

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

May

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.

May 1 2012 Hour: 14:48 29.0 Agency: REL Regional

EMSC OT=14:48:29.0 38.66N 26.70E 9Km M=4.8 COAST OF TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1450	34.89								
QRWL	SZ			EP		1450	36.93								
RCY	SZ			EP		1450	38.85								
BORL	BZ			EP		1450	39.85								

May 1 2012 Hour: 23:50 55.2 Lat: 33.25N Lon: 35.08E Depth: 5 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.1 secs

OFFSHORE NORTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	BZ	35	42	EP		2351	1.26	0.31	71						0.2
SHBL	BZ	63	80	EP		2351	5.42	-0.01							1.0
SHBL	BN	63	80	ES		2351	13.00	-0.01							1.0
QRWL	SZ	65	60	EP		2351	5.80	0.04							1.0
QRWL	SN	65	60	ES		2351	13.64	0.06							1.0
DQRL	SZ	68	42	EP		2351	6.26	0.03							1.0
DQRL	SN	68	42	ES		2351	14.32	-0.07							1.0
RCY	SZ	76	69	EP		2351	7.44	-0.01							1.0
RCY	SN	76	69	ES		2351	16.48	-0.04							1.0
BEYL	BZ	79	29	EP		2351	7.79	-0.15							1.0
SAWL	BZ	90	58	EP		2351	9.78	0.04							1.0
BHL	BZ	90	36	EP		2351	9.75	-0.00							1.0
BHL	BN	90	36	ES		2351	20.59	0.06							1.0
TZHL	BZ	101	48	EP		2351	11.55	0.07							1.0
QRTL	BZ	118	37	EP		2351	14.01	-0.03							1.0
BORL	BZ	132	52	EP		2351	16.10	-0.13							1.0
HWQ	BZ	139	35	EP		2351	17.35	0.09							1.0
BENL	BZ	176	35	EP		2351	22.62	0.05							1.0

May 2 2012 Hour: 13:52 32.6 Lat: 33.87N Lon: 35.85E 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
TZHL	BZ	4	114	EP		1352	33.19	-0.08							1.0
BHL	BZ	18	281	EP		1352	35.48	-0.02	50						1.0
BHL	BN	18	281	ES		1352	37.62	-0.03							1.0
SAWL	BZ	22	167	EP		1352	36.25	0.07							1.0
QRTL	BZ	24	1	EP		1352	36.56	0.06							1.0
DQRL	SZ	32	234	EP		1352	37.73	0.06							1.0
DQRL	SN	32	234	ES		1352	41.44	0.00							1.0
BORL	BZ	36	71	EP		1352	38.33	0.00							1.0
RCY	SZ	42	181	EP		1352	39.32	-0.01							1.0
RCY	SN	42	181	ES		1352	44.29	-0.03							1.0
HWQ	BZ	46	12	EP		1352	39.97	-0.02							1.0

May 3 2012 Hour: 6:24 25.0 Agency: REL Regional

EMSC OT=06:24:25.0 36.04N 33.73E 5Km M=4.0 TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ			EP		625	8.81								
HWQ	BZ			EP		625	9.32								
QRTL	BZ			EP		625	10.52								
BORL	BZ			EP		625	14.07								
RCY	SZ			EP		625	16.35								

May 3 2012 Hour: 10:09 36.0 Agency: REL Regional

EMSC OT=10:09:36.0 32.79N 47.61E 10Km M=5.5 IRAN-IRAQ BORDER

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1012	4.06								
QRTL	BZ			EP		1012	3.53								
BORL	BZ			EP		1012	2.53								
TZHL	BZ			EP		1012	5.43								

BHL	BZ		EP	1012	3.82
DQRL	SZ		EP	1012	3.70
RCY	SZ		EP	1012	5.75

May 3 2012 Hour: 12:32 56.9 Lat: 33.34N Lon: 35.35E 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
MATL	BZ	16	352	EP		1232	59.54	-0.01	35						1.0
SHBL	BZ	36	89	EP		1233	2.83	0.03							1.0
DQRL	SZ	45	27	EP		1233	4.17	0.03							1.0
RCY	SZ	48	69	EP		1233	4.64	-0.01							1.0
SAWL	BZ	63	54	EP		1233	6.98	-0.06							1.0
HWQ	BZ	117	28	EP		1233	15.81	0.02							1.0

May 3 2012 Hour: 15:20 26.0 Agency: REL Regional

EMSC OT=15:20:26.0 39.13N 29.10E 10Km M=5.3 TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1522	16.83								
DQRL	SZ			EP		1522	18.99								
BORL	BZ			EP		1522	21.37								
SAWL	BZ			EP		1522	19.35								
RCY	SZ			EP		1522	21.30								
SHBL	BZ			EP		1522	23.32								

May 4 2012 Hour: 9:37 7.8 Lat: 33.90N 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
TZHL	BZ	7	131	EP		937	8.87	-0.04							1.0
BHL	BZ	16	272	EP		937	10.34	-0.04	48						1.0
BHL	BN	16	272	ES		937	12.36	0.06							1.0
QRTL	BZ	21	5	EP		937	11.22	-0.00							1.0
SAWL	BZ	25	165	EP		937	11.86	-0.02							1.0
DQRL	SZ	32	228	EP		937	12.92	-0.04							1.0
DQRL	SN	32	228	ES		937	16.81	0.01							1.0
BORL	BZ	36	76	EP		937	13.69	0.08							1.0
HWQ	BZ	43	14	EP		937	14.74	-0.02							1.0
RCY	SZ	45	179	EP		937	14.94	-0.04							1.0
RCY	SN	45	179	ES		937	20.38	0.06							1.0

May 4 2012 Hour: 16:48 57.1 Lat: 33.79N Lon: 35.76E Depth: 6 Agency: REL Local
 Magnitudes: 2.6MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	14	57	EP		1648	59.74	0.03							1.0
BHL	BZ	16	324	EP		1648	59.93	-0.00	33						1.0
BHL	BN	16	324	ES		1649	1.95	-0.09							1.0
SAWL	BZ	18	132	EP		1649	0.25	-0.02							1.0
SAWL	BN	18	132	ES		1649	2.64	0.01							1.0
DQRL	SZ	19	242	EP		1649	0.50	0.05							1.0
DQRL	SN	19	242	ES		1649	3.03	0.08							1.0
QRTL	BZ	35	15	EP		1649	2.83	0.01							1.0
BORL	BZ	47	63	EP		1649	4.77	0.02							1.0
SHBL	BZ	49	181	EP		1649	4.93	-0.13							1.0
HWQ	BZ	57	18	EP		1649	6.42	0.05							1.0

May 5 2012 Hour: 1:57 13.0 Agency: REL Regional

EMSC OT=01:57:13.0 35.10N 44.16E 15Km M=4.4 IRAQ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ			EP		158	47.70								
BORL	BZ			EP		158	49.05								
HWQ	BZ			EP		158	51.42								
SAWL	BZ			EP		158	53.79								

BHL BZ EP 158 56.16
 SHBL BZ EP 158 56.49

May 5 2012 Hour: 7:13 0.5 Lat: 33.86N Lon: 35.84E 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
TZHL	BZ	4	95	EP		713	1.17	-0.09							1.0
BHL	BZ	18	286	EP		713	3.33	-0.06	39						1.0
BHL	BN	18	286	ES		713	5.46	-0.04							1.0
SAWL	BZ	21	164	EP		713	4.00	0.05							1.0
QRTL	BZ	26	2	EP		713	4.67	0.01							1.0
QRTL	BN	26	2	ES		713	7.79	0.08							1.0
DQRL	SZ	30	235	EP		713	5.46	0.05							1.0
BORL	BZ	37	69	EP		713	6.42	-0.02							1.0
RCY	SZ	41	180	EP		713	7.06	-0.01							1.0
RCY	SN	41	180	ES		713	11.93	0.03							1.0
HWQ	BZ	47	12	EP		713	8.16	-0.00							1.0

May 6 2012 Hour: 7:42 8.1 Lat: 33.80N Lon: 35.63E 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	12	10	EP		742	9.91	-0.08	45						1.0
DQRL	SZ	12	209	EP		742	10.05	-0.01							1.0
DQRL	SN	12	209	ES		742	11.55	0.04							1.0
BEYL	BZ	15	301	EP		742	10.54	-0.01							1.0
TZHL	BZ	24	75	EP		742	12.09	0.07							1.0
SAWL	BZ	28	119	EP		742	12.63	-0.04							1.0
QRWL	SZ	29	171	EP		742	12.69	-0.02							1.0
QRTL	BZ	38	32	EP		742	14.26	0.02							1.0
QRTL	BN	38	32	ES		742	18.80	0.02							1.0
BORL	BZ	57	70	EP		742	17.21	-0.06							1.0
HWQ	BZ	60	29	EP		742	17.92	0.08							1.0
HWQ	BN	60	29	ES		742	25.03	-0.01							1.0

May 6 2012 Hour: 8:51 40.1 Lat: 33.80N Lon: 35.63E 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	11	11	EP		851	41.84	-0.08	35						1.0
BHL	BN	11	11	ES		851	43.28	0.00							1.0
DQRL	SZ	12	207	EP		851	42.09	0.01							1.0
DQRL	SN	12	207	ES		851	43.53	-0.02							1.0
BEYL	BZ	15	301	EP		851	42.52	0.04							1.0
TZHL	BZ	24	76	EP		851	44.06	0.05							1.0
TZHL	BN	24	76	ES		851	46.91	0.00							1.0
SAWL	BZ	29	119	EP		851	44.73	0.03							1.0
QRTL	BZ	38	32	EP		851	46.29	0.10							0.2
RCY	SZ	39	151	EP		851	46.34	-0.05							1.0
HWQ	SZ	60	29	EP		851	49.84	0.05							0.2

May 6 2012 Hour: 15:32 41.7 Lat: 34.21N Lon: 36.40E 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
BORL	BZ	31	214	EP		1532	46.61	-0.06							1.0
BENL	BZ	42	332	EP		1532	48.50	0.01							1.0
HWQ	BZ	42	281	EP		1532	48.57	0.04	60						1.0
HWQ	BN	42	281	ES		1532	53.59	0.01							1.0
QRTL	BZ	52	256	EP		1532	49.96	-0.14							1.0
QRTL	BN	52	256	ES		1532	56.33	0.02							1.0
TZHL	BZ	61	231	EP		1532	51.56	0.01							1.0
SAWL	BZ	74	218	EP		1532	53.74	0.03							1.0

SAWL	BN	74	218	ES		1533	2.62	0.03											1.0
BHL	BZ	76	244	EP		1532	54.04	0.02											1.0
RCY	SZ	94	214	EP		1532	56.85	-0.06											1.0
RCY	SN	94	214	ES		1533	8.17	0.01											1.0
DQRL	SZ	94	234	EP		1532	57.00	0.06											1.0
DQRL	SN	94	234	ES		1533	8.16	-0.05											1.0
SHBL	BZ	113	213	EP		1532	59.96	0.07											1.0

May 6 2012 Hour: 19:24 52.5

Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1924	58.79								
RCY	SZ			EP		1925	1.60								
DQRL	SZ			EP		1925	4.80								

May 7 2012 Hour: 4:40 27.0

Agency: REL Distant

EMSC OT=04:40:27.0 41.50N 46.67E 10Km M=5.6 AZERBAIJAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ			EP		443	5.57								
HWQ	BZ			EP		443	10.03								
BORL	BZ			EP		443	11.59								
QRTL	BZ			EP		443	12.93								
TZHL	BZ			EP		443	15.72								
BHL	BZ			EP		443	16.39								
SAWL	BZ			EP		443	16.95								
RCY	SZ			EP		443	19.29								
QRWL	SZ			EP		443	20.18								
SHBL	BZ			EP		443	21.63								

May 7 2012 Hour: 13:27 22.1

Lat: 34.59N

Lon: 36.40E

Depth: 0

Agency: REL Local

Magnitudes: 3.2MC REL

Rms: 0.1 secs

AKKAR

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ	20	254	EP		1327	25.32	-0.01							1.0
BENL	BN	20	254	ES		1327	27.70	-0.04							1.0
HWQ	BZ	54	230	EP		1327	30.80	0.00	74						1.0
HWQ	BN	54	230	ES		1327	37.32	0.06							1.0
BORL	BZ	71	194	EP		1327	33.41	-0.02							1.0
QRTL	BZ	75	222	EP		1327	34.16	0.01							1.0
QRTL	BN	75	222	ES		1327	43.09	-0.01							1.0
TZHL	BZ	94	210	EP		1327	37.38	0.13							1.0
BHL	BZ	103	222	EP		1327	38.52	-0.08							1.0
BHL	BN	103	222	ES		1327	50.83	-0.01							1.0
SAWL	BZ	111	204	EP		1327	39.92	-0.10							1.0
SAWL	BN	111	204	ES		1327	53.22	-0.09							1.0
DQRL	SZ	124	218	EP		1327	42.10	-0.04							1.0
DQRL	SN	124	218	ES		1327	57.09	0.10							1.0
RCY	SZ	132	203	EP		1327	43.50	0.12							1.0
RCY	SN	132	203	ES		1327	59.13	-0.03							1.0

May 7 2012 Hour: 14:15 14.0

Agency: REL Distant

EMSC OT=14:15:14.0 41.62N 46.76E 10Km M=5.5 AZERBAIJAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1418	1.38								
BHL	BZ			EP		1418	3.23								
SAWL	BZ			EP		1418	4.05								
SHBL	BZ			EP		1418	8.77								

May 7 2012 Hour: 16: 3 14.9

Lat: 33.79N

Lon: 35.76E

Depth: 7

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
TZHL	BZ	13	58	EP		16 3	17.48	0.04							1.0
BHL	BZ	16	320	EP		16 3	17.78	-0.02	50						1.0
SAWL	BZ	18	136	EP		16 3	18.04	-0.06							1.0

DQRL	SZ	21	241	EP	16	3	18.50	0.04									1.0
BEYL	BZ	27	289	EP	16	3	19.32	-0.02									1.0
RCY	SZ	34	169	EP	16	3	20.51	0.00									1.0
QRTL	BZ	34	13	EP	16	3	20.48	-0.06									0.2
BORL	BZ	46	64	EP	16	3	22.78	0.36									0.2
SHBL	BZ	50	182	EP	16	3	23.01	0.01									1.0
HWQ	SZ	56	17	EP	16	3	23.86	-0.21									0.2

May 7 2012 Hour: 16:45 3.0 Lat: 33.78N Lon: 35.78E Depth: 3 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
TZHL	BZ	13	49	EP		1645	5.26	0.03							1.0
SAWL	BZ	16	135	EP		1645	5.62	-0.03							1.0
BHL	BZ	18	320	EP		1645	5.91	-0.06	48						1.0
BHL	BN	18	320	ES		1645	8.16	-0.02							1.0
DQRL	SZ	21	247	EP		1645	6.46	0.03							1.0
DQRL	SN	21	247	ES		1645	9.05	0.06							1.0
QRWL	SZ	27	199	EP		1645	7.38	-0.05							1.0
RCY	SZ	32	170	EP		1645	8.18	0.01							1.0
RCY	SN	32	170	ES		1645	11.97	-0.04							1.0
QRTL	BZ	35	11	EP		1645	8.61	-0.11							1.0
BORL	BZ	45	61	EP		1645	10.42	0.07							1.0
SHBL	BZ	48	184	EP		1645	10.70	-0.05							1.0
SHBL	BN	48	184	ES		1645	16.56	0.06							1.0
HWQ	BZ	57	16	EP		1645	12.37	0.09							1.0

May 7 2012 Hour: 16:52 57.9 Lat: 33.78N Lon: 35.77E 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
TZHL	BZ	13	52	EP		1653	0.19	0.03							1.0
TZHL	BN	13	52	ES		1653	1.85	0.02							1.0
SAWL	BZ	17	135	EP		1653	0.62	-0.08							1.0
BHL	BZ	17	320	EP		1653	0.73	-0.05	46						1.0
BHL	BN	17	320	ES		1653	2.87	-0.03							1.0
DQRL	SZ	21	245	EP		1653	1.37	0.04							1.0
DQRL	SN	21	245	ES		1653	3.92	0.06							1.0
QRWL	SZ	28	198	EP		1653	2.35	-0.07							1.0
RCY	SZ	33	170	EP		1653	3.26	0.04							1.0
RCY	SN	33	170	ES		1653	7.12	-0.02							1.0
QRTL	BZ	35	12	EP		1653	3.53	-0.04							1.0
BORL	BZ	46	62	EP		1653	5.38	0.07							1.0
SHBL	BZ	49	183	EP		1653	5.80	0.03							1.0

May 7 2012 Hour: 23:12 31.8 Lat: 33.79N Lon: 35.79E Depth: 2 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
TZHL	BZ	12	49	EP		2312	33.79	-0.02							1.0
SAWL	BZ	16	139	EP		2312	34.42	-0.00							1.0
BHL	BZ	18	316	EP		2312	34.81	0.06	58						1.0
BHL	BN	18	316	ES		2312	36.94	-0.00							1.0
DQRL	SZ	22	246	EP		2312	35.42	0.01							1.0
DQRL	SN	22	246	ES		2312	38.10	0.01							1.0
QRWL	SZ	28	200	EP		2312	36.38	-0.02							1.0
RCY	SZ	33	172	EP		2312	37.08	0.00							1.0
QRTL	BZ	34	9	EP		2312	37.25	-0.10							1.0
BORL	BZ	44	61	EP		2312	39.03	0.08							1.0
SHBL	BZ	49	185	EP		2312	39.68	-0.02							1.0
HWQ	SZ	56	15	EP		2312	41.12	0.21							0.2

May 9 2012 Hour: 10:48 11.0

Agency: REL Regional

EMSC OT=10:48:11.0 34.59N 32.83E 5Km M=4.4 CYPRUS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	BZ			EP		1048	49.34								
DQRL	SZ			EP		1048	49.03								
BHL	BZ			EP		1048	50.56								
QRTL	BZ			EP		1048	52.00								
QRWL	SZ			EP		1048	53.07								
HWQ	BZ			EP		1048	53.11								
TZHL	BZ			EP		1048	53.14								
SHBL	BZ			EP		1048	54.74								
RCY	SZ			EP		1048	54.38								
SAWL	BZ			EP		1048	54.52								
BENL	BZ			EP		1048	55.04								
BORL	BZ			EP		1048	56.68								

May 10 2012 Hour: 10:43 18.9

Lat: 33.79N

Lon: 35.77E

Depth: 5

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
TZHL	BZ	13	54	EP		1043	21.23	0.04							1.0
BHL	BZ	17	319	EP		1043	21.69	-0.09	47						1.0
BHL	BE	17	319	ES		1043	23.94	-0.00							1.0
SAWL	BZ	17	137	EP		1043	21.81	-0.01							1.0
DQRL	SZ	21	244	EP		1043	22.58	0.14							1.0
DQRL	SE	21	244	ES		1043	25.08	0.00							1.0
QRWL	SZ	28	198	EP		1043	23.44	-0.10							1.0
QRTL	BZ	34	12	EP		1043	24.40	-0.08							1.0
HWQ	SZ	56	16	EP		1043	28.12	0.09							1.0

May 10 2012 Hour: 12:37 18.0

Lat: 33.78N

Lon: 35.78E

Depth: 0

Agency: REL

Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	13	49	EP		1237	19.99	-0.03							1.0
SAWL	BZ	16	137	EP		1237	20.55	-0.01							1.0
BHL	BZ	18	319	EP		1237	20.83	-0.01	47						1.0
BHL	BN	18	319	ES		1237	22.99	0.02							1.0
DQRL	SZ	21	246	EP		1237	21.43	0.02							1.0
QRWL	SZ	28	199	EP		1237	22.39	-0.04							1.0
QRWL	SN	28	199	ES		1237	25.77	0.02							1.0
QRTL	BZ	35	10	EP		1237	23.53	-0.04							1.0
BORL	BZ	45	61	EP		1237	25.28	0.06							1.0
HWQ	BZ	57	15	EP		1237	27.13	-0.01							1.0
HWQ	BN	57	15	ES		1237	33.95	0.01							1.0

May 10 2012 Hour: 17:53 40.3

Lat: 33.86N

Lon: 35.84E

Depth: 0

Agency: REL

Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	4	92	EP		1753	40.90	-0.04							1.0
BHL	BZ	18	286	EP		1753	43.23	-0.04	46						1.0
BHL	BN	18	286	ES		1753	45.46	0.01							1.0
SAWL	BZ	21	166	EP		1753	43.67	0.02							1.0
QRTL	BZ	26	1	EP		*1753	44.45	-0.03							0.0
DQRL	SZ	31	236	EP		1753	45.21	-0.03							1.0
DQRL	SN	31	236	ES		1753	48.93	0.04							1.0
BORL	BZ	36	69	EP		1753	46.19	0.05							1.0
QRWL	SZ	38	204	EP		1753	46.39	0.00							1.0
QRWL	SN	38	204	ES		1753	50.91	0.03							1.0
RCY	SZ	40	181	EP		1753	46.81	0.01							1.0
RCY	SN	40	181	ES		1753	51.56	-0.04							1.0
HWQ	BZ	47	11	EP		1753	47.96	0.00							1.0

SHBL BZ 57 189 EP 1753 49.58 0.01 1.0

May 11 2012 Hour: 10:02.8 Lat: 33.86N Lon: 35.84E Depth: 0 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
TZHL	BZ	4	96	EP		10	0	22.45	-0.07						1.0
BHL	BZ	18	285	EP		10	0	24.63	-0.10	45					1.0
BHL	BN	18	285	ES		10	0	26.94	0.07						1.0
SAWL	BZ	21	165	EP		10	0	25.31	0.08						1.0
QRTL	BZ	26	2	EP		10	0	25.98	0.03						1.0
DQRL	SZ	31	235	EP		10	0	26.68	-0.07						1.0
BORL	BZ	36	69	EP		10	0	27.67	-0.02						1.0
RCY	SZ	41	181	EP		10	0	28.35	-0.02						1.0
RCY	SN	41	181	ES		10	0	33.25	0.05						1.0
HWQ	BZ	47	12	EP		10	0	29.46	0.01						1.0
HWQ	BN	47	12	ES		10	0	35.12	0.04						1.0

May 11 2012 Hour: 18:48.5 Lat: 34.30N Lon: 34.28E Depth: 14 Agency: REL Local
Magnitudes: 5.5MC REL Rms: 0.4 secs

OFFSHORE CENTRAL LEBANON

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VERD	SZ	120	112	EP		1848	48.69	-0.17							1.0
BEYL	BZ	122	113	EP		1848	49.11	0.03							1.0
BEYL	BE	122	113	ES	*	1849	2.93	0.07							0.0
MATL	BZ	132	132	EP		1848	50.74	0.10							1.0
BHL	BZ	134	109	EP		1848	50.81	-0.18	1702						1.0
BHL	BE	134	109	ES		1849	5.37	-0.81							1.0
DQRL	SZ	136	118	EP		1848	51.13	-0.15							1.0
DQRL	SN	136	118	ES	*	1849	6.97	0.29							0.0
QRTL	BZ	147	99	EP		1848	52.99	0.17							1.0
HWQ	BZ	154	90	EP		1848	53.95	0.11							1.0
QRWL	SZ	154	122	EP		1848	53.92	0.01							1.0
TZHL	BZ	156	108	EP		1848	54.25	0.04							1.0
SAWL	BZ	165	114	EP		1848	55.45	0.14							1.0
RCY	SZ	169	121	EP		1848	56.26	0.37							1.0
SHBL	BZ	172	127	EP		1848	56.21	0.01							1.0
BENL	BZ	177	81	EP		1848	57.85	1.04							0.2
BORL	BZ	182	101	EP		1848	58.01	0.60							1.0

May 11 2012 Hour: 20:34.26.0 Agency: REL Distant
EMSC OT=20:34:26.0 30.73N 138.76E 400Km M=5.1 JAPAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ			EP		2046	5.25								
HWQ	BZ			EP		2046	6.44								
BORL	BZ			EP		2046	7.11								
QRTL	BZ			EP		2046	7.44								
TZHL	BZ			EP		2046	8.35								
SAWL	BZ			EP		2046	8.54								
BHL	BZ			EP		2046	8.59								
RCY	SZ			EP		2046	9.25								
DQRL	SZ			EP		2046	9.78								
QRWL	SZ			EP		2046	9.59								
SHBL	BZ			EP		2046	10.06								

May 12 2012 Hour: 13:37.55.5 Lat: 33.78N Lon: 35.77E Depth: 3 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
TZHL	BZ	13	52	EP		1337	57.68	-0.03							1.0
SAWL	BZ	17	135	EP		1337	58.16	-0.10							1.0
SAWL	BN	17	135	ES		1338	0.31	0.01							1.0
BHL	BZ	17	320	EP		1337	58.32	-0.04	40						1.0

BHL	BN	17	320	ES		1338	0.55	0.07									1.0
DQRL	SZ	21	245	EP		1337	58.89	-0.03									1.0
DQRL	SN	21	245	ES		1338	1.46	0.00									1.0
RCY	SZ	33	170	EP		1338	0.82	0.03									1.0
RCY	SN	33	170	ES		1338	4.74	0.04									1.0
QRTL	BZ	35	12	EP		1338	1.06	-0.08									1.0
BORL	BZ	46	62	EP		1338	2.98	0.11									1.0
HWQ	BZ	57	16	EP		1338	4.74	0.03									1.0

May 12 2012 Hour: 18:58 58.0 Agency: REL Regional

EMSC OT=18:58:58.0 34.44N 32.74E 10Km M=3.3 CYPRUS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1859	40.21								
SHBL	BZ			EP		1859	42.02								

May 12 2012 Hour: 23:28 42.0 Agency: REL Distant

EMSC OT=23:28:42.0 38.66N 70.42E 4Km M=5.7 TAJIKISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ			EP		2334	32.58								
BORL	BZ			EP		2334	34.97								
HWQ	BZ			EP		2334	35.20								
QRTL	BZ			EP		2334	37.02								
TZHL	BZ			EP		2334	37.02								
SAWL	BZ			EP		2334	37.82								
BHL	BZ			EP		2334	38.85								
SHBL	BZ			EP		2334	39.30								
MATL	BZ			EP		2334	41.69								

May 13 2012 Hour: 1:19 10.0 Agency: REL Distant

EMSC OT=01:19:10.0 3.23S 89.44E 10Km M=5.4 INDIAN OCEAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		129	33.43								
SAWL	BZ			EP		129	33.78								
QRTL	BZ			EP		129	35.41								
BHL	BZ			EP		129	34.95								
HWQ	BZ			EP		129	35.24								
BENL	BZ			EP		129	35.06								

May 13 2012 Hour: 16:11 25.6 Lat: 33.79N Lon: 35.76E Depth: 4 Agency: REL Local

Magnitudes: 2.4MC REL

Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	14	55	EP		1611	28.01	0.03							1.0
BHL	BZ	17	322	EP		1611	28.36	-0.04	27						1.0
BHL	BN	17	322	ES		1611	30.48	-0.01							1.0
SAWL	BZ	17	134	EP		1611	28.44	-0.10							1.0
SAWL	BN	17	134	ES		1611	30.75	0.02							1.0
DQRL	SZ	20	243	EP		1611	28.92	-0.03							1.0
DQRL	SN	20	243	ES		1611	31.51	0.07							1.0
QRTL	BZ	35	13	EP		1611	31.24	-0.02							1.0
BORL	BZ	46	63	EP		1611	33.18	0.09							1.0

May 13 2012 Hour: 17:19 42.5 Lat: 33.99N Lon: 35.94E Depth: 0 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
QRTL	BZ	14	325	EP		1719	44.83	-0.00							1.0
TZHL	BZ	15	199	EP		1719	44.90	-0.12							1.0
BORL	BZ	25	93	EP		1719	46.62	0.03							1.0
BHL	BZ	28	251	EP		1719	47.04	-0.00	42						1.0
BHL	BN	28	251	ES		1719	50.43	0.06							1.0
HWQ	BZ	32	1	EP		1719	47.70	-0.04							1.0
HWQ	BN	32	1	ES		1719	51.64	0.05							1.0
SAWL	BZ	35	186	EP		1719	48.14	0.02							1.0

DQRL	SZ	46	228	EP		1719	49.94	-0.07									1.0
RCY	SZ	55	190	EP		1719	51.47	-0.01									1.0
RCY	SN	55	190	ES		1719	58.10	0.02									1.0
SHBL	BZ	73	194	EP		1719	54.33	-0.03									1.0
SHBL	BZ	73	194	ES		1720	3.19	0.09									1.0

May 13 2012 Hour: 23:29 3.8 Lat: 33.78N Lon: 35.78E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	13	46	EP		2329	5.85	-0.02							1.0
SAWL	BZ	15	136	EP		2329	6.28	0.01							1.0
BHL	BZ	19	319	EP		2329	6.76	-0.01	35						1.0
BHL	BN	19	319	ES		2329	8.94	-0.03							1.0
DQRL	SZ	21	248	EP		2329	7.26	0.02							1.0
DQRL	SN	21	248	ES		2329	9.83	0.04							1.0
RCY	SZ	32	171	EP		2329	8.82	-0.06							1.0
RCY	SN	32	171	ES		2329	12.65	0.00							1.0
QRTL	BZ	35	10	EP		2329	9.33	-0.15							1.0
BORL	BZ	45	60	EP		2329	11.12	0.07							1.0
SHBL	BZ	48	185	EP		2329	11.49	-0.00							1.0
HWQ	BZ	58	15	EP		2329	13.11	0.06							1.0
HWQ	BN	58	15	ES		2329	19.98	0.07							1.0

May 14 2012 Hour: 14:26 12.1 Lat: 33.87N Lon: 35.84E 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
TZHL	BZ	4	103	EP		1426	12.77	-0.04							1.0
BHL	BZ	18	284	EP		1426	14.91	-0.03	38						1.0
BHL	BN	18	284	ES		1426	17.06	0.02							1.0
SAWL	BZ	22	165	EP		1426	15.61	0.02							1.0
QRTL	BZ	25	2	EP		1426	16.13	0.02							1.0
DQRL	SZ	31	234	EP		1426	17.02	-0.02							1.0
DQRL	SN	31	234	ES		1426	20.72	0.01							1.0
BORL	BZ	36	70	EP		1426	17.97	0.03							1.0
RCY	SZ	41	180	EP		1426	18.77	0.05							1.0
RCY	SN	41	180	ES		1426	23.59	-0.04							1.0
HWQ	BZ	47	12	EP		1426	19.59	-0.02							1.0

May 14 2012 Hour: 18:17 21.3 Lat: 33.78N Lon: 35.76E Depth: 6 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
TZHL	BZ	14	53	EP		1817	23.86	0.02							1.0
SAWL	BZ	17	133	EP		1817	24.27	0.00							1.0
BHL	BZ	17	323	EP		1817	24.28	-0.01	39						1.0
DQRL	SZ	20	245	EP		1817	24.75	0.03							1.0
QRWL	SZ	27	197	EP		1817	25.69	-0.13							1.0
QRWL	SN	27	197	ES		1817	29.18	0.03							1.0
RCY	SZ	32	168	EP		1817	26.67	0.02							1.0
RCY	SN	32	168	ES		1817	30.57	-0.03							1.0
QRTL	BZ	35	13	EP		1817	27.08	-0.03							1.0
SHBL	BZ	48	182	EP		1817	29.24	0.08							1.0
HWQ	SZ	58	17	EP		1817	30.84	0.18							0.2

May 15 2012 Hour: 11:13 8.1 Lat: 33.78N Lon: 35.78E 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	18	320	EP		1113	10.88	-0.02	37						1.0
BHL	BN	18	320	ES		1113	13.01	0.01							1.0
DQRL	SZ	21	246	EP		1113	11.47	0.02							1.0
DQRL	SN	21	246	ES		1113	13.94	-0.02							1.0

QRWL	SZ	28	199	EP	1113	12.47	-0.04										1.0
QRWL	SN	28	199	ES	1113	15.86	0.06										1.0
RCY	SZ	32	170	EP	1113	13.26	-0.01										1.0
RCY	SN	32	170	ES	1113	17.12	-0.01										1.0
QRTL	BZ	35	11	EP	1113	13.65	-0.03										0.2
HWQ	BZ	57	16	EP	1113	17.28	0.02										1.0

May 15 2012 Hour: 13:28 35.0 Lat: 33.78N Lon: 35.76E 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	17	324	EP		1328	37.67	-0.07	61						1.0
SAWL	BZ	17	131	EP		1328	37.78	0.02							1.0
DQRL	SZ	20	245	EP		1328	38.22	0.07							1.0
DQRL	SN	20	245	ES		1328	40.50	0.02							1.0
BEYL	BZ	27	292	EP		1328	39.36	0.04							1.0
QRWL	SZ	27	196	EP		1328	39.16	-0.16							1.0
QRWL	SN	27	196	ES		1328	42.55	0.04							1.0
RCY	SZ	32	168	EP		1328	40.17	-0.02							1.0
RCY	SN	32	168	ES		1328	44.06	0.02							1.0
QRTL	BZ	36	13	EP		1328	40.58	-0.15							1.0
BORL	BZ	47	62	EP		1328	42.62	0.07							1.0
SHBL	BZ	48	182	EP		1328	42.68	-0.04							1.0
MATL	BZ	51	231	EP		1328	43.29	-0.00							1.0
HWQ	SZ	58	17	EP		1328	44.33	0.00							1.0
HWQ	SN	58	17	ES		1328	51.21	-0.02							1.0
BENL	BZ	93	25	EP		1328	50.20	0.19							1.0

May 15 2012 Hour: 14:55 13.8 Lat: 34.65N Lon: 36.21E Depth: 6 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
HWQ	BZ	48	210	EP		1455	21.63	0.04	71						1.0
HWQ	BN	48	210	ES		1455	27.36	-0.02							1.0
QRTL	BZ	70	208	EP		1455	25.20	0.03							1.0
BHL	BZ	97	212	EP		1455	29.44	-0.07							1.0
BHL	BN	97	212	ES		1455	41.17	0.02							1.0
DQRL	SZ	120	210	EP		1455	32.92	0.01							1.0
RCY	SZ	132	195	EP		1455	34.74	-0.01							1.0

May 16 2012 Hour: 0:17 52.0 Lat: 35.54N Lon: 36.25E Depth: 19 Agency: REL Regional
Magnitudes: 3.7MC REL Rms: 0.1 secs

EMSC OT=00:17:52.0 35.78N 36.41E 20Km M=3.7 SYRIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BENL	BZ	111	183	EP		018	15.25	0.00							1.0
HWQ	SZ	143	191	EP		018	19.96	0.04							1.0
QRTL	BZ	165	193	EP		018	22.64	-0.01							1.0
BORL	BZ	174	181	EP		018	23.79	0.06							1.0
BHL	BZ	190	197	EP		018	25.66	-0.05	132						1.0
BHL	BN	190	197	ES		018	46.14	-0.18							1.0
SAWL	BZ	210	189	EP		018	28.10	-0.04							1.0
DQRL	SZ	213	197	EP		018	28.61	0.01							1.0
DQRL	SN	213	197	ES		018	51.58	0.23							1.0
QRWL	SZ	228	193	EP		018	30.42	0.06							1.0
RCY	SZ	230	190	EP		018	30.74	-0.02							1.0
RCY	SN	230	190	ES		018	55.11	0.01							1.0
SHBL	BZ	248	191	EP		018	32.91	-0.05							1.0
SHBL	BN	248	191	ES		018	58.88	-0.05							1.0

May 16 2012 Hour: 14: 9 50.6 Lat: 33.79N Lon: 35.79E Depth: 2 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	315	EP		14	9	53.46	-0.05	38					1.0
BHL	BE	18	315	ES		14	9	55.70	0.02						1.0
DQRL	SZ	22	245	EP		14	9	54.24	-0.00						1.0
DQRL	SN	22	245	ES		14	9	56.97	0.01						1.0
RCY	SZ	33	173	EP		14	9	55.95	0.03						1.0
RCY	SE	33	173	ES		14	9	59.86	-0.02						1.0
QRTL	BZ	34	9	EP		14	9	56.08	0.01						1.0
HWQ	BZ	56	15	EP		*14	9	59.65	0.03						0.0

May 17 2012 Hour: 4:50 44.7 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		5	9	15.37							
RCY	SZ			EP		5	9	16.98							
SHBL	BZ			EP		5	9	17.42							

May 17 2012 Hour: 10:21 35.0 Lat: 33.88N Lon: 35.83E Depth: 4 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	281	EP		1021		37.83	-0.01	43					1.0
QRTL	BZ	24	3	EP		1021		38.96	0.03						1.0
DQRL	SZ	31	232	EP		1021		40.07	0.04						1.0
DQRL	SN	31	232	ES		1021		43.76	-0.02						1.0
RCY	SZ	42	180	EP		1021		41.79	-0.02						1.0
RCY	SN	42	180	ES		1021		46.90	0.01						1.0
HWQ	BZ	46	13	EP		1021		42.37	-0.03						1.0
HWQ	BN	46	13	ES		1021		47.90	-0.00						1.0

May 17 2012 Hour: 10:27 56.5 Lat: 33.79N Lon: 35.78E Depth: 2 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	17	317	EP		1027		59.38	-0.01	24					1.0
BHL	BN	17	317	ES		1028		1.51	0.01						1.0
DQRL	SZ	22	245	EP		1028		0.06	-0.00						1.0
DQRL	SN	22	245	ES		1028		2.68	-0.00						1.0
RCY	SZ	33	171	EP		1028		1.88	0.02						1.0
RCY	SN	33	171	ES		1028		5.80	-0.01						1.0
HWQ	BZ	56	16	EP		1028		5.63	-0.00						1.0

May 17 2012 Hour: 14:17 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1417		23.55							
RCY	SZ			EP		1417		26.99							

May 17 2012 Hour: 18: 3 45.0 Lat: 33.78N Lon: 35.77E Depth: 5 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	17	322	EP		18	3	47.90	-0.04	47					1.0
BHL	BE	17	322	ES		18	3	50.12	0.00						1.0
SAWL	BZ	17	134	EP		18	3	47.98	-0.00						1.0
DQRL	SZ	20	244	EP		18	3	48.41	-0.05						1.0
DQRL	SN	20	244	ES		18	3	51.02	0.01						1.0
BEYL	BZ	27	291	EP		18	3	49.59	0.11						1.0
QRWL	SZ	28	197	EP		18	3	49.49	-0.08						1.0
QRWL	SN	28	197	ES		18	3	52.94	-0.01						1.0
RCY	SZ	33	169	EP		18	3	50.38	-0.02						1.0
RCY	SN	33	169	ES		18	3	54.47	0.08						1.0

BHL	BZ	50	2	EP		1318	44.26	0.02									1.0
QRTL	BZ	74	16	EP		1318	47.95	-0.08									1.0
HWQ	BZ	96	17	EP		1318	51.65	0.01									1.0

May 20 2012 Hour: 0:57 28.0

Agency: REL Regional

EMSC OT=00:57:28.0 35.08N 33.20E 30Km M=3.2 CYPRUS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		057	58.26								
DQRL	SZ			EP		057	58.90								
HWQ	BZ			EP		058	0.65								
QRWL	SZ			EP		058	1.94								
RCY	SZ			EP		058	4.00								
SHBL	BZ			EP		058	4.19								

May 20 2012 Hour: 2:3 53.0

Agency: REL Distant

EMSC OT=02:03:53.0 44.90N 11.24E 10Km M=6.1 ITALY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	BZ			EP		2 8	42.71								
HWQ	BZ			EP		2 8	43.40								
BHL	BZ			EP		2 8	43.84								
QRTL	BZ			EP		2 8	44.16								
QRWL	SZ			EP		2 8	47.05								

May 20 2012 Hour: 8:50 50.3

Lat: 33.83N Lon: 35.57E Depth: 0 Agency: REL Local

Magnitudes: 3.1MC REL

Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	BZ	8	305	EP		850	51.70	-0.00							1.0
BHL	BZ	12	43	EP		850	52.15	-0.07	74						1.0
DQRL	SZ	14	179	EP		850	52.51	-0.03							1.0
QRWL	SZ	33	161	EP		850	55.62	-0.02							1.0
QRWL	SN	33	161	ES		850	59.54	-0.02							1.0
SAWL	BZ	35	118	EP		850	55.92	-0.06							1.0
QRTL	BZ	39	42	EP		850	56.68	0.02							1.0
RCY	SZ	44	146	EP		850	57.56	0.06							1.0
RCY	SN	44	146	ES		851	2.88	0.08							1.0
HWQ	SZ	61	35	EP		851	0.31	0.14							1.0
BORL	BZ	62	74	EP		851	0.18	-0.09							1.0

May 22 2012 Hour: 0:0 33.0

Agency: REL Distant

EMSC OT=00:00:33.0 42.66N 23.01E 10Km M=5.6 BULGARIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		0 3	38.54								
HWQ	BZ			EP		0 3	39.87								

May 22 2012 Hour: 13:45 7.6

Lat: 33.78N Lon: 35.78E 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
SAWL	BZ	16	135	EP		1345	10.58	-0.08							1.0
SAWL	BN	16	135	ES		1345	12.95	0.03							1.0
BHL	BZ	18	320	EP		1345	10.71	-0.09	44						1.0
BHL	BN	18	320	ES		1345	13.16	-0.01							1.0
DQRL	SZ	21	246	EP		1345	11.27	-0.01							1.0
DQRL	SN	21	246	ES		1345	14.06	0.05							1.0
QRTL	BZ	35	11	EP		1345	13.50	0.06							1.0
BORL	BZ	46	62	EP		1345	15.11	0.00							1.0
HWQ	BZ	57	16	EP		1345	16.98	0.03							1.0

May 22 2012 Hour: 21:151.8 Lat: 34.06N Lon: 35.78E 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
QRTL	BZ	7	57	EP		21	1	52.96	0.02						1.0
QRTL	BN	7	57	ES		21	1	53.80	-0.03						1.0
BHL	BZ	21	215	EP		21	1	55.10	0.02	49					1.0
HWQ	BZ	29	31	EP		21	1	56.41	-0.00						1.0
DQRL	SZ	44	207	EP		21	1	58.76	-0.02						1.0
DQRL	SN	44	207	ES		21	2	3.95	-0.03						1.0
RCY	SZ	62	176	EP		21	2	1.83	0.04						1.0
SHBL	BZ	79	183	EP		21	2	4.42	-0.00						1.0
SHBL	BN	79	183	ES		21	2	13.79	-0.01						1.0

May 23 2012 Hour: 15:227.0 Agency: REL Distant

EMSC OT=15:02:27.0 41.43N 142.01E 60Km M=6.0 JAPAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1514	23.55								
QRTL	BZ			EP		1514	24.84								
BHL	BZ			EP		1514	26.01								
BEYL	BZ			EP		1514	26.64								
RCY	SZ			EP		1514	27.26								
DQRL	SZ			EP		1514	27.31								
QRWL	SZ			EP		1514	27.51								
SHBL	BZ			EP		1514	28.14								

May 23 2012 Hour: 20:26 1.5 Agency: REL Distant

EMSC OT=20:26:01.0 46.73N 152.61E 69Km M=5.6 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2038	10.76								
BHL	BZ			EP		2038	13.53								
SHBL	BZ			EP		2038	15.78								

May 24 2012 Hour: 0:38 26.2 Lat: 33.64N Lon: 34.86E Depth: 26 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.2 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	67	83	EP		038	37.57	0.28							1.0
DQRL	SN	67	83	ES		038	45.46	-0.03							1.0
QRWL	SZ	77	97	EP		038	38.97	0.18	46						1.0
BHL	BZ	80	68	EP		038	38.89	-0.24							1.0
SHBL	BZ	89	111	EP		038	40.19	-0.24							1.0
SHBL	BN	89	111	ES		038	50.97	0.01							1.0
RCY	SZ	92	99	EP		038	40.98	0.01							1.0
HWQ	BZ	123	54	EP		038	45.27	0.02							1.0

May 24 2012 Hour: 12:11 30.0 Agency: REL Regional

EMSC OT=12:11:30.0 36.48N 27.88E 71Km M=3.5 DODECANESE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1213	7.86								
QRTL	BZ			EP		1213	7.54								
RCY	SZ			EP		1213	10.48								

May 24 2012 Hour: 14:9 9.0 Agency: REL Regional

EMSC OT=14:09:09.0 35.92N 30.07E 2Km M=4.2 EAST MED SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1410	26.29								
QRTL	BZ			EP		1410	26.40								
RCY	SZ			EP		1410	29.85								

May 24 2012 Hour: 15:29 12.7 Lat: 33.77N Lon: 35.57E Depth: 26 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	7	182	EP		1529	17.15	-0.03	35						1.0
DQRL	SN	7	182	ES		1529	20.44	-0.03							1.0
BHL	BZ	17	26	EP		1529	17.91	0.12							1.0
RCY	SZ	39	141	EP		1529	20.16	0.02							1.0
RCY	SN	39	141	ES		1529	25.63	0.01							1.0
QRTL	BZ	44	35	EP		1529	20.73	-0.08							1.0

May 24 2012 Hour: 17:43 8.1 Lat: 33.80N Lon: 35.77E 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	319	EP		1743	11.54	-0.00	33						1.0
DQRL	SZ	21	241	EP		1743	12.16	-0.02							1.0
DQRL	SN	21	241	ES		1743	15.18	0.01							1.0
RCY	SZ	34	169	EP		1743	14.10	0.01							1.0
RCY	SN	34	169	ES		1743	18.49	-0.00							1.0
HWQ	BZ	56	17	EP		1743	17.44	0.00							1.0

May 24 2012 Hour: 18:31 8.6 Lat: 33.79N Lon: 35.81E 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	19	312	EP		1831	11.78	-0.02	25						1.0
BHL	BN	19	312	ES		1831	14.13	-0.02							1.0
DQRL	SZ	24	247	EP		1831	12.57	0.03							1.0
DQRL	SN	24	247	ES		1831	15.46	0.02							1.0
QRWL	SZ	29	203	EP		1831	13.37	-0.03							1.0
RCY	SZ	33	175	EP		1831	13.93	-0.03							1.0
RCY	SN	33	175	ES		1831	17.94	0.02							1.0
QRTL	BZ	34	7	EP		1831	14.18	0.03							1.0

May 24 2012 Hour: 21:47 45.6 Lat: 33.63N Lon: 35.75E Depth: 17 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	11	216	EP		2147	48.99	-0.03							1.0
QRWL	SN	11	216	ES		2147	51.51	-0.06							1.0
RCY	SZ	17	153	EP		2147	49.62	0.04	27						1.0
RCY	SN	17	153	ES		2147	52.56	0.02							1.0
DQRL	SZ	19	296	EP		2147	49.83	0.04							1.0
DQRL	SN	19	296	ES		2147	52.96	0.05							1.0
BHL	BZ	32	343	EP		2147	51.35	-0.06							1.0

May 24 2012 Hour: 22:47 45.0 Agency: REL Distant
EMSC OT=22:47:45.0 73.04N 5.77E 4Km M=6.2 GREENLAND SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2255	38.84								
HWQ	BZ			EP		2255	35.87								

May 25 2012 Hour: 11:22 39.0 Agency: REL Regional
EMSC OT=11:22:39.0 38.15N 38.58E 7Km M=4.6 TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1123	47.64								
QRTL	BZ			EP		1123	50.32								
BHL	BZ			EP		1123	53.91								
DQRL	SZ			EP		1123	57.57								
RCY	SZ			EP		1123	58.23								
QRWL	SZ			EP		1123	58.39								

May 25 2012 Hour: 11:50 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1150	21.02								
RCY	SZ			EP		1150	24.46								

May 25 2012 Hour: 13: 9 57.0

Lat: 33.78N 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	319	EP		13 9	59.78	-0.01	31						1.0
BHL	BN	17	319	ES		1310	1.85	-0.02							1.0
DQRL	SZ	21	245	EP		1310	0.41	0.03							1.0
DQRL	SN	21	245	ES		1310	2.89	-0.00							1.0
RCY	SZ	33	170	EP		1310	2.23	0.01							1.0
RCY	SN	33	170	ES		1310	6.07	-0.03							1.0
QRTL	BZ	35	11	EP		1310	2.61	0.03							1.0
HWQ	BZ	57	16	EP		1310	6.14	-0.02							1.0

May 25 2012 Hour: 16:22 38.2

Lat: 33.79N Lon: 35.78E 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	318	EP		1622	41.10	-0.04	37						1.0
DQRL	SZ	22	245	EP		1622	41.78	-0.01							1.0
DQRL	SN	22	245	ES		1622	44.46	0.04							1.0
RCY	SZ	33	171	EP		1622	43.61	0.04							1.0
RCY	SN	33	171	ES		1622	47.52	0.00							1.0
QRTL	BZ	34	11	EP		1622	43.80	-0.01							1.0
SHBL	BZ	49	184	EP		1622	46.15	-0.01							1.0
SHBL	BN	49	184	ES		1622	51.98	-0.04							1.0
HWQ	BZ	57	16	EP		1622	47.41	0.04							1.0

May 25 2012 Hour: 18:59 37.8

Lat: 33.25N Lon: 35.54E Depth: 15 Agency: REL Local

Magnitudes: 2.7MC 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	22	59	EP		1859	42.20	-0.04							1.0
SHBL	BN	22	59	ES		1859	45.55	0.05							1.0
QRWL	SZ	36	21	EP		1859	44.18	0.07							1.0
QRWL	SN	36	21	ES		1859	48.77	-0.00							1.0
RCY	SZ	39	45	EP		1859	44.49	-0.11	40						1.0
DQRL	SZ	51	3	EP		1859	46.31	-0.02							1.0
DQRL	SN	51	3	ES		1859	52.58	-0.04							1.0
BHL	BZ	74	8	EP		1859	49.69	0.03							1.0
HWQ	BZ	121	18	EP		1859	57.64	1.09							0.2

May 26 2012 Hour: 7: 2 53.9

Lat: 33.87N Lon: 35.84E 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	284	EP		7 2	56.68	-0.06	33						1.0
BHL	BN	17	284	ES		7 2	58.82	-0.01							1.0
QRTL	BZ	25	3	EP		7 2	57.96	0.00							1.0
DQRL	SZ	31	234	EP		7 2	58.95	0.10							1.0
DQRL	SN	31	234	ES		7 3	2.51	0.02							1.0
QRWL	SZ	38	202	EP		7 3	0.06	-0.03							1.0
QRWL	SN	38	202	ES		7 3	4.63	-0.02							1.0
RCY	SZ	41	180	EP		7 3	0.55	-0.01							1.0
RCY	SN	41	180	ES		7 3	5.46	-0.00							1.0
HWQ	BZ	47	12	EP		7 3	1.48	0.02							1.0

May 26 2012 Hour: 17:49 8.0 Agency: REL Regional

EMSC OT=17:49:08.0 35.46N 27.95E 2Km M=3.9 DODECANESE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1750	45.27								
SHBL	BZ			EP		1750	46.34								

May 26 2012 Hour: 21:27 22.0 Agency: REL Regional

EMSC OT=21:27:22.0 35.55N 27.98E 30Km M=3.5 DODECANESE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		2128	58.00								
HWQ	BZ			EP		2128	56.94								

May 26 2012 Hour: 21:48 8.0 Agency: REL Distant

EMSC OT=21:48:08.0 26.96N 140.09E 471Km M=6.0 JAPAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2159	57.75								
BHL	BZ			EP		2159	59.60								
RCY	SZ			EP		22 0	0.27								
DQRL	SZ			EP		22 0	0.64								
QRWL	SZ			EP		22 0	0.62								
SHBL	BZ			EP		22 0	0.96								

May 27 2012 Hour: 2:16 40.3 Lat: 33.68N Lon: 35.56E Depth: 11 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	3	22	EP		216	42.34	0.01	25						1.0
QRWL	SZ	19	143	EP		216	43.89	-0.02							1.0
QRWL	SN	19	143	ES		216	46.59	-0.01							1.0
BHL	BZ	26	20	EP		216	44.95	0.01							1.0
SHBL	BZ	41	155	EP		216	47.17	-0.02							1.0
SHBL	BN	41	155	ES		216	52.35	0.04							1.0

May 27 2012 Hour: 9:16 3.2 Lat: 34.00N Lon: 36.98E Depth: 15 Agency: REL Local

Magnitudes: 3.1MC REL

Rms: 0.1 secs

NEBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	100	288	EP		916	18.92	0.06							1.0
QRTL	BZ	104	276	EP		916	19.41	-0.14							1.0
RCY	SZ	120	242	EP		916	21.82	0.01	60						1.0
RCY	SN	120	242	ES		916	35.54	-0.04							1.0
DQRL	SZ	134	256	EP		916	23.99	0.07							1.0
DQRL	SN	134	256	ES		916	39.30	0.04							1.0

May 27 2012 Hour: 21:26 31.0 Agency: REL Regional

EMSC OT=21:26:31.0 35.50N 27.93E 10Km M=3.7 DODECANESE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		2128	9.07								
HWQ	BZ			EP		2128	9.42								

May 28 2012 Hour: 16:3 32.7 Lat: 33.54N Lon: 35.71E Depth: 0 Agency: REL Local

Magnitudes: 2.5MC REL

Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	293	EP		16 3	33.07	-0.09	30						1.0
RCY	SZ	13	111	EP		16 3	34.71	-0.05							1.0
RCY	SN	13	111	ES		16 3	36.27	-0.01							1.0
SHBL	BZ	21	171	EP		16 3	36.22	0.07							1.0
SHBL	BN	21	171	ES		16 3	38.69	-0.00							1.0
DQRL	SZ	23	325	EP		16 3	36.37	0.02							1.0
DQRL	SN	23	325	ES		16 3	39.06	0.01							1.0
BHL	BZ	41	353	EP		16 3	39.34	0.04							1.0

May 28 2012 Hour: 16:58 46.1 Lat: 33.77N Lon: 35.75E 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	329	EP		1658	48.83	-0.03							1.0
DQRL	SZ	18	246	EP		1658	49.14	0.06							1.0
DQRL	SN	18	246	ES		1658	51.23	-0.03							1.0
RCY	SZ	32	165	EP		1658	51.20	-0.06	33						1.0
SHBL	BZ	47	181	EP		1658	53.71	-0.04							1.0
SHBL	BN	47	181	ES		1658	59.44	0.06							1.0
HWQ	BZ	59	18	EP		1658	55.65	0.04							1.0

May 28 2012 Hour: 21:47 10.0 Agency: REL Distant

EMSC OT=21:47:10.0 19.94S 175.91W 221Km M=5.9 TONGA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		22 6	30.92								
HWQ	BZ			EP		22 6	31.62								
QRTL	BZ			EP		22 6	32.22								
BHL	BZ			EP		22 6	32.65								
DQRL	SZ			EP		22 6	33.14								
RCY	SZ			EP		22 6	33.08								
QRWL	SZ			EP		22 6	33.14								
SHBL	BZ			EP		22 6	33.41								

May 29 2012 Hour: 3:33 26.0 Agency: REL Distant

EMSC OT=03:33:26.0 22.10S 179.62W 610Km M=5.9 FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		351	58.40								
HWQ	BZ			EP		351	57.14								

May 29 2012 Hour: 7:0 3.0 Agency: REL Distant

EMSC OT=07:00:03.0 44.89N 11.07E 5Km M=5.8 ITALY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		7 4	56.47								
HWQ	BZ			EP		7 4	56.86								
SHBL	BZ			EP		7 5	1.29								

May 29 2012 Hour: 9:41 29.7 Lat: 33.87N Lon: 35.84E Depth: 1 Agency: REL Local

Magnitudes: 2.7MC REL

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	283	EP		941	32.53	-0.09	40						1.0
BHL	BN	18	283	ES		941	34.79	0.03							1.0
DQRL	SZ	31	234	EP		941	34.77	0.05							1.0
RCY	SZ	41	181	EP		941	36.36	-0.03							1.0
RCY	SN	41	181	ES		941	41.32	0.01							1.0
HWQ	BZ	47	12	EP		941	37.30	0.03							1.0

May 29 2012 Hour: 10:40 54.1 Lat: 33.79N Lon: 35.79E Depth: 10 Agency: REL Local

Magnitudes: 2.7MC REL

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	314	EP		1040	57.47	-0.01	38						1.0
BHL	BN	18	314	ES		1040	59.96	-0.00							1.0
DQRL	SZ	23	245	EP		1040	58.22	0.05							1.0
DQRL	SE	23	245	ES		1041	1.17	-0.00							1.0
QRWL	SZ	29	200	EP		1040	59.05	-0.07							1.0
RCY	SZ	33	173	EP		1040	59.81	0.03							1.0
RCY	SN	33	173	ES		1041	3.96	0.00							1.0
HWQ	BZ	56	15	EP		1041	3.29	0.00							1.0

May 29 2012 Hour: 10:55 56.0

Agency: REL Distant

EMSC OT=10:55:56.0 44.90N 10.99E 2Km M=5.5 ITALY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		11 0	48.81								
HWQ	BZ			EP		11 0	49.10								

May 29 2012 Hour: 16:28 34.0

Lat: 33.45N Lon: 35.63E Depth: 1 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	24	EP		1628	35.82	-0.07	42						1.0
SHBL	BZ	15	137	EP		1628	36.45	-0.02							1.0
SHBL	BN	15	137	ES		1628	38.35	0.02							1.0
RCY	SZ	20	75	EP		1628	37.19	0.03							1.0
RCY	SN	20	75	ES		1628	39.54	0.00							1.0
DQRL	SZ	29	349	EP		1628	38.63	-0.00							1.0
DQRL	SN	29	349	ES		1628	42.14	0.04							1.0
BHL	BZ	51	2	EP		1628	42.09	-0.01							1.0
QRTL	BZ	74	16	EP		1628	45.96	0.06							0.2
HWQ	BZ	96	18	EP		1628	49.57	0.06							0.2

May 29 2012 Hour: 17:59 26.9

Lat: 33.78N Lon: 35.77E Depth: 5 Agency: REL Local

Magnitudes: 2.6MC REL

Rms: 0.1 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		1759	29.86	-0.05	34						1.0
BHL	BN	17	321	ES		1759	32.10	-0.01							1.0
DQRL	SZ	21	245	EP		1759	30.49	0.06							1.0
DQRL	SN	21	245	ES		1759	33.07	0.05							1.0
QRWL	SZ	28	198	EP		1759	31.39	-0.12							1.0
QRWL	SN	28	198	ES		1759	34.84	-0.05							1.0
RCY	SZ	33	169	EP		1759	32.37	0.07							1.0
RCY	SN	33	169	ES		1759	36.30	0.03							1.0
HWQ	BZ	57	16	EP		1759	36.24	0.03							1.0

May 29 2012 Hour: 23:30 9.1

Lat: 34.05N Lon: 35.79E Depth: 0 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	7	52	EP		2330	10.25	0.01							1.0
QRTL	BN	7	52	ES		2330	11.06	-0.00							1.0
BHL	BZ	21	217	EP		2330	12.42	-0.09	41						1.0
BHL	BN	21	217	ES		2330	15.05	0.04							1.0
HWQ	BZ	29	30	EP		2330	13.75	0.01							1.0
DQRL	SZ	44	208	EP		2330	16.20	0.02							1.0
QRWL	SZ	57	190	EP		2330	18.39	0.06							1.0
RCY	SZ	62	176	EP		2330	19.10	-0.02							1.0
RCY	SN	62	176	ES		2330	26.51	-0.01							1.0

May 30 2012 Hour: 11: 4 26.1

Lat: 33.77N Lon: 35.78E Depth: 11 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	321	EP		11 4	29.48	-0.23	37						1.0
BHL	BN	18	321	ES		11 4	32.52	0.17							1.0
DQRL	SZ	21	249	EP		11 4	30.16	0.13							1.0
DQRL	SN	21	249	ES		11 4	32.80	-0.10							1.0
RCY	SZ	31	170	EP		11 4	31.75	0.17							1.0
RCY	SN	31	170	ES		11 4	35.51	-0.09							1.0
QRTL	BZ	36	11	EP		11 4	32.19	-0.06							1.0
HWQ	BZ	58	15	EP		11 4	35.71	0.01							1.0

May 30 2012 Hour: 17:12 1.5 Lat: 34.01N Lon: 35.91E Depth: 8 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	11	328	EP		1712	3.93	0.01							1.0
BHL	BZ	27	245	EP		1712	6.05	-0.04	39						1.0
BHL	BN	27	245	ES		1712	9.48	0.01							1.0
HWQ	BZ	30	6	EP		1712	6.68	0.02							1.0
DQRL	SZ	46	224	EP		1712	9.12	-0.01							1.0
RCY	SZ	57	187	EP		1712	10.82	-0.06							1.0
RCY	SN	57	187	ES		1712	17.70	-0.09							1.0
SHBL	BZ	75	192	EP		1712	13.71	0.02							1.0
SHBL	BN	75	192	ES		1712	22.83	0.14							1.0

May 30 2012 Hour: 21:20 56.0 Agency: REL Distant

EMSC OT=21:20:56.0 43.43N 78.80E 20Km M=5.4 KAZAKHSTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2127	42.13								
BHL	BZ			EP		2127	45.17								
SHBL	BZ			EP		2127	47.59								

May 31 2012 Hour: 2:35 24.4 Lat: 32.79N Lon: 35.40E Depth: 3 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	69	28	EP		235	35.70	0.06	40						1.0
SHBL	BN	69	28	ES		235	43.90	-0.03							1.0
RCY	SZ	88	27	EP		235	38.54	-0.08							1.0
RCY	SN	88	27	ES		235	49.16	0.04							1.0
DQRL	SZ	102	9	EP		235	40.98	0.03							1.0
DQRL	SN	102	9	ES		235	53.16	-0.01							1.0
BHL	BZ	125	11	EP		235	44.47	-0.06							1.0
QRTL	BZ	150	16	EP		235	48.18	0.04							1.0
HWQ	BZ	172	17	EP		235	51.45	0.02							1.0

May 31 2012 Hour: 11:13 11.6 Lat: 33.78N Lon: 35.78E Depth: 6 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	18	319	EP		1113	14.67	-0.03	44						1.0
DQRL	SZ	21	246	EP		1113	15.22	0.01							1.0
DQRL	SN	21	246	ES		1113	17.92	0.03							1.0
QRWL	SZ	28	199	EP		1113	16.08	-0.12							1.0
QRWL	SN	28	199	ES		1113	19.61	0.01							1.0
QRTL	BZ	35	11	EP		1113	17.38	0.04							1.0
SHBL	BZ	48	184	EP		1113	19.56	0.08							1.0
HWQ	BZ	57	16	EP		1113	20.86	-0.01							1.0

May 31 2012 Hour: 13:21 1.6 Lat: 33.45N Lon: 35.64E Depth: 0 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
QRWL	SZ	12	20	EP		1321	3.44	-0.06	30						1.0
QRWL	SN	12	20	ES		1321	4.93	-0.00							1.0
SHBL	BZ	15	138	EP		1321	3.95	-0.01							1.0
SHBL	BN	15	138	ES		1321	5.73	-0.00							1.0
RCY	SZ	19	73	EP		1321	4.75	0.07							1.0
DQRL	SZ	29	348	EP		1321	6.36	0.04							1.0
DQRL	SN	29	348	ES		1321	9.86	0.03							1.0
QRTL	BZ	74	15	EP		1321	13.47	-0.06							1.0
HWQ	BZ	97	17	EP		1321	17.19	0.05							0.2

Epicentral Map of Lebanon

MAY 2012

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

