

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

September

2013

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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.

September 1 2013 Hour: 8:54 54.2 Lat: 33.37N Lon: 35.63E Depth: 12 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	10	105	EP		854	57.03	0.00	40						1.0
SHBL	BN	10	105	ES		854	59.10	-0.01							1.0
QRWL	SZ	20	13	EP		854	58.05	-0.04							1.0
QRWL	SE	20	13	ES		855	0.97	0.02							1.0
RCY	SZ	23	54	EP		854	58.59	0.02							1.0
DQRL	SZ	37	351	EP		855	0.70	0.06							1.0
DQRL	SN	37	351	ES		855	5.36	-0.02							1.0
BHL	BZ	59	2	EP		855	3.94	-0.04							1.0

September 1 2013 Hour: 11:22 18.5 Lat: 34.19N Lon: 34.77E Depth: 14 Agency: REL Local
Magnitudes: 3.2MC 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	88	111	EP		1122	32.36	0.01	71						1.0
BHL	BN	88	111	ES		1122	42.53	-0.08							1.0
DQRL	SZ	91	126	EP		1122	32.94	0.03							1.0
DQRL	SN	91	126	ES		1122	43.61	0.02							1.0
HWQ	SZ	109	84	EP		1122	35.47	-0.01							1.0
HWQ	SN	109	84	ES		1122	48.02	-0.05							1.0
QRWL	SZ	110	130	EP		1122	35.78	0.08							1.0
RCY	SZ	125	128	EP		1122	37.96	0.08							1.0
RCY	SE	125	128	ES		1122	52.28	0.03							1.0
SHBL	BZ	130	136	EP		1122	38.67	0.09							1.0

September 1 2013 Hour: 14:25 41.4 Lat: 33.45N Lon: 35.64E Depth: 0 Agency: REL Local
Magnitudes: 2.3MC 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		1425	43.22	-0.01							1.0
QRWL	SN	11	21	ES		1425	44.57	-0.03							1.0
SHBL	BZ	15	139	EP		1425	43.85	0.03	24						1.0
SHBL	BN	15	139	ES		1425	45.58	-0.05							1.0
RCY	SZ	19	75	EP		1425	44.53	0.07							1.0
DQRL	SZ	29	347	EP		1425	46.05	0.00							1.0

September 1 2013 Hour: 19:50 40.3 Agency: REL Distant
EMSC OT=19:50:40.0 29.02S 176.33W 10Km M=6.1 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2010	36.24								
RCY	SZ			EP		2010	36.90								
DQRL	SZ			EP		2010	37.06								
SHBL	BZ			EP		2010	36.91								

September 2 2013 Hour: 2:51 13.0 Agency: REL Distant
EMSC OT=02:51:13.0 42.23N 133.71E 446Km M=5.6 PRIMOR'YE, RUSSIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		3 1	58.19								
DQRL	SZ			EP		3 1	59.29								
SHBL	BZ			EP		3 2	0.17								

September 2 2013 Hour: 3:57 51.5 Lat: 33.55N Lon: 35.35E Depth: 13 Agency: REL Local
Magnitudes: 3.1MC 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	27	50	EP		357	56.55	0.06	67						1.0
DQRL	SN	27	50	ES		358	0.19	-0.01							1.0
QRWL	SZ	31	90	EP		357	57.00	-0.05							1.0
QRWL	SN	31	90	ES		358	1.18	0.01							1.0
SHBL	BZ	43	120	EP		357	58.83	-0.01							1.0

RCY	SZ	46	97	EP		357	59.30	0.03									1.0
BHL	BZ	49	36	EP		357	59.66	-0.03									1.0

September 2 2013 Hour: 9:39 18.3 Lat: 33.36N Lon: 35.66E Depth: 15 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	8	102	EP		939	21.20	-0.08							1.0
SHBL	BN	8	102	ES		939	23.55	0.08							1.0
QRWL	SZ	21	7	EP		939	22.30	-0.18							1.0
QRWL	SE	21	7	ES		939	25.56	0.00							1.0
RCY	SZ	22	49	EP		939	22.77	0.02	31						1.0
DQRL	SZ	39	348	EP		939	25.17	0.15							1.0

September 2 2013 Hour: 16:33 59.0 Agency: REL Regional
EMSC OT=16:33:59.0 36.72N 30.36E 53Km M=3.6 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1635	15.75								
RCY	SZ			EP		1635	19.28								

September 3 2013 Hour: 6:49 48.3 Lat: 33.28N Lon: 35.67E Depth: 21 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

MOUNT HERMON REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	10	41	EP		649	52.11	0.01							1.0
SHBL	BE	10	41	ES		649	54.95	-0.00							1.0
RCY	SZ	28	32	EP		649	53.88	-0.00	28						1.0
RCY	SN	28	32	ES		649	58.05	0.00							1.0
DQRL	SZ	48	348	EP		649	56.48	-0.00							1.0

September 3 2013 Hour: 6:54 57.0 Lat: 33.88N Lon: 35.83E Depth: 9 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	280	EP		655	0.19	-0.05	33						1.0
BHL	BN	17	280	ES		655	2.64	0.01							1.0
DQRL	SZ	31	232	EP		655	2.32	0.03							1.0
RCY	SZ	42	180	EP		655	4.00	-0.03							1.0
RCY	SN	42	180	ES		655	9.24	0.01							1.0
HWQ	SZ	46	13	EP		655	4.60	0.02							1.0
SHBL	BZ	59	188	EP		655	6.72	0.00							1.0

September 3 2013 Hour: 6:55 22.7 Lat: 33.86N Lon: 35.81E Depth: 1 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	290	EP		655	25.08	-0.02	30						1.0
BHL	BN	15	290	ES		655	26.90	0.00							1.0
DQRL	SZ	28	232	EP		655	27.12	0.00							1.0
RCY	SZ	40	176	EP		655	29.15	0.00							1.0
RCY	SN	40	176	ES		655	33.94	-0.00							1.0
HWQ	SZ	48	16	EP		655	30.49	0.00							1.0
SHBL	BZ	57	186	EP		655	31.83	0.01							1.0

September 3 2013 Hour: 15:23 45.3 Lat: 33.79N Lon: 35.79E 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	18	316	EP		1523	48.31	0.03	53						1.0
DQRL	SZ	22	246	EP		1523	48.88	-0.05							1.0
DQRL	SN	22	246	ES		1523	51.62	0.01							1.0
RCY	SZ	32	173	EP		1523	50.54	-0.02							1.0
RCY	SN	32	173	ES		1523	54.45	0.01							1.0
HWQ	SZ	56	15	EP		1523	54.42	-0.01							1.0

September 4 2013 Hour: 0:18 25.0 Agency: REL Distant
EMSC OT=00:18:25.0 30.04N 138.80E 419Km M=6.5 IZU ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 030 5.47
 BHL BZ EP 030 6.79
 RCY SZ EP 030 7.89
 DQRL SZ EP 030 8.48
 SHBL BZ EP 030 8.55

September 4 2013 Hour: 2:32 29.0 Agency: REL Distant
EMSC OT=02:32:29.0 51.63N 174.77W 10Km M=6.4 ANDREANOF ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 245 30.69
 SHBL BZ EP 245 33.30

September 5 2013 Hour: 12:54 18.4 Lat: 34.68N Lon: 36.27E Depth: 7 Agency: REL Local
 Magnitudes: 3.3MC REL Rms: 0.0 secs
NORTH LEBANON
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ 54 214 EP 1254 27.18-0.01 88 1.0
 HWQ SE 54 214 ES 1254 33.70 0.01 1.0
 BHL BZ 103 214 EP 1254 34.94-0.04 1.0
 DQRL SZ 126 211 EP 1254 38.39 0.06 1.0
 DQRL SN 126 211 ES 1254 53.06-0.01 1.0
 RCY SZ 137 197 EP 1254 40.01-0.01 1.0

September 6 2013 Hour: 11:33 55.0 Agency: REL Distant
EMSC OT=11:33:55.0 20.30N 122.44E 188Km M=5.9 BATAN ISL REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1145 23.68
 RCY SZ EP 1145 24.01

September 6 2013 Hour: 13:46 35.4 Lat: 33.87N Lon: 35.72E Depth: 23 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 7 298 EP 1346 39.31-0.02 35 1.0
 BHL BE 7 298 ES 1346 42.27 0.01 1.0
 DQRL SZ 23 217 EP 1346 40.62-0.00 1.0
 RCY SZ 43 166 EP 1346 43.13 0.02 1.0
 RCY SN 43 166 ES 1346 48.83-0.01 1.0
 HWQ SZ 49 25 EP 1346 43.92-0.00 1.0

September 6 2013 Hour: 18:44 4.9 Lat: 33.79N Lon: 35.78E Depth: 2 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.0 secs
BEIRUT REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 17 318 EP 1844 7.65-0.05 48 1.0
 DQRL SZ 21 244 EP 1844 8.38-0.02 1.0
 DQRL SN 21 244 ES 1844 11.02 0.04 1.0
 RCY SZ 33 170 EP 1844 10.27-0.03 1.0
 RCY SE 33 170 ES 1844 14.29 0.01 1.0
 HWQ SZ 56 16 EP 1844 14.06 0.05 1.0

September 6 2013 Hour: 21:43 25.0 Agency: REL Regional
EMSC OT=21:43:25.0 36.34N 28.82E 50Km M=3.4 DODECANESE REG
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 2144 48.41
 DQRL SZ EP 2144 49.88
 HWQ SZ EP 2144 51.61
 SHBL BZ EP 2144 54.61

September 8 2013 Hour: 4:59 30.0

Agency: REL Regional

EMSC OT=04:59:30.0 34.80N 25.01E 10Km M=4.9 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		5 1	21.45								
RCY	SZ			EP		5 1	15.02								

September 8 2013 Hour: 11:25 52.9 Lat: 33.79N 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	17	318	EP		1125	55.67-0.01		38						1.0
BHL	BE	17	318	ES		1125	57.69-0.02								1.0
DQRL	SZ	21	244	EP		1125	56.41 0.04								1.0
RCY	SZ	33	170	EP		1125	58.23-0.04								1.0
RCY	SN	33	170	ES		1126	2.21 0.00								1.0
HWQ	SZ	56	16	EP		1126	2.07 0.03								1.0

September 8 2013 Hour: 14:38 58.8 Lat: 33.55N Lon: 35.71E Depth: 0

Agency: REL Local

Magnitudes: 3.0MC REL

Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	262	EP		1438	59.17-0.07		59						1.0
QRWL	SN	3	262	ES		1438	59.59 0.02								1.0
RCY	SZ	13	117	EP		1439	0.87-0.06								1.0
RCY	SN	13	117	ES		1439	2.54 0.03								1.0
DQRL	SZ	22	323	EP		1439	2.31 0.04								1.0
DQRL	SN	22	323	ES		1439	4.84 0.00								1.0
SHBL	BZ	23	172	EP		1439	2.50 0.03								1.0

September 8 2013 Hour: 15:37 35.8 Lat: 33.98N Lon: 36.23E Depth: 25

Agency: REL Local

Magnitudes: 3.0MC REL

Rms: 0.0 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	42	322	EP		1537	43.46-0.01		59						1.0
HWQ	BN	42	322	ES		1537	49.16 0.01								1.0
BHL	BZ	54	261	EP		1537	45.00-0.06								1.0
RCY	SZ	65	214	EP		1537	46.63-0.01								1.0
RCY	SN	65	214	ES		1537	54.67 0.00								1.0
DQRL	SZ	68	244	EP		1537	47.14 0.07								1.0
DQRL	SN	68	244	ES		1537	55.40-0.01								1.0

September 8 2013 Hour: 16:32 59.0

Agency: REL Regional

EMSC OT=16:32:59.0 36.40N 28.30E 40Km M=3.5 DODECANESE REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1634	31.87								
SHBL	BZ			EP		1634	35.54								

September 8 2013 Hour: 16:52 10.2 Lat: 33.79N Lon: 35.79E 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	18	315	EP		1652	13.26-0.01		41						1.0
BHL	BE	18	315	ES		1652	15.51 0.00								1.0
DQRL	SZ	22	245	EP		1652	14.00 0.01								1.0
RCY	SZ	33	172	EP		1652	15.69-0.01								1.0
RCY	SN	33	172	ES		1652	19.73-0.00								1.0
HWQ	SZ	56	15	EP		1652	19.33 0.01								1.0

September 8 2013 Hour: 23:48 1.0

Agency: REL Regional

EMSC OT=23:48:01.0 35.36N 27.95E 10Km M=4.1 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2349	36.25								
HWQ	SZ			EP		2349	38.07								
SHBL	BZ			EP		2349	38.79								
RCY	SZ			EP		2349	39.17								

September 8 2013 Hour: 23:51 10.0

Agency: REL Regional

EMSC OT=23:51:10.0 35.55N 27.86E 2Km M=3.9 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		2352	47.52								
HWQ	SZ			EP		2352	48.05								
DQRL	SZ			EP		2352	48.68								

September 9 2013 Hour: 5:14 55.0 Lat: 33.78N Lon: 35.78E Depth: 0

Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	318	EP		514	57.91	0.01	47						1.0
DQRL	SZ	22	246	EP		514	58.58	0.06							1.0
DQRL	SN	22	246	ES		515	1.08-0.04								1.0
RCY	SZ	32	172	EP		515	0.23-0.01								1.0
RCY	SN	32	172	ES		515	4.10-0.00								1.0
HWQ	BZ	57	15	EP		515	4.13-0.02								1.0

September 9 2013 Hour: 9:16 25.2 Lat: 33.55N Lon: 35.71E Depth: 0

Agency: REL Local

Magnitudes: 2.5MC REL

Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	264	EP		916	25.67-0.02								1.0
RCY	SZ	13	118	EP		916	27.27-0.00		30						1.0
DQRL	SZ	22	322	EP		916	28.70-0.01								1.0
DQRL	SN	22	322	ES		916	31.33	0.02							1.0
SHBL	BZ	23	173	EP		916	28.83-0.01								1.0
SHBL	BN	23	173	ES		916	31.57	0.02							1.0

September 9 2013 Hour: 15:39 52.8 Lat: 33.79N Lon: 35.77E Depth: 15

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	17	320	EP		1539	56.51-0.04		32						1.0
BHL	BN	17	320	ES		1539	59.36	0.04							1.0
DQRL	SZ	21	244	EP		1539	57.13	0.10							1.0
DQRL	SN	21	244	ES		1540	0.08-0.07								1.0
RCY	SZ	33	169	EP		1539	58.71-0.00								1.0
HWQ	SZ	57	17	EP		1540	2.13-0.02								1.0

September 9 2013 Hour: 23: 5 53.4 Lat: 33.93N Lon: 36.17E Depth: 11

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
HWQ	BZ	44	333	EP		23	6	0.73-0.05							1.0
HWQ	BE	44	333	ES		23	6	6.26	0.03						1.0
BHL	BZ	47	267	EP		23	6	1.28-0.02	37						1.0
BHL	BN	47	267	ES		23	6	7.11-0.03							1.0
RCY	SZ	57	213	EP		23	6	2.78	0.00						1.0
RCY	SE	57	213	ES		23	6	9.68-0.02							1.0
DQRL	SZ	60	246	EP		23	6	3.45	0.11						1.0
SHBL	BZ	75	211	EP		23	6	5.64-0.01							1.0

September 10 2013 Hour: 14:15 0.8 Lat: 34.06N Lon: 35.64E Depth: 6 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

KESROUANE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	175	EP		1415	3.87	-0.00	54						1.0
BHL	BE	18	175	ES		1415	6.16	-0.00							1.0
HWQ	SZ	37	50	EP		1415	6.89	-0.02							1.0
HWQ	SN	37	50	ES		1415	11.45	0.01							1.0
DQRL	SZ	40	189	EP		1415	7.37	0.01							1.0
RCY	SZ	65	164	EP		1415	11.40	-0.00							1.0

September 10 2013 Hour: 14:40 40.3 Lat: 33.81N Lon: 35.77E Depth: 15 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	315	EP		1440	43.93	0.01	35						1.0
DQRL	SZ	22	239	EP		1440	44.70	-0.00							1.0
DQRL	SN	22	239	ES		1440	47.93	-0.00							1.0
RCY	SZ	35	170	EP		1440	46.56	0.01							1.0
RCY	SN	35	170	ES		1440	51.14	-0.01							1.0
HWQ	SZ	55	17	EP		1440	49.37	-0.01							1.0

September 11 2013 Hour: 10:14 23.3 Lat: 33.79N Lon: 35.77E Depth: 4 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	321	EP		1014	26.14	0.01	57						1.0
DQRL	SZ	20	244	EP		1014	26.75	0.05							1.0
DQRL	SE	20	244	ES		1014	29.23	-0.00							1.0
QRWL	SZ	28	197	EP		1014	27.68	-0.16							1.0
RCY	SZ	33	169	EP		1014	28.68	0.01							1.0
RCY	SN	33	169	ES		1014	32.70	0.03							1.0
HWQ	SZ	57	17	EP		1014	32.50	0.00							1.0
HWQ	SE	57	17	ES		1014	39.32	-0.01							1.0

September 12 2013 Hour: 1:20 3.5 Lat: 31.71N Lon: 35.64E Depth: 17 Agency: REL Regional
Magnitudes: 3.7MC REL Rms: 0.2 secs

DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	182	3	EP		120	30.36	-0.22							1.0
RCY	SZ	199	5	EP		120	32.65	-0.04							1.0
RCY	SN	199	5	ES		120	53.94	-0.33							1.0
QRWL	SZ	204	1	EP		120	33.51	0.27							1.0
DQRL	SZ	221	358	EP		120	35.88	0.45							1.0
DQRL	SN	221	358	ES		120	59.13	0.08							1.0
BHL	BZ	243	0	EP		120	38.32	0.16	125						1.0
HWQ	BZ	286	6	EP		120	43.23	-0.28							1.0

September 12 2013 Hour: 4:20 46.0 Agency: REL Distant

EMSC OT=04:20:46.0 25.78S 179.23E 545Km M=5.0 SOUTH OF FIJI ISL

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		439	30.98								
SHBL	BZ			EP		439	31.26								
DQRL	SZ			EP		439	31.62								

September 12 2013 Hour: 13:4 47.5 Lat: 33.54N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	279	EP		13	4	47.95	-0.03						1.0
RCY	SZ	13	115	EP		13	4	49.48	-0.05	46					1.0
RCY	SN	13	115	ES		13	4	51.06	0.02						1.0
SHBL	BZ	22	172	EP		13	4	51.06	0.04						1.0

DQRL SZ 22 324 EP 13 4 51.08-0.02 1.0
 DQRL SN 22 324 ES 13 4 53.80 0.04 1.0

September 12 2013 Hour: 15:51 25.1 Lat: 33.49N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	7	339	EP		1551	26.28	0.01							1.0
RCY	SZ	12	84	EP		1551	27.13	0.16							1.0
RCY	SN	12	84	ES		1551	28.37	-0.00							1.0
SHBL	BZ	16	169	EP		1551	27.29	-0.29							1.0
DQRL	SZ	28	332	EP		1551	29.51	-0.03	62						1.0
BHL	BZ	47	354	EP		1551	32.59	-0.02							1.0
BHL	BN	47	354	ES		1551	38.22	0.03							1.0
HWQ	SZ	91	14	EP		1551	39.60	-0.08							1.0

September 12 2013 Hour: 15:53 4.7 Lat: 33.80N Lon: 35.78E Depth: 13 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	315	EP		1553	8.15	-0.01	43						1.0
DQRL	SZ	22	241	EP		1553	8.82	-0.09							1.0
DQRL	SN	22	241	ES		1553	12.06	0.06							1.0
RCY	SZ	34	171	EP		1553	10.71	-0.02							1.0
RCY	SE	34	171	ES		1553	15.18	0.02							1.0
HWQ	SZ	55	17	EP		1553	13.95	0.04							1.0

September 13 2013 Hour: 11:55 35.8 Lat: 33.49N Lon: 35.71E Depth: 15 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
RCY	SZ	12	86	EP		1155	39.14	-0.01	25						1.0
RCY	SN	12	86	ES		1155	41.63	0.01							1.0
DQRL	SZ	27	332	EP		1155	40.92	0.01							1.0
DQRL	SN	27	332	ES		1155	44.68	-0.01							1.0
HWQ	SZ	90	14	EP		1155	50.09	0.00							1.0

September 14 2013 Hour: 11: 7 31.9 Lat: 33.76N Lon: 35.88E Depth: 12 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
BHL	BZ	26	306	EP		11 7	36.55	-0.10							1.0
BHL	BE	26	306	ES		11 7	40.24	0.04							1.0
DQRL	SZ	30	258	EP		11 7	37.17	0.04							1.0
RCY	SZ	30	189	EP		11 7	37.20	0.02	24						1.0
RCY	SN	30	189	ES		11 7	41.12	-0.01							1.0
HWQ	SZ	57	6	EP		11 7	41.41	0.03							1.0

September 15 2013 Hour: 4:47 37.9 Lat: 33.65N Lon: 35.83E Depth: 8 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.1 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	17	179	EP		447	41.09	0.07							1.0
RCY	SN	17	179	ES		447	43.35	0.03							1.0
QRWL	SZ	18	232	EP		447	41.11	-0.04							1.0
QRWL	SN	18	232	ES		447	43.47	-0.08							1.0
DQRL	SZ	25	285	EP		447	42.37	0.10							1.0
DQRL	SN	25	285	ES		447	45.50	0.00							1.0
BHL	BZ	33	330	EP		447	43.53	0.06	54						1.0
SHBL	BZ	34	194	EP		447	43.67	0.04							1.0
SHBL	BN	34	194	ES		447	47.79	-0.06							1.0
HWQ	SZ	71	8	EP		447	49.33	-0.12							1.0

September 15 2013 Hour: 13: 6 24.2 Lat: 33.80N Lon: 35.77E Depth: 10 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	318	EP		13	6	27.32-0.04	33						1.0
DQRL	SZ	21	241	EP		13	6	28.11	0.01						1.0
DQRL	SN	21	241	ES		13	6	30.99	0.02						1.0
RCY	SZ	34	170	EP		13	6	30.02-0.04							1.0
RCY	SE	34	170	ES		13	6	34.39	0.02						1.0
HWQ	SZ	56	17	EP		13	6	33.42	0.04						1.0

September 16 2013 Hour: 18:43 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1843	26.21								
SHBL	BZ			EP		1843	24.19								

September 17 2013 Hour: 9:52 48.5 Lat: 33.87N Lon: 35.84E 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	17	282	EP		952	51.24-0.04	36							1.0
DQRL	SZ	31	234	EP		952	53.55	0.10							1.0
DQRL	SE	31	234	ES		952	57.10-0.03								1.0
RCY	SZ	42	180	EP		952	55.12-0.07								1.0
RCY	SN	42	180	ES		953	0.17	0.02							1.0
HWQ	SZ	46	13	EP		952	55.96	0.01							1.0

September 17 2013 Hour: 10:51 44.0 Lat: 33.45N Lon: 35.62E Depth: 1 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	28	EP		1051	46.05	0.02							1.0
QRWL	SN	12	28	ES		1051	47.51	0.00							1.0
SHBL	BZ	16	135	EP		1051	46.72	0.03							1.0
SHBL	BE	16	135	ES		1051	48.64-0.02								1.0
RCY	SZ	21	76	EP		1051	47.39-0.01	31							1.0
DQRL	SZ	29	351	EP		1051	48.64-0.02								1.0

September 17 2013 Hour: 14:34 8.6 Lat: 33.38N Lon: 35.49E Depth: 6 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	24	98	EP		1434	12.76	0.01	35						1.0
SHBL	BN	24	98	ES		1434	15.79	0.01							1.0
RCY	SZ	35	68	EP		1434	14.40-0.02								1.0
DQRL	SZ	37	12	EP		1434	14.76	0.01							1.0
DQRL	SN	37	12	ES		1434	19.28	0.01							1.0
BHL	BZ	60	15	EP		1434	18.44-0.01								1.0
HWQ	SZ	108	23	EP		1434	26.07	0.01							1.0

September 17 2013 Hour: 15:18 20.4 Lat: 33.51N Lon: 35.69E Depth: 0 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	4	346	EP		1518	20.95-0.03	25							1.0
RCY	SZ	14	99	EP		1518	22.54-0.01								1.0
RCY	SE	14	99	ES		1518	24.19	0.02							1.0
DQRL	SZ	24	332	EP		1518	24.25	0.02							1.0
DQRL	SN	24	332	ES		1518	27.12	0.03							1.0
BHL	BZ	43	355	EP		1518	27.31-0.03								1.0

September 17 2013 Hour: 20:40 51.0

Agency: REL Regional

EMSC OT=20:40:51.0 39.03N 41.43E 2Km M=5.1 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2042	28.15								
BHL	BZ			EP		2042	34.56								
DQRL	SZ			EP		2042	37.71								
RCY	SZ			EP		2042	37.87								
SHBL	BZ			EP		2042	40.35								

September 18 2013 Hour: 18:22 42.0

Agency: REL Regional

EMSC OT=18:22:42.0 39.70N 41.68E 7Km M=4.5 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1824	29.06								
BHL	BZ			EP		1824	34.58								
SHBL	BZ			EP		1824	40.73								

September 18 2013 Hour: 19:50 16.5 Lat: 34.29N Lon: 36.52E

Depth: 8 Agency: REL Local

Magnitudes: 3.1MC REL

Rms: 0.0 secs

HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	53	269	EP		1950	25.17	-0.02	71						1.0
HWQ	SE	53	269	ES		1950	31.61	-0.03							1.0
BHL	BZ	91	242	EP		1950	31.25	0.04							1.0
BHL	BN	91	242	ES		1950	42.15	0.04							1.0
RCY	SZ	108	216	EP		1950	33.75	-0.07							1.0
RCY	SN	108	216	ES		1950	46.60	-0.06							1.0
DQRL	SZ	109	234	EP		1950	33.95	0.04							1.0
SHBL	BZ	127	215	EP		1950	36.56	0.03							1.0
SHBL	BN	127	215	ES		1950	51.39	0.03							1.0

September 18 2013 Hour: 21:10 4.0

Agency: REL Regional

EMSC OT=21:10:04.0 37.36N 36.17E 7Km M=3.8 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		2110	55.92								
BHL	BZ			EP		2111	1.51								
DQRL	SZ			EP		2111	4.89								
SHBL	BZ			EP		2111	9.38								

September 19 2013 Hour: 9:50 28.1 Lat: 33.90N Lon: 35.82E

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	15	271	EP		950	30.54	-0.02	54						1.0
BHL	BN	15	271	ES		950	32.37	-0.03							1.0
DQRL	SZ	32	227	EP		950	33.29	0.08							1.0
DQRL	SN	32	227	ES		950	37.02	0.01							1.0
HWQ	SZ	43	16	EP		950	35.05	-0.00							1.0
RCY	SZ	45	178	EP		950	35.34	-0.00							1.0
RCY	SN	45	178	ES		950	40.68	-0.04							1.0

September 19 2013 Hour: 11:20 12.1 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	11	22	EP		1120	13.88	-0.05							1.0
QRWL	SN	11	22	ES		1120	15.29	-0.00							1.0
SHBL	BZ	15	139	EP		1120	14.57	-0.01							1.0
SHBL	BN	15	139	ES		1120	16.41	-0.01							1.0
RCY	SZ	19	75	EP		1120	15.24	0.04	31						1.0
DQRL	SZ	29	348	EP		1120	16.76	0.03							1.0

September 19 2013 Hour: 15:38 43.2 Lat: 33.79N Lon: 35.78E Depth: 9 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	316	EP		1538	46.47	-0.01	32						1.0
DQRL	SZ	22	244	EP		1538	47.17	0.00							1.0
DQRL	SN	22	244	ES		1538	50.09	0.00							1.0
RCY	SZ	33	172	EP		1538	48.85	-0.01							1.0
RCY	SN	33	172	ES		1538	53.05	0.01							1.0
HWQ	SZ	56	16	EP		1538	52.40	0.01							1.0

September 19 2013 Hour: 15:40 2.6 Lat: 33.79N Lon: 35.79E 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	18	316	EP		1540	5.56	-0.02	39						1.0
BHL	BE	18	316	ES		1540	7.80	0.01							1.0
DQRL	SZ	22	246	EP		1540	6.26	-0.00							1.0
RCY	SZ	33	172	EP		1540	7.96	0.02							1.0
RCY	SN	33	172	ES		1540	11.88	-0.01							1.0
HWQ	SZ	56	15	EP		1540	11.69	-0.00							1.0

September 19 2013 Hour: 21:37 2.0 Agency: REL Distant

EMSC OT=21:37:02.0 37.81N 101.59E 10Km M=5.0 NORTHERN QINGHAI

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		2146	18.34								
BHL	BZ			EP		2146	16.61								

September 20 2013 Hour: 11:34 0.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1134	37.28								
SHBL	BZ			EP		1134	36.61								

September 20 2013 Hour: 12:13 37.7 Lat: 33.87N Lon: 35.78E Depth: 13 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	286	EP		1213	40.71	-0.02	39						1.0
BHL	BN	12	286	ES		1213	42.94	-0.01							1.0
DQRL	SZ	27	226	EP		1213	42.65	0.02							1.0
DQRL	SN	27	226	ES		1213	46.26	0.01							1.0
RCY	SZ	42	173	EP		1213	44.87	-0.06							1.0
RCY	SN	42	173	ES		1213	50.29	0.03							1.0
HWQ	SZ	47	19	EP		1213	45.75	0.02							1.0

September 20 2013 Hour: 13: 6 9.4 Lat: 33.53N Lon: 35.72E Depth: 1 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	4	307	EP		13 6	10.13	-0.03							1.0
RCY	SZ	12	106	EP		13 6	11.41	0.06	54						1.0
RCY	SN	12	106	ES		13 6	12.76	-0.01							1.0
SHBL	BZ	20	173	EP		13 6	12.64	-0.03							1.0
SHBL	BN	20	173	ES		13 6	15.06	-0.00							1.0
DQRL	SZ	24	326	EP		13 6	13.38	0.05							1.0
DQRL	SN	24	326	ES		13 6	16.24	0.02							1.0
BHL	BZ	42	352	EP		13 6	16.27	0.01							1.0
HWQ	SZ	86	14	EP		13 6	23.24	-0.08							1.0

September 20 2013 Hour: 14:35 9.5 Lat: 33.81N Lon: 35.77E Depth: 15 Agency: REL Local
 Magnitudes: 2.5MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	316	EP		1435	13.07	0.01	29						1.0
BHL	BN	15	316	ES		1435	15.68	-0.01							1.0
DQRL	SZ	22	239	EP		1435	13.77	-0.03							1.0
DQRL	SN	22	239	ES		1435	17.00	0.02							1.0
RCY	SZ	35	170	EP		1435	15.66	-0.00							1.0
RCY	SE	35	170	ES		1435	20.22	0.00							1.0
HWQ	SZ	55	17	EP		1435	18.61	0.01							1.0

September 20 2013 Hour: 15:54 20.9 Lat: 33.79N Lon: 35.77E Depth: 12 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	319	EP		1554	24.28	-0.00	40						1.0
BHL	BN	16	319	ES		1554	26.80	0.00							1.0
DQRL	SZ	21	242	EP		1554	24.89	-0.01							1.0
DQRL	SN	21	242	ES		1554	27.87	0.00							1.0
RCY	SZ	34	169	EP		1554	26.77	0.01							1.0
RCY	SN	34	169	ES		1554	31.11	-0.00							1.0
HWQ	SZ	56	17	EP		1554	30.19	-0.00							1.0

September 21 2013 Hour: 14:0 26.6 Lat: 33.52N Lon: 35.70E Depth: 0 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	3	329	EP		14 0	27.14	-0.07	26						1.0
QRWL	SN	3	329	ES		14 0	27.62	-0.00							1.0
RCY	SZ	13	103	EP		14 0	28.73	-0.00							1.0
DQRL	SZ	24	329	EP		14 0	30.56	0.08							1.0
DQRL	SN	24	329	ES		14 0	33.30	-0.01							1.0
BHL	BZ	43	354	EP		14 0	33.57	0.04							0.2

September 23 2013 Hour: 21:58 3.0

Agency: REL Regional

EMSC OT=21:58:03.0 34.53N 32.84E 5Km M=3.4 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2158	42.44								
RCY	SZ			EP		2158	46.08								
HWQ	SZ			EP		2158	46.18								

September 24 2013 Hour: 11:29 49.0

Agency: REL Distant

EMSC OT=11:29:49.0 27.07N 65.56E 20Km M=7.7 PAKISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1135	25.32								
HWQ	BZ			EP		1135	24.95								
SHBL	BZ			EP		1135	25.52								
QRWL	SZ			EP		1135	26.47								
BHL	BZ			EP		1135	27.75								
DQRL	SZ			EP		1135	28.65								
BEYL	BZ			EP		1135	29.84								

September 24 2013 Hour: 12:25 47.7 Lat: 33.79N Lon: 35.77E Depth: 3 Agency: REL Local
 Magnitudes: 3.0MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	320	EP		1225	50.59	0.03	62						1.0
DQRL	SZ	21	245	EP		1225	51.14	0.01							1.0
DQRL	SN	21	245	ES		1225	53.63	-0.02							1.0
RCY	SZ	33	169	EP		1225	53.07	0.02							1.0
RCY	SN	33	169	ES		1225	56.97	-0.01							1.0
HWQ	SZ	57	16	EP		1225	56.92	-0.03							1.0

September 24 2013 Hour: 13:14.20

Agency: REL Distant

EMSC OT=13:01:42.0 27.49N 65.73E 25Km M=5.5 PAKISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		13 7	18.41								
RCY	SZ			EP		13 7	16.29								

September 24 2013 Hour: 14:32 25.4 Lat: 33.51N Lon: 35.69E

Depth: 0 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	4	349	EP		1432	26.05-0.05		25						1.0
QRWL	SE	4	349	ES		1432	26.59-0.01								1.0
RCY	SZ	14	97	EP		1432	27.65 0.02								1.0
DQRL	SZ	24	333	EP		1432	29.33-0.01								1.0
DQRL	SN	24	333	ES		1432	32.28 0.04								1.0

September 24 2013 Hour: 15:16 39.3 Lat: 34.10N Lon: 35.94E

Depth: 23 Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.0 secs

KESROUANE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	20	2	EP		1516	44.08-0.05		50						1.0
HWQ	SN	20	2	ES		1516	47.76 0.03								1.0
BHL	BZ	34	231	EP		1516	45.76 0.02								1.0
BHL	BE	34	231	ES		1516	50.51-0.02								1.0
DQRL	SZ	55	218	EP		1516	48.63 0.02								1.0
RCY	SZ	68	188	EP		1516	50.36-0.00								1.0

September 24 2013 Hour: 17:25 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1725	53.29								
DQRL	SZ			EP		1725	56.79								
BHL	BZ			EP		1725	48.74								

September 25 2013 Hour: 2:17 21.0

Agency: REL Regional

EMSC OT=02:17:21.0 35.20N 26.39E 74Km M=4.1 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		219	9.24								
DQRL	SZ			EP		219	9.60								
QRWL	SZ			EP		219	11.19								
RCY	SZ			EP		219	13.23								

September 25 2013 Hour: 4:13 60.0 Lat: 33.79N Lon: 35.79E

Depth: 4 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		414	3.05-0.00		50						1.0
DQRL	SZ	22	246	EP		414	3.75 0.04								1.0
DQRL	SN	22	246	ES		414	6.46-0.01								1.0
QRWL	SZ	28	201	EP		414	4.61-0.05								1.0
RCY	SZ	33	173	EP		414	5.36 0.03								1.0
RCY	SN	33	173	ES		414	9.28-0.00								1.0
HWQ	SZ	56	15	EP		414	9.10-0.01								1.0

September 25 2013 Hour: 6:56 6.0 Lat: 33.88N Lon: 35.84E

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	281	EP		656	8.79-0.05		49						1.0
BHL	BN	18	281	ES		656	10.93-0.01								1.0
DQRL	SZ	31	233	EP		656	11.15 0.09								1.0
RCY	SZ	42	181	EP		656	12.75-0.03								1.0
RCY	SN	42	181	ES		656	17.77-0.02								1.0
HWQ	SZ	46	12	EP		656	13.40 0.01								1.0

September 25 2013 Hour: 11: 8 56.3 Lat: 33.46N Lon: 35.51E Depth: 10 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
QRWL	SZ	18	58	EP		11 8	59.94	0.09	37						1.0
SHBL	BZ	25	120	EP		11 9	0.75-0.02								1.0
SHBL	BN	25	120	ES		11 9	4.05-0.01								1.0
DQRL	SZ	28	11	EP		11 9	1.11-0.09								1.0
DQRL	SN	28	11	ES		11 9	4.81 0.02								1.0
RCY	SZ	30	82	EP		11 9	1.64 0.06								1.0
RCY	SN	30	82	ES		11 9	5.40-0.05								1.0

September 25 2013 Hour: 13:58 15.0

Agency: REL Distant

EMSC OT=13:58:15.0 52.94N 171.30E 10Km M=5.5 ALEUTIAN ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1410	52.42								
QRWL	SZ			EP		1410	54.11								
SHBL	BZ			EP		1410	54.70								

September 25 2013 Hour: 14:11 55.3 Lat: 33.79N Lon: 35.79E 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	18	316	EP		1411	58.32-0.03		37						1.0
DQRL	SZ	22	246	EP		1411	59.05 0.01								1.0
DQRL	SN	22	246	ES		1412	1.79 0.01								1.0
RCY	SZ	33	173	EP		1412	0.64-0.04								1.0
RCY	SN	33	173	ES		1412	4.66 0.02								1.0
HWQ	SZ	56	15	EP		1412	4.46 0.03								1.0

September 25 2013 Hour: 15:13 13.7 Lat: 33.47N Lon: 35.68E Depth: 0 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
QRWL	SZ	9	0	EP		1513	15.01-0.05								1.0
RCY	SZ	15	79	EP		1513	15.99-0.05		44						1.0
RCY	SN	15	79	ES		1513	17.80 0.01								1.0
SHBL	BZ	15	157	EP		1513	16.06 0.00								1.0
SHBL	BN	15	157	ES		1513	17.82-0.00								1.0
DQRL	SZ	28	338	EP		1513	18.20-0.00								1.0
DQRL	SN	28	338	ES		1513	21.51-0.04								1.0
BHL	BZ	48	357	EP		1513	21.57 0.13								1.0

September 26 2013 Hour: 9:46 15.1 Lat: 34.10N Lon: 35.10E Depth: 11 Agency: REL Local
Magnitudes: 2.8MC 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	56	113	EP		946	24.26-0.04								1.0
DQRL	SZ	62	135	EP		946	25.32 0.04								1.0
HWQ	SZ	80	76	EP		946	28.17 0.07								1.0
HWQ	SN	80	76	ES		946	37.68-0.03								1.0
RCY	SZ	96	135	EP		946	30.30-0.08		41						1.0
RCY	SN	96	135	ES		946	41.72 0.04								1.0

September 26 2013 Hour: 11:22 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1123	26.74								
SHBL	BZ			EP		1123	26.13								

September 26 2013 Hour: 11:39 0.0

Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1140	19.65								
SHBL	BZ			EP		1140	19.13								

September 26 2013 Hour: 13:7 47.6 Lat: 33.46N Lon: 35.66E Depth: 2 Agency: REL Local
Magnitudes: 2.3MC 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	11	EP		13 7	49.18-0.01		22						1.0
QRWL	SN	9	11	ES		13 7	50.39-0.00								1.0
SHBL	BZ	15	150	EP		13 7	50.05-0.01								1.0
SHBL	BN	15	150	ES		13 7	51.91 0.01								1.0
RCY	SZ	16	77	EP		13 7	50.30 0.00								1.0
DQRL	SZ	28	342	EP		13 7	52.15 0.01								1.0

September 27 2013 Hour: 9:40 5.5 Lat: 33.90N Lon: 35.82E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	270	EP		940	8.03-0.05		35						1.0
BHL	BN	16	270	ES		940	9.98 0.02								1.0
DQRL	SZ	32	227	EP		940	10.76 0.04								1.0
DQRL	SE	32	227	ES		940	14.54-0.02								1.0
HWQ	SZ	43	15	EP		940	12.48-0.00								1.0
RCY	SZ	45	179	EP		940	12.83 0.02								1.0
RCY	SN	45	179	ES		940	18.18-0.02								1.0

September 27 2013 Hour: 10:2 45.0

Agency: REL Distant

EMSC OT=10:02:45.0 37.14N 45.06E 20Km M=4.6 NORTHWESTERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		10 4	38.08								
DQRL	SZ			EP		10 4	45.01								
RCY	SZ			EP		10 4	45.10								
SHBL	BZ			EP		10 4	46.24								

September 27 2013 Hour: 11:12 32.6 Lat: 33.46N 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	14	45	EP		1112	35.99 0.01								1.0
QRWL	SN	14	45	ES		1112	38.48-0.01								1.0
SHBL	BZ	20	127	EP		1112	36.68-0.01								1.0
SHBL	BN	20	127	ES		1112	39.74 0.01								1.0
RCY	SZ	25	80	EP		1112	37.32-0.00		29						1.0

September 27 2013 Hour: 12:44 0.9 Lat: 33.86N Lon: 35.75E Depth: 25 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	11	301	EP		1244	5.37 0.03		30						1.0
BHL	BE	11	301	ES		1244	8.57-0.02								1.0
DQRL	SZ	24	225	EP		1244	6.41-0.02								1.0
DQRL	SN	24	225	ES		1244	10.49 0.01								1.0
RCY	SZ	41	169	EP		1244	8.45-0.02								1.0
RCY	SN	41	169	ES		1244	14.04 0.01								1.0

September 27 2013 Hour: 14:41 10.9 Lat: 33.48N Lon: 35.62E Depth: 14 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
QRWL	SZ	10	35	EP		1441	13.84	0.09	26						1.0
QRWL	SN	10	35	ES		1441	15.82	-0.05							1.0
SHBL	BZ	18	141	EP		1441	14.62	-0.09							1.0
SHBL	BN	18	141	ES		1441	17.61	0.05							1.0
RCY	SZ	20	83	EP		1441	14.95	0.00							1.0

September 27 2013 Hour: 18: 8 40.0

Agency: REL Distant

EMSC OT=18:08:40.0 27.38N 65.59E 12Km M=4.9 PAKISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1814	19.16								
SHBL	BZ			EP		1814	18.16								

September 27 2013 Hour: 23:22 59.3 Lat: 33.79N Lon: 35.78E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	316	EP		2323	2.07	0.04	42						1.0
BHL	BN	17	316	ES		2323	4.11	0.04							1.0
DQRL	SZ	22	244	EP		2323	2.84	0.02							1.0
DQRL	SN	22	244	ES		2323	5.47	0.02							1.0
BEYL	BZ	28	288	EP		2323	3.54	-0.28							1.0
RCY	SZ	33	171	EP		2323	4.36	-0.30							1.0
RCY	SN	33	171	ES		2323	8.62	-0.02							1.0
HWQ	SZ	56	16	EP		2323	8.37	0.09							1.0

September 28 2013 Hour: 7:34 6.0

Agency: REL Distant

EMSC OT=07:34:06.0 27.24N 65.56E 10Km M=6.8 PAKISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		739	44.12								
RCY	SZ			EP		739	44.61								
SHBL	BZ			EP		739	45.71								
BHL	BZ			EP		739	47.05								

September 28 2013 Hour: 14:25 58.1 Lat: 33.79N Lon: 35.79E Depth: 7 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	316	EP		1426	1.25	-0.03	47						1.0
BHL	BN	18	316	ES		1426	3.69	0.02							1.0
DQRL	SZ	22	246	EP		1426	1.88	-0.02							1.0
DQRL	SN	22	246	ES		1426	4.77	0.03							1.0
QRWL	SZ	28	201	EP		1426	2.78	-0.04							1.0
BEYL	BZ	29	289	EP		1426	2.41	-0.49							0.2
RCY	SZ	33	172	EP		1426	3.52	0.03							1.0
RCY	SN	33	172	ES		1426	7.48	-0.02							1.0
HWQ	SZ	56	15	EP		1426	7.28	0.02							1.0

September 28 2013 Hour: 14:59 27.7 Lat: 33.54N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.2 secs

CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	287	EP		1459	28.06	-0.14							1.0
RCY	SZ	13	113	EP		1459	29.65	-0.11							1.0
RCY	SE	13	113	ES		1459	31.33	0.06							1.0
SHBL	BZ	22	172	EP		1459	31.23	0.03							1.0
SHBL	BN	22	172	ES		1459	33.80	0.03							1.0
DQRL	SZ	23	325	EP		1459	31.37	0.01							1.0
BHL	BZ	41	353	EP		1459	34.19	-0.10	36						1.0
HWQ	SZ	85	15	EP		1459	41.92	0.54							0.2

DQRL SN ES 1459 33.98

September 29 2013 Hour: 13:31 34.0

Agency: REL Distant

EMSC OT=13:31:34.0 48.19N 152.56E 146Km M=5.3 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1343	32.43								
SHBL	BZ			EP		1343	34.99								

September 29 2013 Hour: 14:43 14.2 Lat: 33.81N Lon: 35.76E Depth: 26

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	14	315	EP		1443	18.97	0.05	34						1.0
BHL	BE	14	315	ES		1443	22.44	0.01							1.0
DQRL	SZ	22	236	EP		1443	19.56	0.01							1.0
DQRL	SN	22	236	ES		1443	23.48	-0.04							1.0
RCY	SZ	36	169	EP		1443	21.21	0.01							1.0
HWQ	SZ	54	18	EP		1443	23.50	-0.04							1.0

September 30 2013 Hour: 5:55 55.0

Agency: REL Distant

EMSC OT=05:55:55.0 30.92S 178.26W 40Km M=6.4 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		615	38.51								
BHL	BZ			EP		615	37.78								

Epicentral Map of Lebanon

SEPTEMBER 2013

