

Republic of Lebanon  
National Council for Scientific Research

# Provisional Seismological Bulletin

from the

## NATIONAL SEISMIC NETWORK

July

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](mailto: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.

July 1 2012 Hour: 4:22 0.0 Agency: REL Distant  
**EMSC OT=04:13:53.0 25.63N 94.77E 63Km M=5.5 MYANMAR-INDIA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 422 51.83  
 SHBL BZ EP 422 51.31

July 1 2012 Hour: 12:50 56.0 Lat: 33.29N Lon: 35.80E Depth: 2 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	9	323	EP		1250	57.53	0.00							1.0
SHBL	BN	9	323	ES		1250	58.62	-0.04							1.0
RCY	SZ	24	8	EP		1250	59.89	0.04	40						1.0
RCY	SN	24	8	ES		1251	2.75	0.05							1.0
QRWL	SZ	31	339	EP		1251	1.10	0.07							1.0
QRWL	SN	31	339	ES		1251	4.75	-0.00							1.0
DQRL	SZ	51	335	EP		1251	4.35	0.07							1.0
DQRL	SN	51	335	ES		1251	10.37	-0.03							1.0
BHL	BZ	70	349	EP		1251	7.28	-0.00							1.0
HWQ	SZ	111	7	EP		1251	13.72	-0.17							1.0

July 1 2012 Hour: 12:55 0.0 Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 1255 38.23  
 SHBL BZ EP 1255 35.89

July 1 2012 Hour: 22:1 43.6 Agency: REL Distant

**EMSC OT=22:05:54.2 34.56N 59.97E 16Km M=3.9 IRAN**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ EP 22 5 57.87  
 RCY SZ EP 22 6 0.05  
 BHL BZ EP 22 6 1.05  
 SHBL BZ EP 22 6 1.42

July 2 2012 Hour: 14:22 49.6 Lat: 33.79N Lon: 35.78E Depth: 7 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	317	EP		1422	52.72	0.02	38						1.0
BHL	BN	18	317	ES		1422	55.02	0.00							1.0
DQRL	SZ	22	245	EP		1422	53.37	0.03							1.0
DQRL	SN	22	245	ES		1422	56.11	-0.03							1.0
RCY	SZ	33	172	EP		1422	55.03	-0.01							1.0
RCY	SN	33	172	ES		1422	59.10	0.01							1.0
QRTL	BZ	34	10	EP		1422	55.22	-0.01							1.0
HWQ	BZ	56	15	EP		1422	58.74	-0.01							1.0

July 2 2012 Hour: 16:26 17.6 Lat: 33.78N Lon: 35.78E Depth: 2 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
BHL	BZ	18	319	EP		1626	20.66	0.08	45						1.0
BHL	BN	18	319	ES		1626	22.73	-0.03							1.0
DQRL	SZ	21	247	EP		1626	21.11	-0.01							1.0
DQRL	SN	21	247	ES		1626	23.69	-0.01							1.0
VERD	SZ	30	291	EP		1626	22.48	-0.01							1.0
RCY	SZ	32	171	EP		1626	22.81	-0.04							1.0
QRTL	BZ	35	10	EP		1626	23.32	0.02							1.0
SHBL	BZ	48	184	EP		1626	25.46	0.01							1.0
SHBL	BN	48	184	ES		1626	31.24	0.02							1.0
HWQ	SZ	57	15	EP		1626	26.83	-0.04							1.0

July 2 2012 Hour: 23:24 0.0 Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 2325 16.50  
 SHBL BZ EP 2325 13.84

July 2 2012 Hour: 23:31 46.9 Lat: 33.79N Lon: 35.80E Depth: 0 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	18	314	EP		2331	49.89	0.04	55						1.0
DQRL	SZ	23	246	EP		2331	50.60	-0.02							1.0
DQRL	SN	23	246	ES		2331	53.37	-0.01							1.0
RCY	SZ	33	174	EP		2331	52.13	-0.08							1.0
RCY	SN	33	174	ES		2331	56.10	-0.03							1.0
QRTL	BZ	34	8	EP		2331	52.27	-0.07							1.0
QRTL	BN	34	8	ES		2331	56.32	-0.05							1.0
SHBL	BZ	49	186	EP		2331	54.98	0.11							1.0
SHBL	BN	49	186	ES		2332	0.76	0.00							1.0
HWQ	SZ	56	14	EP		2331	56.01	0.11							1.0

July 3 2012 Hour: 10:36 8.6 Agency: REL Distant  
 EMSC OT=10:36:15.0 40.04S 173.78E 220Km M=6.2 NEW ZEALAND

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1055	27.74								
BHL	BZ			EP		1055	28.06								
RCY	SZ			EP		1055	28.41								
DQRL	SZ			EP		1055	28.48								

July 3 2012 Hour: 12: 9 49.9 Lat: 33.47N Lon: 35.60E Depth: 13 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	12	40	EP		12 9	52.93	-0.00	24						1.0
QRWL	SN	12	40	ES		12 9	55.19	0.00							1.0
SHBL	BZ	19	134	EP		12 9	53.77	0.00							1.0
SHBL	BN	19	134	ES		12 9	56.63	-0.00							1.0
RCY	SZ	22	81	EP		12 9	54.22	0.01							1.0
RCY	SN	22	81	ES		12 9	57.41	-0.00							1.0
DQRL	SZ	27	354	EP		12 9	54.78	-0.05							0.2

July 3 2012 Hour: 15:30 4.9 Lat: 33.79N Lon: 35.76E 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
BHL	BZ	16	323	EP		1530	8.15	-0.11	29						1.0
BHL	BN	16	323	ES		1530	10.76	0.02							1.0
DQRL	SZ	20	242	EP		1530	8.75	0.02							1.0
DQRL	SN	20	242	ES		1530	11.57	0.02							1.0
RCY	SZ	33	167	EP		1530	10.69	-0.01							1.0
RCY	SN	33	167	ES		1530	14.96	-0.01							1.0
QRTL	BZ	35	14	EP		1530	10.96	0.05							1.0
HWQ	BZ	57	18	EP		1530	14.38	0.01							1.0

July 3 2012 Hour: 18:41 30.7 Lat: 33.78N Lon: 35.79E Depth: 0 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	19	316	EP		1841	33.70	-0.00	25						1.0
BHL	BN	19	316	ES		1841	35.93	0.01							1.0
DQRL	SZ	23	247	EP		1841	34.39	0.04							1.0
DQRL	SN	23	247	ES		1841	37.01	-0.03							1.0
SHBL	BZ	49	186	EP		1841	38.55	-0.00							1.0
HWQ	BZ	57	14	EP		1841	39.81	-0.01							1.0

July 3 2012 Hour: 22:56 53.2 Lat: 33.81N Lon: 35.74E Depth: 0 Agency: REL Local  
Magnitudes: 2.1MC 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	13	320	EP		2256	55.36	-0.00	17						1.0
BHL	BN	13	320	ES		2256	56.92	-0.02							1.0
DQRL	SZ	20	234	EP		2256	56.47	0.00							1.0
DQRL	SN	20	234	ES		2256	58.89	0.02							1.0
SHBL	BZ	52	180	EP		2257	1.54	0.01							1.0
SHBL	BN	52	180	ES		2257	7.65	-0.03							1.0
HWQ	BZ	55	20	EP		2257	2.09	0.02							1.0

July 4 2012 Hour: 15:31 43.8 Lat: 33.79N Lon: 35.77E Depth: 4 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	16	318	EP		1531	46.62	0.01	38						1.0
BHL	BN	16	318	ES		1531	48.68	0.01							1.0
DQRL	SZ	21	242	EP		1531	47.38	0.02							1.0
DQRL	SN	21	242	ES		1531	49.96	-0.02							1.0
QRTL	BZ	34	12	EP		1531	49.33	-0.01							1.0
RCY	SZ	34	170	EP		1531	49.36	0.01							1.0
RCY	SN	34	170	ES		1531	53.44	-0.00							1.0
HWQ	BZ	56	17	EP		1531	52.90	-0.00							1.0

July 4 2012 Hour: 23:45 7.2 Agency: REL Regional  
EMSC OT=23:46:35.0 34.90N 26.73E 60Km M=4.7 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2348	18.97								
BHL	BZ			EP		2348	19.00								
QRWL	SZ			EP		2348	21.08								
SHBL	BZ			EP		2348	22.03								
HWQ	BZ			EP		2348	22.43								
RCY	SZ			EP		2348	23.08								
FKH	SZ			EP		2348	28.41								

July 5 2012 Hour: 16: 1 1.4 Lat: 33.79N Lon: 35.78E 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
BHL	BZ	17	316	EP		16 1	4.02	-0.06	30						1.0
BHL	BN	17	316	ES		16 1	6.11	0.02							1.0
DQRL	SZ	22	243	EP		16 1	4.88	0.01							1.0
DQRL	SN	22	243	ES		16 1	7.47	0.00							1.0
RCY	SZ	33	171	EP		16 1	6.74	-0.02							1.0
RCY	SN	33	171	ES		16 1	10.76	0.01							1.0
QRTL	BZ	34	11	EP		16 1	6.81	0.03							1.0
QRTL	BN	34	11	ES		16 1	10.78	-0.02							1.0
HWQ	BZ	56	16	EP		16 1	10.39	0.03							1.0

July 6 2012 Hour: 17:22 52.2 Lat: 33.80N Lon: 35.75E Depth: 13 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	323	EP		1722	55.51	-0.04	35						1.0
BHL	BN	15	323	ES		1722	58.00	-0.02							1.0
DQRL	SZ	20	239	EP		1722	56.18	0.04							1.0
DQRL	SN	20	239	ES		1722	59.05	0.01							1.0
QRTL	BZ	34	16	EP		1722	58.22	0.07							1.0
RCY	SZ	34	167	EP		1722	58.19	-0.04							1.0
RCY	SZ	34	167	ES		1723	2.70	0.01							1.0
HWQ	BZ	56	19	EP		1723	1.50	-0.02							1.0

July 7 2012 Hour: 7:52 0.0 Agency: REL Regional  
**EMSC OT=07:51:26.0 36.41N 26.77E 166Km M=4.3 DODECANESE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ EP 753 13.12  
 RCY SZ EP 753 15.64

July 8 2012 Hour: 6:33 0.6 Lat: 33.29N Lon: 35.38E Depth: 3 Agency: REL Local  
 Magnitudes: 2.6MC 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	40	44	EP		633	7.14	0.00							1.0
QRWL	SN	40	44	ES		633	11.94	-0.00							1.0
DQRL	SZ	50	20	EP		633	8.63	-0.03							1.0
DQRL	SN	50	20	ES		633	14.54	-0.06							1.0
BHL	BZ	73	20	EP		633	12.42	0.00	34						1.0
BHL	BN	73	20	ES		633	21.17	0.03							1.0
QRTL	BZ	99	26	EP		633	16.74	0.09							1.0
HWQ	BZ	122	25	EP		633	20.19	-0.02							1.0

July 8 2012 Hour: 6:39 29.4 Lat: 33.28N Lon: 35.38E Depth: 0 Agency: REL Local  
 Magnitudes: 2.9MC REL Rms: 0.0 secs  
**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	35	77	EP		639	35.00	0.02							1.0
SHBL	BN	35	77	ES		639	39.13	-0.02							1.0
QRWL	SZ	41	43	EP		639	35.95	-0.02							1.0
QRWL	SN	41	43	ES		639	40.88	0.01							1.0
DQRL	SZ	51	21	EP		639	37.48	-0.02	48						1.0
DQRL	SN	51	21	ES		639	43.53	0.00							1.0
BHL	BZ	74	20	EP		639	41.22	-0.05							1.0
HWQ	BZ	123	25	EP		639	49.21	0.08							1.0

July 9 2012 Hour: 10:51 0.0 Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 DQRL SZ EP 1052 14.10  
 RCY SZ EP 1052 19.01

July 9 2012 Hour: 13:55 54.6 Agency: REL Regional  
**EMSC OT=13:54:59.0 35.52N 28.88E 50Km M=5.7 EAST MED SEA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	BZ			EP		1356	20.04								
BHL	BZ			EP		1356	21.47								
DQRL	SZ			EP		1356	21.66								
QRTL	BZ			EP		1356	23.59								
HWQ	SZ			EP		1356	23.62								
QRWL	SZ			EP		1356	24.51								
RCY	SZ			EP		1356	26.74								
SHBL	BZ			EP		1356	26.22								

July 10 2012 Hour: 2:18 31.9 Lat: 33.32N Lon: 35.59E Depth: 5 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.0 secs  
**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	15	78	EP		218	34.62	0.00							1.0
SHBL	BN	15	78	ES		218	36.59	-0.01							1.0
RCY	SZ	30	50	EP		218	36.96	0.01	39						1.0
RCY	SN	30	50	ES		218	40.66	-0.00							1.0
DQRL	SZ	43	358	EP		218	38.92	0.00							1.0
DQRL	SN	43	358	ES		218	44.09	0.01							1.0
QRTL	BZ	89	16	EP		218	46.30	-0.02							1.0
HWQ	BZ	111	17	EP		218	49.85	0.01							1.0



July 10 2012 Hour: 17:35 1.7 Lat: 33.30N Lon: 35.36E Depth: 0 Agency: REL Local  
 Magnitudes: 3.5MC REL Rms: 0.1 secs

**SOUTH LEBANON**  
**Earthquake was felt**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	BZ	21	352	EP		1735	5.16	0.05							1.0
AZOL	BZ	33	29	EP		1735	6.93	-0.14							1.0
SHBL	BZ	36	81	EP		1735	7.46	-0.02							1.0
QRWL	SZ	41	47	EP		1735	8.18	-0.05							1.0
DQRL	SZ	49	23	EP		1735	9.54	-0.06							1.0
DQRL	SN	49	23	ES		1735	15.55	0.09							1.0
RCY	SZ	49	63	EP		1735	9.66	0.04							1.0
BEYL	BZ	65	11	EP		1735	12.13	0.02							1.0
BEYL	BN	65	11	ES	*	1735	19.77	-0.07							0.0
VERD	SZ	65	10	EP		1735	12.27	0.04							1.0
BHL	BZ	72	22	EP		1735	13.34	-0.02	114						1.0
BHL	BN	72	22	ES		1735	21.85	-0.16							1.0
QRTL	BZ	99	27	EP		1735	17.70	0.07							1.0
HWQ	SZ	121	26	EP		1735	21.32	0.07							1.0
HWQ	SE	121	26	ES		1735	35.74	0.00							1.0
FKH	SZ	143	42	EP		1735	24.69	0.06							1.0

July 10 2012 Hour: 17:37 47.4 Lat: 33.32N Lon: 35.37E Depth: 3 Agency: REL Local  
 Magnitudes: 2.7MC 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	39	49	EP		1737	53.74	0.00							1.0
QRWL	SN	39	49	ES		1737	58.42	0.02							1.0
DQRL	SZ	47	24	EP		1737	54.98	-0.04							1.0
DQRL	SN	47	24	ES		1738	0.63	-0.01							1.0
RCY	SZ	48	66	EP		1737	55.21	0.00	36						1.0
RCY	SN	48	66	ES		1738	0.95	-0.01							1.0
BHL	BZ	70	22	EP		1737	58.81	0.04							1.0
HWQ	BZ	119	27	EP		1738	6.63	-0.00							1.0

July 10 2012 Hour: 18:14 46.2 Agency: REL Distant  
**EMSC OT=18:09:43.0 23.50S 179.83W 543Km M=5.1 FIJI ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1828	26.02								
QRTL	BZ			EP		1828	26.52								
BHL	BZ			EP		1828	27.03								
SHBL	BZ			EP		1828	27.47								
DQRL	SZ			EP		1828	27.64								

July 10 2012 Hour: 19:50 35.6 Lat: 34.18N Lon: 35.74E Depth: 28 Agency: REL Local  
 Magnitudes: 3.1MC REL Rms: 0.1 secs

**KESROUANE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ	15	134	EP		1950	40.70	0.03							1.0
HWQ	SZ	22	61	EP		1950	41.31	0.02							1.0
HWQ	SN	22	61	ES		1950	45.58	0.07							1.0
BHL	BZ	32	194	EP		1950	42.08	-0.18	68						1.0
BHL	BN	32	194	ES		1950	47.12	-0.08							1.0
DQRL	SZ	55	196	EP		1950	45.21	0.03							1.0
DQRL	SN	55	196	ES		1950	52.34	0.06							1.0
FKH	SZ	63	83	EP		1950	46.12	-0.10							1.0
AZOL	BZ	71	195	EP		1950	47.49	0.09							1.0
RCY	SZ	77	173	EP		1950	48.27	0.07							1.0
MATL	BZ	86	206	EP		1950	49.38	0.01							1.0
SHBL	BZ	93	180	EP		1950	50.44	-0.02							1.0

**July 11 2012 Hour: 12:58 41.6 Lat: 34.68N Lon: 36.35E Depth: 30 Agency: REL Local**  
**Magnitudes: 3.1MC REL Rms: 0.0 secs**

**AKKAR**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	49	174	EP		1258	50.56	0.03							1.0
FKH	SN	49	174	ES		1258	57.10	-0.02							1.0
HWQ	BZ	58	220	EP		1258	51.77	-0.03	70						1.0
HWQ	BN	58	220	ES		1258	59.33	0.02							1.0
BHL	BZ	108	217	EP		1258	58.35	-0.06							1.0
DQRL	SZ	130	214	EP		1259	1.26	0.06							1.0
RCY	SZ	140	200	EP		1259	2.45	-0.00							1.0

**July 11 2012 Hour: 15:46 44.6 Lat: 33.78N Lon: 35.79E Depth: 7 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	318	EP		1546	47.80	-0.04	38						1.0
BHL	BN	18	318	ES		1546	50.20	-0.01							1.0
DQRL	SZ	22	247	EP		1546	48.46	0.07							1.0
DQRL	SN	22	247	ES		1546	51.16	-0.00							1.0
RCY	SZ	32	172	EP		1546	50.02	0.01							1.0
RCY	SN	32	172	ES		1546	54.02	0.03							1.0
QRTL	BZ	35	10	EP		1546	50.41	0.02							1.0
SHBL	BZ	48	185	EP		1546	52.55	-0.02							1.0
SHBL	BN	48	185	ES		1546	58.39	-0.06							1.0
HWQ	SZ	57	15	EP		1546	53.89	-0.01							1.0

**July 12 2012 Hour: 8:54 0.0 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		855	18.45								
RCY	SZ			EP		855	20.00								

**July 12 2012 Hour: 9:11 8.1 Lat: 33.34N Lon: 35.42E Depth: 1 Agency: REL Local**  
**Magnitudes: 2.5MC 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	34	47	EP		911	13.51	-0.06							1.0
QRWL	SE	34	47	ES		911	17.63	0.00							1.0
RCY	SZ	43	66	EP		911	15.03	0.03	28						1.0
RCY	SE	43	66	ES		911	20.12	0.00							1.0
DQRL	SZ	43	19	EP		911	15.09	0.03							1.0
QRTL	BZ	93	26	EP		911	22.99	-0.06							0.2
HWQ	BZ	115	25	EP		911	26.68	0.01							1.0

**July 12 2012 Hour: 10:34 0.0 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1035	10.82								
SHBL	BZ			EP		1035	7.85								

**July 12 2012 Hour: 11:48 41.2 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	316	EP		1148	44.16	-0.05	37						1.0
DQRL	SZ	22	247	EP		1148	44.87	0.02							1.0
DQRL	SN	22	247	ES		1148	47.54	0.01							1.0
RCY	SZ	32	173	EP		1148	46.47	-0.00							1.0
RCY	SN	32	173	ES		1148	50.35	-0.00							1.0
HWQ	BZ	57	15	EP		1148	50.33	-0.02							1.0
HWQ	BN	57	15	ES		1148	57.14	0.04							1.0

July 12 2012 Hour: 13:035.5 Lat: 33.79N Lon: 35.76E Depth: 13 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	16	323	EP		13	0	38.88	-0.03		32				1.0
DQRL	SZ	20	241	EP		13	0	39.44	0.06						1.0
DQRL	SN	20	241	ES		13	0	42.26	-0.02						1.0
RCY	SZ	33	167	EP		13	0	41.33	-0.02						1.0
RCY	SE	33	167	ES		13	0	45.72	0.01						1.0
QRTL	BZ	35	15	EP		13	0	41.53	0.02						1.0
QRTL	BN	35	15	ES		13	0	45.98	0.00						1.0
HWQ	BZ	57	18	EP		13	0	44.86	-0.01						1.0

July 12 2012 Hour: 14:50.0 Agency: REL Distant  
EMSC OT=14:00:34.0 36.59N 70.92E 190Km M=5.7 AFGHANISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		14	6	15.59							
SHBL	BZ			EP		14	6	16.39							

July 12 2012 Hour: 17:29 41.7 Lat: 33.79N Lon: 35.77E Depth: 3 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	17	319	EP		1729		44.41	-0.08		41				1.0
BHL	BN	17	319	ES		1729		46.56	0.02						1.0
DQRL	SZ	21	243	EP		1729		45.22	0.03						1.0
RCY	SZ	33	170	EP		1729		47.14	-0.03						1.0
RCY	SN	33	170	ES		1729		51.17	-0.02						1.0
QRTL	BZ	34	12	EP		1729		47.32	0.05						1.0
SHBL	BZ	49	183	EP		1729		49.68	-0.04						1.0
SHBL	BN	49	183	ES		1729		55.71	0.07						1.0
HWQ	SZ	56	17	EP		1729		50.90	0.06						0.2

July 13 2012 Hour: 0:42 41.0 Lat: 33.29N Lon: 35.35E Depth: 3 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	37	80	EP		042		46.90	-0.03						1.0
SHBL	BN	37	80	ES		042		51.41	0.06						1.0
QRWL	SZ	42	47	EP		042		47.66	-0.05						1.0
RCY	SN	50	63	ES		042		55.04	-0.06						1.0
DQRL	SN	50	23	ES		042		55.10	0.02						1.0
RCY	SZ	50	63	EP		042		49.12	0.04		41				1.0
DQRL	SZ	50	23	EP		042		49.00	-0.07						1.0
BHL	BZ	74	22	EP		042		52.92	0.09						1.0
HWQ	SZ	122	26	EP		043		0.70	0.00						1.0

July 13 2012 Hour: 4:50 34.9 Agency: REL Distant  
EMSC OT=04:50:45.0 18.27S 178.55W 652Km M=5.1 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		5	9	12.59							
HWQ	SZ			EP		5	9	12.94							
QRTL	BZ			EP		5	9	13.63							
BHL	BZ			EP		5	9	14.16							
QRWL	SZ			EP		5	9	14.69							

July 13 2012 Hour: 14:32 18.3 Lat: 33.35N Lon: 35.46E Depth: 4 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	27	91	EP		1432		22.79	0.00						1.0
QRWL	SZ	30	44	EP		1432		23.27	-0.04						1.0
RCY	SZ	39	65	EP		1432		24.70	0.01						1.0

DQRL	SZ	41	15	EP	1432	24.99	0.02										1.0
BHL	BZ	64	17	EP	1432	28.65	-0.06										1.0
QRTL	BZ	90	24	EP	1432	32.95	0.08										1.0
HWQ	SZ	112	24	EP	1432	36.48	-0.01										1.0

**July 13 2012 Hour: 17:27 22.3 Lat: 33.79N Lon: 35.78E Depth: 4 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	319	EP		1727	25.11	-0.02	27						1.0
DQRL	SZ	21	244	EP		1727	25.78	0.02							1.0
DQRL	SN	21	244	ES		1727	28.36	-0.00							1.0
RCY	SZ	33	170	EP		1727	27.64	0.00							1.0
RCY	SN	33	170	ES		1727	31.62	0.00							1.0
QRTL	BZ	34	12	EP		1727	27.86	0.01							1.0
SHBL	BZ	49	183	EP		1727	30.18	-0.02							1.0
SHBL	BN	49	183	ES		1727	36.08	0.00							1.0

**July 13 2012 Hour: 19:15 22.5 Lat: 33.57N Lon: 35.38E Depth: 18 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.1 secs**

**SAIDA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	23	51	EP		1915	27.26	-0.01	52						1.0
QRWL	SZ	29	96	EP		1915	28.03	0.09							1.0
SHBL	BZ	42	126	EP		1915	29.70	-0.17							1.0
RCY	SZ	43	101	EP		1915	30.06	0.03							1.0
BHL	BZ	45	35	EP		1915	30.12	-0.07							1.0
QRTL	BZ	72	37	EP		1915	34.16	-0.01							1.0
HWQ	SZ	94	34	EP		1915	37.46	0.06							1.0

**July 13 2012 Hour: 22:11 8.8 Lat: 34.36N Lon: 34.67E Depth: 0 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
BHL	BZ	104	119	EP		2211	25.61	-0.00	56						1.0
DQRL	SZ	111	131	EP		2211	26.85	0.20							1.0
DQRL	SN	111	131	ES		2211	39.64	-0.20							1.0
QRTL	BZ	113	105	EP		2211	27.05	0.02							1.0
QRTL	BN	113	105	ES		2211	40.63	0.12							1.0
HWQ	SZ	118	94	EP		2211	27.72	-0.13							1.0
RCY	SZ	144	131	EP		2211	31.87	-0.12							1.0
RCY	SN	144	131	ES		2211	49.14	-0.00							1.0
SHBL	BZ	150	138	EP		2211	32.87	0.04							1.0
SHBL	BN	150	138	ES		2211	50.69	0.09							1.0

**July 14 2012 Hour: 1:35 0.0 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		136	22.87								
QRWL	SZ			EP		136	23.50								

**July 14 2012 Hour: 5:27 35.9 Lat: 33.30N Lon: 35.35E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.0MC REL Rms: 0.1 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	37	81	EP		527	41.74	-0.04							1.0
QRWL	SZ	41	47	EP		527	42.57	0.05							1.0
DQRL	SZ	50	24	EP		527	43.74	-0.12	57						1.0
DQRL	SN	50	24	ES		527	49.73	-0.05							1.0
RCY	SZ	50	63	EP		527	43.90	-0.02							1.0
VERD	SZ	66	10	EP		527	46.47	-0.00							1.0
BHL	BZ	73	22	EP		527	47.59	-0.03							1.0
BHL	BN	73	22	ES		527	56.36	0.04							1.0
QRTL	BZ	99	27	EP		527	52.06	0.16							1.0
HWQ	SZ	122	27	EP		527	55.52	-0.00							1.0

HWQ	SN	122	27	ES		528	10.07	0.01									1.0
FKH	SZ	144	43	EP		527	58.91	-0.00									1.0

**July 14 2012 Hour: 12:0 0.0**

**Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		12	1	8.28							
RCY	SZ			EP		12	1	10.69							

**July 14 2012 Hour: 13:9 14.5**

**Agency: REL Regional**

**EMSC OT=13:08:30.7 36.95N 36.72E 9Km M=3.9 TURKEY-SYRIA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		13	9	17.60							
QRTL	BZ			EP		13	9	20.04							
BHL	BZ			EP		13	9	24.37							

**July 14 2012 Hour: 19:27 32.7**

**Lat: 33.26N Lon: 35.35E Depth: 10 Agency: REL Local**

**Magnitudes: 2.6MC REL**

**Rms: 0.0 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	38	76	EP		1927	39.17	0.01							1.0
SHBL	BN	38	76	ES		1927	43.97	0.04							1.0
QRWL	SZ	44	45	EP		1927	40.05	-0.04							1.0
QRWL	SN	44	45	ES		1927	45.57	0.02							1.0
RCY	SZ	52	60	EP		1927	41.34	-0.02	33						1.0
RCY	SN	52	60	ES		1927	47.71	-0.05							1.0
DQRL	SZ	53	23	EP		1927	41.50	0.02							1.0
BHL	BZ	77	22	EP		1927	45.21	0.02							1.0
QRTL	BZ	103	27	EP		1927	49.07	-0.02							0.2
HWQ	SZ	125	26	EP		1927	52.44	0.04							0.2

**July 14 2012 Hour: 22:59 29.8**

**Lat: 33.31N Lon: 35.34E Depth: 0 Agency: REL Local**

**Magnitudes: 2.6MC REL**

**Rms: 0.0 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	38	83	EP		2259	35.93	-0.04							1.0
SHBL	BN	38	83	ES		2259	40.52	-0.00							1.0
QRWL	SZ	42	50	EP		2259	36.56	0.04							1.0
QRWL	SN	42	50	ES		2259	41.49	0.01							1.0
DQRL	SZ	49	26	EP		2259	37.65	-0.07							1.0
DQRL	SN	49	26	ES		2259	43.55	-0.02							1.0
RCY	SZ	51	66	EP		2259	38.03	0.02	35						1.0
RCY	SN	51	66	ES		2259	44.08	-0.00							1.0
BHL	BZ	72	24	EP		2259	41.44	-0.02							1.0
HWQ	SZ	121	28	EP		2259	49.47	0.08							1.0

**July 15 2012 Hour: 3:35 0.0**

**Agency: REL Regional**

**EMSC OT=03:34:07.0 36.61N 27.00E 122Km M=3.4 DODECANESE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		335	56.75								

**July 15 2012 Hour: 10:0 18.2**

**Lat: 33.80N Lon: 35.77E Depth: 11 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	16	319	EP		10	0	21.42	-0.02	32					1.0
DQRL	SZ	21	241	EP		10	0	22.13	0.02						1.0
DQRL	SN	21	241	ES		10	0	25.01	-0.00						1.0
QRTL	BZ	34	13	EP		10	0	23.98	0.02						1.0
RCY	SZ	34	169	EP		10	0	24.01	-0.03						1.0
RCY	SN	34	169	ES		10	0	28.38	0.01						1.0

July 15 2012 Hour: 10:22 53.9 Lat: 33.85N Lon: 36.56E Depth: 9 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.0 secs

**DAMASCUS REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	46	342	EP		1023	1.48	-0.02	61						1.0
QRTL	BZ	71	292	EP		1023	5.44	-0.02							1.0
HWQ	SZ	74	310	EP		1023	6.01	0.07							1.0
HWQ	SN	74	310	ES		1023	14.83	-0.01							1.0
DQRL	SZ	93	260	EP		1023	8.84	-0.01							1.0
DQRL	SN	93	260	ES		1023	19.92	0.01							1.0

July 16 2012 Hour: 11:24 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1124	50.78								
RCY	SZ			EP		1124	48.87								

July 16 2012 Hour: 16:9 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1610	12.37								
SHBL	BZ			EP		1610	10.78								

July 17 2012 Hour: 8:45 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		846	15.27								
RCY	SZ			EP		846	15.81								

July 17 2012 Hour: 14:12 4.3 Lat: 33.29N Lon: 35.40E Depth: 4 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	33	79	EP		1412	9.70	-0.00							1.0
SHBL	BE	33	79	ES		1412	13.66	-0.00							1.0
QRWL	SZ	38	43	EP		1412	10.49	-0.12							1.0
RCY	SZ	46	61	EP		1412	11.94	0.06	38						1.0
RCY	SN	46	61	ES		1412	17.48	0.02							1.0
DQRL	SZ	48	19	EP		1412	12.22	0.04							1.0
DQRL	SN	48	19	ES		1412	17.97	-0.00							1.0
BHL	BZ	72	19	EP		1412	15.95	0.02							1.0
HWQ	SZ	120	25	EP		1412	23.63	-0.01							1.0

July 17 2012 Hour: 15:37 0.1 Lat: 33.79N Lon: 35.78E Depth: 4 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	319	EP		1537	3.06	0.03	36						1.0
DQRL	SZ	21	245	EP		1537	3.62	-0.03							1.0
DQRL	SN	21	245	ES		1537	6.26	-0.00							1.0
RCY	SZ	33	170	EP		1537	5.46	-0.03							1.0
RCY	SN	33	170	ES		1537	9.48	0.01							1.0
QRTL	BZ	34	11	EP		1537	5.75	0.01							1.0
HWQ	SZ	57	16	EP		1537	9.28	-0.02							1.0

July 17 2012 Hour: 18:29 40.7 Lat: 33.78N Lon: 35.78E Depth: 2 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	18	319	EP		1829	43.64	0.03	50						1.0
DQRL	SZ	21	246	EP		1829	44.17	-0.04							1.0
DQRL	SN	21	246	ES		1829	46.78	0.00							1.0
RCY	SZ	32	171	EP		1829	46.02	0.01							1.0
RCY	SN	32	171	ES		1829	49.88	-0.02							1.0
QRTL	BZ	35	11	EP		1829	46.35	0.00							1.0
SHBL	BZ	49	184	EP		1829	48.53	-0.07							1.0

SHBL	BN	49	184	ES		1829	54.46	0.05											1.0
HWQ	SZ	57	16	EP		1829	49.91	-0.01											1.0

**July 17 2012 Hour: 22:14 20.0 Lat: 33.32N Lon: 35.36E Depth: 4 Agency: REL Local**  
**Magnitudes: 2.7MC 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	39	49	EP		2214	26.40	0.01							1.0
QRWL	SN	39	49	ES		2214	31.16	0.04							1.0
DQRL	SZ	47	24	EP		2214	27.65	-0.04							1.0
DQRL	SN	47	24	ES		2214	33.30	-0.07							1.0
RCY	SZ	48	65	EP		2214	27.87	0.02	39						1.0
RCY	SN	48	65	ES		2214	33.61	-0.04							1.0
BHL	BZ	71	22	EP		2214	31.46	0.03							1.0
QRTL	BZ	97	28	EP		2214	35.70	0.00							1.0
QRTL	BN	97	28	ES		2214	47.37	0.06							1.0
HWQ	SZ	120	27	EP		2214	39.20	-0.01							1.0

**July 18 2012 Hour: 8:9 48.0 Agency: REL Distant**  
**EMSC OT=08:09:46.0 20.85S 178.49W 542Km M=5.9 FIJI REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		828	28.74								
QRTL	BZ			EP		828	29.37								
BHL	BZ			EP		828	29.80								
DQRL	SZ			EP		828	30.48								
SHBL	BZ			EP		828	30.43								

**July 18 2012 Hour: 13:50 3.3 Lat: 33.39N Lon: 35.27E Depth: 4 Agency: REL Local**  
**Magnitudes: 2.5MC REL Rms: 0.0 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	44	95	EP		1350	10.56	0.07							1.0
SHBL	BN	44	95	ES		1350	15.78	-0.01							1.0
DQRL	SZ	45	38	EP		1350	10.64	0.02							1.0
RCY	SZ	54	77	EP		1350	11.95	-0.10	29						1.0
RCY	SN	54	77	ES		1350	18.52	0.02							1.0
HWQ	SZ	117	32	EP		1350	22.18	0.00							1.0

**July 18 2012 Hour: 15:50 0.0 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1550	57.53								
RCY	SZ			EP		1550	54.62								

**July 18 2012 Hour: 17:47 0.0 Agency: REL Regional**

**EMSC OT=17:46:44.0 37.14N 28.38E 6Km M=4.0 WESTERN TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1748	23.81								
SHBL	BZ			EP		1748	28.13								

**July 18 2012 Hour: 19:36 8.7 Agency: REL Regional**

**EMSC OT=19:37:21.0 34.22N 25.23E 40Km M=4.8 CRETE, GREECE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1939	21.63								
BHL	BZ			EP		1939	22.31								
SHBL	BZ			EP		1939	24.11								
RCY	SZ			EP		1939	23.66								
HWQ	SZ			EP		1939	24.28								
FKH	SZ			EP		1939	31.06								

July 18 2012 Hour: 23: 6 34.6 Lat: 33.78N Lon: 35.80E Depth: 1 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	19	314	EP		23	6	37.65-0.02	55						1.0
BHL	BE	19	314	ES		23	6	39.93-0.03							1.0
DQRL	SZ	23	248	EP		23	6	38.34 0.01							1.0
DQRL	SE	23	248	ES		23	6	41.16 0.05							1.0
QRWL	SZ	29	203	EP		23	6	39.17-0.01							1.0
BEYL	BZ	30	289	EP		23	6	39.43-0.02							1.0
RCY	SZ	32	174	EP		23	6	39.78 0.02							1.0
RCY	SN	32	174	ES		23	6	43.59-0.01							1.0
QRTL	BZ	34	7	EP		23	6	40.11-0.02							1.0
SHBL	BZ	49	186	EP		23	6	42.42-0.01							1.0
SHBL	BE	49	186	ES		23	6	48.23-0.01							1.0
HWQ	SZ	56	14	EP		23	6	43.73 0.06							1.0

July 19 2012 Hour: 2:23 43.2 Lat: 33.79N Lon: 35.78E Depth: 4 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	318	EP		223	46.09-0.00	35							1.0
BHL	BN	17	318	ES		223	48.25 0.00								1.0
DQRL	SZ	22	245	EP		223	46.76 0.01								1.0
DQRL	SN	22	245	ES		223	49.38-0.01								1.0
RCY	SZ	33	171	EP		223	48.57 0.01								1.0
RCY	SN	33	171	ES		223	52.52-0.01								1.0
QRTL	BZ	34	11	EP		223	48.77 0.00								1.0
SHBL	BZ	49	184	EP		223	51.13-0.01								1.0
SHBL	BN	49	184	ES		223	57.03 0.01								1.0

July 19 2012 Hour: 15:44 3.8 Lat: 33.88N Lon: 35.86E Depth: 1 Agency: REL Local  
 Magnitudes: 2.5MC 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	19	277	EP		1544	6.90-0.04	30							1.0
DQRL	SZ	34	234	EP		1544	9.17-0.04								1.0
DQRL	SN	34	234	ES		1544	13.27 0.05								1.0
RCY	SZ	43	183	EP		1544	10.66-0.09								1.0
RCY	SN	43	183	ES		1544	15.89-0.01								1.0
HWQ	SZ	44	10	EP		1544	11.01 0.05								1.0
SHBL	BZ	60	191	EP		1544	13.56 0.01								1.0
SHBL	BN	60	191	ES		1544	20.84 0.07								1.0

July 20 2012 Hour: 6:10 54.3 Agency: REL Distant

**EMSC OT=06:10:25.0 49.42N 155.92E 20Km M=6.0 KURIL ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		622	39.41								
QRTL	BZ			EP		622	40.39								
BHL	BZ			EP		622	41.57								
DQRL	SZ			EP		622	43.22								
RCY	SZ			EP		622	43.43								
QRWL	SZ			EP		622	43.58								
SHBL	BZ			EP		622	44.10								

July 20 2012 Hour: 6:34 49.5 Agency: REL Distant

**EMSC OT=06:32:59.0 49.34N 156.20E 30Km M=5.9 KURIL ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		645	12.26								
BHL	BZ			EP		645	15.14								
RCY	SZ			EP		645	16.64								
QRWL	SZ			EP		645	16.94								
SHBL	BZ			EP		645	17.60								



July 20 2012 Hour: 14:21 0.0 Agency: REL Distant  
**EMSC OT=14:03:12.0 21.19S 179.17W 612Km M=5.6 FIJI REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 1421 47.17  
 SHBL BZ EP 1421 47.71

July 20 2012 Hour: 16:17 5.5 Lat: 33.78N Lon: 35.76E 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  
 BHL BZ 17 326 EP 1617 8.28-0.06 45 1.0  
 DQRL SZ 19 246 EP 1617 8.64-0.01 1.0  
 DQRL SN 19 246 ES 1617 10.97 0.02 1.0  
 RCY SZ 32 167 EP 1617 10.59-0.08 1.0  
 RCY SN 32 167 ES 1617 14.52 0.05 1.0  
 SHBL BZ 47 182 EP 1617 13.19-0.01 1.0  
 SHBL BN 47 182 ES 1617 18.83-0.03 1.0  
 HWQ SZ 58 17 EP 1617 15.01 0.06 1.0

July 20 2012 Hour: 16:40 39.4 Lat: 33.78N Lon: 35.76E 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  
 BHL BZ 17 326 EP 1640 42.17-0.00 46 1.0  
 BHL BN 17 326 ES 1640 44.16-0.04 1.0  
 DQRL SZ 19 245 EP 1640 42.54 0.03 1.0  
 DQRL SN 19 245 ES 1640 44.80 0.01 1.0  
 QRWL SZ 26 195 EP 1640 43.62-0.07 1.0  
 BEYL BZ 27 293 EP 1640 43.71-0.01 1.0  
 RCY SZ 32 167 EP 1640 44.54-0.05 1.0  
 RCY SN 32 167 ES 1640 48.43 0.02 1.0  
 HWQ SZ 58 17 EP 1640 48.87 0.06 1.0

July 21 2012 Hour: 5:13 0.0 Agency: REL Distant  
**EMSC OT=04:54:06.0 37.81S 179.76E 10Km M=5.8 NEW ZEALAND**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 513 58.46  
 SHBL BZ EP 513 58.46

July 21 2012 Hour: 12:18 19.5 Lat: 33.56N Lon: 35.79E Depth: 15 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  
 RCY SZ 8 152 EP 1218 22.46-0.00 28 1.0  
 RCY SN 8 152 ES 1218 24.64 0.00 1.0  
 SHBL BZ 24 191 EP 1218 24.20-0.01 1.0  
 SHBL BE 24 191 ES 1218 27.68 0.00 1.0  
 DQRL SZ 26 308 EP 1218 24.44 0.01 1.0  
 DQRL SN 26 308 ES 1218 28.05-0.01 1.0  
 BHL BZ 40 341 EP 1218 26.41-0.00 1.0

July 21 2012 Hour: 15:53 24.9 Lat: 33.29N Lon: 35.38E Depth: 9 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  
 SHBL BZ 35 80 EP 1553 30.77-0.02 1.0  
 SHBL BN 35 80 ES 1553 35.15 0.02 1.0  
 QRWL SZ 40 45 EP 1553 31.59-0.00 1.0  
 QRWL SN 40 45 ES 1553 36.61 0.07 1.0  
 RCY SZ 48 62 EP 1553 32.91 0.01 41 1.0  
 RCY SN 48 62 ES 1553 38.75-0.06 1.0  
 DQRL SZ 49 21 EP 1553 33.03-0.00 1.0  
 DQRL SN 49 21 ES 1553 39.00-0.04 1.0

BHL	BZ	73	21	EP		1553	36.75	0.01											1.0
HWQ	SZ	121	26	EP		1553	44.14	0.10											0.2

**July 21 2012 Hour: 17: 3 0.9 Lat: 33.30N Lon: 35.35E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.2MC REL Rms: 0.0 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	37	81	EP		17	3	6.90	0.02						1.0
SHBL	BE	37	81	ES		17	3	11.29	0.01						1.0
QRWL	SZ	41	48	EP		17	3	7.53-0.07							1.0
DQRL	SZ	50	24	EP		17	3	8.91-0.03							1.0
DQRL	SN	50	24	ES		17	3	14.85-0.01							1.0
RCY	SZ	50	64	EP		17	3	9.00-0.01							1.0
RCY	SN	50	64	ES		17	3	14.99	0.00						1.0
BEYL	BZ	65	12	EP		17	3	11.48	0.06						1.0
BHL	BZ	73	22	EP		17	3	12.69-0.00	75						1.0
BHL	BN	73	22	ES		17	3	21.38-0.02							1.0
HWQ	SZ	122	27	EP		17	3	20.60	0.01						1.0
HWQ	SE	122	27	ES		17	3	35.18	0.04						1.0

**July 21 2012 Hour: 18:56 48.6 Lat: 33.31N Lon: 35.37E Depth: 3 Agency: REL Local**  
**Magnitudes: 3.0MC REL Rms: 0.0 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	36	83	EP		1856	54.41	0.00							1.0
SHBL	BE	36	83	ES		1856	58.68-0.01								1.0
QRWL	SZ	40	48	EP		1856	55.05	0.00							1.0
DQRL	SZ	48	23	EP		1856	56.30-0.08								1.0
DQRL	SN	48	23	ES		1857	2.17	0.05							1.0
RCY	SZ	49	65	EP		1856	56.49	0.01							1.0
RCY	SN	49	65	ES		1857	2.32	0.03							1.0
BEYL	BZ	64	11	EP		1856	58.90	0.03							1.0
BHL	BZ	71	22	EP		1857	0.17	0.04	58						1.0
BHL	BN	71	22	ES		1857	8.58-0.07								1.0
HWQ	SZ	120	26	EP		1857	8.05	0.05							1.0
HWQ	SN	120	26	ES		1857	22.32-0.03								1.0

**July 21 2012 Hour: 20:45 0.0 Agency: REL Regional**  
**EMSC OT=20:44:29.0 36.63N 26.96E 160Km M=3.8 DODECANESE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		2046	17.73								
SHBL	BZ			EP		2046	18.07								

**July 22 2012 Hour: 9:26 53.2 Lat: 0.00N Lon: -0.00W Depth: 0 Agency: REL Regional**  
**EMSC OT=09:26:04.0 37.55N 36.38E 7Km M=4.6 CENTRAL TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		926	56.73								
BHL	BZ			EP		927	0.64								
DQRL	SZ			EP		927	5.26								
QRWL	SZ			EP		927	6.74								
RCY	SZ			EP		927	7.77								

**July 22 2012 Hour: 18: 4 32.7 Lat: 33.80N Lon: 35.76E Depth: 18 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
BHL	BZ	15	317	EP		18	4	36.57-0.01	44						1.0
BHL	BN	15	317	ES		18	4	39.44-0.01							1.0
DQRL	SZ	21	239	EP		18	4	37.26	0.04						1.0
DQRL	SN	21	239	ES		18	4	40.58	0.01						1.0
QRWL	SZ	30	195	EP		18	4	38.15-0.10							1.0
RCY	SZ	35	169	EP		18	4	39.02	0.02						1.0
RCY	SE	35	169	ES		18	4	43.68	0.01						1.0
SHBL	BZ	51	182	EP		18	4	41.24	0.00						1.0

SHBL	BN	51	182	ES		18	4	47.56	0.01										1.0
HWQ	SZ	55	18	EP		18	4	41.88	0.01										1.0

**July 22 2012 Hour: 23:20 51.9 Lat: 33.30N Lon: 35.57E Depth: 38 Agency: REL Local**  
**Magnitudes: 2.2MC REL Rms: 0.2 secs**

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	17	72	EP		2320	58.54	0.05							1.0
SHBL	BE	17	72	ES		2321	3.44	0.10							1.0
QRWL	SZ	29	21	EP		2320	59.13	-0.18	19						1.0
QRWL	SN	29	21	ES		2321	4.57	-0.19							1.0
DQRL	SZ	45	0	EP		2321	0.90	0.04							1.0
DQRL	SN	45	0	ES		2321	7.62	0.15							1.0
BHL	BZ	67	7	EP		2321	4.03	0.54							0.2

**July 24 2012 Hour: 8:10 17.4 Lat: 34.07N Lon: 35.69E Depth: 0 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.0 secs**

**KESROUANE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	189	EP		810	20.33	-0.05	50						1.0
BHL	BE	18	189	ES		810	22.49	-0.06							1.0
HWQ	SZ	34	46	EP		810	22.86	-0.02							1.0
HWQ	SE	34	46	ES		810	26.91	0.00							1.0
DQRL	SZ	41	195	EP		810	24.22	0.10							1.0
SHBL	BZ	80	176	EP		810	30.31	-0.00							1.0
SHBL	BN	80	176	ES		810	39.88	0.04							1.0

**July 24 2012 Hour: 14:37 33.2 Lat: 33.78N Lon: 35.74E Depth: 0 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	16	330	EP		1437	35.80	-0.07	37						1.0
BHL	BN	16	330	ES		1437	37.85	0.05							1.0
DQRL	SZ	18	243	EP		1437	36.14	-0.01							1.0
DQRL	SN	18	243	ES		1437	38.29	-0.00							1.0
QRWL	SZ	26	192	EP		1437	37.43	-0.05							1.0
QRWL	SN	26	192	ES		1437	40.58	-0.03							1.0
RCY	SZ	32	165	EP		1437	38.42	-0.06							1.0
RCY	SN	32	165	ES		1437	42.40	0.04							1.0
HWQ	SZ	59	19	EP		1437	42.70	0.01							1.0

**July 24 2012 Hour: 17:44 31.8 Lat: 33.81N Lon: 35.77E 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	15	317	EP		1744	35.33	0.01	37						1.0
DQRL	SZ	21	238	EP		1744	36.07	-0.01							1.0
DQRL	SN	21	238	ES		1744	39.21	-0.00							1.0
RCY	SZ	35	169	EP		1744	37.97	-0.04							1.0
RCY	SN	35	169	ES		1744	42.59	0.01							1.0
SHBL	BZ	51	182	EP		1744	40.34	-0.00							1.0
SHBL	BN	51	182	ES		1744	46.65	0.02							1.0
HWQ	SZ	55	18	EP		1744	41.04	0.11							0.2

**July 24 2012 Hour: 22:54 8.6 Agency: REL Regional**

**EMSC OT=22:53:41.0 38.76N 43.47E 2Km M=4.4 EASTERN TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2255	29.27								
BHL	BZ			EP		2255	37.48								
SHBL	BZ			EP		2255	40.88								

July 25 2012 Hour: 0:19 35.2 Agency: REL Distant

EMSC OT=00:27:42.0 2.72N 96.13E 2Km M=6.4 INDONESIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		038	18.01								
RCY	SZ			EP		038	18.85								
DQRL	SZ			EP		038	19.47								
BHL	BZ			EP		038	19.24								

July 25 2012 Hour: 10:23 9.5 Lat: 33.89N Lon: 35.82E Depth: 0 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	275	EP		1023	12.00	0.01	36						1.0
BHL	BN	15	275	ES		1023	13.80	-0.02							1.0
DQRL	SZ	31	228	EP		1023	14.56	0.04							1.0
DQRL	SN	31	228	ES		1023	18.22	-0.01							1.0
RCY	SZ	44	178	EP		1023	16.61	-0.01							1.0
RCY	SN	44	178	ES		1023	21.86	-0.01							1.0
HWQ	SZ	44	15	EP		1023	16.66	-0.01							1.0

July 25 2012 Hour: 16:32 42.4 Lat: 33.66N Lon: 35.93E Depth: 22 Agency: REL Local  
Magnitudes: 2.3MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	20	206	EP		1632	47.21	0.01	23						1.0
RCY	SN	20	206	ES		1632	50.74	-0.01							1.0
DQRL	SZ	34	279	EP		1632	48.78	0.00							1.0
DQRL	SE	34	279	ES		1632	53.49	0.00							1.0
BHL	BZ	37	317	EP		1632	49.26	-0.00							1.0
BHL	BN	37	317	ES		1632	54.34	0.00							1.0

July 26 2012 Hour: 16:24 47.4 Lat: 33.79N Lon: 35.77E 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
BHL	BZ	17	319	EP		1624	50.09	0.07	45						1.0
BHL	BE	17	319	ES		1624	51.96	-0.03							1.0
DQRL	SZ	21	243	EP		1624	50.73	-0.02							1.0
DQRL	SE	21	243	ES		1624	53.24	-0.02							1.0
QRWL	SZ	28	197	EP		1624	51.89	-0.05							1.0
QRWL	SE	28	197	ES		1624	55.36	0.03							1.0
RCY	SZ	33	170	EP		1624	52.76	0.02							1.0
RCY	SN	33	170	ES		1624	56.68	-0.04							1.0
HWQ	SZ	56	17	EP		1624	56.39	-0.03							1.0

July 27 2012 Hour: 15:14 36.9 Lat: 33.79N Lon: 35.78E 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
BHL	BZ	17	318	EP		1514	39.70	-0.02	29						1.0
BHL	BN	17	318	ES		1514	41.80	-0.01							1.0
DQRL	SZ	21	245	EP		1514	40.38	0.03							1.0
DQRL	SN	21	245	ES		1514	42.90	-0.00							1.0
RCY	SZ	33	171	EP		1514	42.13	-0.04							1.0
RCY	SN	33	171	ES		1514	46.07	0.01							1.0
HWQ	SZ	57	16	EP		1514	46.07	0.03							1.0

July 27 2012 Hour: 19:43 14.0 Lat: 33.31N Lon: 35.38E Depth: 0 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.0 secs

**SOUTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	35	82	EP		1943	19.56	0.02							1.0
SHBL	BN	35	82	ES		1943	23.65	-0.03							1.0
QRWL	SZ	39	47	EP		1943	20.28	-0.00							1.0
QRWL	SN	39	47	ES		1943	24.98	0.02							1.0
RCY	SZ	48	63	EP		1943	21.66	-0.01	35						1.0
RCY	SN	48	63	ES		1943	27.40	0.03							1.0
DQRL	SZ	48	22	EP		1943	21.71	0.02							1.0
DQRL	SN	48	22	ES		1943	27.40	-0.02							1.0
BHL	BZ	71	21	EP		1943	25.49	0.03							1.0
HWQ	SZ	120	26	EP		1943	33.29	-0.05							1.0

July 28 2012 Hour: 9: 5 18.4 Lat: 34.31N Lon: 36.59E Depth: 0 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
FKH	SZ	18	245	EP		9 5	21.23	-0.04	54						1.0
FKH	SN	18	245	ES		9 5	23.39	-0.02							1.0
HWQ	SZ	59	266	EP		9 5	27.88	-0.01							1.0
HWQ	SE	59	266	ES		9 5	34.94	-0.00							1.0
BHL	BZ	97	242	EP		9 5	34.16	0.10							1.0
SHBL	BZ	132	216	EP		9 5	39.69	-0.05							1.0
SHBL	BN	132	216	ES		9 5	55.56	0.01							1.0

July 28 2012 Hour: 11:14 7.2 Lat: 33.78N Lon: 35.78E Depth: 1 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	18	320	EP		1114	9.99	-0.04	29						1.0
BHL	BE	18	320	ES		1114	12.15	-0.01							1.0
DQRL	SZ	21	246	EP		1114	10.57	0.00							1.0
DQRL	SN	21	246	ES		1114	13.12	0.03							1.0
RCY	SZ	32	170	EP		1114	12.29	-0.08							1.0
RCY	SE	32	170	ES		1114	16.27	0.04							1.0
HWQ	SZ	57	16	EP		1114	16.45	0.06							1.0

July 28 2012 Hour: 16: 8 58.9 Lat: 33.76N Lon: 35.75E Depth: 0 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
DQRL	SZ	18	250	EP		16 9	1.85	0.02							1.0
DQRL	SN	18	250	ES		16 9	4.00	0.03							1.0
BHL	BZ	18	330	EP		16 9	1.82	-0.09	26						1.0
RCY	SZ	30	165	EP		16 9	3.82	-0.00							1.0
RCY	SE	30	165	ES		16 9	7.42	-0.02							1.0
HWQ	SZ	60	17	EP		16 9	8.72	0.07							1.0

July 28 2012 Hour: 23:29 50.6 Lat: 34.81N Lon: 34.33E Depth: 34 Agency: REL Regional  
Magnitudes: 4.5MC REL Rms: 0.6 secs

**EMSC OT=23:29:49.0 34.84N 34.37E 40Km M=4.4 CYPRUS REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	BZ	149	134	EP		2330	11.81	-0.29							1.0
BHL	BZ	157	129	EP		2330	12.75	-0.52	400						1.0
BHL	BE	157	129	ES		2330	29.20	-0.84							1.0
HWQ	SZ	159	111	EP		2330	13.77	0.25							1.0
DQRL	SZ	167	137	EP		2330	13.87	-0.58							1.0
QRWL	SZ	187	138	EP		2330	16.95	0.02							1.0
FKH	SZ	201	107	EP		2330	19.03	0.37							1.0
RCY	SZ	201	136	EP		2330	19.17	0.48							1.0
SHBL	BZ	207	141	EP		2330	20.10	0.55							1.0

July 29 2012 Hour: 2:18 5.7 Agency: REL Distant  
**EMSC OT=02:21:13.0 22.95N 94.34E 80Km M=5.7 MYANMAR**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 230 17.04  
 HWQ SZ EP 230 17.21  
 SHBL BZ EP 230 18.93

July 29 2012 Hour: 15:14 42.1 Lat: 33.79N Lon: 35.79E Depth: 11 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 17 314 EP 1514 45.53-0.03 36 1.0  
 DQRL SZ 23 244 EP 1514 46.22-0.04 1.0  
 DQRL SE 23 244 ES 1514 49.38 0.04 1.0  
 RCY SZ 33 173 EP 1514 47.89 0.03 1.0  
 RCY SE 33 173 ES 1514 52.11-0.02 1.0  
 HWQ SZ 56 15 EP 1514 51.30 0.02 1.0

July 30 2012 Hour: 11:55 26.2 Lat: 33.78N Lon: 35.77E Depth: 6 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 17 321 EP 1155 29.16 0.00 37 1.0  
 DQRL SZ 21 245 EP 1155 29.66 0.01 1.0  
 DQRL SE 21 245 ES 1155 32.24-0.00 1.0  
 RCY SZ 32 169 EP 1155 31.51-0.00 1.0  
 RCY SE 32 169 ES 1155 35.48 0.00 1.0  
 HWQ SZ 57 16 EP 1155 35.45-0.00 1.0

July 30 2012 Hour: 17:43 0.7 Lat: 33.78N Lon: 35.77E Depth: 0 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 17 322 EP 1743 3.37-0.08 42 1.0  
 DQRL SZ 20 245 EP 1743 3.99 0.04 1.0  
 DQRL SE 20 245 ES 1743 6.39 0.02 1.0  
 RCY SZ 32 169 EP 1743 5.89 0.01 1.0  
 RCY SE 32 169 ES 1743 9.76 0.02 1.0  
 SHBL BZ 48 183 EP 1743 8.47 0.02 1.0  
 SHBL BE 48 183 ES 1743 14.15-0.05 1.0  
 HWQ SZ 57 17 EP 1743 9.98 0.05 1.0

July 30 2012 Hour: 21:3 29.2 Lat: 33.34N Lon: 35.49E Depth: 25 Agency: REL Local  
**Magnitudes: 2.5MC 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 23 86 EP 21 3 34.75-0.04 1.0  
 SHBL BN 23 86 ES 21 3 38.95 0.05 1.0  
 QRWL SZ 29 37 EP 21 3 35.34-0.03 1.0  
 QRWL SE 29 37 ES 21 3 39.85-0.05 1.0  
 DQRL SZ 42 10 EP 21 3 36.88-0.00 29 1.0  
 DQRL SN 42 10 ES 21 3 42.57 0.03 1.0  
 BHL BZ 65 13 EP 21 3 40.07 0.04 1.0

July 30 2012 Hour: 22:30 2.8 Agency: REL Distant  
**EMSC OT=22:30:42.0 50.64N 87.40E 10Km M=5.0 SIBERIA, RUSSIA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ EP 2238 21.94  
 BHL BZ EP 2238 24.28  
 DQRL SZ EP 2238 26.83  
 SHBL BZ EP 2238 27.19

July 30 2012 Hour: 23:29 15.8 Lat: 33.35N Lon: 35.46E Depth: 0 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
SHBL	BZ	26	91	EP		2329	20.01	-0.01							1.0
SHBL	BN	26	91	ES		2329	23.17	0.00							1.0
QRWL	SZ	30	43	EP		2329	20.57	-0.03							1.0
QRWL	SN	30	43	ES		2329	24.19	0.02							1.0
RCY	SZ	38	65	EP		2329	21.96	-0.00	35						1.0
DQRL	SZ	41	14	EP		2329	22.25	-0.07							1.0
DQRL	SN	41	14	ES		2329	27.13	-0.03							1.0
BHL	BZ	64	16	EP		2329	26.16	0.09							1.0
HWQ	SZ	112	23	EP		2329	33.90	0.04							1.0

July 31 2012 Hour: 2:13 36.7 Lat: 33.39N Lon: 35.62E 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	13	112	EP		213	39.48	-0.04							1.0
SHBL	BN	13	112	ES		213	41.61	0.03							1.0
QRWL	SZ	18	20	EP		213	40.12	-0.07							1.0
QRWL	SN	18	20	ES		213	42.75	0.00							1.0
RCY	SZ	24	60	EP		213	40.99	0.03	30						1.0
RCY	SN	24	60	ES		213	44.09	-0.00							1.0
DQRL	SZ	35	353	EP		213	42.73	0.06							1.0

July 31 2012 Hour: 17:29 44.9 Lat: 33.50N Lon: 35.59E Depth: 7 Agency: REL Local  
 Magnitudes: 2.2MC 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	10	60	EP		1729	46.97	0.01	21						1.0
QRWL	SN	10	60	ES		1729	48.48	-0.01							1.0
SHBL	BZ	22	141	EP		1729	48.77	0.00							1.0
RCY	SZ	23	92	EP		1729	48.81	-0.00							1.0
RCY	SE	23	92	ES		1729	51.71	-0.00							1.0

July 31 2012 Hour: 23:10 37.6 Agency: REL Regional  
 EMSC OT=23:12:13.0 38.69N 43.09E 19Km M=4.3 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2314	2.73								
BHL	BZ			EP		2314	12.46								
DQRL	SZ			EP		2314	11.51								
SHBL	BZ			EP		2314	12.20								





# Epicentral Map of Lebanon

## JULY 2012

- Magnitudes**
- MI = 2
  - MI = 3
  - MI = 4
  - MI = 5
  - ★ Felt

