0
QRWL	SZ	21	23	EP		1423	21.62 0.01								1.0
QRWL	SN	21	23	ES		1423	24.25 0.04								1.0
AZOL	BZ	21	346	EP		1423	21.70 0.01								1.0
RCY	SZ	26	59	EP		1423	22.38-0.08	49							1.0
RCY	SN	26	59	ES		1423	25.65-0.05								1.0
DQRL	SZ	37	357	EP		1423	24.03-0.08								1.0
DQRL	SN	37	357	ES		1423	28.53-0.03								1.0
SAWL	BZ	44	40	EP		1423	25.33 0.06								1.0
BHL	BZ	59	5	EP		1423	27.71 0.05								1.0
TZHL	BZ	60	27	EP		1423	27.87 0.05								1.0
HWQ	SZ	105	18	EP		1423	35.11-0.00								1.0

February 4 2012 Hour: 18:016.5 Lat: 33.78N Lon: 34.56E Depth: 10 Agency: REL Local
Magnitudes: 3.5MC REL Rms: 0.2 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	94	104	EP		18 0	31.65	0.08							1.0
DQRL	SZ	94	94	EP		18 0	31.50	-0.11	110						1.0
DQRL	SN	94	94	ES		18 0	42.78	0.01							1.0
BHL	BZ	103	82	EP		18 0	32.50	-0.34							1.0
BHL	BN	103	82	ES		18 0	45.06	0.15							1.0
QRWL	SZ	107	103	EP		18 0	33.58	0.03							1.0
QRWL	SN	107	103	ES		18 0	46.13	-0.00							1.0
SHBL	BZ	120	113	EP		18 0	35.24	-0.19							1.0
SHBL	BN	120	113	ES		18 0	49.34	-0.08							1.0
RCY	SZ	123	104	EP		18 0	36.07	0.25							1.0
RCY	SN	123	104	ES		18 0	49.99	-0.09							1.0
TZHL	BZ	123	85	EP		18 0	36.01	0.11							1.0
SAWL	BZ	125	95	EP		18 0	36.20	0.06							1.0
HWQ	SZ	140	66	EP		18 0	38.32	-0.02							1.0

February 5 2012 Hour: 23:50 42.0 Agency: REL Distant

EMSC OT=23:50:42.0 20.45S 177.97W 542Km M=5.1 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		24 9	26.15								
RCY	SZ			EP		24 9	26.38								
DQRL	SZ			EP		24 9	26.99								

February 6 2012 Hour: 3:49 17.0 Agency: REL Distant

EMSC OT=03:49:17.0 10.06N 123.27E 40Km M=6.7 PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		4 1	34.12								
BHL	BZ			EP		4 1	36.51								
SHBL	BZ			EP		4 1	36.92								

February 6 2012 Hour: 12:50 57.3 Lat: 33.45N Lon: 35.62E 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	13	29	EP		1250	59.30	-0.09	25						1.0
QRWL	SN	13	29	ES		1251	0.96	0.03							1.0
AZOL	BZ	15	331	EP		1250	59.69	0.01							1.0
SHBL	BZ	16	132	EP		1250	59.97	0.03							1.0
SHBL	BN	16	132	ES		1251	1.87	-0.01							1.0
DQRL	SZ	29	352	EP		1251	2.02	0.02							1.0
SAWL	BZ	37	46	EP		1251	3.29	0.02							1.0

February 6 2012 Hour: 15:52 59.6 Lat: 34.04N Lon: 36.11E Depth: 0 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	29	225	EP		1553	4.26	-0.04							1.0
HWQ	SZ	30	331	EP		1553	4.51	-0.00							1.0
HWQ	SN	30	331	ES		1553	8.13	0.01							1.0
BHL	BZ	45	250	EP		1553	6.85	0.03	63						1.0
SAWL	BZ	45	206	EP		1553	6.78	-0.05							1.0
DQRL	SZ	62	233	EP		1553	9.65	-0.00							1.0
RCY	SZ	65	203	EP		1553	10.19	-0.00							1.0
RCY	SN	65	203	ES		1553	18.02	0.02							1.0
QRWL	SZ	67	216	EP		1553	10.49	-0.02							1.0
QRWL	SN	67	216	ES		1553	18.52	-0.03							1.0
AZOL	BZ	75	225	EP		1553	11.79	0.07							1.0
SHBL	BZ	84	204	EP		1553	13.22	0.05							1.0
SHBL	BN	84	204	ES		1553	23.16	-0.02							1.0

February 8 2012 Hour: 15:24 43.9 Lat: 33.32N Lon: 35.60E Depth: 4 Agency: REL Local
Magnitudes: 2.6MC 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	27	17	EP		1524	48.22	-0.07							1.0
QRWL	SN	27	17	ES		1524	51.55	0.02							1.0
AZOL	BZ	28	348	EP		1524	48.43	-0.01							1.0
RCY	SZ	30	48	EP		1524	48.75	-0.05	35						1.0
RCY	SN	30	48	ES		1524	52.46	0.05							1.0
DQRL	SZ	43	357	EP		1524	50.96	0.05							1.0
SAWL	BZ	49	35	EP		1524	51.91	0.07							1.0
SAWL	BN	49	35	ES		1524	57.64	-0.06							1.0

February 9 2012 Hour: 11:12 1.3 Lat: 33.06N Lon: 35.67E Depth: 0 Agency: REL Local
Magnitudes: 3.4MC 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	33	13	EP		1112	6.62	0.01							1.0
SHBL	BN	33	13	ES		1112	10.53	0.02							1.0
RCY	SZ	51	18	EP		1112	9.51	-0.02	97						1.0
RCY	SN	51	18	ES		1112	15.59	-0.01							1.0
DQRL	SZ	72	353	EP		1112	12.92	-0.03							1.0
DQRL	SN	72	353	ES		1112	21.61	0.06							1.0
BHL	BZ	94	359	EP		1112	16.40	-0.02							1.0
BHL	BN	94	359	ES		1112	27.51	-0.07							1.0
HWQ	SZ	137	11	EP		1112	23.54	0.06							1.0

February 9 2012 Hour: 17:12 9.1 Lat: 33.61N Lon: 34.78E Depth: 27 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.1 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	71	94	EP		1712	20.70	-0.09							1.0
DQRL	SZ	74	82	EP		1712	21.42	0.13							1.0
QRWL	SZ	84	95	EP		1712	22.71	-0.00							1.0
QRWL	SN	84	95	ES		1712	32.79	-0.01							1.0
BHL	BZ	88	68	EP		1712	23.23	0.06							1.0
BHL	BN	88	68	ES		1712	33.58	-0.03							1.0
RCY	SZ	99	97	EP		1712	24.85	-0.02	51						1.0
RCY	SN	99	97	ES		1712	36.61	0.04							1.0
SAWL	BZ	104	86	EP		1712	25.64	0.03							1.0
TZHL	BZ	106	75	EP		1712	25.79	-0.09							1.0
HWQ	SZ	131	55	EP		1712	28.98	0.00							1.0

February 9 2012 Hour: 19: 4 53.0 Agency: REL Regional

EMSC OT=19:04:53.0 35.72N 32.40E 30Km M=3.6 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		19 5	45.95								
HWQ	SZ			EP		19 5	42.18								

February 10 2012 Hour: 1:47 33.0 Agency: REL Distant

EMSC OT=01:47:33.0 17.94S 178.52W 570Km M=6.0 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2 6	7.72								
BHL	BZ			EP		2 6	8.94								
RCY	SZ			EP		2 6	9.11								
DQRL	SZ			EP		2 6	9.61								
SHBL	BZ			EP		2 6	9.66								

February 10 2012 Hour: 12: 5 51.0

Agency: REL Regional

EMSC OT=12:05:51.0 32.07N 31.67E 40Km M=3.9 EAST MED SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		12 6	44.49								
DQRL	SZ			EP		12 6	44.73								
QRWL	SZ			EP		12 6	44.69								
RCY	SZ			EP		12 6	46.04								
HWQ	SZ			EP		12 6	51.59								

February 10 2012 Hour: 22:58 48.4 Lat: 33.60N Lon: 35.40E Depth: 21 Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	14	109	EP		2258	52.53	0.02							1.0
DQRL	SZ	20	55	EP		2258	53.09	0.00							1.0
DQRL	SN	20	55	ES		2258	56.54	0.00							1.0
QRWL	SZ	27	103	EP		2258	53.85	-0.07	44						1.0
QRWL	SN	27	103	ES		2258	57.99	0.01							1.0
BHL	BZ	41	35	EP		2258	55.74	0.02							1.0
BHL	BN	41	35	ES		2259	1.10	-0.02							1.0
RCY	SZ	42	106	EP		2258	55.94	0.00							1.0
RCY	SN	42	106	ES		2259	1.51	0.01							1.0
SAWL	BZ	47	80	EP		2258	56.62	0.02							1.0
TZHL	BZ	53	58	EP		2258	57.40	-0.04							1.0
HWQ	SZ	91	34	EP		2259	2.84	0.03							1.0

February 11 2012 Hour: 12:35 25.3 Lat: 33.36N Lon: 35.60E Depth: 9 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	14	96	EP		1235	28.20	0.00							1.0
SHBL	BN	14	96	ES		1235	30.33	0.02							1.0
QRWL	SZ	22	21	EP		1235	29.24	-0.07							1.0
QRWL	SN	22	21	ES		1235	32.24	0.00							1.0
AZOL	BZ	23	346	EP		1235	29.43	0.01							1.0
RCY	SZ	27	56	EP		1235	30.00	-0.02	39						1.0
RCY	SN	27	56	ES		1235	33.46	-0.02							1.0
DQRL	SZ	38	356	EP		1235	31.79	0.03							1.0
SAWL	BZ	45	39	EP		1235	32.83	0.02							1.0
SAWL	BN	45	39	ES		1235	38.35	0.02							1.0

February 11 2012 Hour: 13:28 12.3 Lat: 33.46N Lon: 35.65E Depth: 0 Agency: REL Local

Magnitudes: 2.6MC 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	11	18	EP		1328	13.99	-0.04							1.0
QRWL	SN	11	18	ES		1328	15.26	-0.04							1.0
SHBL	BZ	15	143	EP		1328	14.72	-0.03							1.0
SHBL	BN	15	143	ES		1328	16.58	0.03							1.0
AZOL	BZ	16	319	EP		1328	14.86	0.03							1.0
RCY	SZ	18	76	EP		1328	15.24	0.00	34						1.0
RCY	SN	18	76	ES		1328	17.39	-0.00							1.0
DQRL	SZ	29	345	EP		1328	16.96	0.03							1.0
SAWL	BZ	34	44	EP		1328	17.75	-0.05							1.0
SAWL	BN	34	44	ES		1328	21.91	0.06							1.0

February 12 2012 Hour: 4:49 9.0

Agency: REL Regional

EMSC OT=04:49:09.0 37.48N 38.67E 25Km M=4.1 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		450	11.32								
BHL	BZ			EP		450	17.84								
DQRL	SZ			EP		450	21.88								
RCY	SZ			EP		450	22.89								

SHBL BZ EP 450 24.76

February 14 2012 Hour: 11:27 6.9 Lat: 33.34N Lon: 35.58E Depth: 10 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
SHBL	BZ	16	88	EP		1127	10.10	0.04							1.0
AZOL	BZ	25	351	EP		1127	11.28	0.02							1.0
QRWL	SZ	25	23	EP		1127	11.28-0.01								1.0
QRWL	SN	25	23	ES		1127	14.51-0.02								1.0
RCY	SZ	29	55	EP		1127	11.95-0.08		36						1.0
RCY	SN	29	55	ES		1127	15.80-0.01								1.0
DQRL	SZ	40	359	EP		1127	13.67	0.01							0.2
SAWL	BZ	48	39	EP		1127	14.85	0.02							1.0
SAWL	BN	48	39	ES		1127	20.74	0.05							1.0

February 15 2012 Hour: 2:34 10.0 Agency: REL Regional

EMSC OT=02:34:10.0 36.19N 28.68E 40Km M=4.5 DODECANESE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		235	35.89								
DQRL	SZ			EP		235	36.45								
HWQ	SZ			EP		235	38.71								
QRWL	SZ			EP		235	39.69								
RCY	SZ			EP		235	41.23								
SHBL	BZ			EP		235	41.42								

February 15 2012 Hour: 8:7 33.2 Lat: 33.45N Lon: 35.62E Depth: 1 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	27	EP		8 7	35.23-0.01								1.0
QRWL	SN	12	27	ES		8 7	36.71-0.01								1.0
AZOL	BZ	15	328	EP		8 7	35.63	0.01							1.0
SHBL	BZ	16	135	EP		8 7	35.85	0.00							1.0
SHBL	BN	16	135	ES		8 7	37.78-0.00								1.0
RCY	SZ	21	75	EP		8 7	36.58-0.00		32						1.0
RCY	SN	21	75	ES		8 7	39.06	0.01							1.0

February 15 2012 Hour: 8:26 24.1 Lat: 33.36N Lon: 35.59E Depth: 6 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
SHBL	BZ	14	93	EP		826	26.65	0.00							1.0
QRWL	SZ	23	21	EP		826	28.00	0.07							1.0
QRWL	SN	23	21	ES		826	30.78	0.00							1.0
AZOL	BZ	23	347	EP		826	27.98-0.04								1.0
RCY	SZ	27	55	EP		826	28.60-0.05		34						1.0
RCY	SN	27	55	ES		826	32.05	0.01							1.0
SAWL	BZ	46	38	EP		826	31.57	0.04							1.0
SAWL	BN	46	38	ES		826	37.02-0.03								1.0

February 15 2012 Hour: 11:48 49.1 Lat: 33.46N Lon: 35.63E Depth: 9 Agency: REL Local
Magnitudes: 2.3MC REL Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	11	24	EP		1148	51.48-0.03								1.0
QRWL	SN	11	24	ES		1148	53.35	0.02							1.0
AZOL	BZ	15	322	EP		1148	51.96-0.00								1.0
SHBL	BZ	16	140	EP		1148	52.17-0.04								1.0
SHBL	BN	16	140	ES		1148	54.56	0.02							1.0
RCY	SZ	19	77	EP		1148	52.71	0.07	24						1.0
RCY	SN	19	77	ES		1148	55.25-0.04								1.0
SAWL	BZ	35	45	EP		1148	54.91	0.00							1.0

February 15 2012 Hour: 15:40 38.9 Lat: 32.87N Lon: 35.72E Depth: 1 Agency: REL Local
Magnitudes: 2.8MC 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	54	2	EP		1540	47.51	-0.02							1.0
SHBL	BN	54	2	ES		1540	53.92	-0.01							1.0
RCY	SZ	71	8	EP		1540	50.29	-0.01	40						1.0
RCY	SN	71	8	ES		1540	58.75	0.01							1.0
AZOL	BZ	79	347	EP		1540	51.68	0.03							1.0
SAWL	BZ	92	10	EP		1540	53.68	0.02							1.0
DQRL	SZ	94	351	EP		1540	54.06	-0.03							1.0
DQRL	SN	94	351	ES		1541	5.35	0.01							1.0
HWQ	SZ	158	7	EP		1541	3.97	-0.00							1.0

February 16 2012 Hour: 2:16 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		216	35.81								
RCY	SZ			EP		216	37.24								

February 16 2012 Hour: 11:1 3.0 Agency: REL Regional

EMSC OT=11:01:03.0 38.65N 37.46E 3Km M=4.6 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		11 2	14.73								
BHL	BZ			EP		11 2	18.51								
DQRL	SZ			EP		11 2	23.22								
RCY	SZ			EP		11 2	26.29								

February 16 2012 Hour: 15:20 6.2 Lat: 33.86N Lon: 35.81E Depth: 7 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	15	290	EP		1520	8.99	-0.04	34						1.0
BHL	BN	15	290	ES		1520	11.10	-0.01							1.0
DQRL	SZ	28	233	EP		1520	10.86	-0.06							1.0
DQRL	SN	28	233	ES		1520	14.47	0.08							1.0
RCY	SZ	40	177	EP		1520	12.84	-0.01							1.0
HWQ	SZ	48	15	EP		1520	14.18	0.05							1.0

February 16 2012 Hour: 20:59 23.8 Lat: 33.72N Lon: 35.56E Depth: 5 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
DQRL	SZ	2	144	EP		2059	24.73	-0.06	31						1.0
DQRL	SN	2	144	ES		2059	25.57	0.03							1.0
BEYL	BZ	18	340	EP		2059	26.83	0.01							1.0
QRWL	SZ	22	149	EP		2059	27.48	0.02							1.0
QRWL	SN	22	149	ES		2059	30.18	-0.00							1.0
BHL	BZ	22	23	EP		2059	27.53	0.01							1.0
HWQ	SZ	72	30	EP		2059	35.37	-0.01							1.0

February 18 2012 Hour: 12:43 2.2 Lat: 33.87N Lon: 35.94E Depth: 6 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	5	251	EP		1243	3.75	0.00							1.0
SAWL	BZ	22	190	EP		1243	6.02	0.02							1.0
SAWL	BN	22	190	ES		1243	8.72	-0.05							1.0
BHL	BZ	27	277	EP		1243	6.67	-0.04	38						1.0
BHL	BN	27	277	ES		1243	10.05	0.03							1.0
DQRL	SZ	39	242	EP		1243	8.67	0.02							1.0
RCY	SZ	43	193	EP		1243	9.30	0.01							1.0
RCY	SN	43	193	ES		1243	14.56	0.06							1.0
QRWL	SZ	43	214	EP		1243	9.32	-0.02							1.0

QRWL	SN	43	214	ES		1243	14.59	0.00									1.0
HWQ	SZ	45	1	EP		1243	9.60	0.01									1.0
AZOL	BZ	51	227	EP		1243	10.48	-0.06									1.0

February 19 2012 Hour: 9:49 17.6 Lat: 33.76N Lon: 35.63E Depth: 4 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	8	224	EP		949	19.18	0.03	45						1.0
DQRL	SN	8	224	ES		949	20.29	0.00							1.0
BHL	BZ	16	8	EP		949	20.33	-0.05							1.0
QRWL	SZ	24	168	EP		949	21.49	-0.05							1.0
RCY	SZ	35	147	EP		949	23.31	0.03							1.0
RCY	SN	35	147	ES		949	27.48	0.00							1.0
HWQ	SZ	65	27	EP		949	28.12	0.04							1.0

February 19 2012 Hour: 14:50 8.2 Lat: 33.85N Lon: 35.89E Depth: 5 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	1	353	EP		1450	9.15	-0.09							1.0
TZHL	BN	1	353	ES		1450	10.08	0.05							1.0
SAWL	BZ	19	176	EP		1450	11.37	-0.02							1.0
SAWL	BN	19	176	ES		1450	13.80	0.03							1.0
BHL	BZ	22	286	EP		1450	11.88	-0.05							1.0
DQRL	SZ	33	242	EP		1450	13.65	0.01							1.0
QRWL	SZ	38	210	EP		1450	14.50	0.06							1.0
RCY	SZ	39	187	EP		1450	14.58	-0.02	47						1.0
RCY	SN	39	187	ES		1450	19.33	-0.03							1.0
AZOL	BZ	45	226	EP		1450	15.59	0.03							1.0
HWQ	SZ	48	7	EP		1450	16.03	0.04							1.0

February 20 2012 Hour: 14:47 3.0 Lat: 33.33N Lon: 35.58E 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	26	21	EP		1447	7.17	-0.00							1.0
QRWL	SN	26	21	ES		1447	10.23	-0.00							1.0
AZOL	BZ	26	350	EP		1447	7.20	-0.01							1.0
RCY	SZ	30	52	EP		1447	7.84	-0.00	38						1.0
RCY	SN	30	52	ES		1447	11.39	-0.01							1.0
DQRL	SZ	41	358	EP		1447	9.73	0.01							1.0
SAWL	BZ	48	37	EP		1447	10.86	0.02							1.0
SAWL	BN	48	37	ES		1447	16.60	-0.01							1.0

February 23 2012 Hour: 10:42 0.1 Lat: 33.35N Lon: 35.58E Depth: 9 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
SHBL	BZ	15	93	EP		1042	3.09	-0.00							1.0
SHBL	BN	15	93	ES		1042	5.35	0.02							1.0
AZOL	BZ	23	350	EP		1042	4.12	-0.04							1.0
QRWL	SZ	23	24	EP		1042	4.12	-0.07	33						1.0
QRWL	SN	23	24	ES		1042	7.21	-0.03							1.0
DQRL	SZ	39	359	EP		1042	6.60	0.04							1.0
DQRL	SN	39	359	ES		1042	11.41	0.05							1.0
SAWL	BZ	47	40	EP		1042	7.80	0.03							1.0
SAWL	BN	47	40	ES		1042	13.46	-0.01							1.0
HWQ	BZ	108	18	EP		1042	17.25	-0.00							1.0

February 23 2012 Hour: 22: 2 9.6 Lat: 33.78N Lon: 35.79E Depth: 12 Agency: REL Local
 Magnitudes: 2.2MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	12	46	EP		22	2	12.59	0.02						1.0
SAWL	BZ	15	139	EP		22	2	12.91	-0.05						1.0
SAWL	BN	15	139	ES		22	2	15.43	-0.00						1.0
BHL	BZ	18	316	EP		22	2	13.30	-0.03	20					1.0
BHL	BN	18	316	ES		22	2	16.09	0.01						1.0
DQRL	SZ	22	247	EP		22	2	13.95	0.11						1.0
DQRL	SN	22	247	ES		22	2	16.95	-0.02						1.0
QRWL	SZ	28	201	EP		22	2	14.59	-0.06						1.0
RCY	SZ	32	173	EP		22	2	15.30	0.02						1.0
RCY	SN	32	173	ES		22	2	19.49	0.02						1.0
AZOL	BZ	34	224	EP		22	2	15.46	-0.07						1.0
SHBL	BZ	49	185	EP		22	2	17.81	0.04						1.0

February 23 2012 Hour: 22: 2 21.0 Lat: 33.79N Lon: 35.80E Depth: 14 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
TZHL	BZ	11	46	EP		22	2	24.14	0.06						1.0
SAWL	BZ	15	142	EP		22	2	24.46	-0.05						1.0
BHL	BZ	19	314	EP		22	2	24.87	-0.01	33					1.0
BHL	BN	19	314	ES		22	2	27.73	0.00						1.0
DQRL	SZ	23	247	EP		22	2	25.50	0.05						1.0
DQRL	SN	23	247	ES		22	2	28.72	-0.00						1.0
QRWL	SZ	29	202	EP		22	2	26.18	-0.06						1.0
QRWL	SN	29	202	ES		22	2	30.13	0.03						1.0
RCY	SZ	33	174	EP		22	2	26.77	-0.06						1.0
RCY	SN	33	174	ES		22	2	31.09	-0.03						1.0
AZOL	BZ	35	224	EP		22	2	27.03	-0.09						1.0
SHBL	BZ	49	186	EP		22	2	29.37	0.12						1.0
SHBL	BN	49	186	ES		22	2	35.39	0.05						1.0
HWQ	BZ	56	14	EP		22	2	30.27	-0.01						1.0

February 24 2012 Hour: 2:40 57.0 Agency: REL Distant
 EMSC OT=02:40:57.0 26.00S 177.57W 189Km M=4.9 FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		3	0	26.64							
QRWL	SZ			EP		3	0	26.93							
DQRL	SZ			EP		3	0	27.32							
HWQ	BZ			EP		3	0	27.46							

February 24 2012 Hour: 12:45 7.0 Lat: 33.46N Lon: 35.63E Depth: 0 Agency: REL Local
 Magnitudes: 2.6MC 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	11	25	EP		1245		8.80	-0.05						1.0
QRWL	SN	11	25	ES		1245		10.19	-0.02						1.0
AZOL	BZ	15	324	EP		1245		9.34	-0.03						1.0
SHBL	BZ	16	138	EP		1245		9.58	-0.00						1.0
SHBL	BN	16	138	ES		1245		11.49	0.00						1.0
RCY	SZ	20	76	EP		1245		10.17	-0.02	34					1.0
RCY	SN	20	76	ES		1245		12.56	0.02						1.0
DQRL	SZ	28	349	EP		1245		11.66	0.07						1.0
DQRL	SN	28	349	ES		1245		14.97	0.00						1.0
SAWL	BZ	35	45	EP		1245		12.73	0.04						1.0

February 24 2012 Hour: 17:13 3.0 Lat: 33.86N Lon: 35.85E Depth: 0 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	3	102	EP		1713	3.45	-0.04							1.0
TZHL	BN	3	102	ES		1713	3.88	-0.00							1.0
BHL	BZ	19	284	EP		1713	5.91	-0.09	44						1.0
BHL	BN	19	284	ES		1713	8.21	-0.04							1.0
SAWL	BZ	21	168	EP		1713	6.32	-0.03							1.0
DQRL	SZ	31	236	EP		1713	8.03	0.00							1.0
DQRL	SN	31	236	ES		1713	11.85	0.07							1.0
QRWL	SZ	38	204	EP		1713	9.19	0.04							1.0
QRWL	SN	38	204	ES		1713	13.71	-0.03							1.0
RCY	SZ	41	182	EP		1713	9.55	0.02							1.0
AZOL	BZ	44	221	EP		1713	10.17	0.05							1.0
HWQ	SZ	47	11	EP		1713	10.58	0.08							1.0
SHBL	BZ	58	190	EP		1713	12.30	-0.02							1.0

February 24 2012 Hour: 23:52 14.4 Lat: 33.86N Lon: 35.83E Depth: 0 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
TZHL	BZ	5	87	EP		2352	15.33	0.01							1.0
BHL	BZ	17	288	EP		2352	17.11	-0.07	29						1.0
BHL	BN	17	288	ES		2352	19.23	0.03							1.0
SAWL	BZ	21	161	EP		2352	17.75	-0.05							1.0
DQRL	SZ	29	235	EP		2352	19.17	0.03							1.0
DQRL	SN	29	235	ES		2352	22.59	-0.03							1.0
QRWL	SZ	37	202	EP		2352	20.46	0.09							1.0
QRWL	SN	37	202	ES		2352	24.79	0.03							1.0
RCY	SZ	40	179	EP		2352	20.88	0.00							1.0
RCY	SN	40	179	ES		2352	25.61	-0.03							1.0
AZOL	BZ	42	220	EP		2352	21.23	-0.03							1.0
HWQ	BZ	48	13	EP		2352	22.21	0.01							1.0
SHBL	BZ	57	188	EP		2352	23.61	-0.00							1.0

February 25 2012 Hour: 11:59 42.2 Lat: 33.29N Lon: 35.56E Depth: 10 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	18	69	EP		1159	45.77	0.04							1.0
SHBL	BN	18	69	ES		1159	48.29	-0.03							1.0
AZOL	BZ	30	355	EP		1159	47.41	-0.03							1.0
RCY	SZ	34	48	EP		1159	47.97	-0.09	29						1.0
RCY	SN	34	48	ES		1159	52.42	0.04							1.0
DQRL	SZ	46	1	EP		1159	49.94	0.06							1.0
DQRL	SN	46	1	ES		1159	55.52	-0.03							1.0
SAWL	BZ	53	36	EP		1159	51.02	0.02							1.0
TZHL	BZ	70	25	EP		1159	53.66	0.05							1.0
HWQ	BZ	115	18	EP		12 0	0.33	-0.03							1.0

February 25 2012 Hour: 12:57 2.1 Lat: 33.46N Lon: 35.63E Depth: 4 Agency: REL Local
 Magnitudes: 2.5MC 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	11	25	EP		1257	4.04	-0.05							1.0
QRWL	SN	11	25	ES		1257	5.59	0.02							1.0
AZOL	BZ	15	323	EP		1257	4.61	0.01							1.0
SHBL	BZ	16	139	EP		1257	4.82	-0.01							1.0
SHBL	BN	16	139	ES		1257	6.87	0.02							1.0
RCY	SZ	20	77	EP		1257	5.39	0.01	31						1.0
RCY	SN	20	77	ES		1257	7.79	-0.02							1.0
SAWL	BZ	35	45	EP		1257	7.85	0.03							1.0

February 26 2012 Hour: 6:17 19.0

Agency: REL Distant

EMSC OT=06:17:19.0 51.72N 95.99E 10Km M=6.6 SIBERIA, RUSSIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		625	42.43								
BHL	BZ			EP		625	45.68								
BEYL	BZ			EP		625	46.33								
RCY	SZ			EP		625	47.42								
SHBL	BZ			EP		625	48.61								

February 26 2012 Hour: 9:22 5.1

Lat: 33.67N Lon: 35.83E Depth: 4 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SAWL	BZ	7	85	EP		922	6.47	0.01							1.0
QRWL	SZ	19	224	EP		922	8.30	-0.00							1.0
RCY	SZ	20	178	EP		922	8.30	-0.06	37						1.0
RCY	SN	20	178	ES		922	10.80	-0.00							1.0
TZHL	BZ	21	15	EP		922	8.55	-0.04							1.0
DQRL	SZ	24	279	EP		922	9.08	0.03							1.0
AZOL	BZ	30	245	EP		922	9.90	-0.01							1.0
BHL	BZ	30	328	EP		922	9.96	-0.05							1.0
SHBL	BZ	37	192	EP		922	11.01	-0.07							1.0
SHBL	BN	37	192	ES		922	15.63	0.10							1.0
HWQ	BZ	68	9	EP		922	16.11	0.05							1.0
HWQ	BN	68	9	ES		922	24.24	0.04							1.0

February 26 2012 Hour: 12:21 49.2

Lat: 33.45N Lon: 35.63E Depth: 4 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	12	26	EP		1221	51.32	0.01							1.0
QRWL	SN	12	26	ES		1221	52.90	0.02							1.0
AZOL	BZ	15	327	EP		1221	51.67	-0.06							1.0
SHBL	BZ	16	135	EP		1221	51.92	0.04	25						1.0
SHBL	BN	16	135	ES		1221	53.86	-0.02							1.0
RCY	SZ	20	75	EP		1221	52.60	0.02							1.0
RCY	SN	20	75	ES		1221	55.07	-0.01							1.0
DQRL	SZ	29	350	EP		1221	53.99	0.06							1.0
SAWL	BZ	36	45	EP		1221	55.00	-0.05							1.0

February 26 2012 Hour: 12:43 43.3

Lat: 33.45N Lon: 35.63E 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	12	25	EP		1243	45.28	-0.02	26						1.0
QRWL	SN	12	25	ES		1243	46.77	0.03							1.0
AZOL	BZ	15	326	EP		1243	45.71	-0.06							1.0
SHBL	BZ	16	136	EP		1243	45.91	0.01							1.0
SHBL	BN	16	136	ES		1243	47.80	0.02							1.0
RCY	SZ	20	75	EP		1243	46.58	-0.02							1.0
RCY	SN	20	75	ES		1243	48.97	-0.04							1.0
DQRL	SZ	29	350	EP		1243	48.05	0.04							1.0
SAWL	BZ	36	45	EP		1243	49.16	0.03							1.0

February 27 2012 Hour: 11:51 19.9

Lat: 33.86N Lon: 35.36E Depth: 19 Agency: REL Local

Magnitudes: 2.5MC 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	26	131	EP		1151	25.11	-0.02							1.0
BHL	BZ	28	80	EP		1151	25.33	-0.02	31						1.0
AZOL	BZ	37	153	EP		1151	26.54	-0.00							1.0
QRWL	SZ	46	139	EP		1151	27.85	0.07							1.0
QRWL	SN	46	139	ES		1151	33.65	0.04							1.0

SAWL	BZ	54	112	EP	1151	28.93	-0.04										1.0
RCY	SZ	60	132	EP	1151	29.86	0.03										1.0
RCY	SN	60	132	ES	1151	37.18	0.01										1.0
SHBL	BZ	67	148	EP	1151	30.85	-0.02										1.0
SHBL	BN	67	148	ES	1151	38.94	-0.05										1.0
HWQ	BZ	72	49	EP	1151	31.49	0.01										1.0

February 27 2012 Hour: 18:48 54.0

Agency: REL Distant

EMSC OT=18:48:54.0 31.45N 56.84E 10Km M=5.2 CENTRAL IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1853	5.79								
HWQ	BZ			EP		1853	2.15								

February 29 2012 Hour: 2:50 33.7

Lat: 33.75N

Lon: 35.81E

Depth: 7

Agency: REL

Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SAWL	BZ	12	131	EP		250	35.95	0.03							1.0
SAWL	BN	12	131	ES		250	37.60	0.00							1.0
DQRL	SZ	22	258	EP		250	37.56	0.07							1.0
DQRL	SN	22	258	ES		250	40.36	0.03							1.0
BHL	BZ	22	321	EP		250	37.45	-0.05							1.0
BHL	BN	22	321	ES		250	40.33	-0.02							1.0
QRWL	SZ	25	208	EP		250	37.86	-0.01							1.0
QRWL	SN	25	208	ES		250	40.94	-0.05							1.0
RCY	SZ	28	174	EP		250	38.36	0.00	38						1.0
RCY	SN	28	174	ES		250	41.83	-0.00							1.0
AZOL	BZ	32	231	EP		250	39.02	-0.00							1.0
HWQ	BZ	60	12	EP		250	43.48	0.01							1.0

Epicentral Map of Lebanon

FEBRUARY 2012

