

Republic of Lebanon  
National Council for Scientific Research

# Provisional Seismological Bulletin

from the

## NATIONAL SEISMIC NETWORK

April

2015

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<br>(km/sec) | depth to top of layer<br>(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    | Nov2000-Sep2012 |
| FKH     | 3414.69N | 3624.61E  | 1152       | FAKEHEH    | Opened Dec 2004 |
| RCY     | 3329.79N | 3550.14E  | 1370       | RACHAYA    | Opened Jun 2006 |
| BEYL    | 3352.30N | 3529.59E  | 49         | BEIRUT     | Opened Jul 2006 |
| NAQL    | 3307.02N | 3508.46E  | 83         | NAQOURA    | Jul2008-Jan2012 |
| 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 2 2015 Hour: 4: 8 26.4 Lat: 33.66N Lon: 35.52E Depth: 40 Agency: REL Local  
Magnitudes: 2.9MC REL Rms: 0.0 secs

CHOUF REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| DQRL | SZ | 7    | 38  | EP    |   | 4 8  | 32.67 | 0.01  | 48   |      |      |     |      |      | 1.0 |
| DQRL | SN | 7    | 38  | ES    |   | 4 8  | 37.30 | 0.02  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 19   | 129 | EP    |   | 4 8  | 33.16 | -0.01 |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 30   | 24  | EP    |   | 4 8  | 33.96 | -0.06 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 34   | 121 | EP    |   | 4 8  | 34.43 | 0.02  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 34   | 121 | ES    |   | 4 8  | 40.31 | -0.01 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 79   | 29  | EP    |   | 4 8  | 39.52 | 0.03  |      |      |      |     |      |      | 1.0 |

April 2 2015 Hour: 4:10 11.0 Agency: REL Distant

EMSC OT=04:10:11.0 17.87S 178.61W 560Km M=5.9 FIJI REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 428  | 45.59 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 428  | 46.87 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 428  | 48.06 |      |      |      |      |     |      |      |    |

April 2 2015 Hour: 14:37 46.3 Lat: 33.79N Lon: 35.78E Depth: 5 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.0 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 17   | 318 | EP    |   | 1437 | 49.20 | -0.02 |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 21   | 243 | EP    |   | 1437 | 49.93 | 0.02  | 43   |      |      |     |      |      | 1.0 |
| DQRL | SN | 21   | 243 | ES    |   | 1437 | 52.57 | 0.00  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 33   | 170 | EP    |   | 1437 | 51.78 | -0.03 |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 33   | 170 | ES    |   | 1437 | 55.89 | 0.02  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 56   | 16  | EP    |   | 1437 | 55.47 | 0.02  |      |      |      |     |      |      | 1.0 |

April 2 2015 Hour: 15:13 26.4 Agency: REL Regional

EMSC OT=15:13:26.4 35.46N 29.59E 40Km M=3.5 EASTERN MEDITERRANEAN SEA

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| BHL  | BZ |      |     | EP    |   | 1514 | 40.59 |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 1514 | 41.13 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 1514 | 43.83 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 1514 | 43.83 |      |      |      |      |     |      |      |    |
| SHBL | BZ |      |     | EP    |   | 1514 | 45.74 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 1514 | 45.72 |      |      |      |      |     |      |      |    |

April 2 2015 Hour: 23:38 27.3 Lat: 33.78N Lon: 35.77E Depth: 0 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 18   | 322 | EP    |   | 2338 | 30.06 | -0.09 |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 21   | 247 | EP    |   | 2338 | 30.58 | 0.01  | 64   |      |      |     |      |      | 1.0 |
| DQRL | SN | 21   | 247 | ES    |   | 2338 | 33.06 | 0.04  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 27   | 199 | EP    |   | 2338 | 31.61 | 0.02  |      |      |      |     |      |      | 1.0 |
| QRWL | SN | 27   | 199 | ES    |   | 2338 | 34.81 | 0.01  |      |      |      |     |      |      | 1.0 |
| BEYL | SZ | 28   | 292 | EP    |   | 2338 | 31.76 | -0.02 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 32   | 170 | EP    |   | 2338 | 32.29 | -0.08 |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 32   | 170 | ES    |   | 2338 | 36.17 | 0.02  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 58   | 16  | EP    |   | 2338 | 36.68 | 0.10  |      |      |      |     |      |      | 1.0 |

April 3 2015 Hour: 10:35 28.4 Lat: 33.46N Lon: 35.66E Depth: 3 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.0 secs

WEST BEKAA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| QRWL | SZ | 10   | 14  | EP    |   | 1035 | 30.06 | -0.02 |      |      |      |     |      |      | 1.0 |
| SHBL | BZ | 15   | 148 | EP    |   | 1035 | 30.90 | -0.06 |      |      |      |     |      |      | 1.0 |
| SHBL | BE | 15   | 148 | ES    |   | 1035 | 32.88 | 0.04  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 28   | 343 | EP    |   | 1035 | 32.99 | 0.02  | 34   |      |      |     |      |      | 1.0 |
| DQRL | SN | 28   | 343 | ES    |   | 1035 | 36.35 | -0.00 |      |      |      |     |      |      | 1.0 |

BHL BZ 49 360 EP 1035 36.34 0.02 1.0

April 3 2015 Hour: 15:39 48.7 Lat: 33.79N Lon: 35.76E Depth: 12 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 16   | 324 | EP    |   | 1539 | 52.03 | -0.09 | 46   |      |      |     |      |      | 1.0 |
| BHL  | BE | 16   | 324 | ES    |   | 1539 | 54.65 | 0.01  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 20   | 242 | EP    |   | 1539 | 52.56 | -0.01 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 20   | 242 | ES    |   | 1539 | 55.49 | 0.06  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 28   | 195 | EP    |   | 1539 | 53.59 | -0.09 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 33   | 167 | EP    |   | 1539 | 54.61 | 0.07  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 33   | 167 | ES    |   | 1539 | 58.83 | -0.01 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 18  | EP    |   | 1539 | 58.24 | 0.05  |      |      |      |     |      |      | 1.0 |

April 3 2015 Hour: 17:44 2.8 Agency: REL Distant

EMSC OT=17:44:02.8 17.38S 177.07W 374Km M=5.3 FIJI REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 18 3 | 0.03  |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 18 2 | 59.87 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 18 3 | 1.12  |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 18 3 | 2.06  |      |      |      |      |     |      |      |    |

April 5 2015 Hour: 12:30 35.9 Lat: 33.79N Lon: 35.77E Depth: 13 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 16   | 320 | EP    |   | 1230 | 39.35 | 0.01  | 46   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 21   | 243 | EP    |   | 1230 | 39.86 | -0.00 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 21   | 243 | ES    |   | 1230 | 42.82 | -0.01 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 28   | 196 | EP    |   | 1230 | 40.78 | -0.12 |      |      |      |     |      |      | 1.0 |
| QRWL | SN | 28   | 196 | ES    |   | 1230 | 44.76 | 0.12  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 33   | 169 | EP    |   | 1230 | 41.66 | -0.03 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 17  | EP    |   | 1230 | 45.28 | 0.04  |      |      |      |     |      |      | 1.0 |

April 6 2015 Hour: 14:46 17.5 Lat: 33.45N Lon: 35.66E Depth: 2 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.1 secs

WEST BEKAA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| QRWL | SZ | 11   | 13  | EP    |   | 1446 | 19.20 | -0.13 |      |      |      |     |      |      | 1.0 |
| SHBL | BZ | 14   | 144 | EP    |   | 1446 | 19.80 | 0.04  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 18   | 72  | EP    |   | 1446 | 20.30 | -0.04 | 33   |      |      |     |      |      | 1.0 |
| RCY  | SN | 18   | 72  | ES    |   | 1446 | 22.53 | 0.05  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 30   | 344 | EP    |   | 1446 | 22.25 | 0.00  |      |      |      |     |      |      | 1.0 |
| DQRL | SE | 30   | 344 | ES    |   | 1446 | 25.88 | 0.08  |      |      |      |     |      |      | 1.0 |

April 6 2015 Hour: 16:42 35.7 Agency: REL Regional

EMSC OT=16:42:35.7 35.31N 27.57E 51Km M=4.5 DODECANESE ISLANDS, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| QRWL | SZ |      |     | EP    |   | 1644 | 12.19 |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 1644 | 12.92 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 1644 | 15.34 |      |      |      |      |     |      |      |    |

April 7 2015 Hour: 0:46 18.2 Agency: REL Distant

EMSC OT=00:46:18.2 15.30S 173.31W 10Km M=6.3 TONGA

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| BHL  | BZ |      |     | EP    |   | 1 6  | 0.87  |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 1 6  | 2.46  |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 1 6  | 3.53  |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 1 6  | 2.73  |      |      |      |      |     |      |      |    |

**April 7 2015 Hour: 15:19 11.3** Agency: REL Regional  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 1519 19.14  
 DQRL SZ EP 1519 21.39  
 BHL BZ EP 1519 22.94  
 HWQ SZ EP 1519 37.12

**April 8 2015 Hour: 13:33 36.6** Agency: REL Regional  
**EMSC OT=13:33:36.6 35.35N 27.85E 55Km M=4.4 DODECANESE ISLANDS, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 DQRL SZ EP 1335 8.62  
 HWQ SZ EP 1335 10.90  
 RCY SZ EP 1335 12.44

**April 10 2015 Hour: 10:28 37.0 Lat: 33.40N Lon: 35.59E Depth: 0 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.1 secs**

**JEZZINE REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| SHBL | BZ | 15   | 110 | EP    |   | 1028 | 39.43 | -0.05 |      |      |      |     |      |      | 1.0 |
| SHBL | BE | 15   | 110 | ES    |   | 1028 | 41.42 | 0.10  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 19   | 27  | EP    |   | 1028 | 40.02 | -0.05 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 26   | 64  | EP    |   | 1028 | 40.95 | -0.18 | 50   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 35   | 357 | EP    |   | 1028 | 42.53 | -0.03 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 35   | 357 | ES    |   | 1028 | 46.67 | -0.01 |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 57   | 6   | EP    |   | 1028 | 46.17 | 0.01  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 103  | 19  | EP    |   | 1028 | 53.89 | 0.22  |      |      |      |     |      |      | 1.0 |

**April 10 2015 Hour: 14:12 7.4 Lat: 33.87N Lon: 35.81E Depth: 10 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.0 secs**

**BAABDA REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 15   | 286 | EP    |   | 1412 | 10.43 | -0.03 | 50   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 28   | 231 | EP    |   | 1412 | 12.38 | 0.02  |      |      |      |     |      |      | 1.0 |
| DQRL | SE | 28   | 231 | ES    |   | 1412 | 16.05 | 0.03  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 37   | 198 | EP    |   | 1412 | 13.65 | -0.06 |      |      |      |     |      |      | 1.0 |
| QRWL | SE | 37   | 198 | ES    |   | 1412 | 18.36 | -0.01 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 41   | 176 | EP    |   | 1412 | 14.37 | 0.03  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 47   | 16  | EP    |   | 1412 | 15.32 | 0.02  |      |      |      |     |      |      | 1.0 |

**April 10 2015 Hour: 16:37 54.6 Lat: 33.68N Lon: 35.70E Depth: 11 Agency: REL Local**  
**Magnitudes: 2.3MC REL Rms: 0.0 secs**

**CHOUF REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| DQRL | SZ | 12   | 283 | EP    |   | 1637 | 57.49 | 0.01  | 23   |      |      |     |      |      | 1.0 |
| DQRL | SN | 12   | 283 | ES    |   | 1637 | 59.61 | 0.00  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 15   | 187 | EP    |   | 1637 | 57.72 | -0.02 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 24   | 148 | EP    |   | 1637 | 59.03 | 0.02  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 24   | 148 | ES    |   | 1638 | 2.25  | -0.00 |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 25   | 350 | EP    |   | 1637 | 59.17 | -0.01 |      |      |      |     |      |      | 1.0 |

**April 11 2015 Hour: 8:19 22.6 Lat: 33.70N Lon: 35.84E Depth: 14 Agency: REL Local**  
**Magnitudes: 2.3MC REL Rms: 0.0 secs**

**WEST BEKAA REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| QRWL | SZ | 22   | 222 | EP    |   | 819  | 26.83 | -0.06 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 22   | 181 | EP    |   | 819  | 26.99 | 0.03  |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 22   | 181 | ES    |   | 819  | 30.19 | 0.00  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 25   | 273 | EP    |   | 819  | 27.36 | 0.06  | 22   |      |      |     |      |      | 1.0 |
| DQRL | SE | 25   | 273 | ES    |   | 819  | 30.78 | -0.00 |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 29   | 324 | EP    |   | 819  | 27.82 | -0.02 |      |      |      |     |      |      | 1.0 |

April 12 2015 Hour: 5:42 0.5 Lat: 33.59N Lon: 35.85E Depth: 11 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.0 secs

**RACHAYA REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| RCY  | SZ | 10   | 189 | EP    |   | 542  | 3.09  | 0.01  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 10   | 189 | ES    |   | 542  | 4.99  | -0.01 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 17   | 254 | EP    |   | 542  | 3.77  | 0.02  | 30   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 29   | 296 | EP    |   | 542  | 5.53  | -0.04 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 29   | 296 | ES    |   | 542  | 9.35  | 0.01  |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 40   | 332 | EP    |   | 542  | 7.15  | 0.01  |      |      |      |     |      |      | 1.0 |

April 14 2015 Hour: 8:0 7.3 Agency: REL Regional  
EMSC OT=08:00:07.3 34.54N 26.58E 60Km M=4.5 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 8 1  | 55.84 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 8 1  | 54.18 |      |      |      |      |     |      |      |    |

April 14 2015 Hour: 14:51 18.9 Lat: 33.68N Lon: 35.62E Depth: 15 Agency: REL Local  
Magnitudes: 2.9MC REL Rms: 0.1 secs

**CHOUF REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| DQRL | SZ | 6    | 301 | EP    |   | 1451 | 21.62 | -0.02 | 52   |      |      |     |      |      | 1.0 |
| DQRL | SN | 6    | 301 | ES    |   | 1451 | 23.65 | -0.00 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 16   | 159 | EP    |   | 1451 | 22.47 | -0.04 |      |      |      |     |      |      | 1.0 |
| QRWL | SN | 16   | 159 | ES    |   | 1451 | 25.19 | 0.03  |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 25   | 7   | EP    |   | 1451 | 23.76 | 0.06  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 73   | 24  | EP    |   | 1451 | 30.34 | -0.31 |      |      |      |     |      |      | 0.2 |

April 15 2015 Hour: 8:25 14.5 Lat: 34.78N Lon: 32.49E Depth: 8 Agency: REL Regional  
Magnitudes: 5.2MC REL Rms: 0.1 secs

**CYPRUS REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BEYL | SZ | 295  | 109 | EP    |   | 825  | 56.43 | 0.11  |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 307  | 107 | EP    |   | 825  | 58.00 | -0.01 | 873  |      |      |     |      |      | 1.0 |
| BHL  | BN | 307  | 107 | ES    |   | 826  | 30.23 | 0.05  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 308  | 112 | EP    |   | 825  | 58.07 | -0.03 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 308  | 112 | ES    |   | 826  | 30.31 | -0.04 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 323  | 99  | EP    |   | 825  | 59.74 | -0.19 |      |      |      |     |      |      | 1.0 |
| HWQ  | SN | 323  | 99  | ES    |   | 826  | 33.52 | -0.00 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 325  | 114 | EP    |   | 826  | 0.40  | 0.23  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 340  | 114 | EP    |   | 826  | 2.14  | 0.01  |      |      |      |     |      |      | 1.0 |

April 15 2015 Hour: 15:27 38.9 Lat: 33.51N Lon: 35.40E Depth: 16 Agency: REL Local  
Magnitudes: 2.8MC 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 | 27   | 38  | EP    |   | 1527 | 43.99 | 0.02  |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 27   | 38  | ES    |   | 1527 | 47.65 | -0.06 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 27   | 82  | EP    |   | 1527 | 44.11 | 0.11  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 41   | 93  | EP    |   | 1527 | 45.83 | -0.18 | 43   |      |      |     |      |      | 1.0 |
| RCY  | SN | 41   | 93  | ES    |   | 1527 | 51.31 | 0.06  |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 49   | 29  | EP    |   | 1527 | 47.25 | 0.05  |      |      |      |     |      |      | 1.0 |

April 15 2015 Hour: 16:58 47.0 Lat: 34.17N Lon: 36.04E Depth: 53 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

**BAALBECK REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| HWQ  | SZ | 15   | 324 | EP    |   | 1658 | 55.01 | -0.11 | 42   |      |      |     |      |      | 1.0 |
| HWQ  | SN | 15   | 324 | ES    |   | 1659 | 1.18  | 0.06  |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 46   | 231 | EP    |   | 1658 | 57.18 | 0.01  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 67   | 221 | EP    |   | 1658 | 59.24 | -0.01 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 77   | 195 | EP    |   | 1659 | 0.44  | 0.11  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 77   | 195 | ES    |   | 1659 | 10.11 | -0.06 |      |      |      |     |      |      | 1.0 |



April 16 2015 Hour: 18: 7 44.3 Agency: REL Regional

EMSC OT=18:07:44.3 35.03N 26.81E 30Km M=6.1 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| DQRL | SZ |      |     | EP    |   | 18 9 | 28.22 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 18 9 | 29.52 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 18 9 | 31.88 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 18 9 | 34.47 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 18 9 | 31.50 |      |      |      |      |     |      |      |    |

April 16 2015 Hour: 18:50 21.3 Agency: REL Regional

EMSC OT=18:50:21.3 34.91N 26.77E 25Km M=4.4 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| DQRL | SZ |      |     | EP    |   | 1852 | 6.38  |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 1852 | 8.19  |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 1852 | 9.64  |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 1852 | 10.13 |      |      |      |      |     |      |      |    |

April 16 2015 Hour: 19: 2 15.1 Agency: REL Regional

EMSC OT=19:02:15.1 34.97N 26.84E 30Km M=5.0 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| QRWL | SZ |      |     | EP    |   | 19 4 | 0.46  |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 19 3 | 59.19 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 19 4 | 2.36  |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 19 4 | 5.10  |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 19 4 | 2.22  |      |      |      |      |     |      |      |    |

April 16 2015 Hour: 20:15 49.2 Agency: REL Regional

EMSC OT=20:15:49.2 34.94N 26.82E 20Km M=4.5 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| RCY  | SZ |      |     | EP    |   | 2017 | 37.36 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 2017 | 35.53 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 2017 | 36.28 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 2017 | 39.41 |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 2017 | 33.70 |      |      |      |      |     |      |      |    |

April 16 2015 Hour: 21:52 22.1 Agency: REL Regional

EMSC OT=21:52:22.1 35.00N 26.97E 10Km M=4.3 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| DQRL | SZ |      |     | EP    |   | 2154 | 7.98  |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 2154 | 8.25  |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 2154 | 9.50  |      |      |      |      |     |      |      |    |

April 17 2015 Hour: 2: 5 43.7 Agency: REL Regional

EMSC OT=02:05:43.7 34.99N 26.75E 46Km M=5.3 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| DQRL | SZ |      |     | EP    |   | 2 7  | 26.65 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 2 7  | 28.87 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 2 7  | 32.23 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 2 7  | 30.64 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 2 7  | 30.90 |      |      |      |      |     |      |      |    |

April 17 2015 Hour: 8:51 51.1 Lat: 33.75N Lon: 35.63E Depth: 31 Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.1 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| DQRL | SZ | 8    | 228 | EP    |   | 851  | 56.25 | 0.00  | 48   |      |      |     |      |      | 1.0 |
| DQRL | SN | 8    | 228 | ES    |   | 852  | 0.05  | 0.02  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 23   | 168 | EP    |   | 851  | 57.14 | -0.09 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 34   | 146 | EP    |   | 851  | 58.50 | 0.11  |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 34   | 146 | ES    |   | 852  | 3.73  | -0.03 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 65   | 26  | EP    |   | 852  | 2.30  | -0.01 |      |      |      |     |      |      | 1.0 |

April 17 2015 Hour: 16:39 43.0 Agency: REL Regional  
**EMSC OT=16:39:43.0 34.86N 26.72E 30Km M=4.5 CRETE, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 DQRL SZ EP 1641 28.46  
 RCY SZ EP 1641 31.40  
 HWQ SZ EP 1641 31.67

April 17 2015 Hour: 23:25 18.5 Lat: 33.73N Lon: 35.67E Depth: 33 Agency: REL Local  
 Magnitudes: 2.9MC REL Rms: 0.1 secs  
**CHOUF REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| DQRL | SZ | 10   | 253 | EP    |   | 2325 | 23.96 | -0.03 | 48   |      |      |     |      |      | 1.0 |
| DQRL | SN | 10   | 253 | ES    |   | 2325 | 28.04 | -0.00 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 20   | 177 | EP    |   | 2325 | 24.71 | 0.09  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 30   | 150 | EP    |   | 2325 | 25.49 | -0.08 |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 30   | 150 | ES    |   | 2325 | 30.80 | 0.02  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 66   | 23  | EP    |   | 2325 | 30.09 | 0.22  |      |      |      |     |      |      | 0.2 |

April 18 2015 Hour: 10:10 50.2 Lat: 33.47N Lon: 35.68E Depth: 4 Agency: REL Local  
 Magnitudes: 2.5MC REL Rms: 0.0 secs  
**WEST BEKAA REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| QRWL | SZ | 8    | 2   | EP    |   | 1010 | 51.72 | -0.08 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 15   | 79  | EP    |   | 1010 | 52.79 | 0.03  | 32   |      |      |     |      |      | 1.0 |
| RCY  | SE | 15   | 79  | ES    |   | 1010 | 54.64 | -0.00 |      |      |      |     |      |      | 1.0 |
| SHBL | BZ | 15   | 156 | EP    |   | 1010 | 52.76 | -0.04 |      |      |      |     |      |      | 1.0 |
| SHBL | BN | 15   | 156 | ES    |   | 1010 | 54.75 | 0.04  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 28   | 339 | EP    |   | 1010 | 54.76 | -0.02 |      |      |      |     |      |      | 1.0 |
| DQRL | SE | 28   | 339 | ES    |   | 1010 | 58.23 | 0.07  |      |      |      |     |      |      | 1.0 |

April 18 2015 Hour: 11:38 18.4 Lat: 33.31N Lon: 35.56E Depth: 21 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.0 secs  
**MARJAAYOUN REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| SHBL | BZ | 18   | 74  | EP    |   | 1138 | 22.88 | -0.01 |      |      |      |     |      |      | 1.0 |
| SHBL | BE | 18   | 74  | ES    |   | 1138 | 26.25 | 0.02  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 29   | 23  | EP    |   | 1138 | 24.04 | -0.07 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 33   | 50  | EP    |   | 1138 | 24.68 | 0.01  | 39   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 45   | 1   | EP    |   | 1138 | 26.19 | 0.05  |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 45   | 1   | ES    |   | 1138 | 31.88 | -0.00 |      |      |      |     |      |      | 1.0 |

April 18 2015 Hour: 16:46 49.8 Agency: REL Regional  
**EMSC OT=16:46:49.8 36.48N 23.19E 14Km M=4.7 SOUTHERN GREECE**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| DQRL | SZ |      |     | EP    |   | 1649 | 17.98 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 1649 | 19.19 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 1649 | 20.49 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 1649 | 21.25 |      |      |      |      |     |      |      |    |

April 19 2015 Hour: 11:17 8.5 Lat: 33.70N Lon: 35.65E Depth: 29 Agency: REL Local  
 Magnitudes: 3.0MC REL Rms: 0.1 secs  
**CHOUF REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| DQRL | SZ | 7    | 271 | EP    |   | 1117 | 13.25 | -0.04 | 58   |      |      |     |      |      | 1.0 |
| DQRL | SE | 7    | 271 | ES    |   | 1117 | 16.85 | -0.01 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 18   | 169 | EP    |   | 1117 | 13.99 | 0.11  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 29   | 143 | EP    |   | 1117 | 14.88 | -0.10 |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 29   | 143 | ES    |   | 1117 | 19.83 | 0.02  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 69   | 23  | EP    |   | 1117 | 20.11 | 0.02  |      |      |      |     |      |      | 1.0 |

April 19 2015 Hour: 22: 9 43.0 Agency: REL Regional  
**EMSC OT=22:09:43.0 33.44N 23.72E 40Km M=4.2 CENTRAL MEDITERRANEAN SEA**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 DQRL SZ EP 2212 0.16  
 QRWL SZ EP 2212 1.16  
 RCY SZ EP 2212 2.84

April 19 2015 Hour: 23:36 48.4 Agency: REL Regional  
**EMSC OT=23:36:48.4 35.02N 26.88E 10Km M=4.4 CRETE, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 2338 37.04  
 HWQ SZ EP 2338 36.32

April 20 2015 Hour: 1:42 55.5 Agency: REL Distant  
**EMSC OT=01:42:55.5 24.21N 122.52E 7Km M=6.4 TAIWAN REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ EP 154 32.13  
 RCY SZ EP 154 33.21  
 QRWL SZ EP 154 33.63  
 DQRL SZ EP 154 33.96

April 20 2015 Hour: 8:16 46.0 Lat: 33.87N Lon: 35.83E Depth: 5 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.0 secs  
**ZAHLE REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ 17 284 EP 816 48.91-0.04 40 1.0  
 BHL BN 17 284 ES 816 51.14 0.02 1.0  
 DQRL SZ 30 234 EP 816 51.02 0.01 1.0  
 RCY SZ 41 180 EP 816 52.76 0.01 1.0  
 RCY SE 41 180 ES 816 57.73-0.01 1.0  
 HWQ SZ 47 13 EP 816 53.62 0.01 1.0

April 20 2015 Hour: 10: 6 14.9 Lat: 33.78N Lon: 35.78E Depth: 5 Agency: REL Local  
 Magnitudes: 2.5MC REL Rms: 0.0 secs  
**ALEY REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ 18 320 EP 10 6 17.86-0.07 29 1.0  
 BHL BE 18 320 ES 10 6 20.22 0.02 1.0  
 DQRL SZ 21 247 EP 10 6 18.40-0.03 1.0  
 DQRL SN 21 247 ES 10 6 21.09 0.03 1.0  
 RCY SZ 32 171 EP 10 6 20.17 0.03 1.0  
 RCY SN 32 171 ES 10 6 24.01-0.02 1.0  
 HWQ SZ 57 16 EP 10 6 24.19 0.03 1.0

April 20 2015 Hour: 11:59 59.6 Agency: REL Distant  
**EMSC OT=11:59:59.6 24.06N 122.64E 20Km M=5.9 TAIWAN REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 1211 36.81  
 RCY SZ EP 1211 37.50  
 DQRL SZ EP 1211 37.84

April 20 2015 Hour: 15:27 57.7 Lat: 33.97N Lon: 36.16E Depth: 0 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.0 secs  
**BAALBECK REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ 40 330 EP 1528 4.14 0.03 1.0  
 HWQ SN 40 330 ES 1528 8.85-0.03 1.0  
 BHL BZ 48 262 EP 1528 5.33-0.01 40 1.0  
 BHL BN 48 262 ES 1528 11.03 0.00 1.0  
 RCY SZ 60 210 EP 1528 7.36-0.04 1.0  
 DQRL SZ 62 242 EP 1528 7.72 0.04 1.0

April 21 2015 Hour: 0:58 0.0 Agency: REL Regional  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 RCY SZ EP 059 10.20  
 QRWL SZ EP 059 11.76

April 21 2015 Hour: 15:1 20.8 Lat: 33.79N Lon: 35.78E Depth: 5 Agency: REL Local  
 Magnitudes: 2.3MC REL Rms: 0.0 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA  | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| BHL  | BZ | 17   | 318 | EP    |   | 15   | 1     | 23.66 | -0.02 | 24   |      |     |      |      | 1.0 |
| BHL  | BE | 17   | 318 | ES    |   | 15   | 1     | 25.81 | 0.01  |      |      |     |      |      | 1.0 |
| DQRL | SZ | 21   | 243 | EP    |   | 15   | 1     | 24.36 | 0.00  |      |      |     |      |      | 1.0 |
| RCY  | SZ | 33   | 170 | EP    |   | 15   | 1     | 26.26 | 0.00  |      |      |     |      |      | 1.0 |
| RCY  | SN | 33   | 170 | ES    |   | 15   | 1     | 30.29 | -0.00 |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 56   | 16  | EP    |   | 15   | 1     | 29.99 | 0.06  |      |      |     |      |      | 0.2 |

April 24 2015 Hour: 12:3 0.0 Agency: REL Local

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 12   | 3     | 59.20 |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 12   | 3     | 59.67 |      |      |      |     |      |      |    |

April 24 2015 Hour: 15:25 0.9 Lat: 33.80N Lon: 35.74E Depth: 18 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.0 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA  | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| BHL  | BZ | 15   | 326 | EP    |   | 1525 |       | 4.69  | -0.07 | 39   |      |     |      |      | 1.0 |
| BHL  | BE | 15   | 326 | ES    |   | 1525 |       | 7.65  | 0.02  |      |      |     |      |      | 1.0 |
| DQRL | SZ | 19   | 238 | EP    |   | 1525 |       | 5.23  | 0.03  |      |      |     |      |      | 1.0 |
| RCY  | SZ | 34   | 165 | EP    |   | 1525 |       | 7.13  | -0.02 |      |      |     |      |      | 1.0 |
| RCY  | SN | 34   | 165 | ES    |   | 1525 |       | 11.80 | 0.01  |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 19  | EP    |   | 1525 |       | 10.33 | 0.03  |      |      |     |      |      | 1.0 |

April 24 2015 Hour: 15:36 0.0 Lat: 33.79N Lon: 35.77E Depth: 12 Agency: REL Local  
 Magnitudes: 2.5MC REL Rms: 0.0 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA  | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|-------|------|------|-----|------|------|-----|
| BHL  | BZ | 16   | 320 | EP    |   | 1536 |       | 3.38  | -0.09 | 29   |      |     |      |      | 1.0 |
| BHL  | BE | 16   | 320 | ES    |   | 1536 |       | 6.06  | 0.05  |      |      |     |      |      | 1.0 |
| DQRL | SZ | 21   | 242 | EP    |   | 1536 |       | 4.05  | 0.01  |      |      |     |      |      | 1.0 |
| RCY  | SZ | 33   | 169 | EP    |   | 1536 |       | 5.88  | -0.00 |      |      |     |      |      | 1.0 |
| RCY  | SE | 33   | 169 | ES    |   | 1536 |       | 10.23 | 0.01  |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 56   | 17  | EP    |   | 1536 |       | 9.40  | 0.02  |      |      |     |      |      | 1.0 |

April 25 2015 Hour: 6:11 26.9 Agency: REL Distant

EMSC OT=06:11:26.9 28.24N 84.74E 15Km M=7.8 NEPAL

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 619  |       | 18.02 |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 619  |       | 19.83 |      |      |      |     |      |      |    |
| SHBL | BZ |      |     | EP    |   | 619  |       | 20.50 |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 619  |       | 20.24 |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 619  |       | 21.80 |      |      |      |     |      |      |    |

April 25 2015 Hour: 6:45 22.2 Agency: REL Distant

EMSC OT=06:45:22.2 28.29N 84.90E 15Km M=6.7 NEPAL

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 653  |       | 13.83 |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 653  |       | 15.31 |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 653  |       | 16.86 |      |      |      |     |      |      |    |

April 25 2015 Hour: 10:20 11.6 Lat: 33.47N Lon: 35.68E Depth: 0 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.1 secs

WEST BEKAA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| QRWL | SZ | 9    | 359 | EP    |   | 1020 | 12.84 | -0.10 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 14   | 79  | EP    |   | 1020 | 13.85 | -0.05 | 31   |      |      |     |      |      | 1.0 |
| RCY  | SN | 14   | 79  | ES    |   | 1020 | 15.67 | 0.05  |      |      |      |     |      |      | 1.0 |
| SHBL | BZ | 15   | 158 | EP    |   | 1020 | 13.91 | -0.04 |      |      |      |     |      |      | 1.0 |
| SHBL | BN | 15   | 158 | ES    |   | 1020 | 15.75 | 0.04  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 28   | 338 | EP    |   | 1020 | 16.18 | 0.08  |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 28   | 338 | ES    |   | 1020 | 19.47 | 0.02  |      |      |      |     |      |      | 1.0 |

April 25 2015 Hour: 11: 7 56.2 Lat: 33.79N Lon: 35.78E Depth: 10 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

ALEY REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 17   | 317 | EP    |   | 11 7 | 59.46 | -0.02 | 40   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 22   | 243 | EP    |   | 11 8 | 0.15  | 0.00  |      |      |      |     |      |      | 1.0 |
| DQRL | SE | 22   | 243 | ES    |   | 11 8 | 3.10  | 0.01  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 34   | 171 | EP    |   | 11 8 | 1.91  | -0.02 |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 34   | 171 | ES    |   | 11 8 | 6.19  | 0.01  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 56   | 16  | EP    |   | 11 8 | 5.42  | 0.02  |      |      |      |     |      |      | 1.0 |

April 25 2015 Hour: 14:26 10.2 Lat: 33.80N Lon: 35.74E Depth: 20 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.1 secs

BAABDA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 14   | 326 | EP    |   | 1426 | 14.16 | -0.03 | 35   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 19   | 237 | EP    |   | 1426 | 14.67 | 0.05  |      |      |      |     |      |      | 1.0 |
| DQRL | SE | 19   | 237 | ES    |   | 1426 | 17.90 | 0.01  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 28   | 191 | EP    |   | 1426 | 15.63 | -0.09 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 35   | 165 | EP    |   | 1426 | 16.63 | 0.04  |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 35   | 165 | ES    |   | 1426 | 21.31 | 0.00  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 20  | EP    |   | 1426 | 19.85 | 0.21  |      |      |      |     |      |      | 0.2 |

April 25 2015 Hour: 15:25 24.2 Lat: 33.98N Lon: 36.31E Depth: 0 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

BAALBECK REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| HWQ  | SZ | 47   | 315 | EP    |   | 1525 | 31.76 | -0.05 | 42   |      |      |     |      |      | 1.0 |
| HWQ  | SE | 47   | 315 | ES    |   | 1525 | 37.44 | 0.02  |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 61   | 262 | EP    |   | 1525 | 34.18 | 0.09  |      |      |      |     |      |      | 1.0 |
| BHL  | BE | 61   | 262 | ES    |   | 1525 | 41.33 | -0.06 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 69   | 219 | EP    |   | 1525 | 35.34 | -0.08 |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 69   | 219 | ES    |   | 1525 | 43.71 | 0.01  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 75   | 246 | EP    |   | 1525 | 36.39 | 0.08  |      |      |      |     |      |      | 1.0 |

April 26 2015 Hour: 7: 9 10.3 Agency: REL Distant

EMSC OT=07:09:10.3 27.86N 86.08E 15Km M=6.7 NEPAL

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 717  | 10.48 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 717  | 12.27 |      |      |      |      |     |      |      |    |
| SHBL | BZ |      |     | EP    |   | 717  | 13.17 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 717  | 13.24 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 717  | 13.24 |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 717  | 14.07 |      |      |      |      |     |      |      |    |

April 26 2015 Hour: 23:340.6 Lat: 33.81N Lon: 35.79E Depth: 23 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

BAABDA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES       | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|------------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 16   | 310 | EP    |   | 23   | 3     | 45.13-0.01 | 38   |      |      |     |      |      | 1.0 |
| BHL  | BE | 16   | 310 | ES    |   | 23   | 3     | 48.50      | 0.00 |      |      |     |      |      | 1.0 |
| DQRL | SZ | 23   | 240 | EP    |   | 23   | 3     | 45.89      | 0.04 |      |      |     |      |      | 1.0 |
| QRWL | SZ | 31   | 198 | EP    |   | 23   | 3     | 46.64-0.07 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 35   | 173 | EP    |   | 23   | 3     | 47.35      | 0.05 |      |      |     |      |      | 1.0 |
| RCY  | SE | 35   | 173 | ES    |   | 23   | 3     | 52.26-0.00 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 54   | 16  | EP    |   | 23   | 3     | 49.73-0.03 |      |      |      |     |      |      | 0.2 |

April 27 2015 Hour: 7:4843.0 Lat: 33.15N Lon: 35.77E Depth: 6 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.0 secs

SYRIA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES       | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|------------|------|------|------|-----|------|------|-----|
| SHBL | BZ | 22   | 353 | EP    |   | 748  |       | 46.82-0.04 | 33   |      |      |     |      |      | 1.0 |
| SHBL | BE | 22   | 353 | ES    |   | 748  |       | 49.66-0.04 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 39   | 9   | EP    |   | 748  |       | 49.46-0.00 |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 39   | 9   | ES    |   | 748  |       | 54.27      | 0.05 |      |      |     |      |      | 1.0 |
| QRWL | SZ | 45   | 349 | EP    |   | 748  |       | 50.38-0.01 |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 65   | 343 | EP    |   | 748  |       | 53.62      | 0.11 |      |      |     |      |      | 1.0 |
| DQRL | SE | 65   | 343 | ES    |   | 749  |       | 1.26-0.01  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 126  | 7   | EP    |   | 749  |       | 3.03-0.04  |      |      |      |     |      |      | 1.0 |

April 27 2015 Hour: 10:1622.7 Lat: 34.42N Lon: 36.71E Depth: 15 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

SYRIA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES       | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|------------|------|------|------|-----|------|------|-----|
| HWQ  | SZ | 72   | 258 | EP    |   | 1016 |       | 34.19-0.10 | 58   |      |      |     |      |      | 1.0 |
| HWQ  | SN | 72   | 258 | ES    |   | 1016 |       | 42.83-0.03 |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 113  | 240 | EP    |   | 1016 |       | 40.46      | 0.19 |      |      |     |      |      | 1.0 |
| RCY  | SZ | 130  | 219 | EP    |   | 1016 |       | 42.66-0.19 |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 130  | 219 | ES    |   | 1016 |       | 57.77      | 0.01 |      |      |     |      |      | 1.0 |
| DQRL | SZ | 131  | 234 | EP    |   | 1016 |       | 43.16      | 0.13 |      |      |     |      |      | 1.0 |

April 27 2015 Hour: 10:3422.9 Lat: 34.47N Lon: 36.80E Depth: 2 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

SYRIA REGION

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES       | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|------------|------|------|------|-----|------|------|-----|
| HWQ  | SZ | 81   | 255 | EP    |   | 1034 |       | 36.05      | 0.04 | 55   |      |     |      |      | 1.0 |
| HWQ  | SE | 81   | 255 | ES    |   | 1034 |       | 45.68-0.02 |      |      |      |     |      |      | 1.0 |
| BHL  | BZ | 123  | 239 | EP    |   | 1034 |       | 42.82      | 0.09 |      |      |     |      |      | 1.0 |
| RCY  | SZ | 140  | 220 | EP    |   | 1034 |       | 45.30-0.01 |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 140  | 220 | ES    |   | 1035 |       | 1.90       | 0.02 |      |      |     |      |      | 1.0 |
| DQRL | SZ | 142  | 233 | EP    |   | 1034 |       | 45.38-0.12 |      |      |      |     |      |      | 1.0 |

April 27 2015 Hour: 14:1631.4 Agency: REL Regional  
EMSC OT=14:16:31.4 35.00N 26.89E 10Km M=4.2 CRETE, GREECE

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|----|
| RCY  | SZ |      |     | EP    |   | 1418 |       | 20.06 |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 1418 |       | 20.43 |      |      |      |     |      |      |    |

April 27 2015 Hour: 15:14.5 Lat: 34.09N Lon: 35.50E Depth: 7 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.0 secs

OFFSHORE CENTRAL LEBANON

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES       | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|------------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 26   | 145 | EP    |   | 15   | 1     | 8.84       | 0.05 | 33   |      |     |      |      | 1.0 |
| BHL  | BN | 26   | 145 | ES    |   | 15   | 1     | 11.98-0.02 |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 43   | 171 | EP    |   | 15   | 1     | 11.59-0.01 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 46   | 63  | EP    |   | 15   | 1     | 12.05-0.00 |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 63   | 164 | EP    |   | 15   | 1     | 14.65-0.03 |      |      |      |     |      |      | 1.0 |
| QRWL | SE | 63   | 164 | ES    |   | 15   | 1     | 22.27      | 0.02 |      |      |     |      |      | 1.0 |

April 27 2015 Hour: 15:23 57.3 Lat: 33.78N Lon: 35.76E Depth: 12 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

**ALEY REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 17   | 323 | EP    |   | 1524 | 0.74  | -0.02 | 40   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 20   | 244 | EP    |   | 1524 | 1.15  | -0.03 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 20   | 244 | ES    |   | 1524 | 4.06  | 0.03  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 27   | 196 | EP    |   | 1524 | 2.25  | 0.02  |      |      |      |     |      |      | 1.0 |
| QRWL | SE | 27   | 196 | ES    |   | 1524 | 5.84  | -0.02 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 17  | EP    |   | 1524 | 6.85  | 0.02  |      |      |      |     |      |      | 1.0 |

April 28 2015 Hour: 8:47 40.4 Lat: 33.86N Lon: 35.83E Depth: 0 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.0 secs

**ZAHLE REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 17   | 288 | EP    |   | 847  | 43.11 | -0.00 | 36   |      |      |     |      |      | 1.0 |
| BHL  | BN | 17   | 288 | ES    |   | 847  | 45.11 | -0.04 |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 29   | 235 | EP    |   | 847  | 45.17 | 0.10  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 37   | 202 | EP    |   | 847  | 46.28 | -0.02 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 40   | 179 | EP    |   | 847  | 46.82 | 0.02  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 40   | 179 | ES    |   | 847  | 51.50 | -0.06 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 48   | 13  | EP    |   | 847  | 48.11 | -0.00 |      |      |      |     |      |      | 1.0 |

April 28 2015 Hour: 16:39 37.8 Agency: REL Distant

**EMSC OT=16:39:37.8 20.92S 178.68W 566Km M=6.2 FIJI REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| HWQ  | SZ |      |     | EP    |   | 1658 | 14.09 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 1658 | 14.48 |      |      |      |      |     |      |      |    |
| RCY  | SZ |      |     | EP    |   | 1658 | 15.16 |      |      |      |      |     |      |      |    |
| QRWL | SZ |      |     | EP    |   | 1658 | 15.01 |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 1658 | 15.70 |      |      |      |      |     |      |      |    |

April 29 2015 Hour: 2:37 46.9 Agency: REL Distant

**EMSC OT=02:37:46.9 27.50N 53.47E 10Km M=4.9 SOUTHERN IRAN**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES | CODA | AMPL | PERI | BAZ | ARES | VELO | WT |
|------|----|------|-----|-------|---|------|-------|------|------|------|------|-----|------|------|----|
| QRWL | SZ |      |     | EP    |   | 241  | 37.53 |      |      |      |      |     |      |      |    |
| HWQ  | SZ |      |     | EP    |   | 241  | 38.21 |      |      |      |      |     |      |      |    |
| DQRL | SZ |      |     | EP    |   | 241  | 39.48 |      |      |      |      |     |      |      |    |
| BHL  | BZ |      |     | EP    |   | 241  | 38.79 |      |      |      |      |     |      |      |    |

April 29 2015 Hour: 15:51 13.9 Lat: 33.79N Lon: 35.75E Depth: 17 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.1 secs

**ALEY REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 15   | 326 | EP    |   | 1551 | 17.65 | -0.06 | 38   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 19   | 240 | EP    |   | 1551 | 18.16 | 0.05  |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 19   | 240 | ES    |   | 1551 | 21.23 | 0.04  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 28   | 193 | EP    |   | 1551 | 19.05 | -0.14 |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 34   | 166 | EP    |   | 1551 | 20.12 | 0.08  |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 34   | 166 | ES    |   | 1551 | 24.56 | -0.00 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 19  | EP    |   | 1551 | 23.40 | 0.03  |      |      |      |     |      |      | 1.0 |

April 30 2015 Hour: 9:22 11.7 Lat: 33.80N Lon: 35.77E Depth: 13 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

**ALEY REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 16   | 317 | EP    |   | 922  | 15.06 | -0.02 | 41   |      |      |     |      |      | 1.0 |
| DQRL | SZ | 21   | 240 | EP    |   | 922  | 15.75 | -0.04 |      |      |      |     |      |      | 1.0 |
| DQRL | SN | 21   | 240 | ES    |   | 922  | 18.87 | 0.03  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 34   | 170 | EP    |   | 922  | 17.70 | 0.02  |      |      |      |     |      |      | 1.0 |
| RCY  | SE | 34   | 170 | ES    |   | 922  | 22.10 | -0.02 |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 55   | 17  | EP    |   | 922  | 20.93 | 0.03  |      |      |      |     |      |      | 1.0 |

April 30 2015 Hour: 14:22 51.4 Lat: 33.78N Lon: 35.77E Depth: 9 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.0 secs

**ALEY REGION**

| STAT | CO | DIST | AZI | PHASE | P | HRMN | SECON | TRES  | CODA | AMPL | PERI | BAZ | ARES | VELO | WT  |
|------|----|------|-----|-------|---|------|-------|-------|------|------|------|-----|------|------|-----|
| BHL  | BZ | 17   | 322 | EP    |   | 1422 | 54.52 | -0.08 | 39   |      |      |     |      |      | 1.0 |
| BHL  | BE | 17   | 322 | ES    |   | 1422 | 56.99 | 0.02  |      |      |      |     |      |      | 1.0 |
| DQRL | SZ | 20   | 245 | EP    |   | 1422 | 55.08 | 0.03  |      |      |      |     |      |      | 1.0 |
| QRWL | SZ | 27   | 197 | EP    |   | 1422 | 56.11 | 0.02  |      |      |      |     |      |      | 1.0 |
| RCY  | SZ | 32   | 169 | EP    |   | 1422 | 56.84 | -0.06 |      |      |      |     |      |      | 1.0 |
| RCY  | SN | 32   | 169 | ES    |   | 1423 | 0.99  | 0.02  |      |      |      |     |      |      | 1.0 |
| HWQ  | SZ | 57   | 17  | EP    |   | 1423 | 0.84  | 0.04  |      |      |      |     |      |      | 1.0 |



# Epicentral Map of Lebanon

APRIL 2015

