

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

March

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 ($0.5 * (\text{peak to peak})$), (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.

March 1 2012 Hour: 18:12 4.1 Lat: 33.86N Lon: 35.83E Depth: 4 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	288	EP		1812	6.85	-0.03	37						1.0
SAWL	BZ	21	161	EP		1812	7.58	0.00							1.0
DQRL	SZ	29	234	EP		1812	8.80	-0.03							1.0
DQRL	SN	29	234	ES		1812	12.41	0.05							1.0
QRWL	SZ	37	201	EP		1812	10.08	0.01							1.0
QRWL	SN	37	201	ES		1812	14.48	-0.05							1.0
BORL	BZ	38	69	EP		1812	10.20	-0.02							1.0
RCY	SZ	40	179	EP		1812	10.63	0.03							1.0
RCY	SN	40	179	ES		1812	15.45	0.01							1.0
AZOL	BZ	42	219	EP		1812	10.93	-0.01							1.0
HWQ	SZ	48	13	EP		1812	11.85	0.02							1.0

March 2 2012 Hour: 8:4 0.0 Agency: REL Regional

EMSC OT=08:04:00.0 34.54N 25.80E 49Km M=4.5 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		8 5	56.47								
QRWL	SZ			EP		8 5	55.24								

March 3 2012 Hour: 3:10 14.8 Lat: 33.76N Lon: 35.74E 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
DQRL	SZ	17	251	EP		310	17.50	0.01							1.0
DQRL	SN	17	251	ES		310	19.51	0.03							1.0
SAWL	BZ	17	120	EP		310	17.53	-0.03							1.0
BHL	BZ	18	334	EP		310	17.65	-0.12	45						1.0
QRWL	SZ	24	193	EP		310	18.55	-0.05							1.0
QRWL	SN	24	193	ES		310	21.48	0.06							1.0
BEYL	BZ	26	300	EP		310	19.10	0.06							1.0
AZOL	BZ	28	221	EP		310	19.41	0.02							1.0
RCY	SZ	30	163	EP		310	19.57	-0.07							1.0
RCY	SE	30	163	ES		310	23.18	-0.04							1.0
BORL	BZ	50	60	EP		310	23.05	0.20							1.0
HWQ	BZ	61	18	EP		310	24.60	-0.06							1.0

March 5 2012 Hour: 6:52 0.0 Agency: REL Regional

EMSC OT=06:50:34.0 35.04N 44.09E 2Km M=4.7 IRAQ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		652	22.37								
BHL	BZ			EP		652	20.30								

March 5 2012 Hour: 13:16 2.0 Agency: REL Regional

EMSC OT=13:16:02.0 36.58N 38.85E 10Km M=3.4 TURKEY-SYRIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1316	55.72								
DQRL	SZ			EP		1317	2.46								

March 5 2012 Hour: 18:11 46.2 Lat: 32.90N Lon: 35.59E Depth: 1 Agency: REL Local
Magnitudes: 2.8MC 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	52	16	EP		1811	54.54	-0.01							1.0
SHBL	BN	52	16	ES		1812	0.75	-0.00							1.0
RCY	SZ	70	19	EP		1811	57.49	0.00	45						1.0
RCY	SN	70	19	ES		1812	5.87	0.00							1.0
AZOL	BZ	74	356	EP		1811	58.00	-0.07							1.0
DQRL	SZ	90	359	EP		1812	0.72	0.10							1.0
SAWL	BZ	91	18	EP		1812	0.87	0.00							1.0
BHL	BZ	112	3	EP		1812	3.67	-0.52							0.2

BORL	BZ	133	25	EP		1812	7.52	-0.00										1.0
BENL	BZ	190	17	EP		1812	15.75	0.00										1.0

March 6 2012 Hour: 12:19 17.5 Lat: 33.46N Lon: 35.64E Depth: 8 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	21	EP		1219	19.82	0.04							1.0
QRWL	SN	11	21	ES		1219	21.46	0.02							1.0
AZOL	BZ	15	320	EP		1219	20.33	-0.01							1.0
SHBL	BZ	16	142	EP		1219	20.49	0.01							1.0
SHBL	BN	16	142	ES		1219	22.65	-0.01							1.0
RCY	SZ	19	77	EP		1219	20.96	0.06	27						1.0
RCY	SN	19	77	ES		1219	23.32	-0.08							1.0
DQRL	SZ	28	347	EP		1219	22.23	-0.08							1.0
SAWL	BZ	34	45	EP		1219	23.28	0.03							1.0

March 6 2012 Hour: 12:33 35.4 Lat: 33.76N Lon: 36.74E Depth: 7 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.1 secs

DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BORL	BZ	55	296	EP		1233	44.32	-0.08							1.0
SAWL	BZ	79	263	EP		1233	48.17	-0.03							1.0
SAWL	BN	79	263	ES		1233	57.72	0.07							1.0
HWQ	SZ	93	308	EP		1233	50.53	0.00	53						1.0
BENL	BZ	101	329	EP		1233	51.59	-0.03							1.0
SHBL	BZ	104	244	EP		1233	52.21	0.10							1.0
SHBL	BN	104	244	ES		1234	4.38	-0.07							1.0
TBRL	BZ	108	315	EP		1233	52.73	0.07							1.0
DQRL	SZ	109	267	EP		1233	52.89	0.03							1.0
AZOL	BZ	114	259	EP		1233	53.55	-0.06							1.0

March 6 2012 Hour: 16: 3 42.8 Lat: 33.37N Lon: 35.59E Depth: 8 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	14	98	EP		16 3	45.62	-0.00							1.0
SHBL	BN	14	98	ES		16 3	47.72	0.03							1.0
QRWL	SZ	22	22	EP		16 3	46.58	-0.08							1.0
AZOL	BZ	22	347	EP		16 3	46.76	0.03							1.0
RCY	SZ	27	57	EP		16 3	47.35	-0.10	39						1.0
RCY	SN	27	57	ES		16 3	50.87	0.01							1.0
DQRL	SZ	38	357	EP		16 3	49.12	0.01							1.0
SAWL	BZ	45	39	EP		16 3	50.30	0.07							1.0
BORL	BZ	89	40	EP		16 3	57.28	0.06							0.2
HWQ	BZ	106	18	EP		16 3	59.86	0.01							1.0
BENL	BZ	141	23	EP		16 4	5.05	0.08							0.2

March 7 2012 Hour: 8:47 53.8 Lat: 33.31N Lon: 35.42E Depth: 0 Agency: REL Local
Magnitudes: 3.6MC REL Rms: 0.1 secs

SOUTH LEBANON

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	30	21	EP		847	58.54	-0.04							1.0
SHBL	BZ	30	82	EP		847	58.66	-0.00							1.0
SHBL	BN	30	82	ES		848	2.28	-0.01							1.0
QRWL	SZ	36	43	EP		847	59.52	-0.01							1.0
RCY	SZ	44	62	EP		848	0.79	-0.03							1.0
RCY	SN	44	62	ES		848	6.06	0.02							1.0
DQRL	SZ	46	18	EP		848	1.17	0.00							1.0
DQRL	SN	46	18	ES		848	6.66	0.01							1.0
SAWL	BZ	60	47	EP		848	3.56	0.07							1.0
BEYL	BZ	63	6	EP		848	3.83	-0.02							1.0
VERD	SZ	63	5	EP		848	3.98	0.00							0.2

BHL	BZ	69	18	EP	848	4.87	-0.06	139									1.0
BHL	BE	69	18	ES	848	13.22	0.02										1.0
BORL	BZ	104	44	EP	848	10.43	-0.09										1.0
HWQ	SZ	118	24	EP	848	12.79	0.03										1.0
TBRL	BZ	134	20	EP	848	15.38	0.05										1.0
BENL	BZ	154	27	EP	848	18.29	0.04										1.0

March 7 2012 Hour: 8:58 52.2 Lat: 33.29N Lon: 35.41E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC 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	32	78	EP		858	57.32	-0.10							1.0
SHBL	BE	32	78	ES		859	1.10	-0.16							1.0
AZOL	BZ	33	22	EP		858	57.40	-0.13							1.0
QRWL	SZ	39	42	EP		858	58.19	-0.27							1.0
QRWL	SE	39	42	ES		859	3.35	0.27							1.0
RCY	SZ	46	60	EP		858	59.80	0.12	32						1.0
RCY	SN	46	60	ES		859	5.30	0.10							1.0
SAWL	BZ	63	46	EP		859	2.46	0.05							1.0
HWQ	BZ	121	24	EP	*	859	11.28	-0.43							0.0

March 7 2012 Hour: 14: 6 12.9 Lat: 33.32N Lon: 35.41E Depth: 0 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.1 secs

SOUTH LEBANON

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	30	24	EP		14 6	17.65	0.01							1.0
SHBL	BZ	32	84	EP		14 6	17.85	-0.13							1.0
SHBL	BN	32	84	ES		14 6	21.75	-0.01							1.0
QRWL	SZ	36	45	EP		14 6	18.59	-0.10							1.0
RCY	SZ	45	64	EP		14 6	19.96	-0.10							1.0
RCY	SN	45	64	ES		14 6	25.32	-0.06							1.0
DQRL	SZ	46	20	EP		14 6	20.16	-0.05							1.0
DQRL	SN	46	20	ES		14 6	25.52	-0.12							1.0
SAWL	BZ	61	49	EP		14 6	22.95	0.28							1.0
VERD	SZ	63	6	EP		14 6	22.86	-0.10							1.0
BHL	BZ	69	19	EP		14 6	23.85	-0.12	77						1.0
BHL	BN	69	19	ES		14 6	32.13	-0.06							1.0
TZHL	BZ	75	37	EP		14 6	24.87	-0.01							1.0
BORL	BZ	104	45	EP		14 6	29.96	0.27							1.0
HWQ	SZ	118	25	EP		14 6	31.85	0.02							1.0
TBRL	BZ	133	20	EP		14 6	34.37	-0.01							1.0
BENL	BZ	153	28	EP		14 6	37.65	0.32							1.0

March 7 2012 Hour: 14:37 21.6 Lat: 33.45N Lon: 35.63E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	24	EP		1437	23.43	-0.02							1.0
QRWL	SE	12	24	ES		1437	24.83	-0.01							1.0
AZOL	BZ	15	324	EP		1437	24.02	0.01							1.0
SHBL	BZ	16	138	EP		1437	24.11	0.01							1.0
SHBL	BN	16	138	ES		1437	25.94	-0.02							1.0
RCY	SZ	20	75	EP		1437	24.77	0.03	32						1.0
RCY	SN	20	75	ES		1437	27.10	0.02							1.0
DQRL	SZ	29	348	EP		1437	26.24	0.03							1.0
SAWL	BZ	35	45	EP		1437	27.25	-0.02							1.0
HWQ	BZ	96	18	EP		1437	37.05	-0.03							1.0

March 7 2012 Hour: 17:31 20.5 Lat: 33.31N Lon: 35.41E Depth: 0 Agency: REL Local
 Magnitudes: 3.0MC REL Rms: 0.1 secs

SOUTH LEBANON

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	31	22	EP		1731	25.45	0.07							1.0
SHBL	BZ	31	81	EP		1731	25.49	0.01							1.0
QRWL	SZ	37	43	EP		1731	26.30	-0.06							1.0
QRWL	SN	37	43	ES		1731	30.68	-0.05							1.0
RCY	SZ	45	62	EP		1731	27.60	-0.04							1.0
DQRL	SZ	47	18	EP		1731	27.92	-0.05							1.0
DQRL	SN	47	18	ES		1731	33.53	0.00							1.0
SAWL	BZ	61	48	EP		1731	30.39	0.07							1.0
VERD	SZ	64	6	EP		1731	30.75	-0.00							1.0
BHL	BZ	70	19	EP		1731	31.71	-0.02	56						1.0
TZHL	BZ	75	35	EP		1731	32.62	0.04							1.0
BORL	BZ	105	45	EP		1731	37.45	0.10							1.0
HWQ	SZ	118	24	EP		1731	39.51	-0.05							1.0
TBRL	BZ	134	20	EP		1731	42.18	0.08							1.0
BENL	BZ	154	27	EP		1731	44.94	-0.08							1.0

March 7 2012 Hour: 19: 3 39.0 Lat: 33.31N Lon: 35.41E Depth: 0 Agency: REL Local
 Magnitudes: 3.1MC REL Rms: 0.3 secs

SOUTH LEBANON

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	31	22	EP		19 3	43.81	-0.10							1.0
SHBL	BZ	31	81	EP		19 3	43.83	-0.18							1.0
QRWL	SZ	37	43	EP		19 3	44.86	-0.03							1.0
RCY	SZ	45	62	EP		19 3	46.07	-0.11							1.0
DQRL	SZ	47	18	EP		19 3	46.24	-0.25							1.0
DQRL	SN	47	18	ES		19 3	51.81	-0.27							1.0
SAWL	BZ	61	48	EP		19 3	49.07	0.21							1.0
VERD	SZ	64	6	EP		19 3	48.57	-0.71							0.2
BHL	BZ	70	19	EP		19 3	50.06	-0.20	64						1.0
BHL	BN	70	19	ES		19 3	58.29	-0.34							1.0
TZHL	BZ	75	36	EP		19 3	51.41	0.29							1.0
HWQ	SZ	119	25	EP		19 3	57.84	-0.26							1.0
HWQ	SN	119	25	ES		*19 4	12.26	-0.00							0.0
TBRL	BZ	135	20	EP		19 4	1.56	0.92							1.0
BENL	BZ	155	27	EP		19 4	4.21	0.64							1.0

March 8 2012 Hour: 1:15 53.9 Lat: 33.31N Lon: 35.42E Depth: 0 Agency: REL Local
 Magnitudes: 3.5MC REL Rms: 0.1 secs

SOUTH LEBANON

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	31	21	EP		115	58.85	-0.01							1.0
SHBL	BZ	31	81	EP		115	58.84	-0.05							1.0
SHBL	BN	31	81	ES		116	2.54	-0.00							1.0
QRWL	SZ	36	42	EP		115	59.70	-0.10							1.0
RCY	SZ	44	61	EP		116	1.03	-0.04							1.0
RCY	SN	44	61	ES		116	6.34	-0.00							1.0
DQRL	SZ	47	18	EP		116	1.23	-0.22							1.0
SAWL	BZ	61	47	EP		116	3.89	0.13							1.0
VERD	SZ	64	5	EP		116	4.71	0.45							0.2
BHL	BZ	70	18	EP		116	4.84	-0.37	115						1.0
TZHL	BZ	75	35	EP		116	6.09	0.05							1.0
HWQ	SZ	118	24	EP		116	13.30	0.26							1.0
TBRL	BZ	134	20	EP		116	15.92	0.32							1.0
BENL	BZ	154	27	EP		116	18.53	0.01							1.0

March 8 2012 Hour: 8:25 49.8 Lat: 33.28N Lon: 35.34E Depth: 4 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.1 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	36	30	EP		825	55.75	0.08							1.0
SHBL	BZ	38	79	EP		825	56.00	-0.03							1.0
SHBL	BN	38	79	ES		826	0.60	-0.03							1.0
QRWL	SZ	43	47	EP		825	56.86	0.03							1.0
QRWL	SE	43	47	ES		826	2.05	0.03							1.0
DQRL	SZ	51	24	EP		825	58.04	-0.13							1.0
RCY	SZ	52	63	EP		825	58.20	0.00	51						1.0
RCY	SN	52	63	ES		826	4.36	-0.04							1.0
SAWL	BZ	68	50	EP		826	0.86	0.06							1.0
BHL	BZ	75	23	EP		826	1.79	-0.12							1.0
TZHL	BZ	81	38	EP		826	3.06	0.10							1.0
BORL	BZ	111	46	EP		826	7.86	0.07							1.0
HWQ	BZ	124	27	EP		826	9.55	-0.07							1.0
BENL	BZ	160	29	EP		826	14.94	0.05							1.0

March 8 2012 Hour: 12:42 43.7 Lat: 33.45N Lon: 35.62E Depth: 1 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	29	EP		1242	45.75	0.06							1.0
QRWL	SE	12	29	ES		1242	47.18	-0.01							1.0
AZOL	BZ	14	329	EP		1242	45.94	-0.07							1.0
SHBL	BZ	16	134	EP		1242	46.33	-0.00							1.0
SHBL	BN	16	134	ES		1242	48.34	0.03							1.0
RCY	SZ	21	76	EP		1242	46.98	-0.08	28						1.0
DQRL	SZ	29	351	EP		1242	48.36	0.07							1.0
BHL	BZ	50	4	EP		1242	51.81	0.01							1.0

March 8 2012 Hour: 14:22 3.4 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1425	31.45								
HWQ	BZ			EP		1425	32.09								
BHL	BZ			EP		1425	38.24								

March 8 2012 Hour: 14:43 4.2 Lat: 33.38N Lon: 35.62E Depth: 4 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	12	109	EP		1443	6.37	-0.02							1.0
SHBL	BN	12	109	ES		1443	8.02	0.03							1.0
QRWL	SZ	19	17	EP		1443	7.48	0.05							1.0
QRWL	SE	19	17	ES		1443	9.81	0.02							1.0
AZOL	BZ	21	339	EP		1443	7.67	-0.09							1.0
RCY	SZ	24	58	EP		1443	8.16	0.02	30						1.0
RCY	SE	24	58	ES		1443	10.98	-0.06							1.0
DQRL	SZ	36	352	EP		1443	10.17	0.06							1.0

March 8 2012 Hour: 15:36 10.5 Lat: 33.88N Lon: 35.85E 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	127	EP		1536	11.07	-0.07							1.0
BHL	BZ	18	279	EP		1536	13.40	-0.05							1.0
SAWL	BZ	23	169	EP		1536	14.13	-0.03							1.0
DQRL	SZ	32	234	EP		1536	15.68	-0.02							1.0
DQRL	SE	32	234	ES		1536	19.60	0.03							1.0
BORL	BZ	35	72	EP		1536	16.13	0.03							1.0
RCY	SZ	43	182	EP		1536	17.36	0.02	40						1.0
RCY	SN	43	182	ES		1536	22.41	0.00							1.0

HWQ	BZ	45	11	EP		1536	17.77	0.02									1.0
AZOL	BZ	46	220	EP		1536	17.86	0.02									1.0
SHBL	BZ	60	190	EP		1536	20.16	0.04									1.0

March 8 2012 Hour: 16:433.8 Lat: 33.41N Lon: 35.64E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	12	126	EP		16	4	35.79							1.0
QRWL	SZ	16	14	EP		16	4	36.33							1.0
AZOL	BZ	19	330	EP		16	4	36.91							1.0
RCY	SZ	20	62	EP		16	4	36.88		35					1.0
RCY	SN	20	62	ES		16	4	39.57							1.0
DQRL	SZ	33	349	EP		16	4	39.21							1.0
SAWL	BZ	38	39	EP		16	4	40.16							1.0

March 8 2012 Hour: 22:50 8.0 Agency: REL Distant

EMSC OT=22:50:08.0 39.44N 81.39E 40Km M=5.8 CHINA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2257		10.43							
BHL	BZ			EP		2257		13.17							
DQRL	SZ			EP		2257		14.54							
SHBL	BZ			EP		2257		15.00							

March 9 2012 Hour: 7:9 53.0 Agency: REL Distant

EMSC OT=07:09:53.0 19.10S 169.71E 29Km M=6.7 VANUATU

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		729		11.39							
BHL	BZ			EP		729		11.76							
SHBL	BZ			EP		729		12.68							

March 9 2012 Hour: 20:52 54.0 Agency: REL Regional

EMSC OT=20:52:54.0 34.79N 32.51E 10Km M=3.9 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2053		37.61							
DQRL	SZ			EP		2053		38.64							
HWQ	BZ			EP		2053		39.86							
QRWL	SZ			EP		2053		40.52							
RCY	SZ			EP		2053		42.31							
SHBL	BZ			EP		2053		42.53							

March 9 2012 Hour: 22:20 47.6 Lat: 33.69N Lon: 35.77E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SAWL	BZ	12	97	EP		2220		49.58							1.0
QRWL	SZ	18	207	EP		2220		50.54							1.0
DQRL	SZ	19	275	EP		2220		50.67							1.0
DQRL	SN	19	275	ES		2220		52.87							1.0
TZHL	BZ	21	30	EP		2220		51.13							1.0
RCY	SZ	22	164	EP		2220		51.26							1.0
RCY	SE	22	164	ES		2220		53.85							1.0
AZOL	BZ	26	237	EP		2220		51.81							1.0
BHL	BZ	26	336	EP		2220		51.68		42					1.0
SHBL	BZ	38	184	EP		2220		53.81							1.0
SHBL	BN	38	184	ES		2220		58.29							1.0
BORL	BZ	52	52	EP		2220		55.99							1.0
HWQ	BZ	67	14	EP		2220		58.43							0.2
BENL	BZ	102	22	EP		2221		4.11							0.2

March 10 2012 Hour: 17:55 0.4 Lat: 33.33N Lon: 35.54E Depth: 8 Agency: REL Local
Magnitudes: 2.8MC 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	19	84	EP		1755	3.88	0.03							1.0
SHBL	BN	19	84	ES		1755	6.49	0.06							1.0
AZOL	BZ	26	360	EP		1755	4.86	0.08							1.0
QRWL	SZ	28	29	EP		1755	5.13	0.06							1.0
RCY	SZ	33	56	EP		1755	5.92	-0.05	42						1.0
RCY	SN	33	56	ES		1755	10.08	-0.03							1.0
DQRL	SZ	42	4	EP		1755	7.26	-0.02							1.0
SAWL	BZ	51	41	EP		1755	8.63	-0.14							1.0
BEYL	BZ	60	356	EP		1755	10.14	-0.05							1.0
BHL	BZ	65	10	EP		1755	10.84	-0.06							1.0
BHL	BN	65	10	ES		1755	18.75	0.05							1.0
TZHL	BZ	67	29	EP		1755	11.25	-0.02							1.0
HWQ	BZ	112	20	EP		1755	18.20	0.01							1.0
TBRL	BZ	129	16	EP		1755	20.63	0.02							1.0
BENL	BZ	147	24	EP		1755	23.41	0.07							1.0

March 11 2012 Hour: 14:31 34.6 Lat: 33.46N Lon: 35.63E Depth: 0 Agency: REL Local
Magnitudes: 2.2MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	27	EP		1431	36.47	-0.02	21						1.0
QRWL	SN	12	27	ES		1431	37.87	-0.00							1.0
AZOL	BZ	14	325	EP		1431	36.97	0.01							1.0
SHBL	BZ	16	137	EP		1431	37.27	0.03							1.0
RCY	SZ	20	77	EP		1431	37.78	-0.09							1.0
RCY	SN	20	77	ES		1431	40.28	0.02							1.0
DQRL	SZ	28	349	EP		1431	39.19	-0.01							1.0
SAWL	BZ	36	46	EP		1431	40.42	0.06							1.0

March 12 2012 Hour: 0:38 25.9 Lat: 33.00N Lon: 35.29E Depth: 15 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
AZOL	BZ	67	20	EP		038	36.74	0.01							1.0
RCY	SZ	75	43	EP		038	37.98	-0.05	34						1.0
RCY	SE	75	43	ES		038	47.00	0.01							1.0
DQRL	SZ	83	18	EP		038	39.09	-0.01							1.0
DQRL	SN	83	18	ES		038	48.85	-0.01							1.0
BHL	BZ	106	19	EP		038	42.52	-0.02							1.0
TZHL	BZ	111	30	EP		038	43.29	0.12							1.0
BORL	BZ	138	38	EP		038	47.25	-0.03							1.0
HWQ	BZ	155	23	EP		038	49.65	-0.02							1.0

March 12 2012 Hour: 12:32 48.0 Agency: REL Distant
EMSC OT=12:32:48.0 45.29N 147.64E 126Km M=5.6 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1244	44.32								
RCY	SZ			EP		1244	45.88								
DQRL	SZ			EP		1244	45.88								
SHBL	BZ			EP		1244	46.08								

March 12 2012 Hour: 23:55 36.8 Lat: 32.88N Lon: 35.12E Depth: 21 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.1 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	78	48	EP		2355	49.43	-0.00							1.0
SHBL	BE	78	48	ES		2355	58.69	-0.06							1.0
AZOL	BZ	85	27	EP		2355	50.43	0.04							1.0
QRWL	SZ	91	35	EP		2355	51.18	-0.05							1.0

QRWL	SE	91	35	ES	2356	1.87	-0.00										1.0
RCY	SZ	96	44	EP	2355	52.02	0.05	58									1.0
DQRL	SZ	101	25	EP	2355	52.63	-0.05										1.0
DQRL	SN	101	25	ES	2356	4.45	0.05										1.0
SAWL	BZ	114	39	EP	2355	54.72	0.00										1.0
BEYL	BZ	115	18	EP	2355	54.26	-0.49										0.2
BHL	BZ	124	24	EP	2355	55.98	-0.11										1.0
TZHL	BZ	130	33	EP	2355	57.12	0.17										1.0
QRTL	BZ	150	27	EP	2355	59.56	-0.04										1.0
HWQ	BZ	173	26	EP	2356	2.43	0.03										1.0

March 13 2012 Hour: 10: 2 42.0 Agency: REL Regional
EMSC OT=10:02:42.0 34.36N 26.60E 10Km M=3.6 CRETE,GREECE
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ BZ EP 10 4 35.13
 RCY SZ EP 10 4 33.44

March 13 2012 Hour: 10:44 53.0 Agency: REL Regional
EMSC OT=10:44:53.0 35.37N 31.38E 40Km M=4.4 CYPRUS REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1045 50.04
 DQRL SZ EP 1045 50.12
 HWQ SZ EP 1045 51.58
 SHBL BZ EP 1045 54.10
 RCY SZ EP 1045 53.93

March 13 2012 Hour: 22:11 52.5 Lat: 33.81N Lon: 35.72E Depth: 0 Agency: REL Local
Magnitudes: 2.0MC 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	12	327	EP		2211	54.37	-0.06	15						1.0
BHL	BN	12	327	ES		2211	55.87	0.01							1.0
TZHL	BZ	16	72	EP		2211	55.06	0.03							1.0
DQRL	BZ	19	230	EP		2211	55.51	0.00							1.0
DQRL	BN	19	230	ES		2211	57.77	0.03							1.0
SAWL	BZ	22	133	EP		2211	56.00	-0.07							1.0
BORL	BZ	48	68	EP		2212	0.34	0.05							1.0

March 13 2012 Hour: 22:18 3.3 Lat: 33.82N Lon: 35.72E Depth: 6 Agency: REL Local
Magnitudes: 2.0MC 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	11	328	EP		2218	5.48	-0.01	14						1.0
BHL	BN	11	328	ES		2218	7.12	-0.00							1.0
TZHL	BZ	16	73	EP		2218	6.17	0.02							1.0
DQRL	BZ	19	228	EP		2218	6.51	0.00							1.0
DQRL	BN	19	228	ES		2218	8.89	0.01							1.0
SAWL	BZ	23	132	EP		2218	7.13	-0.02							1.0
BORL	BZ	49	68	EP		2218	11.25	0.01							1.0

March 13 2012 Hour: 22:51 11.3 Lat: 33.82N Lon: 35.72E 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	11	328	EP		2251	13.59	0.02	46						1.0
TZHL	BZ	16	74	EP		2251	14.24	0.03							1.0
DQRL	SZ	19	228	EP		2251	14.60	0.00							1.0
DQRL	SN	19	228	ES		2251	16.99	-0.01							1.0
BEYL	BZ	22	286	EP		2251	14.86	-0.17							0.2
SAWL	BZ	23	133	EP		2251	15.19	-0.03							1.0
VERD	SZ	23	287	EP		2251	15.02	-0.24							0.2
QRWL	SZ	30	187	EP		2251	16.32	-0.04							1.0
QRWL	SN	30	187	ES		2251	20.07	0.00							1.0
QRTL	BZ	33	22	EP		2251	16.67	-0.10							1.0

AZOL	BZ	33	211	EP		2251	16.93	0.12									1.0
RCY	SZ	37	163	EP		2251	17.40	-0.09									1.0
RCY	SE	37	163	ES		2251	22.03	0.00									1.0
BORL	BZ	49	68	EP		2251	19.39	0.11									1.0
HWQ	SZ	55	22	EP		2251	20.35	0.01									1.0

March 13 2012 Hour: 23:17 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	BZ			EP		2318	25.41								
BHL	BZ			EP		2318	24.37								

March 14 2012 Hour: 1:2 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	BZ			EP		1 3	47.15								
BHL	BZ			EP		1 3	46.13								

March 14 2012 Hour: 1:27 30.9

Lat: 33.81N Lon: 35.72E Depth: 5 Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.3 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	329	EP		127	33.12	-0.06	50						1.0
BHL	BE	12	329	ES		127	34.85	0.00							1.0
TZHL	BZ	16	70	EP		127	33.85	0.13							1.0
DQRL	BZ	18	231	EP		127	34.14	0.08							1.0
DQRL	BE	18	231	ES		127	36.40	0.02							1.0
SAWL	BZ	22	132	EP		127	34.59	-0.04							1.0
BEYL	BZ	22	288	EP		127	34.88	0.23							0.2
VERD	SZ	24	289	EP		127	35.02	0.14							0.2
QRWL	SZ	29	187	EP		127	35.74	-0.03							1.0
AZOL	BZ	32	212	EP		127	36.24	-0.02							1.0
QRTL	BZ	33	21	EP		127	36.14	-0.29							1.0
RCY	SZ	36	163	EP		127	36.86	-0.03							1.0
BORL	BZ	49	67	EP		127	38.85	0.00							1.0
SHBL	BZ	51	178	EP		127	39.27	0.00							1.0
HWQ	BZ	56	22	EP		127	40.07	0.06							1.0
HWQ	BN	56	22	ES		127	46.75	0.02							1.0
TBRL	BZ	73	14	EP		127	44.36	1.67							0.2
BENL	BZ	92	28	EP		127	46.47	0.73							0.2

March 14 2012 Hour: 1:31 38.9

Lat: 33.82N Lon: 35.72E Depth: 8 Agency: REL Local

Magnitudes: 2.4MC REL

Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	11	326	EP		131	41.22	-0.01	26						1.0
BHL	BE	11	326	ES		131	42.94	-0.03							1.0
TZHL	BZ	16	74	EP		131	41.94	0.12							1.0
DQRL	BZ	19	228	EP		131	42.25	-0.03							1.0
DQRL	BN	19	228	ES		131	44.81	0.02							1.0
BEYL	BZ	22	285	EP		131	42.70	0.03							1.0
SAWL	BZ	23	134	EP		131	42.82	-0.02							1.0
VERD	SZ	23	287	EP		131	42.87	-0.02							1.0
QRWL	SZ	30	187	EP		131	43.92	-0.08							1.0
AZOL	BZ	33	211	EP		131	44.62	0.17							1.0
RCY	SZ	37	164	EP		131	45.00	-0.10							1.0
BORL	BZ	48	69	EP		131	46.83	0.02							1.0
HWQ	BZ	55	22	EP		131	47.82	-0.04							1.0

March 14 2012 Hour: 2:15 1.1

Lat: 33.81N Lon: 35.73E Depth: 2 Agency: REL Local

Magnitudes: 2.2MC 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	12	325	EP		215	3.21	0.04	21						1.0
BHL	BE	12	325	ES		215	4.66	-0.02							1.0
TZHL	BZ	15	72	EP		215	3.69	0.02							1.0

DQRL	SZ	19	231	EP	215	4.20-0.05											1.0
DQRL	SE	19	231	ES	215	6.59 0.03											1.0
SAWL	BZ	22	134	EP	215	4.72-0.00											1.0
VERD	SZ	24	288	EP	215	5.07 0.03											1.0
QRTL	BZ	33	20	EP	215	6.33-0.11											1.0
AZOL	BZ	33	212	EP	215	6.56 0.05											1.0
RCY	SZ	37	164	EP	215	7.02-0.06											1.0
RCY	SE	37	164	ES	215	11.45-0.03											1.0
BORL	BZ	48	68	EP	215	9.02 0.13											1.0
HWQ	SZ	55	21	EP	215	10.00-0.05											1.0
BENL	BZ	91	27	EP	215	16.04 0.24											0.2

March 14 2012 Hour: 3: 7 11.7 Lat: 33.81N Lon: 35.72E Depth: 2 Agency: REL Local
Magnitudes: 2.0MC 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	12	328	EP		3	7	13.76-0.02	15						1.0
BHL	BN	12	328	ES		3	7	15.30 0.01							1.0
TZHL	BZ	16	71	EP		3	7	14.37 0.01							1.0
DQRL	SZ	18	230	EP		3	7	14.77 0.01							1.0
DQRL	SN	18	230	ES		3	7	17.00-0.00							1.0
SAWL	BZ	22	132	EP		3	7	15.34 0.00							1.0
SAWL	BN	22	132	ES		3	7	18.00-0.01							1.0
AZOL	BZ	33	212	EP		3	7	17.09 0.07							0.2
QRTL	BZ	33	21	EP		3	7	17.12-0.00							1.0

March 14 2012 Hour: 8: 1 32.1 Lat: 33.80N Lon: 35.72E 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	13	332	EP		8	1	34.03-0.10	37						1.0
TZHL	BZ	17	68	EP		8	1	34.77 0.03							1.0
DQRL	SZ	18	232	EP		8	1	34.89-0.03							1.0
DQRL	SE	18	232	ES		8	1	37.07 0.05							1.0
SAWL	BZ	22	130	EP		8	1	35.59 0.00							1.0
VERD	SZ	24	291	EP		8	1	35.95 0.04							1.0
QRWL	SZ	29	187	EP		8	1	36.68-0.01							1.0
QRWL	SE	29	187	ES		8	1	40.02-0.08							1.0
AZOL	BZ	32	212	EP		8	1	37.21 0.02							1.0
QRTL	BZ	34	21	EP		8	1	37.65 0.06							1.0
RCY	SZ	36	162	EP		8	1	37.86 0.02							1.0
RCY	SE	36	162	ES		8	1	42.13 0.02							1.0
BORL	BZ	49	67	EP		8	1	39.98-0.03							1.0
HWQ	SZ	57	22	EP		8	1	41.21-0.01							1.0

March 14 2012 Hour: 9: 8 35.0 Agency: REL Distant

EMSC OT=09:08:35.0 40.95N 144.91E 10Km M=6.9 JAPAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		920	49.53								
BHL	BZ			EP		920	52.00								
BEYL	BZ			EP		920	52.19								
SHBL	BZ			EP		920	52.57								

March 14 2012 Hour: 15:29 0.0 Lat: 33.85N Lon: 35.83E 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	5	79	EP		1529	0.78-0.11								1.0
BHL	BZ	17	291	EP		1529	2.84-0.00	44							1.0
BHL	BN	17	291	ES		1529	4.92-0.00								1.0
SAWL	BZ	20	161	EP		1529	3.27 0.01								1.0
QRTL	BZ	27	4	EP		1529	4.36-0.03								1.0
DQRL	SZ	29	237	EP		1529	4.67-0.02								1.0
DQRL	SN	29	237	ES		1529	8.16 0.03								1.0

VERD	SZ	33	276	EP		1529	5.24	-0.05								1.0
BORL	BZ	38	68	EP		1529	6.17	0.04								1.0
RCY	SZ	39	179	EP		1529	6.37	0.03								1.0
AZOL	BZ	42	221	EP		1529	6.80	0.02								1.0
HWQ	SZ	49	13	EP		1529	7.93	0.02								1.0
HWQ	SN	49	13	ES		1529	13.75	0.02								1.0
BENL	BZ	84	23	EP		1529	14.44	0.94								0.2

March 14 2012 Hour: 17:46 49.9 Lat: 33.81N Lon: 35.73E 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	13	328	EP		1746	51.87	-0.06	62						1.0
BHL	BE	13	328	ES		1746	53.44	0.00							1.0
TZHL	BZ	16	69	EP		1746	52.61	0.17							1.0
DQRL	SZ	18	232	EP		1746	52.88	0.02							1.0
DQRL	SE	18	232	ES		1746	55.04	-0.02							1.0
SAWL	BZ	22	132	EP		1746	53.43	0.05							1.0
BEYL	BZ	23	288	EP		1746	53.60	0.05							1.0
VERD	SZ	24	289	EP		1746	53.89	0.10							1.0
QRWL	SZ	29	188	EP		1746	54.50	-0.10							1.0
QRWL	SN	29	188	ES		1746	58.17	0.09							1.0
AZOL	BZ	32	213	EP		1746	54.90	-0.23							0.2
QRTL	BZ	34	20	EP		1746	54.95	-0.35							1.0
RCY	SZ	36	164	EP		1746	55.65	-0.06							1.0
RCY	SN	36	164	ES		1746	59.95	-0.06							1.0
BORL	BZ	48	67	EP		1746	57.59	-0.12							0.2
HWQ	SZ	56	21	EP		1746	59.26	0.34							0.2
BENL	BZ	92	27	EP		1747	4.85	0.17							1.0

March 14 2012 Hour: 18: 8 42.1 Lat: 33.82N Lon: 35.71E Depth: 12 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	10	331	EP		18 8	44.84	-0.06	24						1.0
TZHL	BZ	17	77	EP		18 8	45.60	-0.05							1.0
DQRL	SZ	18	225	EP		18 8	45.77	-0.03							1.0
DQRL	SN	18	225	ES		18 8	48.58	0.07							1.0
SAWL	BZ	24	132	EP		18 8	46.60	0.01							1.0
QRTL	BZ	33	24	EP		18 8	47.88	0.03							1.0
RCY	SZ	38	162	EP		18 8	48.63	-0.06							1.0
RCY	SN	38	162	ES		18 8	53.53	0.01							1.0
BORL	BZ	49	70	EP		18 8	50.49	0.07							1.0
HWQ	SZ	55	23	EP		18 8	51.31	0.00							1.0

March 14 2012 Hour: 18:37 20.5 Lat: 33.81N Lon: 35.71E Depth: 4 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	12	333	EP		1837	22.62	-0.01	23						1.0
TZHL	BZ	17	71	EP		1837	23.38	-0.00							1.0
DQRL	BZ	18	229	EP		1837	23.46	-0.02							1.0
DQRL	BN	18	229	ES		1837	25.67	0.02							1.0
SAWL	BZ	23	130	EP		1837	24.27	-0.00							1.0
RCY	SZ	36	162	EP		1837	26.48	-0.01							1.0
RCY	SN	36	162	ES		1837	30.88	0.00							1.0
HWQ	BZ	56	22	EP		1837	29.69	0.02							1.0

March 14 2012 Hour: 20:10 6.8 Lat: 33.84N Lon: 35.70E Depth: 20 Agency: REL Local
Magnitudes: 2.1MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	9	328	EP		2010	10.36	-0.02	16						1.0
TZHL	BZ	17	83	EP		2010	11.09	0.03							1.0
DQRL	BZ	19	220	EP		2010	11.31	0.03							1.0
DQRL	BN	19	220	ES		2010	14.60	-0.01							1.0
SAWL	BZ	25	134	EP		2010	11.96	-0.02							1.0
RCY	SZ	40	162	EP		2010	13.87	-0.01							1.0
RCY	SN	40	162	ES		2010	19.14	0.00							1.0
HWQ	SZ	54	25	EP		2010	15.74	-0.05							0.2

March 14 2012 Hour: 20:25 53.6 Lat: 33.80N Lon: 35.72E Depth: 0 Agency: REL Local
Magnitudes: 3.3MC REL Rms: 0.1 secs

BEIRUT REGION

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	13	331	EP		2025	55.58	-0.13	90						1.0
BHL	BN	13	331	ES		2025	57.20	-0.03							1.0
TZHL	BZ	16	68	EP		2025	56.32	0.02							1.0
DQRL	SZ	18	232	EP		2025	56.55	0.06							1.0
DQRL	SN	18	232	ES		2025	58.65	0.05							1.0
SAWL	BZ	22	130	EP		2025	57.10	-0.05							1.0
BEYL	BZ	22	290	EP		2025	57.21	-0.04							0.2
VERD	SZ	24	291	EP		2025	57.49	0.01							0.2
QRWL	SZ	29	187	EP		2025	58.22	-0.04							1.0
AZOL	BZ	32	212	EP		2025	58.62	-0.14							0.2
QRTL	BZ	34	21	EP		2025	58.61	-0.55							0.2
RCY	SZ	36	162	EP		2025	59.36	-0.04							1.0
RCY	SN	36	162	ES		2026	3.67	0.00							1.0
BORL	BZ	49	67	EP		2026	1.28	-0.29							0.2
SHBL	BZ	51	178	EP		2026	1.81	0.01							1.0
HWQ	SZ	57	22	EP		2026	2.98	0.20							1.0
BENL	BZ	92	28	EP		2026	8.55	0.01							0.2

March 14 2012 Hour: 21:22 33.8 Lat: 33.80N Lon: 35.72E Depth: 0 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.1 secs

BEIRUT REGION

Earthquake was felt

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	13	332	EP		2122	35.75	-0.13	75						1.0
BHL	BN	13	332	ES		2122	37.46	0.02							1.0
TZHL	BZ	17	67	EP		2122	36.47	0.01							1.0
DQRL	SZ	17	233	EP		2122	36.62	0.02							1.0
SAWL	BZ	22	129	EP		2122	37.24	-0.02							1.0
BEYL	BZ	22	291	EP		2122	37.44	0.04							1.0
VERD	SZ	24	292	EP		2122	37.67	0.03							1.0
QRWL	SZ	28	187	EP		2122	38.36	0.01							1.0
QRWL	SN	28	187	ES		2122	41.73	0.00							1.0
AZOL	BZ	31	213	EP		2122	38.80	-0.06							1.0
QRTL	BZ	34	20	EP		2122	39.37	0.03							1.0
RCY	SZ	35	162	EP		2122	39.43	-0.07							1.0
RCY	SN	35	162	ES		2122	43.78	0.05							1.0
BORL	BZ	49	66	EP		2122	41.47	-0.26							0.2
HWQ	SZ	57	21	EP		2122	42.94	-0.02							1.0
BENL	BZ	93	27	EP		2122	48.79	0.07							1.0

March 14 2012 Hour: 22: 6 31.2 Lat: 33.81N Lon: 35.71E Depth: 0 Agency: REL Local
 Magnitudes: 2.1MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	334	EP		22	6	33.15-0.05	16						1.0
BHL	BE	12	334	ES		22	6	34.72	0.04						1.0
TZHL	BZ	17	70	EP		22	6	33.93-0.03							1.0
DQRL	SZ	17	230	EP		22	6	34.07	0.08						1.0
DQRL	SE	17	230	ES		22	6	36.01-0.04							1.0
SAWL	BZ	22	129	EP		22	6	34.80-0.02							1.0
QRTL	BZ	34	22	EP		22	6	36.75	0.01						1.0
RCY	SZ	36	162	EP		22	6	36.99-0.04							1.0
RCY	SN	36	162	ES		22	6	41.38	0.04						1.0
BORL	BZ	50	67	EP		22	6	39.28	0.05						1.0
HWQ	SZ	57	22	EP		22	6	40.34-0.02							1.0

March 15 2012 Hour: 0:20 13.7 Lat: 33.82N Lon: 35.71E Depth: 8 Agency: REL Local
 Magnitudes: 2.1MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	11	330	EP		020	16.02	0.05	18						1.0
BHL	BE	11	330	ES		020	17.64-0.03								1.0
TZHL	BZ	17	75	EP		020	16.79	0.05							1.0
DQRL	SZ	18	226	EP		020	17.03	0.04							1.0
DQRL	SE	18	226	ES		020	19.42-0.02								1.0
SAWL	BZ	23	132	EP		020	17.69-0.06								1.0
QRTL	BZ	33	23	EP		020	19.14-0.02								1.0
RCY	SZ	38	162	EP		020	19.94-0.01								1.0
RCY	SN	38	162	ES		020	24.61	0.02							1.0
HWQ	SZ	55	23	EP		020	22.69-0.02								1.0

March 16 2012 Hour: 14: 7 54.6 Lat: 33.81N Lon: 35.72E Depth: 7 Agency: REL Local
 Magnitudes: 2.2MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	331	EP		14	7	56.78-0.04	19						1.0
BHL	BN	12	331	ES		14	7	58.51	0.01						1.0
TZHL	BZ	17	73	EP		14	7	57.56	0.03						1.0
SAWL	BZ	23	131	EP		14	7	58.49	0.03						1.0
SAWL	BN	23	131	ES		*14	8	1.34-0.01							0.0
AZOL	BZ	32	211	EP		14	7	60.00	0.06						1.0
QRTL	BZ	33	22	EP		14	8	0.09	0.01						1.0
RCY	SZ	37	162	EP		14	8	0.60-0.06							1.0
RCY	SN	37	162	ES		14	8	5.16-0.02							1.0
BORL	BZ	49	68	EP		14	8	2.59	0.00						1.0
HWQ	SZ	56	22	EP		14	8	3.62-0.02							1.0

March 17 2012 Hour: 3:26 3.8 Lat: 33.21N Lon: 35.79E Depth: 4 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.1 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	32	8	EP		326	9.00-0.04	37							1.0
RCY	SE	32	8	ES		326	12.92	0.02							1.0
QRWL	SZ	39	345	EP		326	10.19	0.09							1.0
QRWL	SN	39	345	ES		326	14.71-0.03								1.0
AZOL	BZ	45	329	EP		326	11.10-0.09								1.0
SAWL	BZ	53	11	EP		326	12.22-0.16								1.0
DQRL	SZ	58	340	EP		326	13.36	0.07							1.0
DQRL	SN	58	340	ES		326	20.28-0.01								1.0
TZHL	BZ	72	7	EP		326	15.57	0.06							1.0
BHL	BZ	78	351	EP		326	16.43	0.02							1.0
QRTL	BZ	98	3	EP		326	19.71	0.09							1.0
HWQ	SZ	119	7	EP		326	23.00-0.02								1.0

March 17 2012 Hour: 3:49 42.0 Agency: REL Regional

EMSC OT=03:49:42.0 34.27N 33.15E 10Km M=3.8 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		350	18.73								
DQRL	SZ			EP		350	21.38								
HWQ	BZ			EP		350	22.25								
QRWL	SZ			EP		350	22.47								
RCY	SZ			EP		350	24.25								

March 17 2012 Hour: 14:42 50.7 Lat: 33.36N Lon: 35.58E Depth: 9 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	15	97	EP		1442	53.78	0.05							1.0
SHBL	BN	15	97	ES		1442	55.98	-0.01							1.0
AZOL	BZ	22	349	EP		1442	54.63	-0.03							1.0
QRWL	SZ	22	25	EP		1442	54.65	-0.03							1.0
QRWL	SN	22	25	ES		1442	57.67	0.03							1.0
RCY	SZ	28	58	EP		1442	55.42	-0.10	40						1.0
DQRL	SZ	38	358	EP		1442	57.06	0.03							1.0
DQRL	SN	38	358	ES		1443	1.71	-0.02							1.0
SAWL	BZ	46	40	EP		1442	58.30	0.05							1.0
BHL	BZ	60	6	EP		1443	0.57	0.02							1.0

March 17 2012 Hour: 19:32 59.0 Lat: 33.63N Lon: 35.67E Depth: 4 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	9	174	EP		1933	0.64	-0.07							1.0
QRWL	SE	9	174	ES		1933	1.99	0.01							1.0
DQRL	SZ	13	312	EP		1933	1.20	0.01							1.0
DQRL	SE	13	312	ES		1933	2.83	0.01							1.0
AZOL	BZ	15	239	EP		1933	1.53	0.05							1.0
RCY	SZ	21	134	EP		1933	2.54	-0.01	29						1.0
RCY	SN	21	134	ES		1933	5.20	0.01							1.0
SAWL	BZ	22	76	EP		1933	2.68	0.05							1.0
BHL	BZ	30	357	EP		1933	3.92	-0.05							1.0

March 18 2012 Hour: 10:55 36.4 Lat: 33.44N Lon: 35.62E Depth: 2 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
SHBL	BZ	15	129	EP		1055	38.96	0.01	24						1.0
SHBL	BN	15	129	ES		1055	40.83	0.02							1.0
AZOL	BZ	16	332	EP		1055	38.96	-0.06							1.0
RCY	SZ	21	72	EP		1055	39.84	-0.07							1.0
RCY	SN	21	72	ES		1055	42.51	0.01							1.0
DQRL	SZ	30	352	EP		1055	41.42	0.09							1.0
SAWL	BZ	38	44	EP		1055	42.49	-0.01							1.0
SAWL	BN	38	44	ES		1055	47.01	0.01							1.0

March 18 2012 Hour: 13:23 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1324	8.52								
DQRL	SZ			EP		1324	12.39								

March 19 2012 Hour: 8:40 55.8 Lat: 33.68N Lon: 35.91E 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
SAWL	BZ	1	224	EP		840	55.98	-0.06	23						1.0
TZHL	BZ	19	354	EP		840	58.93	-0.04							1.0
RCY	SZ	22	197	EP		840	59.44	0.10							1.0

RCY	SN	22	197	ES		841	1.94	-0.00									1.0
BHL	BZ	34	316	EP		841	1.32	0.04									1.0
SHBL	BZ	40	202	EP		841	2.32	0.02									1.0
SHBL	BN	40	202	ES		841	7.04	-0.05									1.0
BORL	BZ	43	41	EP		841	2.72	-0.04									1.0
BORL	BN	43	41	ES		841	7.90	0.02									1.0
QRTL	BZ	46	353	EP		841	3.19	0.01									1.0

March 19 2012 Hour: 10:34 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1035	8.03								
SHBL	BZ			EP		1035	7.32								

March 19 2012 Hour: 12:21 26.2

Lat: 33.48N Lon: 35.63E 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	9	34	EP		1221	27.55	0.01	24						1.0
QRWL	SN	9	34	ES		1221	28.57	0.00							1.0
AZOL	BZ	12	315	EP		1221	28.12	-0.01							1.0
SHBL	BZ	18	145	EP		1221	29.15	0.01							1.0
SHBL	BN	18	145	ES		1221	31.35	0.00							1.0
RCY	SZ	19	86	EP		1221	29.22	-0.03							1.0
RCY	SN	19	86	ES		1221	31.54	-0.00							1.0
SAWL	BZ	33	49	EP		1221	31.50	0.02							1.0

March 19 2012 Hour: 13:17 3.4

Lat: 33.41N Lon: 35.42E Depth: 2 Agency: REL Local

Magnitudes: 2.4MC REL

Rms: 0.1 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	20	32	EP		1317	6.68	-0.09	27						1.0
AZOL	BN	20	32	ES		1317	9.15	-0.09							1.0
SHBL	BZ	31	102	EP		1317	8.48	0.04							1.0
SHBL	BN	31	102	ES		1317	12.19	0.04							1.0
DQRL	SZ	36	23	EP		1317	9.28	0.02							1.0
DQRL	SN	36	23	ES		1317	13.77	0.19							1.0
SAWL	BZ	54	56	EP		1317	12.11	-0.01							1.0
SAWL	BN	54	56	ES		1317	18.49	-0.06							1.0
QRTL	BZ	86	28	EP		1317	17.23	-0.05							1.0

March 19 2012 Hour: 16:20 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1621	30.82								
SHBL	BZ			EP		1621	29.78								

March 19 2012 Hour: 21:13 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		2114	23.97								
RCY	SZ			EP		2114	24.15								

March 20 2012 Hour: 8:47 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		847	40.24								
SHBL	BZ			EP		847	37.37								

March 20 2012 Hour: 11:26 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1126	59.26								
SHBL	BZ			EP		1126	58.58								

March 20 2012 Hour: 11:41 50.5 Lat: 33.35N Lon: 35.54E Depth: 19 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	19	92	EP		1141	54.79	-0.10							1.0
SHBL	BE	19	92	ES		1141	58.25	0.08							1.0
AZOL	BZ	23	359	EP		1141	55.27	-0.04							1.0
QRWL	SZ	25	31	EP		1141	55.61	0.05							1.0
QRWL	SN	25	31	ES		1141	59.28	-0.06							1.0
RCY	SZ	32	60	EP		1141	56.43	0.01	33						1.0
DQRL	SZ	39	4	EP		1141	57.50	0.10							1.0
SAWL	BZ	49	43	EP		1141	58.77	-0.02							1.0
HWQ	SZ	109	20	EP		1142	7.41	-0.15							0.2

March 20 2012 Hour: 15:11 41.0 Agency: REL Regional

EMSC OT=15:11:41.0 36.23N 41.22E 2Km M=4.1 SYRIA-IRAQ BORDER

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1513	8.87								
HWQ	SZ			EP		1513	0.16								

March 20 2012 Hour: 15:32 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1533	16.30								
SHBL	BZ			EP		1533	13.58								

March 20 2012 Hour: 23:51 10.0 Agency: REL Regional

EMSC OT=23:51:10.0 36.01N 24.25E 70Km M=4.6 SOUTHERN GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2353	19.36								
BHL	BZ			EP		2353	19.76								
QRWL	SZ			EP		2353	21.33								
HWQ	SZ			EP		2353	21.93								
SHBL	BZ			EP		2353	22.45								
RCY	SZ			EP		2353	23.22								

March 21 2012 Hour: 5:46 47.6 Lat: 33.86N Lon: 35.85E 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
TZHL	BZ	4	100	EP		546	48.14	-0.07							1.0
BHL	BZ	18	284	EP		546	50.43	-0.11	58						1.0
SAWL	BZ	21	166	EP		546	51.03	0.02							1.0
QRTL	BZ	25	1	EP		546	51.63	-0.03							1.0
DQRL	SZ	31	236	EP		546	52.58	-0.01							1.0
DQRL	SN	31	236	ES		546	56.36	0.07							1.0
BORL	BZ	36	69	EP		546	53.39	0.02							1.0
RCY	SZ	41	181	EP		546	54.22	0.05							1.0
RCY	SN	41	181	ES		546	59.06	0.02							1.0
HWQ	SZ	47	11	EP		546	55.25	0.10							1.0
SHBL	BZ	58	189	EP		546	56.94	-0.00							1.0
SHBL	BN	58	189	ES		547	3.80	-0.06							1.0

March 21 2012 Hour: 12:30 40.1 Lat: 33.86N Lon: 36.45E Depth: 0 Agency: REL Local
Magnitudes: 3.3MC REL Rms: 0.1 secs

DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BORL	BZ	25	300	EP		1230	44.16	-0.08							1.0
SAWL	BZ	55	248	EP		1230	49.00	0.05							1.0
QRTL	BZ	61	295	EP		1230	49.82	-0.11							1.0
HWQ	SZ	65	315	EP		1230	50.78	0.12							1.0
RCY	SZ	70	235	EP		1230	51.47	0.09	82						1.0
RCY	SN	70	235	ES		1230	59.62	-0.09							1.0
BENL	BZ	79	342	EP		1230	52.95	0.07							1.0

DQRL	SZ	83	258	EP		1230	53.43	-0.10											1.0
DQRL	SN	83	258	ES		1231	3.51	0.06											1.0
SHBL	BZ	87	229	EP		1230	54.02	-0.10											1.0
SHBL	BN	87	229	ES		1231	4.60	0.14											1.0
AZOL	BZ	91	249	EP		1230	54.73	-0.03											1.0

March 22 2012 Hour: 0:38 13.0

Agency: REL Regional

EMSC OT=00:38:13.0 35.50N 26.09E 10Km M=4.3 CRETE,GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		040	10.67								
HWQ	SZ			EP		040	10.95								
RCY	SZ			EP		040	11.23								

March 22 2012 Hour: 4:17 3.0

Agency: REL Regional

EMSC OT=04:17:03.0 31.28N 35.48E 24Km M=3.7 DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		417	36.39								
RCY	SZ			EP		417	39.10								
DQRL	SZ			EP		417	42.12								
BHL	BZ			EP		417	44.39								
HWQ	SZ			EP		417	50.80								

March 22 2012 Hour: 12:18 11.0

Lat: 33.45N

Lon: 35.62E

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	27	EP		1218	12.95	-0.04							1.0
QRWL	SN	12	27	ES		1218	14.47	0.01							1.0
AZOL	BZ	15	328	EP		1218	13.39	-0.01							1.0
SHBL	BZ	16	135	EP		1218	13.57	0.01							1.0
RCY	SZ	21	75	EP		1218	14.31	-0.00	30						1.0
RCY	SE	21	75	ES		1218	16.74	-0.02							1.0
SAWL	BZ	36	45	EP		1218	16.89	0.05							1.0

March 22 2012 Hour: 14: 8 19.5

Lat: 33.35N

Lon: 35.58E

Depth: 13

Agency: REL

Local

Magnitudes: 2.6MC REL

Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	15	89	EP		14 8	22.87	-0.02							1.0
SHBL	BE	15	89	ES		14 8	25.43	0.01							1.0
QRWL	SZ	24	23	EP		14 8	24.07	0.07							1.0
AZOL	BZ	24	350	EP		14 8	24.00	0.00							1.0
QRWL	SN	24	23	ES		14 8	27.30	-0.06							1.0
RCY	SZ	29	55	EP		14 8	24.63	-0.07	36						1.0
RCY	SN	29	55	ES		14 8	28.64	0.06							1.0
DQRL	SZ	40	358	EP		14 8	26.32	0.02							1.0
SAWL	BZ	47	39	EP		14 8	27.41	-0.01							1.0

March 22 2012 Hour: 15:54 31.0

Lat: 33.40N

Lon: 35.65E

Depth: 16

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
SHBL	BZ	10	120	EP		1554	34.38	0.02	27						1.0
SHBL	BN	10	120	ES		1554	36.79	-0.03							1.0
RCY	SZ	21	57	EP		1554	35.46	0.03							1.0
RCY	SN	21	57	ES		1554	38.69	0.01							1.0
AZOL	BZ	21	331	EP		1554	35.43	0.04							1.0
DQRL	SZ	35	348	EP		1554	37.24	-0.04							1.0
SAWL	BZ	39	37	EP		1554	37.85	-0.02							1.0

March 22 2012 Hour: 22:17 41.6 Lat: 33.61N Lon: 35.80E Depth: 3 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
SAWL	BZ	12	51	EP		2217	43.64	0.01							1.0
RCY	SZ	13	166	EP		2217	43.82	-0.04	31						1.0
RCY	SN	13	166	ES		2217	45.53	0.01							1.0
DQRL	SZ	24	296	EP		2217	45.49	-0.01							1.0
DQRL	SE	24	296	ES		2217	48.38	0.00							1.0
AZOL	BZ	25	257	EP		2217	45.75	0.05							1.0
TZHL	BZ	28	16	EP		2217	46.29	0.04							1.0
SHBL	BZ	30	190	EP		2217	46.45	-0.00							1.0
BHL	BZ	35	337	EP		2217	47.25	-0.07							1.0
BORL	BZ	55	43	EP		2217	50.59	0.01							1.0

March 23 2012 Hour: 5:15 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		515	51.04								
SHBL	BZ			EP		515	48.30								

March 23 2012 Hour: 9:17 18.3 Lat: 33.79N Lon: 35.79E Depth: 13 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	12	48	EP		917	21.34	-0.01							1.0
SAWL	BZ	16	141	EP		917	21.73	-0.07							1.0
BHL	BZ	18	315	EP		917	22.01	-0.06	32						1.0
DQRL	SZ	22	246	EP		917	22.67	0.04							1.0
DQRL	SN	22	246	ES		917	25.88	0.04							1.0
RCY	SZ	33	173	EP		917	24.10	-0.00							1.0
RCY	SN	33	173	ES		917	28.41	0.01							1.0
QRTL	BZ	34	9	EP		917	24.39	0.10							1.0
BORL	BZ	44	61	EP		917	25.82	0.05							0.2
BORL	BN	44	61	ES		917	31.37	0.06							1.0
HWQ	SZ	56	15	EP		917	27.46	-0.11							1.0

March 24 2012 Hour: 6:44 52.3 Lat: 33.88N Lon: 35.85E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TZHL	BZ	4	126	EP		644	52.87	-0.05							1.0
BHL	BZ	18	279	EP		644	55.19	-0.02							1.0
BHL	BN	18	279	ES		644	57.42	0.02							1.0
SAWL	BZ	23	168	EP		644	55.93	0.00							1.0
SAWL	BN	23	168	ES		644	58.69	0.04							1.0
QRTL	BZ	24	0	EP		644	56.02	-0.04							1.0
DQRL	SZ	32	233	EP		644	57.52	0.06							1.0
BORL	BZ	35	72	EP		644	57.96	0.08							1.0
BORL	BN	35	72	ES		645	2.07	0.02							1.0
RCY	SZ	42	182	EP		644	59.09	-0.01	42						1.0
RCY	SN	42	182	ES		645	4.10	-0.07							1.0
HWQ	SZ	45	11	EP		644	59.50	-0.03							1.0

March 24 2012 Hour: 12:1 9.9 Lat: 33.28N Lon: 34.63E Depth: 23 Agency: REL Local
Magnitudes: 3.3MC REL Rms: 0.1 secs

OFFSHORE SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AZOL	BZ	90	69	EP		12 1	24.25	0.06							1.0
DQRL	SZ	99	61	EP		12 1	25.55	-0.01	88						1.0
DQRL	SN	99	61	ES		12 1	37.15	-0.01							1.0
QRWL	SZ	102	73	EP		12 1	25.87	-0.10							1.0
QRWL	SN	102	73	ES		12 1	37.94	0.06							1.0
SHBL	BZ	104	85	EP		12 1	26.19	-0.06							1.0

BEYL	BZ	104	50	EP		12	1	26.20	0.07								1.0
SHBL	BN	104	85	ES		12	1	38.34	-0.02								1.0
RCY	SZ	114	77	EP		12	1	27.75	-0.06								1.0
RCY	SN	114	77	ES		12	1	41.14	0.05								1.0
BHL	BZ	117	53	EP		12	1	28.17	-0.07								1.0
TZHL	BZ	133	61	EP		12	1	30.42	0.12								1.0
QRTL	BZ	144	51	EP		12	1	31.74	-0.01								1.0
HWQ	SZ	165	47	EP		12	1	34.32	0.06								1.0
HWQ	SN	165	47	ES		12	1	52.20	-0.10								1.0

March 24 2012 Hour: 12:47 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1248	27.70								
SHBL	BZ			EP		1248	26.97								

March 25 2012 Hour: 10:3 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		10	3	29.61							
RCY	SZ			EP		10	3	31.46							

March 25 2012 Hour: 11:45 19.0 Lat: 33.40N Lon: 35.65E Depth: 6 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	11	123	EP		1145	21.14	0.03	25						1.0
SHBL	BN	11	123	ES		1145	22.65	-0.01							1.0
RCY	SZ	20	59	EP		1145	22.47	-0.03							1.0
AZOL	BZ	21	330	EP		1145	22.43	-0.06							1.0
AZOL	BN	21	330	ES		1145	25.10	0.03							1.0
SAWL	BZ	39	37	EP		1145	25.38	0.05							1.0
SAWL	BN	39	37	ES		1145	30.00	-0.01							1.0

March 25 2012 Hour: 13:59 23.0

Agency: REL Distant

EMSC OT=13:59:23.0 18.56S 178.80W 515Km M=5.1 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1418	5.55								
RCY	SZ			EP		1418	5.73								
DQRL	SZ			EP		1418	6.09								

March 25 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
BHL	BZ			EP		1418	5.55								
DQRL	SZ			EP		1418	6.09								
RCY	SZ			EP		1418	5.73								

March 25 2012 Hour: 16:11 11.2 Lat: 33.70N Lon: 35.82E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SAWL	BZ	8	106	EP		1611	12.37	-0.07							1.0
TZHL	BZ	19	18	EP		1611	14.31	0.07							1.0
TZHL	BN	19	18	ES		1611	16.46	-0.02							1.0
QRWL	SZ	21	218	EP		1611	14.61	0.01							1.0
RCY	SZ	22	177	EP		1611	14.85	0.04	34						1.0
RCY	SN	22	177	ES		1611	17.48	0.00							1.0
DQRL	SZ	23	272	EP		1611	14.97	0.00							1.0
DQRL	SN	23	272	ES		1611	17.76	0.01							1.0
BHL	BZ	28	326	EP		1611	15.64	-0.03							1.0
AZOL	BZ	30	240	EP		1611	16.08	-0.02							1.0
BORL	BZ	47	49	EP		1611	18.88	0.02							1.0

March 26 2012 Hour: 10: 5 38.7 Lat: 33.05N Lon: 35.73E Depth: 7 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	33	2	EP		10	5	44.07-0.14							1.0
SHBL	BE	33	2	ES		10	5	48.25-0.01							1.0
RCY	SZ	50	11	EP		10	5	46.98 0.04	53						1.0
RCY	SE	50	11	ES		10	5	53.02 0.00							1.0
AZOL	BZ	59	342	EP		10	5	48.45 0.05							1.0
SAWL	BZ	71	13	EP		10	5	50.27-0.01							1.0
DQRL	SZ	74	348	EP		10	5	50.76 0.01							1.0
TZHL	BZ	91	9	EP		10	5	53.52 0.13							1.0
BHL	BZ	95	356	EP		10	5	54.05-0.03							1.0
QRTL	BZ	116	5	EP		10	5	57.26 0.03							1.0
HWQ	SZ	137	8	EP		10	6	0.34-0.07							1.0

March 26 2012 Hour: 10:35 33.0 Agency: REL Distant
EMSC OT=10:35:33.0 39.24N 42.27E 7Km M=5.1 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1037		29.01							
SHBL	BZ			EP		1037		30.45							

March 27 2012 Hour: 23:35 32.8 Lat: 33.80N Lon: 35.81E 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
TZHL	BZ	10	46	EP		2335		34.63 0.01							1.0
SAWL	BZ	16	147	EP		2335		35.50 0.06							1.0
BHL	BZ	19	310	EP		2335		35.87-0.01	29						1.0
BHL	BN	19	310	ES		2335		38.17-0.03							1.0
DQRL	SZ	24	246	EP		2335		36.80 0.05							1.0
DQRL	SN	24	246	ES		2335		39.73 0.02							1.0
QRTL	BZ	33	7	EP		2335		38.12-0.04							1.0
RCY	SZ	33	175	EP		2335		38.19-0.02							1.0
RCY	SE	33	175	ES		2335		42.19-0.07							1.0
HWQ	SZ	55	13	EP		2335		41.70 0.03							1.0

March 29 2012 Hour: 14:47 34.3 Lat: 33.79N Lon: 35.77E 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
TZHL	BZ	13	54	EP		1447		36.90 0.06							1.0
BHL	BZ	17	321	EP		1447		37.29-0.02	41						1.0
SAWL	BZ	17	135	EP		1447		37.33-0.06							1.0
DQRL	SZ	21	244	EP		1447		37.93 0.05							1.0
DQRL	SN	21	244	ES		1447		40.48-0.04							1.0
RCY	SZ	33	169	EP		1447		39.77-0.04							1.0
RCY	SE	33	169	ES		1447		43.90 0.03							1.0
AZOL	BZ	33	221	EP		1447		39.84 0.04							1.0
QRTL	BZ	35	13	EP		1447		40.06 0.03							1.0
BORL	BZ	46	63	EP		1447		41.82-0.00							1.0
HWQ	SZ	57	17	EP		1447		43.52-0.05							1.0

March 30 2012 Hour: 18: 5 4.7 Lat: 34.12N Lon: 36.15E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BORL	BZ	16	161	EP		18	5	7.29-0.02							1.0
HWQ	SZ	26	314	EP		18	5	8.95 0.03	36						1.0
HWQ	SN	26	314	ES		18	5	12.03-0.02							1.0
QRTL	BZ	28	265	EP		18	5	9.27 0.06							1.0
TBRL	BZ	43	329	EP		18	5	11.55-0.02							1.0
BHL	BZ	52	243	EP		18	5	13.01 0.00							1.0

Epicentral Map of Lebanon

MARCH 2012

