

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

April

2013

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.

April 1 2013 Hour: 11:24 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1125	16.02								
RCY	SZ			EP		1125	15.82								

April 1 2013 Hour: 13:21 28.1

Lat: 33.41N Lon: 35.37E Depth: 15 Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	38	29	EP		1321	34.73	-0.02	52						1.0
DQRL	SN	38	29	ES		1321	39.66	0.02							1.0
RCY	SZ	44	77	EP		1321	35.74	0.02							1.0
RCY	SN	44	77	ES		1321	41.31	-0.02							1.0
BHL	BZ	61	26	EP		1321	38.07	-0.06							1.0
HWQ	SZ	110	29	EP		1321	45.43	0.05							1.0

April 1 2013 Hour: 15: 4 14.2

Lat: 33.45N Lon: 35.64E Depth: 1 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	11	21	EP		15 4	16.01	-0.02							1.0
QRWL	SN	11	21	ES		15 4	17.37	0.00							1.0
SHBL	BZ	15	141	EP		15 4	16.66	-0.03							1.0
SHBL	BN	15	141	ES		15 4	18.56	0.03							1.0
RCY	SZ	19	75	EP		15 4	17.26	-0.00	39						1.0
RCY	SN	19	75	ES		15 4	19.52	-0.00							1.0
DQRL	SZ	29	347	EP		15 4	18.84	-0.00							1.0
BHL	BZ	50	1	EP		15 4	22.30	0.03							1.0

April 1 2013 Hour: 22: 4 34.8

Lat: 33.78N Lon: 35.78E Depth: 0 Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	321	EP		22 4	37.70	-0.02							1.0
BHL	BN	18	321	ES		22 4	39.86	-0.03							1.0
DQRL	SZ	21	248	EP		22 4	38.15	0.03	56						1.0
DQRL	SN	21	248	ES		22 4	40.59	0.01							1.0
RCY	SZ	32	170	EP		22 4	39.85	-0.01							1.0
RCY	SN	32	170	ES		22 4	43.58	-0.04							1.0
SHBL	BZ	48	184	EP		22 4	42.48	0.03							1.0
HWQ	SZ	58	16	EP		22 4	44.14	0.03							1.0

April 2 2013 Hour: 12:40 39.5

Lat: 33.38N Lon: 35.63E Depth: 5 Agency: REL Local

Magnitudes: 2.5MC REL

Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	11	110	EP		1240	41.56	-0.00							1.0
QRWL	SZ	19	14	EP		1240	42.69	-0.01							1.0
QRWL	SN	19	14	ES		1240	45.07	0.00							1.0
RCY	SZ	23	56	EP		1240	43.32	0.01	31						1.0
RCY	SN	23	56	ES		1240	46.12	-0.01							1.0

April 2 2013 Hour: 14:34 57.0

Agency: REL Distant

EMSC OT=14:34:57.0 40.31S 45.26E 10Km ML=5.9 S-W INDIAN RIDGE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1446	35.55								
SHBL	BZ			EP		1446	32.38								

April 2 2013 Hour: 15:51 9.4 Lat: 33.78N Lon: 35.75E Depth: 4 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	325	EP		1551	12.18	-0.01	42						1.0
BHL	BE	16	325	ES		1551	14.22	-0.01							1.0
DQRL	SZ	19	243	EP		1551	12.62	-0.03							1.0
DQRL	SN	19	243	ES		1551	15.06	0.03							1.0
RCY	SZ	33	167	EP		1551	14.82	-0.01							1.0
HWQ	SZ	58	18	EP		1551	18.79	0.02							1.0

April 2 2013 Hour: 20:53 3.7 Lat: 33.69N Lon: 35.83E Depth: 1 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	21	221	EP		2053	7.19	0.02							1.0
RCY	SZ	22	179	EP		2053	7.26	0.00							1.0
RCY	SN	22	179	ES		2053	9.88	0.00							1.0
DQRL	SZ	24	273	EP		2053	7.72	0.06							1.0
DQRL	SN	24	273	ES		2053	10.58	0.00							1.0
BHL	BZ	29	325	EP		2053	8.27	-0.08	41						1.0
BHL	BN	29	325	ES		2053	11.77	-0.01							1.0
SHBL	BZ	39	192	EP		2053	10.01	-0.03							1.0
HWQ	SZ	66	9	EP		2053	14.37	0.05							1.0

April 3 2013 Hour: 14:0 51.4 Lat: 33.47N Lon: 35.69E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	8	354	EP		14	0	52.65	-0.06						1.0
RCY	SZ	14	79	EP		14	0	53.63	0.04	47					1.0
SHBL	BZ	15	161	EP		14	0	53.71	-0.06						1.0
SHBL	BN	15	161	ES		14	0	55.58	0.04						1.0
DQRL	SZ	28	336	EP		14	0	55.96	0.06						1.0
DQRL	SN	28	336	ES		14	0	59.27	0.02						1.0
BHL	BZ	48	356	EP		14	0	59.08	-0.01						1.0
HWQ	SZ	92	15	EP		14	1	6.23	-0.02						1.0

April 3 2013 Hour: 15:53 42.2 Lat: 33.82N Lon: 35.71E Depth: 32 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	10	331	EP		1553	47.53	-0.03	41						1.0
DQRL	SZ	18	224	EP		1553	48.06	0.02							1.0
DQRL	SN	18	224	ES		1553	52.38	0.02							1.0
QRWL	SZ	31	184	EP		1553	49.09	-0.06							1.0
RCY	SZ	38	162	EP		1553	50.07	0.05							1.0
RCY	SN	38	162	ES		1553	55.80	-0.01							1.0
HWQ	SZ	55	24	EP		1553	52.06	0.01							1.0

April 3 2013 Hour: 16:35 46.0 Agency: REL Distant

EMSC OT=16:35:46.0 19.30N 95.72E 10Km ML=5.6 MYANMAR

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1645	18.19								
BHL	BZ			EP		1645	18.54								
DQRL	SZ			EP		1645	19.05								

April 4 2013 Hour: 6:35 26.3 Agency: REL Regional
EMSC OT=06:34:26.3 37.34N 37.14E 7Km ML=3.5 CENTRAL TURKEY
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 635 19.58
 RCY SZ EP 635 28.11

April 4 2013 Hour: 9:3 6.4 Lat: 33.35N Lon: 35.60E Depth: 6 Agency: REL Local
 Magnitudes: 2.4MC 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	14	92	EP		9 3	8.90	-0.02							1.0
SHBL	BE	14	92	ES		9 3	10.80	0.01							1.0
QRWL	SZ	23	20	EP		9 3	10.27	-0.00							1.0
QRWL	SN	23	20	ES		9 3	13.13	-0.01							1.0
RCY	SZ	27	54	EP		9 3	10.96	0.00	24						1.0
DQRL	SZ	39	356	EP		9 3	12.83	0.01							1.0

April 5 2013 Hour: 13:0 1.0 Agency: REL Distant
EMSC OT=13:00:01.0 42.80N 131.08E 551Km ML=6.2 RUSSIA-CHINA REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1310	23.34								
BHL	BZ			EP		1310	25.75								
RCY	SZ			EP		1310	27.08								
QRWL	SZ			EP		1310	27.35								
SHBL	BZ			EP		1310	27.89								

April 6 2013 Hour: 9:59 5.4 Lat: 33.33N Lon: 35.60E Depth: 20 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.0 secs
SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	14	83	EP		959	9.38	0.00							1.0
SHBL	BN	14	83	ES		959	12.35	0.00							1.0
QRWL	SZ	25	18	EP		959	10.48	-0.03							1.0
QRWL	SE	25	18	ES		959	14.31	0.00							1.0
RCY	SZ	29	50	EP		959	10.99	0.00	39						1.0
DQRL	SZ	42	356	EP		959	12.67	0.02							1.0

April 6 2013 Hour: 11:26 8.0 Agency: REL Regional
EMSC OT=11:26:08.0 34.80N 24.09E 40Km ML=5.0 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1128	19.32								
BHL	BZ			EP		1128	19.17								
QRWL	SZ			EP		1128	21.10								
HWQ	SZ			EP		1128	23.38								
RCY	SZ			EP		1128	23.59								

April 6 2013 Hour: 12:8 17.0 Lat: 34.39N Lon: 36.61E Depth: 15 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.0 secs
NEBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	63	259	EP		12 8	27.16	-0.02	51						1.0
HWQ	SE	63	259	ES		12 8	34.75	0.02							1.0
BHL	BZ	104	239	EP		12 8	33.16	-0.04							1.0
BHL	BE	104	239	ES		12 8	45.19	-0.02							1.0
DQRL	SZ	123	232	EP		12 8	36.07	0.07							1.0
RCY	SZ	123	216	EP		12 8	35.99	-0.01							1.0

April 6 2013 Hour: 14:16 39.2 Lat: 33.45N Lon: 35.65E Depth: 0 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	18	EP		1416	41.00	-0.05							1.0
QRWL	SN	12	18	ES		1416	42.43	0.00							1.0
SHBL	BZ	15	140	EP		1416	41.51	-0.03							1.0
SHBL	BN	15	140	ES		1416	43.30	0.02							1.0
RCY	SZ	19	73	EP		1416	42.21	0.02	27						1.0
DQRL	SZ	29	346	EP		1416	43.96	0.04							1.0

April 7 2013 Hour: 11:18 35.9 Lat: 33.67N Lon: 35.81E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC 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	18	223	EP		1118	38.79	-0.01							1.0
QRWL	SN	18	223	ES		1118	40.98	0.01							1.0
RCY	SZ	19	174	EP		1118	38.96	-0.00	52						1.0
DQRL	SZ	23	281	EP		1118	39.65	0.05							1.0
DQRL	SN	23	281	ES		1118	42.32	-0.03							1.0
BHL	BZ	30	331	EP		1118	40.71	-0.03							1.0
BHL	BN	30	331	ES		1118	44.34	0.00							1.0
SHBL	BZ	36	191	EP		1118	41.69	-0.00							1.0
SHBL	BN	36	191	ES		1118	45.99	-0.01							1.0
HWQ	SZ	69	10	EP		1118	46.99	0.02							1.0

April 7 2013 Hour: 12:30 3.8 Lat: 33.86N Lon: 35.82E Depth: 1 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	289	EP		1230	6.48	0.00	56						1.0
BHL	BE	16	289	ES		1230	8.43	0.00							1.0
DQRL	SZ	29	234	EP		1230	8.49	0.03							1.0
DQRL	SE	29	234	ES		1230	11.85	-0.02							1.0
RCY	SZ	40	178	EP		1230	10.29	-0.01							1.0
RCY	SN	40	178	ES		1230	15.09	0.01							1.0
HWQ	SZ	48	14	EP		1230	11.62	-0.01							1.0

April 7 2013 Hour: 15:30 13.1 Lat: 34.02N Lon: 35.74E Depth: 5 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.0 secs

KESROUANE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	210	EP		1530	15.78	0.01							1.0
BEYL	BZ	28	233	EP		1530	17.71	-0.03							1.0
HWQ	SZ	34	34	EP		1530	18.67	-0.00	69						1.0
DQRL	SZ	39	204	EP		1530	19.45	0.05							1.0
DQRL	SN	39	204	ES		1530	24.05	-0.02							1.0
RCY	SZ	59	171	EP		1530	22.67	-0.03							1.0
RCY	SN	59	171	ES		1530	29.80	-0.01							1.0
SHBL	BZ	75	180	EP		1530	25.24	0.01							1.0
SHBL	BN	75	180	ES		1530	34.23	0.02							1.0

April 7 2013 Hour: 15:58 1.0 Agency: REL Regional
EMSC OT=15:58:01.0 27.72N 34.05E 10Km ML=4.4 RED SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1559	37.85								
DQRL	SZ			EP		1559	37.17								

April 7 2013 Hour: 16:16 56.9 Lat: 33.79N Lon: 35.79E 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
BHL	BZ	18	317	EP		1616	59.93	0.02	44						1.0
BHL	BN	18	317	ES		1617	2.10	-0.00							1.0
DQRL	SZ	22	246	EP		1617	0.53	-0.02							1.0
RCY	SZ	33	172	EP		1617	2.20	-0.05							1.0
RCY	SN	33	172	ES		1617	6.18	0.01							1.0
SHBL	BZ	49	185	EP		1617	4.88	0.03							1.0
SHBL	BN	49	185	ES		1617	10.72	0.02							1.0
HWQ	SZ	57	15	EP		1617	6.09	0.00							1.0

April 7 2013 Hour: 22:11 11.0 Lat: 33.54N Lon: 35.80E Depth: 2 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	11	277	EP		2211	12.85	-0.03	19						1.0
QRWL	SN	11	277	ES		2211	14.28	0.02							1.0
SHBL	BZ	22	194	EP		2211	14.57	0.03							1.0
SHBL	BN	22	194	ES		2211	17.12	-0.02							1.0
DQRL	SZ	29	311	EP		2211	15.65	0.00							1.0

April 8 2013 Hour: 5:54 14.6 Lat: 33.78N Lon: 35.76E Depth: 1 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	326	EP		554	17.46	-0.00	39						1.0
BHL	BN	17	326	ES		554	19.55	0.00							1.0
DQRL	SZ	19	246	EP		554	17.75	0.01							1.0
DQRL	SE	19	246	ES		554	20.01	-0.01							1.0
RCY	SZ	32	167	EP		554	19.79	0.00							1.0
HWQ	SZ	59	17	EP		554	24.09	-0.00							1.0

April 8 2013 Hour: 10:40 17.5 Lat: 33.35N Lon: 35.60E Depth: 12 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	13	93	EP		1040	20.48	0.01							1.0
SHBL	BN	13	93	ES		1040	22.70	0.00							1.0
QRWL	SZ	23	18	EP		1040	21.58	-0.08							1.0
RCY	SZ	27	54	EP		1040	22.26	-0.01	34						1.0
RCY	SN	27	54	ES		1040	25.84	0.02							1.0
DQRL	SZ	39	355	EP		1040	24.17	0.06							1.0

April 8 2013 Hour: 11:49 41.8 Lat: 33.45N Lon: 35.57E Depth: 15 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	15	44	EP		1149	45.30	0.01							1.0
QRWL	SN	15	44	ES		1149	47.91	0.00							1.0
SHBL	BZ	20	124	EP		1149	45.88	-0.00							1.0
SHBL	BN	20	124	ES		1149	48.95	0.01							1.0
RCY	SZ	26	78	EP		1149	46.60	-0.01	36						1.0

April 8 2013 Hour: 15:9 41.2 Lat: 33.82N Lon: 35.76E Depth: 22 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	13	314	EP		15 9	45.40	-0.04	42						1.0
BHL	BE	13	314	ES		15 9	48.59	0.02							1.0
DQRL	SZ	21	233	EP		15 9	46.20	0.01							1.0
RCY	SZ	37	168	EP		15 9	48.08	0.01							1.0

RCY	SN	37	168	ES		15	9	53.14	-0.01									1.0
HWQ	SZ	54	19	EP		15	9	50.32	0.01									1.0

April 8 2013 Hour: 17:35 9.5 Lat: 33.78N Lon: 35.78E Depth: 5 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	320	EP		1735	12.41	-0.05	44						1.0
DQRL	SZ	21	245	EP		1735	13.06	0.05							1.0
DQRL	SN	21	245	ES		1735	15.62	0.02							1.0
QRWL	SZ	28	198	EP		1735	13.98	-0.08							1.0
RCY	SZ	32	170	EP		1735	14.85	0.02							1.0
RCY	SN	32	170	ES		1735	18.79	0.01							1.0
HWQ	SZ	57	16	EP		1735	18.77	0.03							1.0

April 9 2013 Hour: 3:36 28.0 Agency: REL Regional
EMSC OT=03:36:28.0 36.53N 23.03E 21Km ML=5.0 SOUTHERN GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		338	58.12								
HWQ	SZ			EP		338	59.17								
RCY	SZ			EP		339	0.49								

April 9 2013 Hour: 11:24 4.3 Lat: 33.69N Lon: 35.94E Depth: 29 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	24	205	EP		1124	10.32	-0.01							1.0
RCY	SN	24	205	ES		1124	14.81	0.01							1.0
QRWL	SZ	29	236	EP		1124	10.79	0.00							1.0
DQRL	SZ	35	272	EP		1124	11.41	0.01							1.0
DQRL	SN	35	272	ES		1124	16.66	-0.00							1.0
BHL	BZ	36	311	EP		1124	11.50	-0.00	50						1.0
HWQ	SZ	65	0	EP		1124	15.33	0.05							0.2

April 9 2013 Hour: 11:52 50.0 Agency: REL Distant
EMSC OT=11:52:50.0 28.48N 51.58E 10Km ML=6.3 SOUTHERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1156	14.94								
BHL	BZ			EP		1156	18.26								
DQRL	SZ			EP		1156	19.07								

April 10 2013 Hour: 1:58 27.0 Agency: REL Distant
EMSC OT=01:58:27.0 28.37N 51.68E 10Km ML=5.5 SOUTHERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2	1	56.70							
BHL	BZ			EP		2	1	55.43							

April 10 2013 Hour: 7:59 59.0 Agency: REL Distant
EMSC OT=07:59:59.0 28.35N 51.72E 10Km ML=5.2 SOUTHERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		8	3	30.33							
BHL	BZ			EP		8	3	30.33							

April 10 2013 Hour: 10:45 26.5 Lat: 33.80N Lon: 35.73E Depth: 25 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	14	328	EP		1045	31.10	-0.01	41						1.0
DQRL	SZ	18	235	EP		1045	31.48	0.00							1.0
DQRL	SN	18	235	ES		1045	35.18	0.00							1.0
RCY	SZ	35	164	EP		1045	33.31	-0.01							1.0
RCY	SN	35	164	ES		1045	38.38	0.00							1.0
HWQ	SZ	57	20	EP		1045	36.15	0.01							1.0

April 10 2013 Hour: 20:20 27.0 Agency: REL Distant
EMSC OT=20:20:27.0 20.80N 122.07E 10Km ML=6.0 BATAN ISL REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 2032 14.55
 RCY SZ 2032 14.73
 BEYL BZ 2032 15.03
 SHBL BZ 2032 15.38
 DQRL SZ 2032 15.50

April 10 2013 Hour: 21:38 25.9 Lat: 33.17N Lon: 35.42E Depth: 0 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.0 secs
SOUTH LEBANON
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 SHBL BZ 36 57 EP 2138 31.75 0.03 1.0
 SHBL BN 36 57 ES 2138 36.00 0.00 1.0
 QRWL SZ 48 31 EP 2138 33.60-0.08 1.0
 QRWL SN 48 31 ES 2138 39.41-0.01 1.0
 RCY SZ 53 47 EP 2138 34.41-0.02 49 1.0
 DQRL SZ 61 13 EP 2138 35.65-0.04 1.0
 BHL BZ 84 15 EP 2138 39.49 0.04 1.0
 HWQ SZ 132 22 EP 2138 47.26 0.08 1.0

April 11 2013 Hour: 9:56 46.4 Lat: 33.83N Lon: 35.74E Depth: 26 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 12 316 EP 956 51.14 0.02 40 1.0
 BHL BE 12 316 ES 956 54.56-0.02 1.0
 DQRL SZ 21 231 EP 956 51.77-0.03 1.0
 DQRL SN 21 231 ES 956 55.79 0.02 1.0
 RCY SZ 37 167 EP 956 53.66-0.00 1.0
 HWQ SZ 54 20 EP 956 55.76 0.01 1.0

April 11 2013 Hour: 10: 8 9.5 Lat: 33.46N Lon: 35.59E Depth: 13 Agency: REL Local
 Magnitudes: 2.3MC REL Rms: 0.0 secs
SAIDA REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 QRWL SZ 13 40 EP 10 8 12.57-0.01 21 1.0
 QRWL SN 13 40 ES 10 8 14.88-0.00 1.0
 SHBL BZ 19 130 EP 10 8 13.31 0.01 1.0
 SHBL BN 19 130 ES 10 8 16.13-0.00 1.0
 RCY SZ 23 79 EP 10 8 13.89 0.00 1.0

April 11 2013 Hour: 11:17 44.0 Agency: REL Regional
EMSC OT=11:17:44.0 35.65N 31.66E 15Km ML=3.9 CYPRUS REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ 1118 44.05
 RCY SZ 1118 47.61

April 11 2013 Hour: 11:35 24.4 Lat: 33.78N Lon: 35.76E 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
 BHL BZ 17 324 EP 1135 27.03-0.10 47 1.0
 BHL BE 17 324 ES 1135 29.17-0.01 1.0
 DQRL SZ 20 246 EP 1135 27.60 0.05 1.0
 DQRL SE 20 246 ES 1135 29.94 0.03 1.0
 QRWL SZ 27 197 EP 1135 28.52-0.16 1.0
 QRWL SN 27 197 ES 1135 31.91 0.02 1.0
 BEYL BZ 27 292 EP 1135 28.76 0.03 1.0
 RCY SZ 32 168 EP 1135 29.50-0.03 1.0
 RCY SE 32 168 ES 1135 33.39 0.03 1.0
 HWQ SZ 58 17 EP 1135 33.75 0.08 1.0

HWQ SN 58 17 ES 1135 40.58 0.01 1.0

April 11 2013 Hour: 12:55.8 Lat: 33.33N Lon: 35.57E Depth: 21 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	16	83	EP		12	6	2.09-0.08							1.0
SHBL	BE	16	83	ES		12	6	5.47 0.05							1.0
QRWL	SZ	26	23	EP		12	6	3.16-0.00	33						1.0
RCY	SZ	31	53	EP		12	6	3.84 0.08							1.0
RCY	SE	31	53	ES		12	6	8.13-0.05							1.0

April 11 2013 Hour: 14:18 55.8 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	318	EP		1418		58.63-0.06	38						1.0
BHL	BN	18	318	ES		1419		0.84-0.00							1.0
DQRL	SZ	22	247	EP		1418		59.31 0.03							1.0
RCY	SZ	32	171	EP		1419		0.95-0.04							1.0
RCY	SN	32	171	ES		1419		4.81-0.02							1.0
HWQ	SZ	57	15	EP		1419		5.00 0.04							1.0

April 11 2013 Hour: 15:36 8.1 Lat: 33.42N Lon: 35.48E 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
QRWL	SZ	24	53	EP		1536		12.18-0.09							1.0
QRWL	SN	24	53	ES		1536		15.37-0.01							1.0
DQRL	SZ	33	15	EP		1536		13.61-0.05							1.0
DQRL	SN	33	15	ES		1536		17.84 0.04							1.0
RCY	SZ	35	75	EP		1536		13.96 0.07							1.0
BHL	BZ	57	17	EP		1536		17.37 0.05	38						1.0
HWQ	SZ	105	24	EP		1536		24.79-0.01							1.0

April 11 2013 Hour: 18:42 31.0 Lat: 34.72N Lon: 36.13E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.2 secs

HOMS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	52	199	EP		1842		39.03-0.39	50						1.0
HWQ	SN	52	199	ES		1842		45.64-0.04							1.0
BHL	BZ	101	206	EP		1842		47.29 0.02							1.0
DQRL	SZ	124	205	EP		1842		50.92-0.10							1.0
DQRL	SE	124	205	ES		1843		5.98 0.12							1.0
SHBL	BZ	157	193	EP		1842		56.16 0.18							1.0

April 11 2013 Hour: 23:42 20.4 Lat: 33.79N Lon: 35.77E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		2342		23.11 0.00	54						1.0
BHL	BE	17	321	ES		2342		25.08-0.01							1.0
DQRL	SZ	20	243	EP		2342		23.69-0.03							1.0
DQRL	SE	20	243	ES		2342		26.17 0.02							1.0
BEYL	BZ	27	290	EP		2342		24.83 0.05							1.0
QRWL	SZ	28	196	EP		2342		24.78-0.13							1.0
QRWL	SN	28	196	ES		2342		28.20-0.03							1.0
RCY	SZ	33	169	EP		2342		25.77 0.02							1.0
RCY	SN	33	169	ES		2342		29.76 0.07							1.0
SHBL	BZ	49	182	EP		2342		28.29-0.01							1.0
SHBL	BN	49	182	ES		2342		34.12-0.01							1.0
HWQ	SZ	57	17	EP		2342		29.59-0.01							1.0

April 12 2013 Hour: 11:1 5.9 Lat: 33.38N Lon: 35.61E Depth: 0 Agency: REL Local
 Magnitudes: 2.5MC REL Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	13	106	EP		11	1	8.10	0.01						1.0
SHBL	BN	13	106	ES		11	1	9.78	0.03						1.0
QRWL	SZ	20	21	EP		11	1	9.12	0.01	30					1.0
QRWL	SN	20	21	ES		11	1	11.47	0.00						1.0
RCY	SZ	25	59	EP		11	1	9.89	0.05						1.0
DQRL	SZ	36	355	EP		11	1	11.72	0.03						1.0
HWQ	SZ	104	17	EP		11	1	22.82	0.07						1.0

April 12 2013 Hour: 13:12 47.2 Lat: 33.46N Lon: 35.58E Depth: 15 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	14	44	EP		1312		50.64	0.01	24					1.0
QRWL	SN	14	44	ES		1312		53.18	0.00						1.0
SHBL	BZ	20	127	EP		1312		51.33	0.00						1.0
SHBL	BN	20	127	ES		1312		54.36	0.01						1.0
RCY	SZ	25	79	EP		1312		51.98	0.02						1.0

April 13 2013 Hour: 14:29 30.7 Lat: 33.79N Lon: 35.77E Depth: 0 Agency: REL Local
 Magnitudes: 2.4MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		1429		33.42	0.01	26					1.0
DQRL	SZ	21	244	EP		1429		34.04	0.03						1.0
DQRL	SN	21	244	ES		1429		36.43	0.03						1.0
RCY	SZ	33	169	EP		1429		36.00	0.01						1.0
RCY	SN	33	169	ES		1429		39.90	0.01						1.0
HWQ	SZ	57	17	EP		1429		39.85	0.02						1.0

April 13 2013 Hour: 15:37 52.4 Lat: 33.78N Lon: 35.77E Depth: 1 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	322	EP		1537		55.22	0.03	46					1.0
BHL	BE	18	322	ES		1537		57.38	0.01						1.0
DQRL	SZ	20	247	EP		1537		55.70	0.04						1.0
DQRL	SN	20	247	ES		1537		58.08	0.01						1.0
QRWL	SZ	27	198	EP		1537		56.66	0.05						1.0
BEYL	BZ	28	292	EP		1537		56.85	0.00						1.0
RCY	SZ	32	169	EP		1537		57.56	0.05						1.0
RCY	SE	32	169	ES		1538		1.31	0.01						1.0
HWQ	SZ	58	16	EP		1538		1.70	0.00						1.0

April 13 2013 Hour: 15:58 30.9 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
BHL	BZ	18	318	EP		1558		33.69	0.09	36					1.0
DQRL	SZ	22	246	EP		1558		34.37	0.02						1.0
DQRL	SN	22	246	ES		1558		37.04	0.06						1.0
SHBL	BZ	49	184	EP		1558		38.73	0.02						1.0
SHBL	BE	49	184	ES		1558		44.54	0.01						1.0
HWQ	SZ	57	15	EP		1558		40.12	0.07						1.0

April 14 2013 Hour: 3:40 0.0 **Agency: REL Local**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 SHBL BZ EP 340 40.41
 DQRL SZ EP 340 40.26

April 14 2013 Hour: 3:58 0.0 **Agency: REL Local**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 DQRL SZ EP 359 15.90
 SHBL BZ EP 359 14.88

April 14 2013 Hour: 11:1 0.0 **Agency: REL Local**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 11 2 20.92
 SHBL BZ EP 11 2 4.00

April 14 2013 Hour: 11:43 28.9 Lat: 33.46N Lon: 35.64E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	11	24	EP		1143	30.66	-0.01							1.0
QRWL	SN	11	24	ES		1143	31.96	-0.01							1.0
SHBL	BZ	16	140	EP		1143	31.50	0.02							1.0
SHBL	BE	16	140	ES		1143	33.37	-0.01							1.0
RCY	SZ	19	77	EP		1143	32.00	-0.00	38						1.0
RCY	SE	19	77	ES		1143	34.29	0.00							1.0
DQRL	SZ	28	348	EP		1143	33.46	0.01							1.0

April 14 2013 Hour: 11:47 34.0 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	25	EP		1147	35.91	-0.04							1.0
QRWL	SE	12	25	ES		1147	37.36	-0.00							1.0
SHBL	BZ	16	137	EP		1147	36.57	-0.00							1.0
SHBL	BN	16	137	ES		1147	38.45	0.00							1.0
RCY	SZ	20	75	EP		1147	37.24	-0.01	36						1.0
RCY	SN	20	75	ES		1147	39.65	0.02							1.0
DQRL	SZ	29	349	EP		1147	38.71	0.03							1.0

April 14 2013 Hour: 14:33 38.1 Lat: 33.78N Lon: 35.77E 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
BHL	BZ	17	321	EP		1433	40.84	-0.08	46						1.0
BHL	BN	17	321	ES		1433	43.03	-0.01							1.0
DQRL	SZ	21	245	EP		1433	41.48	0.02							1.0
DQRL	SN	21	245	ES		1433	44.01	0.04							1.0
RCY	SZ	32	169	EP		1433	43.28	-0.07							1.0
RCY	SN	32	169	ES		1433	47.30	0.04							1.0
SHBL	BZ	48	183	EP		1433	45.87	-0.04							1.0
SHBL	BN	48	183	ES		1433	51.73	0.02							1.0
HWQ	SZ	57	16	EP		1433	47.40	0.09							1.0

April 15 2013 Hour: 10:10 0.0 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1011	28.00								
SHBL	BZ			EP		1011	26.16								

April 15 2013 Hour: 15:38 7.0 Lat: 33.31N Lon: 35.38E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	38	47	EP		1538	13.11	-0.06							1.0
RCY	SZ	47	64	EP		1538	14.58	0.01	43						1.0
RCY	SE	47	64	ES		1538	20.18	0.02							1.0
DQRL	SZ	47	22	EP		1538	14.60	0.02							1.0
DQRL	SN	47	22	ES		1538	20.17	-0.01							1.0
HWQ	SZ	119	26	EP		1538	26.25	0.03							1.0

April 15 2013 Hour: 18:42 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1843	37.67								

April 16 2013 Hour: 10:44 20.0 Agency: REL Distant

EMSC OT=10:44:20.0 28.14N 62.08E 87Km ML=7.8 IRAN-PAKISTAN REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1049	21.84								
SHBL	BZ			EP		1049	21.33								
BHL	BZ			EP		1049	22.38								
BEYL	BZ			EP		1049	23.36								

April 17 2013 Hour: 3:15 54.0 Agency: REL Distant

EMSC OT=03:15:54.0 28.18N 62.34E 80Km ML=5.6 IRAN-PAKISTAN REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		320	57.19								
RCY	SZ			EP		320	57.63								
BHL	BZ			EP		320	58.27								

April 17 2013 Hour: 9:31 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		931	47.86								

April 17 2013 Hour: 11:32 32.4 Lat: 32.71N Lon: 35.69E Depth: 15 Agency: REL Regional
Magnitudes: 3.1MC REL Rms: 0.1 secs

NORTH GALILEE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	88	9	EP		1132	46.39	0.07	63						1.0
RCY	SN	88	9	ES		1132	56.60	-0.06							1.0
QRWL	SZ	93	359	EP		1132	46.89	-0.09							1.0
QRWL	SN	93	359	ES		1132	57.93	0.13							1.0
DQRL	SZ	111	354	EP		1132	49.73	0.08							1.0
DQRL	SN	111	354	ES		1133	2.38	-0.07							1.0
BHL	BZ	132	358	EP		1132	52.76	-0.05							1.0
HWQ	SZ	175	8	EP		1132	58.75	0.00							1.0

April 18 2013 Hour: 11:45 24.0 Lat: 34.62N Lon: 36.20E Depth: 3 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	SZ	45	212	EP		1145	31.24	-0.02	66						1.0
HWQ	SN	45	212	ES		1145	36.58	-0.04							1.0
BHL	BZ	94	212	EP		1145	39.26	0.05							1.0
BHL	BN	94	212	ES		1145	50.43	-0.03							1.0
DQRL	SZ	117	210	EP		1145	42.91	0.01							1.0
DQRL	SE	117	210	ES		1145	56.94	0.06							1.0
RCY	SZ	129	195	EP		1145	44.72	-0.03							1.0
RCY	SN	129	195	ES		1146	0.11	0.01							1.0

April 18 2013 Hour: 14:23 5.6 Lat: 33.47N Lon: 35.69E Depth: 0 Agency: REL Local
 Magnitudes: 3.0MC 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	9	354	EP		1423	6.97	-0.07							1.0
QRWL	SN	9	354	ES		1423	8.09	0.01							1.0
RCY	SZ	14	78	EP		1423	7.89	0.02	65						1.0
SHBL	BZ	14	160	EP		1423	7.99	0.01							1.0
SHBL	BN	14	160	ES		1423	9.71	0.00							1.0
DQRL	SZ	28	337	EP		1423	10.25	0.02							1.0
DQRL	SN	28	337	ES		1423	13.66	0.04							1.0
BEYL	BZ	48	338	EP		1423	13.41	-0.00							0.2
BHL	BZ	48	356	EP		1423	13.39	-0.04							1.0
HWQ	SZ	93	15	EP		1423	20.60	0.01							1.0

April 19 2013 Hour: 2:37 39.0 Agency: REL Regional

EMSC OT=02:37:39.0 36.54N 26.56E 131Km ML=4.1 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		239	29.12								
BHL	BZ			EP		239	28.30								
HWQ	SZ			EP		239	31.09								
SHBL	BZ			EP		239	33.17								
RCY	SZ			EP		239	33.79								

April 19 2013 Hour: 3: 5 52.0 Agency: REL Distant

EMSC OT=03:05:52.0 46.26N 150.85E 100Km ML=7.2 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		317	54.07								
BHL	BZ			EP		317	56.36								
DQRL	SZ			EP		317	57.87								
RCY	SZ			EP		317	57.87								
QRWL	SZ			EP		317	58.13								
SHBL	BZ			EP		317	59.02								

April 19 2013 Hour: 19:58 40.0 Agency: REL Distant

EMSC OT=19:58:40.0 50.07N 157.45E 10Km ML=6.1 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2010	59.54								
RCY	SZ			EP		2011	0.82								
DQRL	SZ			EP		2011	0.82								
SHBL	BZ			EP		2011	1.95								

April 19 2013 Hour: 20:50 0.0 Agency: REL Regional

EMSC OT=20:50:00.0 37.34N 37.12E 12Km ML=3.9 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2050	54.49								
BHL	BZ			EP		2050	59.08								
DQRL	SZ			EP		2051	4.22								
QRWL	SZ			EP		2051	6.02								
RCY	SZ			EP		2051	6.38								

April 20 2013 Hour: 0: 2 48.7 Agency: REL Distant

EMSC OT=00:02:48.7 30.33N 102.99E 20Km ML=6.6 WESTERN SICHUAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		012	26.77								
RCY	SZ			EP		012	27.86								
BHL	BZ			EP		012	26.98								
QRWL	SZ			EP		012	27.81								
DQRL	SZ			EP		012	28.54								
SHBL	BZ			EP		012	27.86								

April 20 2013 Hour: 13:12 52.0 Agency: REL Distant
EMSC OT=13:12:52.0 50.12N 157.13E 30Km ML=6.1 KURIL ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1325 7.89
 DQRL SZ EP 1325 9.13
 RCY SZ EP 1325 9.52
 QRWL SZ EP 1325 9.52
 SHBL BZ EP 1325 10.14

April 20 2013 Hour: 23:23 9.0 Agency: REL Regional
EMSC OT=23:23:09.0 37.31N 37.15E 3Km ML=3.7 CENTRAL TURKEY
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 2324 10.00
 BHL BZ EP 2324 18.38
 DQRL SZ EP 2324 21.09

April 21 2013 Hour: 1:45 38.0 Agency: REL Regional
EMSC OT=01:45:38.0 36.03N 28.22E 80Km ML=4.1 DODECANESE-TURKEY
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 147 8.40
 DQRL SZ EP 147 8.83
 HWQ SZ EP 147 11.27
 QRWL SZ EP 147 11.76
 RCY SZ EP 147 13.78

April 21 2013 Hour: 3:22 17.0 Agency: REL Distant
EMSC OT=03:22:17.0 29.96N 138.96E 435Km ML=6.2 IZU ISLANDS, JAPAN
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 333 57.87
 BHL BZ EP 333 59.72
 RCY SZ EP 334 0.78
 BEYL BZ EP 334 0.59
 DQRL SZ EP 334 1.80
 QRWL SZ EP 334 0.98

April 21 2013 Hour: 21: 6 30.0 Agency: REL Regional
EMSC OT=21:06:30.0 37.32N 37.11E 7Km ML=3.6 CENTRAL TURKEY
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 21 7 23.51
 BHL BZ EP 21 7 29.96
 DQRL SZ EP 21 7 40.01
 QRWL SZ EP 21 7 32.75

April 22 2013 Hour: 21:50 5.9 Lat: 33.78N Lon: 35.78E Depth: 7 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.0 secs
BEIRUT REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 18 321 EP 2150 8.96-0.07 39 1.0
 DQRL SZ 21 247 EP 2150 9.49 0.03 1.0
 DQRL SN 21 247 ES 2150 12.15 0.02 1.0
 QRWL SZ 27 199 EP 2150 10.48 0.06 1.0
 RCY SZ 32 170 EP 2150 11.12-0.04 1.0
 RCY SN 32 170 ES 2150 15.09 0.00 1.0
 HWQ SZ 58 16 EP 2150 15.28 0.05 1.0

April 22 2013 Hour: 23:40 50.0 Agency: REL Distant
EMSC OT=23:40:50.0 29.78S 176.02W 33Km ML=5.2 KERMADEC ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 0 0 43.91
 BHL BZ EP 0 0 44.16
 QRWL SZ EP 0 0 45.19
 DQRL SZ EP 0 0 45.53

April 23 2013 Hour: 3:36 18.0

Agency: REL Regional

EMSC OT=03:36:18.0 34.36N 28.26E 49Km ML=4.0 EASTERN MED SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		337	44.46								
QRWL	SZ			EP		337	46.34								
RCY	SZ			EP		337	48.07								

April 23 2013 Hour: 6:19 49.6

Lat: 33.80N Lon: 35.77E Depth: 21 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	317	EP		619	53.81-0.01		38						1.0
DQRL	SZ	21	239	EP		619	54.42 0.01								1.0
DQRL	SE	21	239	ES		619	57.98-0.00								1.0
BEYL	BZ	27	287	EP		619	54.97 0.07								0.2
QRWL	SZ	30	196	EP		619	55.33-0.02								1.0
RCY	SZ	35	170	EP		619	56.05-0.00								1.0
RCY	SE	35	170	ES		620	0.85 0.01								1.0
HWQ	SZ	55	17	EP		619	58.85 0.00								1.0

April 23 2013 Hour: 7:32 36.0

Lat: 34.34N Lon: 34.65E Depth: 13 Agency: REL Local

Magnitudes: 3.1MC REL

Rms: 0.1 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	105	117	EP		732	52.39-0.02								1.0
BHL	BN	105	117	ES		733	4.56 0.01								1.0
HWQ	SZ	120	93	EP		732	54.77 0.10		64						1.0
HWQ	SE	120	93	ES		733	8.45-0.03								1.0
RCY	SZ	144	130	EP		732	58.12-0.13								1.0

April 23 2013 Hour: 12:16 57.3

Lat: 33.45N Lon: 35.57E Depth: 14 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	15	46	EP		1217	0.80 0.02		31						1.0
QRWL	SN	15	46	ES		1217	3.35-0.00								1.0
SHBL	BZ	20	125	EP		1217	1.46 0.02								1.0
SHBL	BN	20	125	ES		1217	4.49-0.02								1.0
RCY	SZ	26	79	EP		1217	2.14-0.00								1.0
DQRL	SZ	28	1	EP		1217	2.44-0.02								1.0

April 23 2013 Hour: 13:58 10.6

Lat: 33.46N Lon: 35.66E Depth: 2 Agency: REL Local

Magnitudes: 2.3MC 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	10	11	EP		1358	12.19-0.13		23						1.0
QRWL	SN	10	11	ES		1358	13.62 0.04								1.0
SHBL	BZ	14	148	EP		1358	12.99-0.04								1.0
SHBL	BN	14	148	ES		1358	14.86 0.04								1.0
RCY	SZ	17	76	EP		1358	13.40 0.02								1.0
DQRL	SZ	29	343	EP		1358	15.35 0.08								1.0

April 23 2013 Hour: 15:42 38.7

Lat: 33.78N Lon: 35.79E Depth: 1 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	318	EP		1542	41.63-0.04		39						1.0
DQRL	SZ	22	247	EP		1542	42.25 0.02								1.0
DQRL	SN	22	247	ES		1542	44.87 0.02								1.0
QRWL	SZ	28	200	EP		1542	43.17-0.02								1.0
RCY	SZ	32	172	EP		1542	43.87-0.01								1.0
RCY	SN	32	172	ES		1542	47.74 0.01								1.0
HWQ	SZ	57	15	EP		1542	47.91 0.03								1.0

April 23 2013 Hour: 16:22 4.6 Lat: 33.80N Lon: 35.83E Depth: 8 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	20	304	EP		1622	8.28	0.06	38						1.0
BHL	BE	20	304	ES		1622	10.88	-0.01							1.0
DQRL	SZ	27	246	EP		1622	9.18	-0.03							1.0
DQRL	SN	27	246	ES		1622	12.58	-0.01							1.0
SHBL	BZ	51	189	EP		1622	13.05	0.03							1.0
SHBL	BN	51	189	ES		1622	19.22	-0.01							1.0
HWQ	SZ	54	11	EP		1622	13.41	-0.03							1.0

April 23 2013 Hour: 16:25 51.8 Lat: 33.68N Lon: 35.42E Depth: 6 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	14	79	EP		1625	54.34	-0.04	41						1.0
DQRL	SN	14	79	ES		1625	56.34	0.03							1.0
QRWL	SZ	29	121	EP		1625	56.45	-0.09							1.0
BHL	BZ	33	41	EP		1625	57.26	0.01							1.0
BHL	BN	33	41	ES		1626	1.30	0.01							1.0
SHBL	BZ	48	140	EP		1625	59.65	0.08							1.0

April 24 2013 Hour: 11:40 3.8 Lat: 33.46N Lon: 35.64E Depth: 4 Agency: REL Local
Magnitudes: 2.4MC 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	11	20	EP		1140	5.65	-0.08	28						1.0
QRWL	SN	11	20	ES		1140	7.18	-0.00							1.0
SHBL	BZ	15	142	EP		1140	6.27	-0.14							1.0
SHBL	BN	15	142	ES		1140	8.45	0.10							1.0
RCY	SZ	19	76	EP		1140	6.94	0.03							1.0
DQRL	SZ	29	346	EP		1140	8.56	0.09							1.0

April 24 2013 Hour: 12:10 37.3 Lat: 33.35N Lon: 35.61E Depth: 12 Agency: REL Local
Magnitudes: 2.3MC 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	13	91	EP		1210	40.48	0.05	24						1.0
SHBL	BN	13	91	ES		1210	42.69	-0.03							1.0
QRWL	SZ	23	18	EP		1210	41.57	-0.09							1.0
QRWL	SN	23	18	ES		1210	44.90	0.03							1.0
RCY	SZ	27	53	EP		1210	42.24	0.01							1.0
DQRL	SZ	40	355	EP		1210	44.12	0.02							1.0

April 24 2013 Hour: 14:54 51.0 Lat: 33.79N Lon: 35.79E Depth: 6 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	316	EP		1454	54.13	0.01	51						1.0
BHL	BE	18	316	ES		1454	56.41	-0.01							1.0
DQRL	SZ	22	246	EP		1454	54.82	0.03							1.0
QRWL	SZ	29	200	EP		1454	55.73	-0.02							1.0
QRWL	SN	29	200	ES		1454	59.24	-0.03							1.0
RCY	SZ	33	172	EP		1454	56.43	0.00							1.0
RCY	SN	33	172	ES		1455	0.46	0.02							1.0
HWQ	SZ	56	15	EP		1455	0.13	-0.01							1.0

April 25 2013 Hour: 4: 6 51.0 Agency: REL Regional

EMSC OT=04:06:51.0 35.00N 33.30E 52Km ML=3.0 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		4	7	26.13							
SHBL	BZ			EP		4	7	30.48							

April 25 2013 Hour: 12:13 17.4 Lat: 33.35N Lon: 35.58E Depth: 13 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	15	92	EP		1213	20.73	-0.03							1.0
SHBL	BN	15	92	ES		1213	23.27	0.02							1.0
QRWL	SZ	24	23	EP		1213	21.84	0.03	30						1.0
QRWL	SN	24	23	ES		1213	25.05	-0.02							1.0
RCY	SZ	28	56	EP		1213	22.54	0.00							1.0

April 25 2013 Hour: 12:26 47.5 Lat: 33.82N Lon: 35.75E Depth: 26 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	13	317	EP		1226	52.18	0.01	26						1.0
DQRL	SZ	21	234	EP		1226	52.75	-0.03							1.0
DQRL	SN	21	234	ES		1226	56.72	0.01							1.0
RCY	SZ	36	168	EP		1226	54.55	0.03							1.0
RCY	SN	36	168	ES		1226	59.72	-0.02							1.0
HWQ	SZ	54	19	EP		1226	56.85	-0.00							1.0

April 25 2013 Hour: 13:38 29.5 Lat: 33.45N Lon: 35.55E Depth: 15 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
QRWL	SZ	16	48	EP		1338	33.12	-0.00	27						1.0
QRWL	SN	16	48	ES		1338	35.84	0.01							1.0
SHBL	BZ	21	122	EP		1338	33.75	0.01							1.0
SHBL	BN	21	122	ES		1338	36.91	0.00							1.0
RCY	SZ	27	78	EP		1338	34.50	-0.02							1.0

April 25 2013 Hour: 15:55 25.0 Lat: 32.84N Lon: 34.98E Depth: 28 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

NORTH GALILEE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	91	51	EP		1555	39.70	0.00							1.0
SHBL	BE	91	51	ES		1555	50.57	-0.01							1.0
RCY	SZ	108	47	EP		1555	42.05	-0.00	42						1.0
DQRL	SZ	111	30	EP		1555	42.31	-0.02							1.0
DQRL	SN	111	30	ES		1555	55.17	0.01							1.0

April 25 2013 Hour: 22:54 15.0 Agency: REL Regional

EMSC OT=22:54:15.0 37.30N 37.11E 20Km ML=4.3 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2255	6.46								
BHL	BZ			EP		2255	11.43								
DQRL	SZ			EP		2255	17.10								
QRWL	SZ			EP		2255	19.47								
RCY	SZ			EP		2255	19.63								
SHBL	BZ			EP		2255	21.61								

April 26 2013 Hour: 6:53 29.0 Agency: REL Distant
EMSC OT=06:53:29.0 28.69S 178.78W 350Km ML=6.2 KERMADEC ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 712 38.73
 BHL BZ EP 712 38.94
 RCY SZ EP 712 39.52
 DQRL SZ EP 712 40.04

April 26 2013 Hour: 10:16 46.3 Lat: 33.54N Lon: 35.71E Depth: 1 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 2 285 EP 1016 46.80-0.01 28 1.0
 RCY SZ 13 113 EP 1016 48.38-0.07 1.0
 RCY SN 13 113 ES 1016 50.08 0.04 1.0
 SHBL BZ 22 171 EP 1016 49.85 0.01 1.0
 DQRL SZ 22 325 EP 1016 49.89 0.02 1.0

April 26 2013 Hour: 12:31 54.2 Lat: 33.80N Lon: 35.76E Depth: 14 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 15 320 EP 1231 57.61-0.06 30 1.0
 BHL BE 15 320 ES 1232 0.25 0.02 1.0
 DQRL SZ 20 239 EP 1231 58.33 0.02 1.0
 RCY SZ 34 168 EP 1232 0.27-0.03 1.0
 RCY SN 34 168 ES 1232 4.82 0.01 1.0
 HWQ SZ 56 18 EP 1232 3.44 0.03 1.0

April 26 2013 Hour: 12:58 55.8 Lat: 33.34N Lon: 35.58E Depth: 16 Agency: REL Local
 Magnitudes: 2.3MC 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 16 86 EP 1258 59.54 0.00 1.0
 QRWL SZ 25 23 EP 1259 0.64 0.00 21 1.0
 QRWL SN 25 23 ES 1259 4.21-0.00 1.0
 RCY SZ 30 54 EP 1259 1.30-0.00 1.0
 RCY SN 30 54 ES 1259 5.37-0.00 1.0

April 26 2013 Hour: 15:28 52.1 Lat: 33.79N Lon: 35.78E Depth: 4 Agency: REL Local
 Magnitudes: 2.5MC REL Rms: 0.0 secs

BEIRUT REGION

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 17 318 EP 1528 54.95-0.02 30 1.0
 DQRL SZ 21 244 EP 1528 55.64-0.01 1.0
 DQRL SN 21 244 ES 1528 58.27 0.02 1.0
 RCY SZ 33 170 EP 1528 57.53-0.01 1.0
 RCY SE 33 170 ES 1529 1.55 0.00 1.0
 HWQ SZ 56 16 EP 1529 1.28 0.02 1.0

April 27 2013 Hour: 9:12 0.2 Lat: 33.39N Lon: 35.64E Depth: 0 Agency: REL Local
 Magnitudes: 2.5MC REL Rms: 0.0 secs

SOUTH LEBANON

STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 SHBL BZ 10 116 EP 912 1.85-0.01 1.0
 QRWL SZ 18 12 EP 912 2.99-0.05 31 1.0
 RCY SZ 21 57 EP 912 3.65 0.03 1.0
 RCY SN 21 57 ES 912 6.18-0.00 1.0
 DQRL SZ 36 349 EP 912 5.96 0.05 1.0
 DQRL SN 36 349 ES 912 10.15-0.02 1.0

April 27 2013 Hour: 15:11 39.1 Lat: 33.79N Lon: 35.78E Depth: 2 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	315	EP		1511	41.89	-0.04	38						1.0
BHL	BN	17	315	ES		1511	44.05	0.02							1.0
DQRL	SZ	22	244	EP		1511	42.72	0.01							1.0
RCY	SZ	33	172	EP		1511	44.52	0.02							1.0
RCY	SN	33	172	ES		1511	48.48	-0.01							1.0
HWQ	SZ	56	15	EP		1511	48.11	0.01							1.0

April 27 2013 Hour: 15:16 2.0 Lat: 33.45N Lon: 35.64E Depth: 0 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	21	EP		1516	3.83	-0.08	26						1.0
QRWL	SN	12	21	ES		1516	5.31	0.02							1.0
SHBL	BZ	15	139	EP		1516	4.49	-0.00							1.0
SHBL	BN	15	139	ES		1516	6.31	0.01							1.0
RCY	SZ	19	75	EP		1516	5.15	0.01							1.0
DQRL	SZ	29	348	EP		1516	6.72	0.01							1.0
BHL	BZ	50	2	EP		1516	10.20	0.04							1.0

April 27 2013 Hour: 16:47 25.8 Lat: 33.78N Lon: 35.77E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

AKKAR

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		1647	28.53	-0.07	33						1.0
BHL	BN	17	321	ES		1647	30.64	-0.03							1.0
DQRL	SZ	21	245	EP		1647	29.19	0.08							1.0
DQRL	SN	21	245	ES		1647	31.57	0.01							1.0
SHBL	BZ	48	183	EP		1647	33.53	-0.06							1.0
HWQ	SZ	57	16	EP		1647	35.11	0.07							1.0

April 28 2013 Hour: 11:23 24.4 Lat: 34.70N Lon: 36.26E Depth: 2 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	55	211	EP		1123	33.30	0.00	71						1.0
HWQ	SN	55	211	ES		1123	39.90	-0.01							1.0
BHL	BZ	105	212	EP		1123	41.27	0.01							1.0
DQRL	SZ	128	210	EP		1123	44.89	-0.00							1.0
DQRL	SN	128	210	ES		1124	0.10	0.01							1.0
RCY	SZ	140	196	EP		1123	46.66	-0.00							1.0

April 28 2013 Hour: 13:52 5.3 Lat: 33.79N Lon: 35.78E Depth: 8 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	317	EP		1352	8.53	-0.01	39						1.0
BHL	BN	18	317	ES		1352	10.93	-0.01							1.0
DQRL	SZ	22	245	EP		1352	9.12	-0.04							1.0
DQRL	SN	22	245	ES		1352	12.06	0.04							1.0
RCY	SZ	33	171	EP		1352	10.84	-0.01							1.0
HWQ	SZ	56	15	EP		1352	14.56	0.03							1.0

April 28 2013 Hour: 16:31 4.0 Agency: REL Regional
EMSC OT=16:31:04.0 37.45N 22.70E 58Km ML=4.7 SOUTHERN GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1632	36.48								
DQRL	SZ			EP		1632	36.88								
HWQ	SZ			EP		1632	38.99								
QRWL	SZ			EP		1632	40.46								

RCY	SZ		EP	1632	41.87
SHBL	BZ		EP	1632	42.12

April 29 2013 Hour: 10:17 0.0

Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1017	56.39								
SHBL	BZ			EP		1017	55.90								

April 29 2013 Hour: 15: 7 2.7

Lat: 33.45N Lon: 35.64E Depth: 0 Agency: REL Local

Magnitudes: 2.5MC REL

Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	18	EP		15 7	4.48	-0.10	30						1.0
QRWL	SN	12	18	ES		15 7	5.99	0.02							1.0
SHBL	BZ	15	140	EP		15 7	5.07	0.01							1.0
RCY	SZ	19	73	EP		15 7	5.76	0.03							1.0
RCY	SE	19	73	ES		15 7	7.97	-0.00							1.0
DQRL	SZ	29	347	EP		15 7	7.48	0.05							1.0

April 29 2013 Hour: 15:25 37.8

Lat: 33.79N Lon: 35.77E Depth: 16 Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	319	EP		1525	41.63	-0.02	43						1.0
BHL	BE	16	319	ES		1525	44.48	0.01							1.0
DQRL	SZ	21	242	EP		1525	42.19	-0.01							1.0
DQRL	SN	21	242	ES		1525	45.43	0.01							1.0
RCY	SZ	34	170	EP		1525	43.90	-0.00							1.0
HWQ	SZ	56	17	EP		1525	47.12	0.01							1.0

April 29 2013 Hour: 16:31 9.2

Lat: 33.81N Lon: 35.79E Depth: 22 Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	311	EP		1631	13.60	-0.05	42						1.0
BHL	BE	16	311	ES		1631	16.94	0.01							1.0
DQRL	SZ	23	240	EP		1631	14.36	0.01							1.0
DQRL	SN	23	240	ES		1631	18.15	0.01							1.0
QRWL	SZ	31	198	EP		1631	15.21	-0.01							1.0
HWQ	SZ	54	16	EP		1631	18.39	0.02							1.0

April 29 2013 Hour: 19:38 49.3

Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1938	52.27								
RCY	SZ			EP		1938	55.27								
DQRL	SZ			EP		1938	59.12								
BHL	BZ			EP		1939	2.59								

April 30 2013 Hour: 1: 3 35.0

Agency: REL Distant

EMSC OT=01:03:35.0 51.32N 92.44E 10Km ML=5.3 SIBERIA, RUSSIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		111	43.37								
DQRL	SZ			EP		111	45.23								
SHBL	BZ			EP		111	46.05								

April 30 2013 Hour: 7:29 24.7

Lat: 33.70N Lon: 35.53E Depth: 5 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
DQRL	SZ	4	75	EP		729	25.93	0.00	36						1.0
DQRL	SE	4	75	ES		729	26.81	-0.01							1.0
QRWL	SZ	22	140	EP		729	28.40	0.03							1.0
QRWL	SN	22	140	ES		729	31.07	0.00							1.0
BHL	BZ	26	26	EP		729	29.00	0.01							1.0

BHL	BN	26	26	ES		729	32.16	0.01									1.0
RCY	SZ	36	128	EP		729	30.59	-0.04									1.0
RCY	SN	36	128	ES		729	35.01	0.01									1.0
HWQ	SZ	75	31	EP		729	36.70	-0.17									0.2

April 30 2013 Hour: 9:19 23.0

Agency: REL Regional

EMSC OT=09:19:23.0 39.16N 27.20E 5Km ML=3.3 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		920	41.51								
BHL	BZ			EP		920	47.87								
DQRL	SZ			EP		920	50.93								
RCY	SZ			EP		920	53.87								

April 30 2013 Hour: 9:32 10.6

Lat: 33.83N Lon: 35.76E Depth: 21 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	13	311	EP		932	14.73	0.00	26						1.0
BHL	BN	13	311	ES		932	17.75	-0.00							1.0
RCY	SZ	38	169	EP		932	17.54	0.01							1.0
RCY	SN	38	169	ES		932	22.63	-0.00							1.0
HWQ	SZ	53	19	EP		932	19.60	0.00							1.0

April 30 2013 Hour: 20:45 32.0

Lat: 33.78N Lon: 35.77E Depth: 5 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	320	EP		2045	34.99	-0.02	39						1.0
DQRL	SZ	21	245	EP		2045	35.60	0.05							1.0
DQRL	SN	21	245	ES		2045	38.17	0.00							1.0
QRWL	SZ	28	198	EP		2045	36.54	-0.07							1.0
QRWL	SN	28	198	ES		2045	39.99	-0.02							1.0
RCY	SZ	33	170	EP		2045	37.41	0.03							1.0
RCY	SN	33	170	ES		2045	41.37	0.01							1.0
SHBL	BZ	49	183	EP		2045	39.93	0.01							1.0
HWQ	SZ	57	16	EP		2045	41.27	0.00							0.2

Epicentral Map of Lebanon

APRIL 2013

