

Republic of Lebanon  
National Council for Scientific Research

# Provisional Seismological Bulletin

from the

## NATIONAL SEISMIC NETWORK

June

2012

Prepared by  
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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	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 ( $0.5 \times (\text{peak to peak})$ ), (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.

June 1 2012 Hour: 9:17 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		917	23.96								
HWQ	BZ			EP		917	23.46								

June 1 2012 Hour: 18:19 22.0

Lat: 33.80N Lon: 35.76E Depth: 8 Agency: REL Local

Magnitudes: 2.8MC 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	320	EP		1819	24.86	-0.05	45						1.0
DQRL	SZ	20	241	EP		1819	25.65	0.06							1.0
DQRL	SN	20	241	ES		1819	28.26	0.01							1.0
BEYL	BZ	26	289	EP		1819	26.61	0.17							0.2
QRWL	SZ	29	195	EP		1819	26.64	-0.17							1.0
QRWL	SE	29	195	ES		1819	30.39	0.02							1.0
RCY	SZ	34	168	EP		1819	27.69	0.03							1.0
QRTL	BZ	34	14	EP		1819	27.76	0.12							1.0
SHBL	BZ	50	182	EP		1819	30.23	0.09							1.0
SHBL	BN	50	182	ES		1819	36.16	-0.01							1.0
HWQ	SZ	56	18	EP		1819	31.08	-0.09							1.0

June 2 2012 Hour: 7:22 49.7

Lat: 33.88N Lon: 35.83E Depth: 4 Agency: REL Local

Magnitudes: 2.8MC 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	280	EP		722	52.49	-0.04	47						1.0
BHL	BN	16	280	ES		722	54.55	-0.03							1.0
QRTL	BZ	24	5	EP		722	53.70	0.04							1.0
DQRL	SZ	31	231	EP		722	54.78	0.01							1.0
DQRL	SN	31	231	ES		722	58.56	0.07							1.0
RCY	SZ	42	179	EP		722	56.51	-0.13							1.0
RCY	SN	42	179	ES		723	1.81	0.06							1.0
HWQ	BZ	46	14	EP		722	57.18	0.03							1.0

June 2 2012 Hour: 7:54 55.5

Lat: 34.03N Lon: 35.77E Depth: 0 Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.1 secs

KESROUANE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	217	EP		754	58.34	-0.10	54						1.0
BHL	BN	18	217	ES		755	0.61	0.01							1.0
HWQ	BZ	32	31	EP		755	0.64	0.03							1.0
DQRL	SZ	41	207	EP		755	2.16	0.03							1.0
DQRL	SN	41	207	ES		755	7.09	0.07							1.0
RCY	SZ	60	174	EP		755	5.17	-0.03							1.0
RCY	SN	60	174	ES		755	12.36	-0.00							1.0

June 2 2012 Hour: 15:20 19.8

Lat: 33.79N Lon: 35.78E 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	17	319	EP		1520	22.53	-0.03	34						1.0
BHL	BN	17	319	ES		1520	24.60	-0.01							1.0
DQRL	SZ	21	244	EP		1520	23.19	-0.00							1.0
DQRL	SN	21	244	ES		1520	25.75	0.04							1.0
RCY	SZ	33	170	EP		1520	25.10	0.01							1.0
RCY	SN	33	170	ES		1520	29.04	0.03							1.0
QRTL	BZ	34	12	EP		1520	25.31	-0.05							1.0
SHBL	BZ	49	183	EP		1520	27.65	-0.02							1.0
SHBL	BN	49	183	ES		1520	33.45	-0.05							1.0
HWQ	BZ	57	16	EP		1520	29.03	0.09							1.0

June 3 2012 Hour: 12:38 24.7 Lat: 33.49N Lon: 35.65E Depth: 0 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	7	22	EP		1238	25.76	-0.02	22						1.0
QRWL	SN	7	22	ES		1238	26.59	-0.03							1.0
RCY	SZ	17	87	EP		1238	27.43	0.05							1.0
RCY	SN	17	87	ES		1238	29.40	0.00							1.0
SHBL	BZ	18	152	EP		1238	27.48	-0.05							1.0
SHBL	BN	18	152	ES		1238	29.66	0.01							1.0
DQRL	SZ	25	342	EP		1238	28.76	0.04							1.0

June 3 2012 Hour: 14:32 50.2 Lat: 33.79N Lon: 35.77E Depth: 4 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		1432	52.97	0.00	29						1.0
DQRL	SZ	21	243	EP		1432	53.70	0.03							1.0
DQRL	SN	21	243	ES		1432	56.23	-0.02							1.0
RCY	SZ	33	170	EP		1432	55.61	-0.04							1.0
RCY	SN	33	170	ES		1432	59.71	0.02							1.0
QRTL	BZ	34	12	EP		1432	55.71	-0.02							1.0
HWQ	BZ	56	17	EP		1432	59.31	0.02							1.0

June 3 2012 Hour: 19:20 44.5 Agency: REL Distant  
EMSC OT=19:20:44.5 44.95N 11.00E 10Km M=4.9 NORTHERN ITALY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1925	39.86								
HWQ	BZ			EP		1925	39.91								
SHBL	BZ			EP		1925	41.78								

June 4 2012 Hour: 6:50 37.0 Lat: 34.27N Lon: 36.39E Depth: 0 Agency: REL Local  
Magnitudes: 3.1MC REL Rms: 0.1 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	3	145	EP		650	37.71	0.08							1.0
HWQ	SZ	41	272	EP		650	43.60	-0.03	72						1.0
HWQ	SN	41	272	ES		650	48.50	-0.00							1.0
QRTL	BZ	54	249	EP		650	45.66	-0.01							1.0
BHL	BZ	79	239	EP		650	49.80	0.02							1.0
BHL	BE	79	239	ES		650	59.25	0.04							1.0
DQRL	SZ	98	231	EP		650	52.95	0.08							1.0
DQRL	SN	98	231	ES		651	4.63	0.05							1.0
RCY	SZ	100	211	EP		650	52.87	-0.27							1.0
QRWL	SZ	103	219	EP		650	53.64	-0.06							1.0

June 4 2012 Hour: 7: 5 12.6 Lat: 34.25N Lon: 36.39E Depth: 0 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	2	116	EP		7 5	13.10	0.02							1.0
HWQ	SZ	41	274	EP		7 5	19.28	0.01	58						1.0
HWQ	SN	41	274	ES		7 5	24.18	0.00							1.0
QRTL	BZ	53	251	EP		7 5	21.02	-0.17							1.0
BHL	BZ	78	241	EP		7 5	25.37	0.11							1.0
DQRL	SZ	97	232	EP		7 5	28.44	0.13							1.0
RCY	SZ	98	212	EP		7 5	28.39	-0.11							1.0
RCY	SN	98	212	ES		7 5	40.21	-0.03							1.0
QRWL	SZ	102	220	EP		7 5	29.08	-0.02							1.0
QRWL	SN	102	220	ES		7 5	41.32	0.04							1.0

**June 4 2012 Hour: 11:18 16.0** Agency: REL Distant  
**EMSC OT=11:18:16.0 7.69S 106.40E 80Km M=5.8 INDONESIA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 1130 9.71  
 HWQ BZ EP 1130 10.31  
 BHL BZ EP 1130 11.21  
 DQRL SZ EP 1130 11.63

**June 4 2012 Hour: 14:13 39.6** Lat: 33.87N Lon: 35.83E Depth: 5 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 16 283 EP 1413 42.42-0.06 36 1.0  
 BHL BN 16 283 ES 1413 44.60 0.00 1.0  
 QRTL BZ 25 5 EP 1413 43.77 0.03 1.0  
 DQRL SZ 30 232 EP 1413 44.59 0.01 1.0  
 DQRL SN 30 232 ES 1413 48.28 0.03 1.0  
 RCY SZ 42 179 EP 1413 46.39-0.03 1.0  
 RCY SN 42 179 ES 1413 51.46 0.01 1.0  
 HWQ BZ 47 14 EP 1413 47.21 0.01 1.0

**June 4 2012 Hour: 14:19 53.0** Agency: REL Regional  
**EMSC OT=14:19:53.0 36.94N 28.16E 6Km M=4.7 DODECANESE, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ EP 1421 33.97  
 QRTL BZ EP 1421 33.40  
 QRWL SZ EP 1421 35.50  
 RCY SZ EP 1421 37.21

**June 4 2012 Hour: 17:14 16.7** Lat: 34.02N Lon: 35.91E Depth: 9 Agency: REL Local  
**Magnitudes: 2.7MC REL** Rms: 0.1 secs  
**KESROUANE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 QRTL BZ 9 327 EP 1714 19.08 0.04 1.0  
 BHL BZ 27 241 EP 1714 21.24-0.13 39 1.0  
 BHL BN 27 241 ES 1714 24.81 0.01 1.0  
 HWQ BZ 29 7 EP 1714 21.67-0.03 1.0  
 DQRL SZ 47 222 EP 1714 24.50 0.02 1.0  
 DQRL SN 47 222 ES 1714 30.27 0.06 1.0  
 FKH SZ 53 62 EP 1714 25.44 0.02 1.0  
 RCY SZ 59 186 EP 1714 26.39 0.04 1.0  
 RCY SN 59 186 ES 1714 33.38-0.09 1.0  
 SHBL BZ 76 191 EP 1714 29.19 0.04 1.0  
 SHBL BN 76 191 ES 1714 38.35 0.02 1.0

**June 5 2012 Hour: 11: 1 20.0** Agency: REL Distant  
**EMSC OT=11:01:20.0 5.58N 94.68E 50Km M=5.6 INDONESIA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 1111 30.70  
 HWQ BZ EP 1111 30.99  
 QRTL BZ EP 1111 31.50  
 BHL BZ EP 1111 32.02  
 DQRL SZ EP 1111 32.60

**June 5 2012 Hour: 15:16 0.0** Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 1516 57.47  
 SHBL BZ EP 1516 55.09

June 5 2012 Hour: 15:28 0.6 Lat: 33.08N Lon: 35.83E Depth: 14 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	31	345	EP		1528	6.21	-0.01	28						1.0
SHBL	BN	31	345	ES		1528	10.41	0.00							1.0
RCY	SZ	47	1	EP		1528	8.49	0.03							1.0
RCY	SN	47	1	ES		1528	14.29	-0.02							1.0
QRWL	SZ	54	345	EP		1528	9.49	-0.02							1.0
QRWL	SN	54	345	ES		1528	16.16	0.01							1.0

June 5 2012 Hour: 16:15 15.6 Lat: 33.13N Lon: 35.74E Depth: 6 Agency: REL Local  
Magnitudes: 2.9MC 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	24	2	EP		1615	19.82	0.16							1.0
SHBL	BN	24	2	ES		1615	22.66	0.01							1.0
RCY	SZ	41	13	EP		1615	22.29	-0.10							1.0
RCY	SN	41	13	ES		1615	27.40	-0.00							1.0
QRWL	SZ	46	354	EP		1615	23.16	0.01							1.0
QRWL	SN	46	354	ES		1615	28.71	-0.01							1.0
DQRL	SZ	65	346	EP		1615	26.23	0.03							1.0
DQRL	SN	65	346	ES		1615	34.04	0.00							1.0
BHL	BZ	86	355	EP		1615	29.37	-0.13	49						1.0
QRTL	BZ	107	6	EP		1615	32.85	0.06							1.0
HWQ	BZ	128	9	EP		1615	35.97	-0.01							1.0

June 5 2012 Hour: 17:19 54.9 Lat: 33.80N Lon: 35.78E Depth: 13 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	315	EP		1719	58.48	0.00	40						1.0
DQRL	SZ	22	242	EP		1719	59.23	0.03							1.0
DQRL	SN	22	242	ES		1720	2.35	-0.02							1.0
RCY	SZ	34	171	EP		1720	0.93	-0.02							1.0
RCY	SN	34	171	ES		1720	5.41	0.01							1.0
SHBL	BZ	50	184	EP		1720	3.34	-0.01							1.0
SHBL	BN	50	184	ES		1720	9.59	0.01							1.0
HWQ	SZ	55	16	EP		1720	4.01	-0.05							0.2

June 5 2012 Hour: 17:30 2.2 Lat: 33.32N Lon: 35.48E Depth: 0 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	25	84	EP		1730	6.21	0.05							1.0
SHBL	BN	25	84	ES		1730	9.11	-0.01							1.0
QRWL	SZ	31	37	EP		1730	7.16	-0.03							1.0
QRWL	SN	31	37	ES		1730	10.90	-0.01							1.0
RCY	SZ	38	60	EP		1730	8.34	0.00	37						1.0
RCY	SN	38	60	ES		1730	12.90	-0.01							1.0
DQRL	SZ	43	11	EP		1730	9.05	-0.08							1.0
DQRL	SN	43	11	ES		1730	14.33	0.05							1.0
BHL	BZ	66	14	EP		1730	12.87	0.00							1.0
QRTL	BZ	92	22	EP		1730	17.00	0.03							1.0
HWQ	BZ	114	22	EP		1730	20.75	0.15							0.2

June 5 2012 Hour: 17:42 25.2 Lat: 33.79N Lon: 35.76E Depth: 0 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	322	EP		1742	27.84	-0.01	50						1.0
DQRL	SZ	20	244	EP		1742	28.45	0.02							1.0
DQRL	SN	20	244	ES		1742	30.84	-0.01							1.0



RCY	SZ	33	169	EP		1742	30.45	-0.03									1.0
RCY	SN	33	169	ES		1742	34.40	-0.01									1.0
QRTL	BZ	35	13	EP		1742	30.76	-0.01									1.0
SHBL	BZ	49	182	EP		1742	33.01	-0.02									1.0
SHBL	BN	49	182	ES		1742	38.88	0.04									1.0
HWQ	SZ	57	17	EP		1742	34.38	0.02									1.0

**June 5 2012 Hour: 19:37 55.5 Lat: 33.09N Lon: 35.76E Depth: 18 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
SHBL	BZ	29	356	EP		1938	1.09	-0.02							1.0
SHBL	BN	29	356	ES		1938	5.23	0.00							1.0
RCY	SZ	46	8	EP		1938	3.45	0.03	37						1.0
RCY	SN	46	8	ES		1938	9.24	-0.01							1.0
QRWL	SZ	52	351	EP		1938	4.21	0.00							1.0
QRWL	SN	52	351	ES		1938	10.63	0.01							1.0
DQRL	SZ	71	345	EP		1938	7.05	0.03							1.0
BHL	BZ	91	354	EP		1938	9.94	-0.05							1.0

**June 5 2012 Hour: 19:31 33.0 Agency: REL Distant**  
**EMSC OT=19:31:33.0 35.08N 141.20E 10km M=6.1 JAPAN**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1943	52.89								
QRTL	BZ			EP		1943	54.00								
BHL	BZ			EP		1943	55.36								
RCY	SZ			EP		1943	56.60								
QRWL	SZ			EP		1943	56.35								
SHBL	BZ			EP		1943	57.40								

**June 5 2012 Hour: 23:24 14.2 Lat: 33.29N Lon: 35.75E Depth: 5 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
SHBL	BZ	6	353	EP		2324	15.86	0.07							0.2
RCY	SZ	24	19	EP		2324	18.26	-0.02	39						1.0
RCY	SN	24	19	ES		2324	21.27	-0.00							1.0
QRWL	SZ	29	347	EP		2324	19.08	0.02							1.0
QRWL	SN	29	347	ES		2324	22.61	-0.02							1.0
DQRL	SZ	49	340	EP		2324	22.20	-0.01							1.0
DQRL	SN	49	340	ES		2324	28.12	0.02							1.0
BHL	BZ	69	352	EP		2324	25.28	-0.07							1.0
QRTL	BZ	89	6	EP		2324	28.74	0.07							1.0
HWQ	BZ	111	9	EP		2324	32.08	-0.01							1.0

**June 6 2012 Hour: 1: 8 35.0 Agency: REL Distant**  
**EMSC OT=01:08:35.0 22.40N 121.42E 20Km M=5.6 TAIWAN REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ			EP		120	11.96								
BHL	BZ			EP		120	12.79								
RCY	SZ			EP		120	12.97								
SHBL	BZ			EP		120	13.99								

**June 6 2012 Hour: 11:55 42.5 Lat: 34.58N Lon: 36.15E Depth: 4 Agency: REL Local**  
**Magnitudes: 3.0MC REL Rms: 0.1 secs**

**AKKAR**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ	5	140	EP		1155	43.53	-0.06							1.0
BENL	BN	5	140	ES		1155	44.44	0.03							1.0
HWQ	BZ	38	210	EP		1155	48.59	-0.07							1.0
HWQ	BN	38	210	ES		1155	53.29	0.06							1.0
QRTL	BZ	60	207	EP		1155	52.24	-0.01							1.0
QRTL	BN	60	207	ES		1155	59.45	-0.03							1.0
BHL	BZ	87	212	EP		1155	56.66	0.07	57						1.0

DQRL	SZ	110	209	EP		1156	0.24-0.05										1.0
RCY	SZ	123	194	EP		1156	2.37 0.11										1.0
RCY	SN	123	194	ES		1156	16.83-0.06										1.0

**June 6 2012 Hour: 12:19 3.5 Lat: 34.02N Lon: 36.44E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.2MC REL Rms: 0.1 secs**

**HERMEL BAALBEK REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BORL	BZ	22	258	EP		1219	6.93-0.11								1.0
BORL	BN	22	258	ES		1219	9.62-0.01								1.0
HWQ	BZ	54	303	EP		1219	12.21-0.01								1.0
HWQ	BN	54	303	ES		1219	18.58-0.05								1.0
TZHL	BZ	54	251	EP		1219	12.30 0.03								1.0
QRTL	BZ	55	279	EP		1219	12.48 0.08								1.0
QRTL	BN	55	279	ES		1219	18.99 0.03								1.0
SAWL	BZ	62	233	EP		1219	13.67 0.06								1.0
BHL	BZ	74	260	EP		1219	15.48 0.08								1.0
RCY	SZ	80	224	EP		1219	16.43-0.07		71						1.0
RCY	SN	80	224	ES		1219	26.08-0.01								1.0
DQRL	SZ	87	247	EP		1219	17.63-0.01								1.0

**June 6 2012 Hour: 23: 3 31.4 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	19	313	EP		23 3	34.45 0.02		49						1.0
BHL	BN	19	313	ES		23 3	36.62-0.03								1.0
DQRL	SZ	23	247	EP		23 3	35.21 0.02								1.0
DQRL	SE	23	247	ES		23 3	38.03 0.06								1.0
QRWL	SZ	29	202	EP		23 3	35.99-0.11								1.0
QRWL	SN	29	202	ES		23 3	39.49-0.07								1.0
VERD	SZ	31	289	EP		23 3	36.46-0.02								1.0
RCY	SZ	33	174	EP		23 3	36.70 0.00								1.0
RCY	SN	33	174	ES		23 3	40.60 0.00								1.0
QRTL	BZ	34	8	EP		23 3	36.83-0.06								1.0
SHBL	BZ	49	186	EP		23 3	39.44 0.08								1.0
HWQ	SZ	56	14	EP		23 3	40.49 0.06								1.0

**June 7 2012 Hour: 9: 1 54.0 Agency: REL Distant**

**EMSC OT=09:01:54.0 20.14S 176.35W 300Km M=5.8 FIJI REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		921	6.24								
QRTL	BZ			EP		921	6.67								
RCY	SZ			EP		921	7.54								
BHL	BZ			EP		921	7.41								
SHBL	BZ			EP		921	7.89								
DQRL	SZ			EP		921	8.02								

**June 7 2012 Hour: 11:40 0.0 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1141	18.95								
RCY	SZ			EP		1141	14.36								

**June 7 2012 Hour: 17:19 14.1 Lat: 33.79N Lon: 35.78E 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	18	318	EP		1719	16.97 0.02		33						1.0
DQRL	SZ	22	246	EP		1719	17.59-0.01								1.0
DQRL	SN	22	246	ES		1719	20.18-0.01								1.0
RCY	SZ	33	171	EP		1719	19.39 0.03								1.0
RCY	SN	33	171	ES		1719	23.23-0.02								1.0
QRTL	BZ	34	10	EP		1719	19.69 0.04								1.0
HWQ	BZ	57	15	EP		1719	23.23 0.01								1.0

HWQ BN 57 15 ES 1719 29.93-0.04 1.0

**June 8 2012 Hour: 3:41 36.3 Lat: 33.32N Lon: 35.41E Depth: 4 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	31	83	EP		341	41.30	-0.05							1.0
SHBL	BN	31	83	ES		341	45.12	0.02							1.0
QRWL	SZ	36	44	EP		341	42.12	0.00							1.0
QRWL	SN	36	44	ES		341	46.46	0.03							1.0
RCY	SZ	44	63	EP		341	43.51	0.07	61						1.0
RCY	SN	44	63	ES		341	48.68	-0.06							1.0
DQRL	SZ	46	19	EP		341	43.66	-0.02							1.0
DQRL	SN	46	19	ES		341	49.16	0.00							1.0
BHL	BZ	69	19	EP		341	47.35	-0.08							1.0
QRTL	BZ	95	25	EP		341	51.73	0.09							1.0
HWQ	BZ	118	25	EP		341	55.23	-0.00							1.0

**June 8 2012 Hour: 7:32 58.8 Lat: 33.88N Lon: 35.83E 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	16	278	EP		733	1.42	-0.02	46						1.0
BHL	BN	16	278	ES		733	3.38	0.00							1.0
QRTL	BZ	23	5	EP		733	2.56	0.02							1.0
DQRL	SZ	31	230	EP		733	3.87	0.04							1.0
DQRL	SE	31	230	ES		733	7.51	-0.03							1.0
RCY	SZ	43	179	EP		733	5.67	-0.10							1.0
RCY	SN	43	179	ES		733	10.92	0.01							1.0
HWQ	SZ	45	14	EP		733	6.06	-0.02							1.0

**June 8 2012 Hour: 8:9 44.5 Lat: 33.54N Lon: 35.71E Depth: 0 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
QRWL	SZ	3	291	EP		8 9	44.86	-0.07							1.0
QRWL	SN	3	291	ES		8 9	45.28	0.00							1.0
RCY	SZ	13	112	EP		8 9	46.49	-0.03	42						1.0
RCY	SN	13	112	ES		8 9	48.03	-0.00							1.0
SHBL	BZ	21	171	EP		8 9	47.96	0.04							1.0
SHBL	BN	21	171	ES		8 9	50.48	0.00							1.0
DQRL	SZ	23	325	EP		8 9	48.15	0.04							1.0
DQRL	SN	23	325	ES		8 9	50.83	0.02							1.0

**June 8 2012 Hour: 16:31 50.2 Lat: 33.78N Lon: 35.79E Depth: 0 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	316	EP		1631	53.15	-0.02	57						1.0
BHL	BN	18	316	ES		1631	55.36	0.02							1.0
DQRL	SZ	22	247	EP		1631	53.80	-0.02							1.0
DQRL	SN	22	247	ES		1631	56.47	0.01							1.0
QRWL	SZ	28	201	EP		1631	54.62	-0.17							1.0
QRWL	SN	28	201	ES		1631	58.19	0.04							1.0
BEYL	BZ	29	289	EP		1631	54.95	0.03							0.2
RCY	SZ	32	172	EP		1631	55.43	-0.03							1.0
RCY	SN	32	172	ES		1631	59.31	-0.01							1.0
QRTL	BZ	34	9	EP		1631	55.83	0.04							1.0
HWQ	SZ	57	15	EP		1631	59.33	-0.02							0.2

**June 8 2012 Hour: 21:18 53.9 Lat: 33.78N Lon: 35.81E Depth: 1 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	21	314	EP		2118	57.16	-0.05	38						1.0
DQRL	SZ	24	251	EP		2118	57.77	0.03							1.0
QRWL	SZ	28	206	EP		2118	58.42	-0.00							1.0
QRWL	SN	28	206	ES		2119	1.82	0.03							1.0
RCY	SZ	31	176	EP		2118	58.90	-0.01							1.0
RCY	SN	31	176	ES		2119	2.58	-0.05							1.0
BEYL	BZ	32	290	EP		2118	58.96	0.00							1.0
QRTL	BZ	35	6	EP		2118	59.58	0.01							1.0
SHBL	BZ	48	188	EP		2119	1.64	0.03							1.0
SHBL	BN	48	188	ES		2119	7.38	0.05							1.0
HWQ	SZ	57	12	EP		2119	3.13	0.04							1.0

**June 9 2012 Hour: 16: 0 33.5 Lat: 33.78N Lon: 35.73E Depth: 14 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	333	EP		16 0	37.01	0.02	26						1.0
BHL	BN	15	333	ES		16 0	39.60	0.00							1.0
DQRL	SZ	17	241	EP		16 0	37.16	-0.01							1.0
DQRL	SN	17	241	ES		16 0	39.91	0.00							1.0
RCY	SZ	33	163	EP		16 0	39.39	0.02							1.0
RCY	SN	33	163	ES		16 0	43.73	-0.01							1.0
QRTL	BZ	36	18	EP		16 0	39.75	-0.06							1.0
HWQ	BZ	59	20	EP		16 0	43.16	0.05							1.0

**June 9 2012 Hour: 21: 0 18.0 Agency: REL Distant**  
**EMSC OT=21:00:18.0 24.56N 122.29E 74Km M=5.9 TAIWAN REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2111	45.68								
QRTL	BZ			EP		2111	46.52								
BHL	BZ			EP		2111	47.61								
RCY	SZ			EP		2111	48.29								
DQRL	SZ			EP		2111	48.60								
QRWL	SZ			EP		2111	48.55								
SHBL	BZ			EP		2111	48.81								

**June 10 2012 Hour: 2: 8 18.0 Agency: REL Regional**  
**EMSC OT=02:08:18.0 34.80N 32.99E 15Km M=3.3 CYPRUS REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ			EP		2 8	58.31								
HWQ	BZ			EP		2 8	58.52								
SHBL	BZ			EP		2 9	2.92								

**June 10 2012 Hour: 9:18 26.3 Lat: 33.78N Lon: 35.81E 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	20	314	EP		918	29.82	0.03	42						1.0
BHL	BN	20	314	ES		918	32.37	-0.00							1.0
DQRL	SZ	24	249	EP		918	30.33	-0.02							1.0
DQRL	SN	24	249	ES		918	33.32	-0.02							1.0
QRWL	SZ	28	204	EP		918	31.09	0.01							1.0
QRWL	SN	28	204	ES		918	34.64	0.03							1.0
RCY	SZ	32	175	EP		918	31.59	-0.02							1.0
RCY	SN	32	175	ES		918	35.53	-0.01							1.0
QRTL	BZ	35	6	EP		918	32.06	-0.03							1.0
HWQ	BZ	57	13	EP		918	35.58	0.02							1.0

June 10 2012 Hour: 12:44 16.0

Agency: REL Regional

EMSC OT=12:44:16.0 36.36N 28.93E 30Km M=5.9 DODECANESE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	BZ			EP		1245	40.65								
BHL	BZ			EP		1245	41.87								
DQRL	SZ			EP		1245	42.90								
HWQ	BZ			EP		1245	44.26								
QRWL	SZ			EP		1245	45.42								
SHBL	BZ			EP		1245	47.53								
RCY	SZ			EP		1245	47.76								
FKH	SZ			EP		1245	49.92								

June 10 2012 Hour: 18:28 33.0

Agency: REL Regional

EMSC OT=18:28:33.0 36.39N 29.02E 20Km M=4.5 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1829	58.43								
DQRL	SZ			EP		1829	59.17								
QRTL	BZ			EP		1830	0.56								
HWQ	BZ			EP		1830	0.70								
QRWL	SZ			EP		1830	2.49								
RCY	SZ			EP		1830	3.95								
SHBL	BZ			EP		1830	3.91								
FKH	SZ			EP		1830	6.14								

June 10 2012 Hour: 22:31 45.0

Agency: REL Regional

EMSC OT=22:31:45.0 36.39N 28.99E 15Km M=3.9 DODECANESE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2233	12.27								
QRTL	BZ			EP		2233	12.51								
HWQ	BZ			EP		2233	13.22								
SHBL	BZ			EP		2233	16.20								

June 11 2012 Hour: 2: 6 35.0

Agency: REL Regional

EMSC OT=02:06:35.0 36.33N 29.05E 10Km M=4.3 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2 8	0.71								
QRTL	BZ			EP		2 8	2.16								
HWQ	BZ			EP		2 8	2.61								
RCY	SZ			EP		2 8	5.44								
SHBL	BZ			EP		2 8	5.48								
FKH	SZ			EP		2 8	7.84								

June 11 2012 Hour: 9:52 1.2

Lat: 33.86N

Lon: 35.86E

Depth: 5

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	20	284	EP		952	4.60-0.02	36							1.0
BHL	BN	20	284	ES		952	7.13-0.01								1.0
DQRL	SZ	32	238	EP		952	6.53 0.00								1.0
DQRL	SN	32	238	ES		952	10.47 0.01								1.0
RCY	SZ	41	184	EP		952	7.87 0.00								1.0
RCY	SN	41	184	ES		952	12.79-0.00								1.0
HWQ	BZ	47	9	EP		952	8.86 0.02								1.0

June 11 2012 Hour: 13:57 37.7

Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		14 1	43.77								
HWQ	BZ			EP		14 1	44.84								
QRTL	BZ			EP		14 1	44.65								
RCY	SZ			EP		14 1	48.04								
SHBL	BZ			EP		14 1	47.95								

June 11 2012 Hour: 19:51 5.0 Agency: REL Regional

EMSC OT=19:51:05.0 36.31N 29.03E 10Km M=4.3 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1952	30.96								
DQRL	SZ			EP		1952	31.69								
QRTL	BZ			EP		1952	33.13								
HWQ	BZ			EP		1952	33.52								
QRWL	SZ			EP		1952	34.81								
RCY	SZ			EP		1952	36.48								
SHBL	BZ			EP		1952	36.58								

June 12 2012 Hour: 1:48 13.9 Lat: 34.00N Lon: 35.77E Depth: 15 Agency: REL Local  
Magnitudes: 2.4MC REL Rms: 0.0 secs

KESROUANE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	224	EP		148	17.53	-0.02	26						1.0
BHL	BN	15	224	ES		148	20.26	0.01							1.0
HWQ	SZ	35	28	EP		148	20.02	-0.01							1.0
HWQ	SN	35	28	ES		148	24.57	0.01							1.0
DQRL	SZ	38	209	EP		148	20.53	0.02							1.0
DQRL	SN	38	209	ES		148	25.39	-0.01							1.0
SHBL	BZ	73	182	EP		148	25.63	-0.00							1.0

June 12 2012 Hour: 15:10 9.3 Lat: 33.88N Lon: 35.84E Depth: 7 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	279	EP		1510	12.28	-0.06	44						1.0
BHL	BN	17	279	ES		1510	14.60	0.02							1.0
QRTL	BZ	23	3	EP		1510	13.32	0.02							1.0
DQRL	SZ	31	232	EP		1510	14.55	0.01							1.0
DQRL	SN	31	232	ES		1510	18.42	0.02							1.0
RCY	SZ	43	180	EP		1510	16.33	0.00							1.0
RCY	SN	43	180	ES		1510	21.51	-0.01							1.0
HWQ	SZ	45	13	EP		1510	16.72	0.00							1.0

June 12 2012 Hour: 21:58 12.0 Agency: REL Regional

EMSC OT=21:58:12.0 36.38N 28.98E 30Km M=4.4 DODECANESE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2159	37.55								
DQRL	SZ			EP		2159	38.31								
HWQ	SZ			EP		2159	40.14								
SHBL	BZ			EP		2159	42.99								
RCY	SZ			EP		2159	43.03								

June 13 2012 Hour: 8:59 7.0 Agency: REL Regional

EMSC OT=08:59:07.0 36.38N 28.97E 20Km M=4.4 DODECANESE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		9	0	35.96							
QRTL	BZ			EP		9	0	35.47							
RCY	SZ			EP		9	0	38.90							

June 13 2012 Hour: 15:39 53.8 Lat: 33.78N Lon: 35.79E Depth: 1 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	317	EP		1539	56.73	-0.03	47						1.0
BHL	BN	18	317	ES		1539	58.95	0.01							1.0
DQRL	SZ	22	246	EP		1539	57.41	0.03							1.0
DQRL	SN	22	246	ES		1540	0.02	-0.01							1.0
RCY	SZ	32	172	EP		1539	59.05	0.00							1.0
SHBL	BZ	49	185	EP		1540	1.65	-0.02							1.0
SHBL	BN	49	185	ES		1540	7.49	0.01							1.0

HWQ SZ 57 15 EP 1540 2.96 0.01

1.0

**June 14 2012 Hour: 0:24 48.0**

**Agency: REL Regional**

**EMSC OT=00:24:48.0 35.54N 29.74E 10Km M=3.5 EAST MED SEA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		025	30.36								
DQRL	SZ			EP		025	30.59								
QRTL	BZ			EP		025	31.78								
SHBL	BZ			EP		025	35.87								

**June 14 2012 Hour: 5:52 54.0**

**Agency: REL Regional**

**EMSC OT=05:52:54.0 37.21N 42.47E 10Km M=5.3 TURKEY-SYRIA-IRAQ**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		554	19.59								
HWQ	SZ			EP		554	24.05								
QRTL	BZ			EP		554	26.39								
BHL	BZ			EP		554	29.40								
DQRL	SZ			EP		554	32.26								
QRWL	SZ			EP		554	32.73								
SHBL	BZ			EP		554	33.46								

**June 14 2012 Hour: 8: 6 59.0**

**Agency: REL Regional**

**EMSC OT=08:06:59.0 35.08N 33.78E 30Km M=3.5 CYPRUS REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ			EP		8 7	27.70								
HWQ	SZ			EP		8 7	27.79								
RCY	SZ			EP		8 7	32.56								

**June 14 2012 Hour: 16:47 5.9**

**Agency: REL Regional**

**EMSC OT=16:47:05.9 36.27N 29.09E 10Km M=4.7 WESTERN TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1647	30.83								
DQRL	SZ			EP		1647	31.66								
QRTL	BZ			EP		1647	33.14								
HWQ	SZ			EP		1647	33.56								
QRWL	SZ			EP		1647	34.70								
RCY	SZ			EP		1647	36.24								
SHBL	BZ			EP		1647	36.40								
FKH	SZ			EP		1647	38.59								

**June 14 2012 Hour: 19:17 43.0**

**Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1919	22.59								
QRTL	BZ			EP		1919	25.19								
BHL	BZ			EP		1919	30.19								
DQRL	SZ			EP		1919	31.65								
SHBL	BZ			EP		1919	32.96								

**June 15 2012 Hour: 1:14 11.0**

**Agency: REL Distant**

**EMSC OT=01:14:11.0 5.72N 126.52E 80Km M=5.6 PHILIPPINES**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		126	48.67								
HWQ	SZ			EP		126	49.59								
QRTL	BZ			EP		126	50.40								
RCY	SZ			EP		126	50.80								
BHL	BZ			EP		126	51.15								
DQRL	SZ			EP		126	51.90								



June 15 2012 Hour: 18: 6 45.6 Lat: 33.78N Lon: 35.76E 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	16	325	EP		18	6	48.37	0.02	36					1.0
BHL	BN	16	325	ES		18	6	50.38	-0.01						1.0
RCY	SZ	33	167	EP		18	6	50.98	0.01						1.0
RCY	SN	33	167	ES		18	6	54.96	0.01						1.0
QRTL	BZ	35	14	EP		18	6	51.29	-0.04						1.0
SHBL	BZ	48	181	EP		18	6	53.45	-0.00						1.0
SHBL	BN	48	181	ES		18	6	59.26	-0.02						1.0
HWQ	SZ	58	18	EP		18	6	54.93	0.02						1.0

June 15 2012 Hour: 23:48 15.0 Agency: REL Regional  
EMSC OT=23:48:15.0 37.20N 42.44E 2Km M=4.2 TURKEY-SYRIA-IRAQ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		2349	42.98								
HWQ	SZ			EP		2349	46.99								
BHL	BZ			EP		2349	53.60								
DQRL	SZ			EP		2349	55.83								
SHBL	BZ			EP		2349	56.90								

June 16 2012 Hour: 2:10 7.0 Agency: REL Regional  
EMSC OT=02:10:07.0 37.20N 42.43E 2Km M=3.9 TURKEY-SYRIA-IRAQ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		211	48.46								
DQRL	SZ			EP		211	49.06								

June 16 2012 Hour: 3:22 58.0 Agency: REL Regional  
EMSC OT=03:22:58.0 37.18N 42.47E 2Km M=3.9 TURKEY-SYRIA-IRAQ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		324	39.79								

June 16 2012 Hour: 7:59 1.1 Lat: 33.87N Lon: 35.84E Depth: 3 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	283	EP		759	3.97	-0.01	55						1.0
BHL	BN	18	283	ES		759	6.15	0.02							1.0
DQRL	SZ	31	234	EP		759	6.16	0.08							1.0
DQRL	SN	31	234	ES		759	9.75	-0.04							1.0
RCY	SZ	41	180	EP		759	7.71	-0.07							1.0
RCY	SN	41	180	ES		759	12.75	0.01							1.0
HWQ	SZ	47	12	EP		759	8.56	-0.05							1.0
SHBL	BZ	58	189	EP		759	10.54	0.01							1.0
SHBL	BN	58	189	ES		759	17.54	0.02							1.0
FKH	SZ	67	52	EP		759	11.99	0.04							1.0
FKH	SN	67	52	ES		759	20.01	0.01							1.0

June 16 2012 Hour: 12:11 5.9 Lat: 33.78N Lon: 35.78E Depth: 0 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	320	EP		1211	8.80	-0.03	51						1.0
BHL	BN	18	320	ES		1211	10.95	-0.03							1.0
DQRL	SZ	21	247	EP		1211	9.33	-0.00							1.0
DQRL	SN	21	247	ES		1211	11.88	0.03							1.0
RCY	SZ	32	171	EP		1211	11.09	0.01							1.0
RCY	SZ	32	171	ES		1211	14.89	0.00							1.0
QRTL	BZ	35	11	EP		1211	11.60	0.01							1.0
SHBL	BZ	48	184	EP		1211	13.70	0.02							1.0
SHBL	BN	48	184	ES		1211	19.36	-0.05							1.0
HWQ	SZ	57	16	EP		1211	15.20	0.03							1.0



June 16 2012 Hour: 13:28 29.6 Lat: 33.45N Lon: 35.63E Depth: 1 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
QRWL	SZ	12	25	EP		1328	31.54	-0.05							1.0
SHBL	BZ	16	135	EP		1328	32.10	-0.01							1.0
SHBL	BN	16	135	ES		1328	33.99	0.01							1.0
RCY	SZ	20	74	EP		1328	32.87	0.00	48						1.0
RCY	SN	20	74	ES		1328	35.32	0.01							1.0
DQRL	SZ	29	350	EP		1328	34.34	0.05							1.0
DQRL	SN	29	350	ES		1328	37.78	0.00							1.0
BHL	BZ	51	3	EP		1328	37.72	-0.05							1.0
BHL	BN	51	3	ES		1328	43.86	0.02							1.0
QRTL	BZ	75	16	EP		1328	41.59	-0.00							1.0
HWQ	SZ	97	18	EP		1328	45.21	0.01							1.0

June 16 2012 Hour: 15:50 57.5 Lat: 34.00N Lon: 36.46E Depth: 3 Agency: REL Local  
 Magnitudes: 3.0MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BORL	BZ	23	264	EP		1551	1.31	0.06							1.0
BORL	BN	23	264	ES		1551	4.03	-0.02							1.0
FKH	SZ	28	351	EP		1551	1.93	-0.03							1.0
FKH	SN	28	351	ES		1551	5.29	-0.00							1.0
HWQ	SZ	56	303	EP		1551	6.60	0.04	55						1.0
HWQ	SE	56	303	ES		1551	13.29	0.00							1.0
BENL	BZ	65	338	EP		1551	7.98	0.01							1.0
BHL	BZ	75	262	EP		1551	9.48	-0.08							1.0
DQRL	SZ	88	249	EP		1551	11.99	0.28							0.2

June 16 2012 Hour: 21:20 50.4 Lat: 33.70N Lon: 35.71E 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
DQRL	SZ	13	274	EP		2120	52.80	0.05	42						1.0
DQRL	SN	13	274	ES		2120	54.45	-0.00							1.0
QRWL	SZ	17	190	EP		2120	53.23	-0.06							1.0
QRWL	SN	17	190	ES		2120	55.40	0.01							1.0
BHL	BZ	24	347	EP		2120	54.27	-0.07							1.0
BHL	BN	24	347	ES		2120	57.24	0.01							1.0
RCY	SZ	25	153	EP		2120	54.61	0.03							1.0
SHBL	BZ	39	176	EP		2120	56.80	0.03							1.0
SHBL	BN	39	176	ES		2121	1.44	-0.02							1.0
QRTL	BZ	46	16	EP		2120	57.87	0.03							1.0
HWQ	SZ	68	18	EP		2121	1.45	0.01							0.2

June 16 2012 Hour: 22:18 48.0 Agency: REL Distant  
 EMSC OT=22:18:48.0 15.69N 119.64E 30Km M=5.8 PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2230	35.57								
QRTL	BZ			EP		2230	35.42								
BHL	BZ			EP		2230	36.24								
RCY	SZ			EP		2230	36.30								
DQRL	SZ			EP		2230	36.95								
QRWL	SZ			EP		2230	36.55								
SHBL	BZ			EP		2230	36.91								

**June 17 2012 Hour: 17:26 28.7 Lat: 33.80N Lon: 35.78E 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	17	314	EP		1726	31.48	0.05	42						1.0
BHL	BE	17	314	ES		1726	33.48	0.01							1.0
DQRL	SZ	22	242	EP		1726	32.29	-0.05							1.0
DQRL	SN	22	242	ES		1726	35.00	-0.04							1.0
QRWL	SZ	30	199	EP		1726	33.47	0.01							1.0
QRWL	SN	30	199	ES		1726	37.06	0.05							1.0
QRTL	BZ	33	10	EP		1726	34.08	0.06							1.0
RCY	SZ	34	172	EP		1726	34.16	-0.02							1.0
RCY	SN	34	172	ES		1726	38.24	-0.02							1.0
SHBL	BZ	50	184	EP		1726	36.78	-0.01							1.0
SHBL	BN	50	184	ES		1726	42.80	0.00							1.0
HWQ	SZ	55	16	EP		1726	37.51	-0.08							1.0

**June 17 2012 Hour: 17:26 27.0 Agency: REL Distant**

**EMSC OT=17:26:27.0 20.40S 174.27W 10Km M=5.4 TONGA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1746	18.62								
HWQ	SZ			EP		1746	18.84								
BHL	BZ			EP		1746	19.51								
DQRL	SZ			EP		1746	20.41								
SHBL	BZ			EP		1746	20.63								

**June 17 2012 Hour: 20:32 23.0 Agency: REL Distant**

**EMSC OT=20:32:23.0 38.97N 141.83E 60Km M=6.4 JAPAN**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		2044	25.51								
HWQ	SZ			EP		2044	26.35								
BHL	BZ			EP		2044	28.60								
DQRL	SZ			EP		2044	29.96								
RCY	SZ			EP		2044	29.86								
SHBL	BZ			EP		2044	30.80								

**June 18 2012 Hour: 12:14 14.8 Lat: 33.31N Lon: 35.43E 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
SHBL	BZ	30	82	EP		1214	19.65	0.03							1.0
SHBL	BN	30	82	ES		1214	23.18	-0.00							1.0
QRWL	SZ	36	42	EP		1214	20.51	-0.03	46						1.0
QRWL	SN	36	42	ES		1214	24.75	-0.03							1.0
RCY	SZ	43	61	EP		1214	21.78	-0.02							1.0
RCY	SN	43	61	ES		1214	26.99	0.02							1.0
DQRL	SZ	46	17	EP		1214	22.21	-0.01							1.0
DQRL	SN	46	17	ES		1214	27.69	-0.00							1.0
BHL	BZ	69	18	EP		1214	25.99	0.01							1.0
QRTL	BZ	95	24	EP		1214	30.13	-0.03							1.0
HWQ	SZ	118	24	EP		1214	33.86	0.07							1.0

**June 18 2012 Hour: 14: 6 25.9 Lat: 33.78N Lon: 35.74E Depth: 14 Agency: REL Local**  
**Magnitudes: 3.0MC 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	329	EP		14 6	29.37	-0.04	63						1.0
BHL	BN	16	329	ES		14 6	31.97	-0.00							1.0
DQRL	SZ	18	241	EP		14 6	29.74	0.04							1.0
DQRL	SN	18	241	ES		14 6	32.47	-0.02							1.0
QRWL	SZ	27	192	EP		14 6	30.87	-0.00							1.0
QRWL	SN	27	192	ES		14 6	34.55	0.02							1.0
RCY	SZ	33	164	EP		14 6	31.85	0.03							1.0

RCY	SN	33	164	ES		14	6	36.14	-0.04									1.0
QRTL	BZ	36	17	EP		14	6	32.21	0.05									1.0
HWQ	SZ	58	19	EP		14	6	35.44	-0.03									1.0

**June 18 2012 Hour: 15:54 45.8 Lat: 33.79N Lon: 35.77E Depth: 8 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	319	EP		1554	48.83	-0.01	29						1.0
BHL	BN	17	319	ES		1554	51.10	0.00							1.0
DQRL	SZ	21	243	EP		1554	49.49	0.00							1.0
DQRL	SN	21	243	ES		1554	52.22	0.00							1.0
RCY	SZ	33	170	EP		1554	51.38	0.00							1.0
RCY	SN	33	170	ES		1554	55.51	0.00							1.0
HWQ	SZ	56	17	EP		1554	55.00	0.01							1.0

**June 18 2012 Hour: 15:55 49.0 Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1555	55.35								
RCY	SZ			EP		1555	58.13								
DQRL	SZ			EP		1556	2.19								

**June 19 2012 Hour: 1:46 13.0 Agency: REL Regional**

**EMSC OT=01:46:13.0 39.14N 29.16E 9Km M=4.5 WESTERN TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		148	1.09								
DQRL	SZ			EP		148	3.50								
SHBL	BZ			EP		148	8.25								

**June 19 2012 Hour: 4:37 35.0 Agency: REL Distant**

**EMSC OT=04:37:35.0 20.53S 178.55W 625Km M=5.1 FIJI REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		456	9.00								
RCY	SZ			EP		456	10.17								
BHL	BZ			EP		456	10.14								
DQRL	SZ			EP		456	10.87								

**June 19 2012 Hour: 12: 4 3.6 Lat: 33.57N Lon: 35.72E Depth: 0 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
QRWL	SZ	4	236	EP		12	4	4.24	-0.02	24					1.0
QRWL	SN	4	236	ES		12	4	4.73	0.01						1.0
RCY	SZ	14	125	EP		12	4	5.87	0.02						1.0
RCY	SN	14	125	ES		12	4	7.48	-0.01						1.0
DQRL	SZ	21	319	EP		12	4	6.96	0.01						1.0
SHBL	BZ	24	174	EP		12	4	7.56	-0.01						1.0
SHBL	BN	24	174	ES		12	4	10.49	0.01						1.0

**June 19 2012 Hour: 15:56 31.0 Agency: REL Distant**

**EMSC OT=15:56:31.0 53.35N 171.63E 10Km M=6.0 ALEUTIAN ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		16	9	5.39							
QRTL	BZ			EP		16	9	7.06							
BHL	BZ			EP		16	9	8.29							
DQRL	SZ			EP		16	9	9.74							
SHBL	BZ			EP		16	9	10.90							

**June 19 2012 Hour: 16:33 0.0** Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 SHBL BZ EP 1633 54.08  
 RCY SZ EP 1633 56.79

**June 20 2012 Hour: 3: 6 2.0** Agency: REL Regional  
**EMSC OT=03:06:02.0 35.00N 26.64E 10Km M=4.0 CRETE, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 QRTL BZ EP 3 7 51.54  
 SHBL BZ EP 3 7 52.13

**June 20 2012 Hour: 18: 5 14.4** Lat: 33.79N Lon: 35.77E Depth: 5 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	16	319	EP		18	5	17.20	0.02	45					1.0
BHL	BN	16	319	ES		18	5	19.22	-0.03						1.0
DQRL	SZ	21	242	EP		18	5	17.83	-0.05						1.0
DQRL	SN	21	242	ES		18	5	20.50	0.04						1.0
RCY	SZ	34	169	EP		18	5	19.82	-0.07						1.0
RCY	SN	34	169	ES		18	5	23.98	0.02						1.0
QRTL	BZ	34	13	EP		18	5	19.99	0.04						1.0
SHBL	BZ	49	183	EP		18	5	22.45	0.03						1.0
SHBL	BN	49	183	ES		18	5	28.38	0.01						1.0
HWQ	SZ	56	17	EP		18	5	23.50	-0.01						1.0

**June 20 2012 Hour: 19:22 37.0** Agency: REL Regional  
**EMSC OT=19:22:37.0 36.17N 30.51E 20Km M=3.9 WESTERN TURKEY**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 QRTL BZ EP 1923 47.82  
 HWQ SZ EP 1923 48.56  
 SHBL BZ EP 1923 49.83

**June 20 2012 Hour: 21: 0 0.9** Lat: 34.05N Lon: 35.78E Depth: 0 Agency: REL Local  
**Magnitudes: 3.0MC REL Rms: 0.2 secs**  
**KESROUANE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ	8	54	EP		21	0	2.05	-0.07						1.0
BHL	BZ	20	216	EP		21	0	4.12	-0.02	59					1.0
BHL	BN	20	216	ES		21	0	6.52	-0.03						1.0
HWQ	SZ	29	31	EP		21	0	5.66	0.05						1.0
HWQ	SN	29	31	ES		21	0	9.11	0.00						1.0
DQRL	SZ	43	207	EP		21	0	7.81	-0.02						1.0
DQRL	SN	43	207	ES		21	0	12.99	0.01						1.0
QRWL	SZ	57	189	EP		21	0	9.99	-0.02						1.0
RCY	SZ	62	175	EP		21	0	10.84	0.00						1.0
SHBL	BZ	78	183	EP		21	0	13.49	0.02						1.0

**June 21 2012 Hour: 2: 5 44.7** Lat: 33.75N Lon: 35.76E Depth: 3 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	18	255	EP		2	5	47.63	-0.01	44					1.0
DQRL	SN	18	255	ES		2	5	49.83	0.01						1.0
BHL	BZ	20	332	EP		2	5	48.00	0.03						1.0
BHL	BN	20	332	ES		2	5	50.38	-0.00						1.0
QRWL	SZ	23	197	EP		2	5	48.48	-0.01						1.0
QRWL	SN	23	197	ES		2	5	51.27	-0.02						1.0
RCY	SZ	29	165	EP		2	5	49.40	-0.00						1.0
RCY	SN	29	165	ES		2	5	52.90	0.02						1.0
QRTL	BZ	39	13	EP		2	5	51.04	-0.03						1.0
SHBL	BZ	44	181	EP		2	5	51.92	0.04						1.0
SHBL	BN	44	181	ES		2	5	57.16	-0.02						1.0

June 21 2012 Hour: 22:34 37.0 Agency: REL Distant  
**EMSC OT=22:34:37.0 17.96S 178.16W 548Km M=5.1 FIJI REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 2253 14.61  
 QRWL SZ EP 2253 15.30  
 SHBL BZ EP 2253 15.25  
 DQRL SZ EP 2253 15.47

June 22 2012 Hour: 0:3 1.0 Agency: REL Distant  
**EMSC OT=00:03:01.0 32.88S 178.55W 10Km M=5.1 KERMADEC ISLANDS**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 QRTL BZ EP 022 53.37  
 SHBL BZ EP 022 54.09  
 BHL BZ EP 022 54.09  
 DQRL SZ EP 022 54.58

June 23 2012 Hour: 4:34 53.0 Agency: REL Distant  
**EMSC OT=04:34:53.0 2.98N 97.90E 93Km M=6.1 INDONESIA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 445 26.09  
 SHBL BZ EP 445 26.24  
 HWQ SZ EP 445 26.84  
 BHL BZ EP 445 27.27  
 DQRL SZ EP 445 28.28

June 23 2012 Hour: 18:47 17.0 Agency: REL Regional  
**EMSC OT=18:47:17.0 35.73N 31.05E 30Km M=4.5 CYPRUS REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 1848 17.89  
 DQRL SZ EP 1848 19.31  
 HWQ SZ EP 1848 21.72  
 SHBL BZ EP 1848 24.55  
 RCY SZ EP 1848 23.30

June 23 2012 Hour: 19:30 11.8 Lat: 33.79N Lon: 35.79E 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 18 314 EP 1930 15.21-0.00 50 1.0  
 DQRL SZ 23 244 EP 1930 15.92 0.02 1.0  
 QRWL SZ 29 200 EP 1930 16.87 0.02 1.0  
 QRWL SN 29 200 ES 1930 20.58-0.03 1.0  
 RCY SZ 33 172 EP 1930 17.47-0.04 1.0  
 RCY SN 33 172 ES 1930 21.80 0.04 1.0  
 QRTL BZ 34 10 EP 1930 17.52-0.01 1.0  
 SHBL BZ 50 185 EP 1930 20.05 0.03 1.0  
 SHBL BN 50 185 ES 1930 26.10-0.03 1.0

June 24 2012 Hour: 3:15 1.0 Agency: REL Distant  
**EMSC OT=03:15:01.0 57.62N 63.22E 10Km M=6.1 COAST OF KAMCHATKA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 QRTL BZ EP 327 3.17  
 BHL BZ EP 327 4.11  
 DQRL SZ EP 327 5.73  
 SHBL BZ EP 327 6.42

June 24 2012 Hour: 16:52 27.2 Lat: 33.79N Lon: 35.78E Depth: 1 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 17 317 EP 1652 29.85-0.04 37 1.0  
 BHL BN 17 317 ES 1652 31.91 0.01 1.0  
 DQRL SZ 21 243 EP 1652 30.69 0.05 1.0

DQRL	SN	21	243	ES		1652	33.19	-0.02									1.0
RCY	SZ	33	170	EP		1652	32.52	-0.04									1.0
RCY	SN	33	170	ES		1652	36.58	0.02									1.0
QRTL	BZ	34	12	EP		1652	32.63	-0.00									1.0
HWQ	SZ	56	16	EP		1652	36.23	0.02									1.0

June 24 2012 Hour: 20: 7 23.0

Agency: REL Regional

EMSC OT=20:07:23.0 38.72N 43.68E 16Km M=4.9 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		20	9	11.56							
HWQ	SZ			EP		20	9	14.85							
QRTL	BZ			EP		20	9	18.05							
BHL	BZ			EP		20	9	20.83							
RCY	SZ			EP		20	9	23.61							
DQRL	SZ			EP		20	9	24.03							
QRWL	SZ			EP		20	9	24.79							
SHBL	BZ			EP		20	9	25.54							

June 24 2012 Hour: 23: 0 57.4

Lat: 33.79N Lon: 35.78E Depth: 13 Agency: REL Local

Magnitudes: 3.0MC 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		23	1	1.05	0.03	62					1.0
DQRL	SZ	22	243	EP		23	1	1.59	-0.04						1.0
DQRL	SN	22	243	ES		23	1	4.72	-0.00						1.0
QRWL	SZ	29	198	EP		23	1	2.57	-0.04						1.0
QRWL	SN	29	198	ES		23	1	6.48	0.05						1.0
RCY	SZ	33	171	EP		23	1	3.28	-0.05						1.0
RCY	SN	33	171	ES		23	1	7.69	0.01						1.0
QRTL	BZ	34	11	EP		23	1	3.38	0.00						1.0
SHBL	BZ	49	184	EP		23	1	5.80	0.04						1.0
SHBL	BN	49	184	ES		23	1	11.91	-0.01						1.0
HWQ	SZ	56	16	EP		23	1	6.83	0.11						0.2

June 25 2012 Hour: 3: 9 5.0

Agency: REL Distant

EMSC OT=03:09:05.0 27.36S 177.81W 180Km M=5.3 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ			EP		328	35.07								
BHL	BZ			EP		328	35.73								
SHBL	BZ			EP		328	35.93								
DQRL	SZ			EP		328	36.15								

June 25 2012 Hour: 11:38 18.5

Lat: 33.82N Lon: 35.73E Depth: 31 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	12	323	EP		1138	23.82	-0.02	29						1.0
BHL	BN	12	323	ES		1138	27.79	0.01							1.0
DQRL	SZ	20	230	EP		1138	24.33	-0.01							1.0
DQRL	SN	20	230	ES		1138	28.66	0.01							1.0
RCY	SZ	37	165	EP		1138	26.17	0.03							1.0
RCY	SN	37	165	ES		1138	31.76	-0.02							1.0
HWQ	SZ	55	21	EP		1138	28.25	-0.02							0.2

June 25 2012 Hour: 13: 5 30.0

Agency: REL Regional

EMSC OT=13:05:30.0 36.39N 29.01E 49Km M=5.0 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		13	6	54.45							
HWQ	SZ			EP		13	6	57.00							
QRTL	BZ			EP		13	6	56.45							
QRWL	SZ			EP		13	6	58.33							
RCY	SZ			EP		13	6	59.94							
SHBL	BZ			EP		13	7	0.34							

June 26 2012 Hour: 10:28 23.5 Lat: 34.03N Lon: 35.76E Depth: 1 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

**KESROUANE**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRTL	BZ	11	50	EP		1028	25.34	-0.02							1.0
QRTL	BN	11	50	ES		1028	26.74	0.00							1.0
BHL	BZ	17	215	EP		1028	26.19	0.01	38						1.0
BHL	BN	17	215	ES		1028	28.19	0.02							1.0
HWQ	SZ	33	32	EP		1028	28.82	-0.01							1.0
DQRL	SZ	40	206	EP		1028	29.88	0.00							1.0
RCY	SZ	59	173	EP		1028	33.01	-0.05							1.0
RCY	SN	59	173	ES		1028	40.14	0.01							1.0
FKH	SZ	65	68	EP		1028	34.04	0.05							1.0

June 26 2012 Hour: 14:11 23.0 Agency: REL Regional

**EMSC OT=14:11:23.0 35.15N 31.44E 15Km M=4.2 CYPRUS REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1412	19.28								
QRTL	BZ			EP		1412	21.20								
HWQ	SZ			EP		1412	22.08								
RCY	SZ			EP		1412	24.13								

June 26 2012 Hour: 14:34 58.7 Agency: REL Regional

**EMSC OT=14:34:58.7 35.17N 31.43E 30Km M=4.2 CYPRUS REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1435	17.22								
QRTL	BZ			EP		1435	18.85								
HWQ	SZ			EP		1435	19.90								
RCY	SZ			EP		1435	21.92								
SHBL	BZ			EP		1435	22.39								

June 27 2012 Hour: 12:24 46.7 Lat: 33.78N Lon: 35.76E Depth: 9 Agency: REL Local  
Magnitudes: 3.0MC 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	325	EP		1224	49.81	-0.00	61						1.0
DQRL	SZ	19	244	EP		1224	50.21	0.00							1.0
DQRL	SN	19	244	ES		1224	52.80	0.01							1.0
QRWL	SZ	27	195	EP		1224	51.31	-0.04							1.0
QRWL	SN	27	195	ES		1224	54.77	-0.01							1.0
RCY	SZ	33	167	EP		1224	52.28	0.04							1.0
RCY	SN	33	167	ES		1224	56.32	-0.00							1.0
QRTL	BZ	35	14	EP		1224	52.62	-0.02							1.0
HWQ	SZ	58	18	EP		1224	56.18	0.02							1.0

June 27 2012 Hour: 15:51 7.0 Lat: 33.80N Lon: 35.78E Depth: 14 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	16	315	EP		1551	10.61	0.03	27						1.0
BHL	BN	16	315	ES		1551	13.25	-0.02							1.0
DQRL	SZ	22	242	EP		1551	11.26	-0.00							1.0
DQRL	SN	22	242	ES		1551	14.45	0.00							1.0
RCY	SZ	34	171	EP		1551	12.94	-0.03							1.0
RCY	SN	34	171	ES		1551	17.44	0.02							1.0

June 27 2012 Hour: 16:57 46.3 Lat: 33.80N Lon: 35.78E Depth: 15 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	16	316	EP		1657	50.01	0.00	23						1.0
BHL	BN	16	316	ES		1657	52.73	0.00							1.0
DQRL	SZ	22	242	EP		1657	50.66	-0.01							1.0



DQRL	SN	22	242	ES	1657	53.88	-0.00										1.0
RCY	SZ	34	171	EP	1657	52.37	-0.00										1.0
RCY	SN	34	171	ES	1657	56.85	0.01										1.0

**June 27 2012 Hour: 18:11 47.8 Lat: 33.80N Lon: 35.77E Depth: 9 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	16	318	EP		1811	50.80	-0.04	22						1.0
DQRL	SZ	21	240	EP		1811	51.62	0.01							1.0
DQRL	SN	21	240	ES		1811	54.42	0.01							1.0
QRTL	BZ	33	13	EP		1811	53.47	0.03							1.0
RCY	SZ	34	169	EP		1811	53.57	-0.03							1.0
RCY	SN	34	169	ES		1811	57.89	0.01							1.0

**June 28 2012 Hour: 17:56 37.3 Lat: 33.80N Lon: 35.77E Depth: 13 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	317	EP		1756	40.78	0.01	40						1.0
BHL	BN	16	317	ES		1756	43.33	-0.00							1.0
DQRL	SZ	21	240	EP		1756	41.48	-0.00							1.0
DQRL	SN	21	240	ES		1756	44.57	-0.00							1.0
RCY	SZ	34	169	EP		1756	43.39	0.01							1.0
RCY	SN	34	169	ES		1756	47.87	-0.01							1.0
HWQ	SZ	55	17	EP		1756	46.37	-0.08							0.2

**June 29 2012 Hour: 10: 1 42.0 Agency: REL Distant**  
**EMSC OT=10:01:42.0 25.74S 177.47W 160Km M=5.1 FIJI ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1021	15.29								
SHBL	BZ			EP		1021	15.63								

**June 29 2012 Hour: 10:49 16.6 Lat: 33.79N Lon: 35.79E 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	18	316	EP		1049	19.56	0.04	48						1.0
DQRL	SZ	22	246	EP		1049	20.19	-0.00							1.0
DQRL	SN	22	246	ES		1049	22.81	-0.03							1.0
QRWL	SZ	28	200	EP		1049	21.11	-0.08							1.0
QRWL	SN	28	200	ES		1049	24.58	0.01							1.0
RCY	SZ	33	172	EP		1049	21.84	-0.03							1.0
RCY	SN	33	172	ES		1049	25.77	0.01							1.0
QRTL	BZ	34	10	EP		1049	22.13	-0.02							1.0
HWQ	SZ	56	15	EP		1049	25.71	-0.00							1.0

**June 29 2012 Hour: 15:31 46.0 Agency: REL Distant**  
**EMSC OT=15:31:46.0 24.68S 9.67W 10Km M=5.8 ATLANTIC OCEAN**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1543	14.12								
SHBL	BZ			EP		1543	12.53								

**June 29 2012 Hour: 21: 7 31.0 Agency: REL Distant**  
**EMSC OT=21:07:31.0 43.49N 84.77E 2Km M=6.3 CHINA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		2114	53.58								
HWQ	SZ			EP		2114	56.16								
QRTL	BZ			EP		2114	57.33								
RCY	SZ			EP		2115	0.14								
BEYL	BZ			EP		2114	59.75								
QRWL	SZ			EP		2115	1.00								
SHBL	BZ			EP		2115	1.24								



June 30 2012 Hour: 16:43 8.0 Lat: 33.80N Lon: 35.82E 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	308	EP		1643	12.06	0.01	30						1.0
BHL	BN	19	308	ES		1643	15.01	-0.01							1.0
DQRL	SZ	25	246	EP		1643	12.81	-0.01							1.0
DQRL	SN	25	246	ES		1643	16.36	0.00							1.0
RCY	SZ	34	177	EP		1643	14.02	0.01							1.0
RCY	SN	34	177	ES		1643	18.42	-0.01							1.0



# Epicentral Map of Lebanon

## JUNE 2012

