

Republic of Lebanon  
National Council for Scientific Research

# Provisional Seismological Bulletin

from the

## NATIONAL SEISMIC NETWORK

April

2016

Prepared by  
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## GENERAL BULLETIN INFORMATION

The National Centre for Geophysical Research is a governmental agency established 1975 in Lebanon by the National Council for Scientific Research (CNRS). The mission of the Centre, among other assignments, is the monitoring of seismic activity within the national territory. Currently, the national seismic network is under deployment; it has been officially registered as GRAL, an acronym for Geophysical Research Arrays of Lebanon. Station coordinates and status are given below.

Since 1993, the Centre has been participating in a regional initiative by the UNESCO and the USGS known as RELEMR, i.e. Reducing Earthquake Losses in the Eastern Mediterranean Region.

Within this framework, the Centre routinely contributes to the database set up for this purpose and maintained by the Euro-Mediterranean Seismological Centre (EMSC). For coherence, the Centre has adopted the recommended seismic analysis system SEISAN developed by Jens Havskov and Lars Ottemoller from the University of Bergen, Norway.

The localization program currently used for locating earthquakes is Hypocenter (Lienert et al., 1986). Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events.

The velocity model used for all local and regional events is the one currently adopted by the RELEMR initiative.

P-wave velocity (km/sec)	depth to top of layer (km)
6.2	0.0
6.8	14.0
8.05	34.0
8.25	50.0
8.5	80.0

Magnitudes are calculated from the coda duration. The coda wave magnitude is estimated via the formula:

$$M_c = 0.08 + 1.63 * \log_{10}(T) + 0.0009 * D.$$

where T is the coda duration (sec) and D is the epicentral distance (km). The coefficients above were adopted at the outset of our Centre in 1980 and thus are still in use for the sake of continuity.

All available coda values are used for magnitude calculations. No station corrections are used for either travel times or magnitudes calculations. The  $V_p/V_s$  velocity ratio used in both layered models above is 1.74.

As a general policy, neither depths, nor epicenters, are fixed unless stated otherwise since this might restrict later use of the data. Consequently, some event locations might be unrealistic such as zero depth earthquakes or teleseismic locations off by 1000 km. However, the locations are based on the available data and reflect the localization procedure and the models used.

## STATIONS USED

The stations listed below are operated by the National Centre for Geophysical Research. They constitute the basic setup of the National Seismic Network of Lebanon.

However, readings from other cooperating agencies are also used in locating the events and thus more stations may appear in the event lists than in the station list; it is worth mentioning the systematic use of arrival times from the Cypriot seismic network CSS in order to constrain events corresponding to an active zone off the Lebanese shorelines.

STATION	LATITUDE	LONGITUDE	HEIGHT (m)	NAME	COMMENTS
BHL	3354.25N	3539.25E	1000	BHANNES	Opened May 1980
HWQ	3416.68N	3556.78E	1161	HAWQA	Opened Jan 2001
MATL	3329.32N	3519.78E	5	MATARIH	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
ZAHL	3351.48N	3553.12E	1211	ZAHLE	Opened Aug 2015

## REGIONAL AND DISTANT EARTHQUAKES

Because regional events and teleseisms are not localized, but simply identified, EMSC determination data are given along with phase arrivals (in general first arrival) at the stations of our network.

## MACROSEISMIC DATA

Macroseismic data, if available, are included in the bulletin.

## MONTHLY EPICENTER MAPS

Maps will be found on the last page.

## ELECTRONIC PUBLICATION

This provisional bulletin is available for download in pdf format on:  
<http://www.cnrs.edu.lb/grdownload.html>

## REFERENCES

- Havskov, J. and Ottemoller, L. (2001). SEISAN: The Earthquake Analysis Software. -version 7.2-  
Institute of Solid Earth Physics, University of Bergen.  
<http://www.ifjf.uib.no/seismo/software/seisan.html>
- Lienert, B.R., Berg, E. and Frazer, L.N. (1986). Hypocenter: An earthquake location method using centered, scaled, and adaptively least squares. Bull. Seism. Soc. Am., 76., pp 771-783.

## Abbreviations:

TIME: Origin time in UTC (hr. min. and sec.) or data file onset time if event is not located.

LAT: Latitude of epicenter

LON: Longitude of epicenter

DEPTH: Focal depth in kilometer (trailing F indicates fixed depth)

AGENCY: REL throughout the bulletin, aka. REsearch Lebanon

MAGNITUDES: Up to 3 different magnitudes can be given followed by type and reporting agency, e.g. 3.1 MC REL - coda magnitude calculated according to above mentioned formula.

EMSC: Euro-Mediterranean Seismological Centre.

OT: Origin Time

RMS: Root mean square value of travel time residuals

STAT: Station code

CO: Component; S:short period, L:long period, B:broadband.

DIST: Epicenter distance (km)

AZI: Azimuth from source to station

PHAS: Phase; The first letter characterizes onset E(mergent) or I(mpulsive)

P: Polarity ( C for compression, D for dilatation )

HR: Hour

MN: Minute

SECON: Seconds

TRES: Residual (seconds)

CODA: Signal duration in seconds

AMPL: Ground Amplitude ( $0.5 * (\text{peak to peak})$ ), (nm) at period PERI

PERI: Period where amplitude is measured

BAZ: Back azimuth (station to event)

ARES: Back azimuth residual

VELO: Apparent phase velocity (km/sec)

WT: Weight of phase in the location

\*: An asterisk before the phase arrival time implies a potential timing error. If an S phase is read, differential S-P times will be used in the hypocenter location.

April 1 2016 Hour: 2:39 7.1 Agency: REL Distant  
**EMSC OT=02:39:07.1 33.37N 136.38E 10Km M=6.0 NEAR S. COAST OF WESTERN HONSHU**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ EP 251 14.17  
 BHL BZ EP 251 16.34  
 SHBL BZ EP 251 17.76

April 1 2016 Hour: 14:22 8.1 Lat: 34.00N Lon: 36.09E Depth: 33 Agency: REL Local  
 Magnitudes: 3.0MC REL Rms: 0.1 secs  
**BAALBECK REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ 33 336 EP 1422 15.48-0.03 55 1.0  
 HWQ BN 33 336 ES 1422 21.00 0.03 1.0  
 BHL BZ 42 255 EP 1422 16.34-0.11 1.0  
 DQRL SZ 58 236 EP 1422 18.66 0.15 1.0  
 RCY SZ 61 203 EP 1422 18.91 0.03 1.0  
 RCY SN 61 203 ES 1422 26.81-0.02 1.0  
 QRWL SZ 63 217 EP 1422 19.04-0.06 1.0

April 2 2016 Hour: 12:57 16.5 Lat: 33.78N Lon: 35.79E Depth: 6 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 19 318 EP 1257 19.68-0.03 47 1.0  
 DQRL SZ 22 248 EP 1257 20.18 0.00 1.0  
 DQRL SN 22 248 ES 1257 22.94 0.02 1.0  
 QRWL SZ 27 201 EP 1257 21.02-0.03 1.0  
 RCY SZ 32 172 EP 1257 21.75 0.02 1.0  
 RCY SN 32 172 ES 1257 25.61-0.00 1.0  
 HWQ SZ 57 15 EP 1257 26.08 0.29 0.2

April 2 2016 Hour: 15:16 0.7 Lat: 34.02N Lon: 36.15E Depth: 42 Agency: REL Local  
 Magnitudes: 2.9MC REL Rms: 0.0 secs  
**BAALBECK REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ 34 327 EP 1516 8.92 0.04 50 1.0  
 HWQ BN 34 327 ES 1516 14.88-0.03 1.0  
 BHL BZ 48 255 EP 1516 10.16-0.03 1.0  
 BHL BN 48 255 ES 1516 17.22 0.04 1.0  
 DQRL SZ 64 237 EP 1516 11.98-0.04 1.0  
 RCY SZ 65 207 EP 1516 12.20 0.04 1.0  
 RCY SN 65 207 ES 1516 20.60-0.02 1.0

April 3 2016 Hour: 0:46 16.6 Agency: REL Regional  
**EMSC OT=00:46:16.6 34.22N 25.62E 10Km M=5.0 CRETE, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 DQRL SZ EP 048 11.09  
 BHL BZ EP 048 15.24  
 QRWL SZ EP 048 14.99  
 SHBL BZ EP 048 16.80  
 RCY SZ EP 048 16.63  
 HWQ BZ EP 048 17.63

April 3 2016 Hour: 8:23 54.1 Agency: REL Distant  
**EMSC OT=08:23:54.1 14.30S 166.91E 44Km M=6.9 VANUATU**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ EP 843 0.56  
 BHL BZ EP 843 1.94  
 RCY SZ EP 843 2.49  
 DQRL SZ EP 843 2.58  
 SHBL BZ EP 843 3.04

April 3 2016 Hour: 10:27 31.8 Lat: 33.78N Lon: 35.77E Depth: 4 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
ZAHL	SZ	14	51	EP		1027	34.28	0.09	61						1.0
BHL	BZ	18	323	EP		1027	34.70	-0.00							1.0
BHL	BN	18	323	ES		1027	36.77	-0.11							1.0
DQRL	SZ	20	246	EP		1027	35.12	0.04							1.0
DQRL	SN	20	246	ES		1027	37.66	0.12							1.0
QRWL	SZ	27	197	EP		1027	36.01	-0.14							1.0
RCY	SZ	32	169	EP		1027	37.06	0.09							1.0
RCY	SN	32	169	ES		1027	40.75	-0.08							1.0
HWQ	SZ	58	17	EP		1027	41.29	0.15							0.2

April 3 2016 Hour: 11:0 46.6 Lat: 33.53N Lon: 35.71E Depth: 0 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	3	306	EP		11 0	47.06	-0.07							1.0
RCY	SZ	12	108	EP		11 0	48.66	0.02							1.0
RCY	SN	12	108	ES		11 0	50.02	-0.12							1.0
SHBL	BZ	21	171	EP		11 0	50.04	0.09							1.0
DQRL	SZ	23	326	EP		11 0	50.33	-0.03	33						1.0
DQRL	SN	23	326	ES		11 0	53.10	-0.03							1.0
BHL	BZ	42	353	EP		11 0	53.28	-0.06							1.0
HWQ	SZ	86	15	EP		11 1	0.64	0.20							1.0

April 3 2016 Hour: 16:30 35.0 Lat: 33.78N Lon: 35.75E Depth: 3 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	329	EP		1630	37.79	-0.04	41						1.0
DQRL	SZ	18	245	EP		1630	38.04	-0.02							1.0
DQRL	SN	18	245	ES		1630	40.33	0.03							1.0
RCY	SZ	32	165	EP		1630	40.24	-0.02							1.0
RCY	SN	32	165	ES		1630	44.12	0.00							1.0
HWQ	SZ	59	18	EP		1630	44.57	0.04							1.0

April 4 2016 Hour: 2:7 58.7 Agency: REL Distant  
**EMSC OT=02:07:58.7 17.56S 178.69W 513Km M=4.9 FIJI REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		226	38.71								
SHBL	BZ			EP		226	39.05								
QRWL	SZ			EP		226	39.31								
DQRL	SZ			EP		226	39.64								

April 4 2016 Hour: 10:54 40.6 Lat: 33.54N Lon: 35.71E Depth: 0 Agency: REL Local  
Magnitudes: 2.7MC 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	2	288	EP		1054	40.91	-0.10							1.0
RCY	SZ	13	112	EP		1054	42.60	-0.11							1.0
RCY	SN	13	112	ES		1054	44.31	0.04							1.0
SHBL	BZ	22	171	EP		1054	44.20	0.09	41						1.0
DQRL	SZ	22	325	EP		1054	44.23	0.04							1.0
DQRL	SN	22	325	ES		1054	46.89	0.05							1.0
HWQ	SZ	85	15	EP		*1054	54.16	-0.11							0.0

April 4 2016 Hour: 11:20 1.7 Lat: 33.47N Lon: 35.69E Depth: 0 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	353	EP		1120	3.03	-0.03							1.0
RCY	SZ	14	79	EP		1120	3.93	0.02	32						1.0
RCY	SE	14	79	ES		1120	5.53	-0.00							1.0
SHBL	BZ	15	161	EP		1120	4.09	-0.01							1.0
DQRL	SZ	28	336	EP		1120	6.29	0.03							1.0
DQRL	SN	28	336	ES		1120	9.63	0.00							1.0

April 4 2016 Hour: 14:54 4.9 Lat: 33.41N Lon: 35.65E Depth: 8 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.0 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	11	129	EP		1454	7.33	0.02							1.0
QRWL	SZ	15	11	EP		1454	7.74	-0.07							1.0
RCY	SZ	20	61	EP		1454	8.47	0.02	41						1.0
RCY	SN	20	61	ES		1454	11.04	-0.00							1.0
DQRL	SZ	33	347	EP		1454	10.51	-0.02							1.0
DQRL	SN	33	347	ES		1454	14.70	0.04							1.0
BHL	BZ	55	0	EP		1454	13.88	0.01							1.0

April 5 2016 Hour: 3:18 56.9 Lat: 33.53N Lon: 35.60E Depth: 0 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
QRWL	SZ	8	75	EP		318	58.17	-0.01							1.0
DQRL	SZ	20	352	EP		319	0.00	-0.07	60						1.0
DQRL	SE	20	352	ES		319	2.42	-0.01							1.0
RCY	SZ	22	99	EP		319	0.45	-0.04							1.0
RCY	SN	22	99	ES		319	3.12	-0.04							1.0
SHBL	BZ	24	146	EP		319	0.81	0.02							1.0
SHBL	BN	24	146	ES		319	3.69	0.01							1.0
BEYL	SZ	39	346	EP	*	319	3.26	0.06							0.0
BHL	BZ	42	7	EP		319	3.61	-0.03							1.0
ZAHL	SZ	45	36	EP		319	4.14	-0.02							1.0
ZAHL	SN	45	36	ES		319	9.57	0.02							1.0
HWQ	SZ	89	21	EP		319	11.39	0.15							1.0

April 5 2016 Hour: 4:40 22.2 Lat: 33.76N Lon: 35.96E 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
RCY	SZ	31	203	EP		440	27.18	-0.05	34						1.0
RCY	SN	31	203	ES		440	30.91	-0.03							1.0
BHL	BZ	33	300	EP		440	27.52	-0.04							1.0
DQRL	SZ	37	262	EP		440	28.18	0.01							1.0
DQRL	SN	37	262	ES		440	32.62	0.03							1.0
SHBL	BZ	50	204	EP		440	30.28	0.07							1.0
HWQ	SZ	58	358	EP		440	31.69	0.12							0.2

April 5 2016 Hour: 6:7 39.9 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		6 7	45.69								
RCY	SZ			EP		6 7	48.35								
QRWL	SZ			EP		6 7	49.08								
DQRL	SZ			EP		6 7	51.32								
BHL	BZ			EP		6 7	55.71								
HWQ	SZ			EP		6 8	1.81								

April 5 2016 Hour: 7:36 17.3 Lat: 33.46N Lon: 35.65E Depth: 1 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	11	18	EP		736	18.89	-0.18							1.0
SHBL	BZ	15	142	EP		736	19.79	0.05							1.0
RCY	SZ	18	75	EP		736	20.25	-0.02	29						1.0
RCY	SN	18	75	ES		736	22.53	0.06							1.0
DQRL	SZ	29	346	EP		736	21.90	-0.03							1.0
DQRL	SN	29	346	ES		736	25.50	0.13							1.0

April 5 2016 Hour: 16:33 56.7 Lat: 34.02N Lon: 35.73E Depth: 5 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.0 secs

KESROUAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	207	EP		1633	59.19	-0.03	60						1.0
BHL	BE	15	207	ES		1634	1.11	0.00							1.0
ZAHL	SZ	23	141	EP		1634	0.55	-0.01							1.0
ZAHL	SN	23	141	ES		1634	3.45	0.01							1.0
HWQ	SZ	35	35	EP		1634	2.43	0.01							1.0
HWQ	SN	35	35	ES		1634	6.68	-0.00							1.0
DQRL	SZ	38	203	EP		1634	2.89	0.05							1.0
QRWL	SZ	53	184	EP		1634	5.18	-0.02							1.0
RCY	SZ	59	170	EP		1634	6.25	0.02							1.0
RCY	SN	59	170	ES		1634	13.32	0.01							1.0
SHBL	BZ	75	179	EP		1634	8.69	-0.04							1.0

April 6 2016 Hour: 3:21 52.6 Lat: 33.12N Lon: 35.47E Depth: 0 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.1 secs

BENT JBEIL REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	36	45	EP		321	58.50	0.03	31						1.0
SHBL	BN	36	45	ES		322	2.84	0.02							1.0
QRWL	SZ	52	22	EP		322	0.72	-0.25							1.0
DQRL	SZ	66	8	EP		322	3.36	0.08							1.0
DQRL	SN	66	8	ES		322	11.17	0.00							1.0
HWQ	SZ	136	19	EP		322	14.70	0.12							1.0

April 6 2016 Hour: 7:1 32.4 Lat: 33.66N Lon: 35.51E Depth: 4 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	8	47	EP		7	1	33.91	-0.01	50					1.0
DQRL	SN	8	47	ES		7	1	35.04	-0.01						1.0
QRWL	SZ	20	128	EP		7	1	35.74	-0.03						1.0
QRWL	SN	20	128	ES		7	1	38.25	-0.01						1.0
BEYL	SZ	24	356	EP		7	1	36.33	0.03						1.0
BHL	BZ	30	26	EP		7	1	37.28	-0.10						1.0
BHL	BN	30	26	ES		7	1	41.16	0.10						1.0
SHBL	BZ	41	148	EP		7	1	39.06	0.02						1.0
SHBL	BN	41	148	ES		7	1	43.99	0.05						1.0
ZAHL	SZ	41	57	EP		7	1	39.08	-0.03						1.0
HWQ	SZ	80	30	EP		7	1	45.28	-0.01						1.0

April 6 2016 Hour: 14:45 34.4 Agency: REL Distant  
EMSC OT=14:45:34.4 07.98S 107.50E 67Km M=6.0 JAVA, INDONESIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1457	33.49								
HWQ	BZ			EP		1457	34.02								
BHL	BZ			EP		1457	34.56								



April 7 2016 Hour: 1:48 31.4 Lat: 33.32N Lon: 35.41E Depth: 0 Agency: REL Local  
Magnitudes: 2.4MC REL Rms: 0.1 secs

**SOUR REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	32	84	EP		148	36.52	0.02	26						1.0
SHBL	BN	32	84	ES		148	40.28	0.00							1.0
QRWL	SZ	36	45	EP		148	37.17	-0.07							1.0
DQRL	SZ	46	19	EP		148	38.70	-0.06							1.0
DQRL	SN	46	19	ES		148	44.23	0.01							1.0
BHL	BZ	69	19	EP		148	42.63	0.10							1.0
HWQ	SZ	118	25	EP		148	50.34	-0.04							0.2

April 7 2016 Hour: 3:32 54.2 Agency: REL Distant

**EMSC OT=03:32:54.2 13.93S 166.69E 30Km M=6.6 VANUATU**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		352	2.30								
SHBL	BZ			EP		352	2.83								

April 7 2016 Hour: 7:24 44.1 Lat: 33.67N Lon: 35.50E Depth: 7 Agency: REL Local  
Magnitudes: 2.7MC 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	8	55	EP		724	46.03	0.05	39						1.0
DQRL	SN	8	55	ES		724	47.37	-0.01							1.0
QRWL	SZ	21	128	EP		724	47.72	-0.08							1.0
QRWL	SN	21	128	ES		724	50.54	-0.01							1.0
BHL	BZ	30	28	EP		724	49.09	-0.03							1.0
RCY	SZ	36	121	EP		724	50.19	0.07							1.0

April 7 2016 Hour: 9:14 47.7 Lat: 33.48N Lon: 35.68E Depth: 3 Agency: REL Local  
Magnitudes: 2.4MC 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	360	EP		914	49.10	-0.05	28						1.0
RCY	SZ	14	81	EP		914	50.17	0.02							1.0
SHBL	BZ	15	158	EP		914	50.25	-0.05							1.0
SHBL	BN	15	158	ES		914	52.27	0.05							1.0
DQRL	SZ	27	338	EP		914	52.19	-0.00							1.0
DQRL	SN	27	338	ES		914	55.55	0.04							1.0

April 7 2016 Hour: 11:11 13.9 Agency: REL Regional

**EMSC OT=11:11:13.9 37.97N 35.11E 5Km M=4.1 CENTRAL TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1112	15.77								
BHL	BZ			EP		1112	18.89								
DQRL	SZ			EP		1112	22.93								
RCY	SZ			EP		1112	24.43								
SHBL	BZ			EP		1112	26.72								

April 8 2016 Hour: 10:17 58.1 Lat: 33.78N Lon: 35.78E Depth: 7 Agency: REL Local  
Magnitudes: 2.6MC 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		1018	1.24	-0.04	35						1.0
BHL	BN	18	320	ES		1018	3.67	0.02							1.0
DQRL	SZ	21	247	EP		1018	1.79	0.04							1.0
DQRL	SN	21	247	ES		1018	4.44	-0.02							1.0
QRWL	SZ	27	199	EP		1018	2.69	-0.02							1.0
RCY	SZ	32	170	EP		1018	3.48	0.03							1.0
RCY	SN	32	170	ES		1018	7.41	-0.01							1.0
HWQ	SZ	57	16	EP		1018	7.41	-0.01							1.0

April 9 2016 Hour: 10:22 26.9 Lat: 33.47N Lon: 35.65E 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	18	EP		1022	28.26	-0.12							1.0
SHBL	BZ	16	147	EP		1022	29.41	-0.03							1.0
SHBL	BN	16	147	ES		1022	31.35	0.01							1.0
RCY	SZ	18	80	EP		1022	29.77	0.07	32						1.0
DQRL	SZ	27	344	EP		1022	31.30	0.01							1.0
DQRL	SN	27	344	ES		1022	34.61	0.05							1.0

April 10 2016 Hour: 2:14 34.7 Agency: REL Distant  
EMSC OT=02:14:34.7 04.21S 102.17E 45Km M=5.7 SOUTHERN SUMATRA, INDONESIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		226	0.57								
HWQ	BZ			EP		226	0.85								
BHL	BZ			EP		226	1.47								

April 10 2016 Hour: 10:28 58.9 Agency: REL Distant  
EMSC OT=10:28:58.9 36.51N 71.26E 221Km M=6.6 HINDU KUSH REGION, AFGHANISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1034	37.47								
BHL	BZ			EP		1034	40.45								
SHBL	BZ			EP		1034	40.96								

April 12 2016 Hour: 22: 0 16.4 Lat: 33.69N Lon: 35.86E Depth: 7 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	19	8	EP		22 0	19.76	0.04	60						1.0
ZAHL	SE	19	8	ES		22 0	22.18	-0.03							1.0
RCY	SZ	22	185	EP		22 0	20.00	-0.14							1.0
RCY	SN	22	185	ES		22 0	23.02	0.08							1.0
DQRL	SZ	27	274	EP		22 0	20.96	0.07							1.0
DQRL	SE	27	274	ES		22 0	24.23	-0.01							1.0
BHL	BZ	30	322	EP		22 0	21.38	-0.07							1.0
HWQ	SZ	66	7	EP		22 0	27.12	0.06							1.0

April 13 2016 Hour: 13:55 17.7 Agency: REL Distant  
EMSC OT=13:55:17.7 23.14N 94.93E 137Km M=6.9 MYANMAR

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		14 4	16.60								
RCY	SZ			EP		14 4	18.03								
SHBL	BZ			EP		14 4	18.34								
QRWL	SZ			EP		14 4	18.84								
BHL	BZ			EP		14 4	18.57								
DQRL	SZ			EP		14 4	19.33								
BEYL	SZ			EP		14 4	19.88								

April 14 2016 Hour: 3: 6 10.2 Agency: REL Distant  
EMSC OT=03:06:10.2 53.94N 160.61E 40Km M=5.8 NEAR EAST COAST OF KAMCHATKA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		318	16.82								
SHBL	BZ			EP		318	19.21								

April 14 2016 Hour: 8:42 38.8 Lat: 33.39N Lon: 35.63E Depth: 14 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.1 secs

MARJAAYOUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	11	114	EP		842	41.94	0.05							1.0
QRWL	SZ	18	14	EP		842	42.52	-0.09	28						1.0
RCY	SZ	22	57	EP		842	43.09	-0.09							1.0
RCY	SN	22	57	ES		842	46.46	0.06							1.0

DQRL	SZ	36	350	EP		842	45.15	0.08									1.0
DQRL	SN	36	350	ES		842	49.67	-0.01									1.0

**April 14 2016 Hour: 10:35 51.5 Lat: 33.42N Lon: 35.67E Depth: 18 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
SHBL	BZ	11	138	EP		1035	55.05	-0.01							1.0
QRWL	SZ	14	5	EP		1035	55.23	-0.08							1.0
QRWL	SN	14	5	ES		1035	58.18	0.02							1.0
RCY	SZ	18	61	EP		1035	55.79	0.08	29						1.0
RCY	SN	18	61	ES		1035	58.84	-0.02							1.0
DQRL	SZ	33	344	EP		1035	57.58	0.05							1.0
HWQ	SZ	99	15	EP		1036	6.98	-0.03							1.0

**April 14 2016 Hour: 10:41 37.5 Lat: 33.48N Lon: 35.69E Depth: 2 Agency: REL Local**  
**Magnitudes: 2.4MC 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	357	EP		1041	38.85	0.01	27						1.0
RCY	SZ	14	81	EP		1041	39.78	-0.03							1.0
RCY	SN	14	81	ES		1041	41.56	0.01							1.0
SHBL	BZ	15	160	EP		1041	40.02	0.00							1.0
DQRL	SZ	28	337	EP		1041	41.94	0.00							1.0
DQRL	SN	28	337	ES		1041	45.24	-0.01							1.0
BHL	BZ	47	356	EP		1041	45.23	0.10							0.2
HWQ	SZ	92	15	EP		1041	52.41	0.11							0.2

**April 14 2016 Hour: 10:42 11.4 Lat: 33.54N Lon: 35.71E Depth: 0 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	3	290	EP		1042	11.76	-0.07	23						1.0
RCY	SZ	13	112	EP		1042	13.37	-0.07							1.0
RCY	SN	13	112	ES		1042	14.99	0.03							1.0
SHBL	BZ	22	171	EP		1042	14.89	0.04							1.0
DQRL	SZ	23	325	EP		1042	15.06	0.06							1.0
DQRL	SN	23	325	ES		1042	17.70	0.01							1.0

**April 14 2016 Hour: 12:26 36.2 Agency: REL Distant**  
**EMSC OT=12:26:36.2 32.82N 130.63E 15Km M=6.1 KYUSHU, JAPAN**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		1238	24.80								
BHL	BZ			EP		1238	23.16								

**April 14 2016 Hour: 14:37 35.4 Lat: 33.80N Lon: 35.77E Depth: 13 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
ZAHL	SZ	12	59	EP		1437	38.49	0.03							1.0
BHL	BZ	16	316	EP		1437	38.81	-0.03	45						1.0
DQRL	SZ	22	241	EP		1437	39.51	-0.05							1.0
DQRL	SN	22	241	ES		1437	42.69	0.04							1.0
RCY	SZ	34	170	EP		1437	41.35	-0.06							1.0
SHBL	BZ	50	183	EP		1437	43.85	0.01							1.0
SHBL	BN	50	183	ES		1437	50.12	0.02							1.0
HWQ	SZ	55	17	EP		1437	44.57	0.01							1.0

April 14 2016 Hour: 15:15.7 Lat: 33.82N Lon: 35.77E Depth: 21 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
ZAHL	SZ	12	68	EP		15	2	0.70-0.01							1.0
BHL	BZ	14	313	EP		15	2	0.94 0.08	28						1.0
BHL	BN	14	313	ES		15	2	3.91-0.02							1.0
DQRL	SZ	22	236	EP		15	2	1.57-0.05							1.0
RCY	SZ	36	170	EP		15	2	3.43 0.03							1.0
RCY	SN	36	170	ES		15	2	8.34-0.01							1.0
HWQ	SZ	54	18	EP		15	2	5.75-0.03							1.0

April 14 2016 Hour: 15:6 2.6 Lat: 33.81N Lon: 35.78E 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
ZAHL	SZ	12	60	EP		15	6	6.00-0.10							1.0
ZAHL	SN	12	60	ES		15	6	8.77 0.07							1.0
BHL	BZ	16	314	EP		15	6	6.50 0.04	42						1.0
BHL	BN	16	314	ES		15	6	9.27-0.05							1.0
DQRL	SZ	22	240	EP		15	6	7.16-0.00							1.0
DQRL	SN	22	240	ES		15	6	10.57 0.03							1.0
QRWL	SZ	30	197	EP		15	6	8.06-0.09							1.0
RCY	SZ	35	171	EP		15	6	8.79-0.05							1.0
SHBL	BZ	51	183	EP		15	6	11.27 0.14							1.0
HWQ	SZ	55	17	EP		15	6	11.91 0.21							0.2

April 14 2016 Hour: 15:14 23.4 Lat: 33.80N Lon: 35.79E Depth: 16 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
ZAHL	SZ	11	57	EP		1514	26.73	0.02							1.0
ZAHL	SN	11	57	ES		1514	29.13-0.01								1.0
BHL	BZ	17	312	EP		1514	27.22-0.01		39						1.0
BHL	BN	17	312	ES		1514	30.06 0.01								1.0
DQRL	SZ	23	241	EP		1514	27.98-0.00								1.0
HWQ	SZ	55	16	EP		1514	32.48-0.00								1.0

April 15 2016 Hour: 4:15 3.7 Agency: REL Regional  
 EMSC OT=04:15:03.7 31.27N 35.41E 20Km M=3.4 DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		415	36.69								
DQRL	SZ			EP		415	41.84								
BHL	BZ			EP		415	46.10								
HWQ	SZ			EP		415	53.43								

April 15 2016 Hour: 9:59 35.0 Lat: 33.47N Lon: 35.68E Depth: 1 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		959	36.32-0.05								1.0
QRWL	SE	8	2	ES		959	37.40 0.02								1.0
RCY	SZ	15	81	EP		959	37.44-0.00		30						1.0
RCY	SE	15	81	ES		959	39.25 0.00								1.0
SHBL	BZ	15	157	EP		959	37.53 0.01								1.0
DQRL	SZ	28	339	EP		959	39.48 0.02								1.0

April 15 2016 Hour: 16:25 6.5 Agency: REL Distant  
**EMSC OT=16:25:06.5 32.78N 130.68E 10Km M=7.0 KYUSHU, JAPAN**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ BZ EP 1636 51.17  
 BHL BZ EP 1636 54.97  
 SHBL BZ EP 1636 55.62

April 16 2016 Hour: 0:10 40.1 Agency: REL Regional  
**EMSC OT=00:10:40.1 34.81N 25.75E 10Km M=5.0 CRETE, GREECE**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 DQRL SZ EP 012 37.70  
 QRWL SZ EP 012 38.75  
 SHBL BZ EP 012 40.76  
 RCY SZ EP 012 40.72  
 HWQ SZ EP 012 41.23

April 16 2016 Hour: 0:48 33.1 Agency: REL Distant  
**EMSC OT=00:48:33.1 32.83N 130.77E 15Km M=5.2 KYUSHU, JAPAN**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL BZ EP 1 0 21.56  
 SHBL BZ EP 1 0 22.91

April 16 2016 Hour: 10: 7 50.4 Lat: 33.48N Lon: 35.67E Depth: 9 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 8 7 EP 10 7 52.37-0.09 1.0  
 RCY SZ 16 81 EP 10 7 53.44 0.03 35 1.0  
 SHBL BZ 16 154 EP 10 7 53.48 0.04 1.0  
 SHBL BN 16 154 ES 10 7 55.69 0.00 1.0  
 DQRL SZ 27 340 EP 10 7 55.00-0.07 1.0  
 DQRL SN 27 340 ES 10 7 58.62 0.10 1.0

April 16 2016 Hour: 10:25 4.0 Lat: 33.58N Lon: 35.70E Depth: 5 Agency: REL Local  
**Magnitudes: 2.2MC 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 4 207 EP 1025 5.09-0.07 19 1.0  
 QRWL SN 4 207 ES 1025 6.05 0.03 1.0  
 RCY SZ 15 125 EP 1025 6.71-0.01 1.0  
 RCY SN 15 125 ES 1025 8.74 0.01 1.0  
 DQRL SZ 19 320 EP 1025 7.21 0.02 1.0  
 SHBL BZ 26 171 EP 1025 8.31 0.02 1.0

April 16 2016 Hour: 13: 9 55.8 Lat: 33.79N Lon: 35.78E Depth: 8 Agency: REL Local  
**Magnitudes: 2.6MC 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 17 315 EP 13 9 59.00 0.00 36 1.0  
 BHL BE 17 315 ES 1310 1.35 0.00 1.0  
 DQRL SZ 22 244 EP 13 9 59.72 0.00 1.0  
 DQRL SN 22 244 ES 1310 2.59-0.01 1.0  
 RCY SZ 33 172 EP 1310 1.45 0.01 1.0  
 RCY SN 33 172 ES 1310 5.60-0.00 1.0  
 HWQ SZ 56 16 EP 1310 4.95-0.00 1.0

April 16 2016 Hour: 14:13 49.1 Lat: 33.45N Lon: 35.61E Depth: 7 Agency: REL Local  
Magnitudes: 2.4MC REL Rms: 0.0 secs

CHOUF REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	13	31	EP		1413	51.53	-0.00	26						1.0
QRWL	SN	13	31	ES		1413	53.33	-0.01							1.0
SHBL	BZ	17	132	EP		1413	52.10	-0.01							1.0
SHBL	BN	17	132	ES		1413	54.36	0.01							1.0
RCY	SZ	21	76	EP		1413	52.82	0.00							1.0
DQRL	SZ	29	352	EP		1413	53.92	0.01							1.0

April 17 2016 Hour: 3:43 51.8 Lat: 33.58N Lon: 36.21E Depth: 0 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	36	256	EP		343	57.44	-0.13	44						1.0
RCY	SN	36	256	ES		344	1.87	0.05							1.0
SHBL	BZ	50	240	EP		343	59.90	0.02							1.0
SHBL	BN	50	240	ES		344	5.87	0.03							1.0
DQRL	SZ	61	284	EP		344	1.69	0.06							1.0
DQRL	SN	61	284	ES		344	8.84	-0.04							1.0
BHL	BZ	63	306	EP		344	1.95	-0.01							1.0
HWQ	BZ	81	343	EP		344	5.00	0.03							1.0

April 17 2016 Hour: 6:42 7.6 Lat: 33.43N Lon: 35.63E Depth: 0 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
SHBL	BZ	14	129	EP		642	9.91	0.00							1.0
QRWL	SZ	14	21	EP		642	9.91	-0.04							1.0
RCY	SZ	21	68	EP		642	11.01	0.00	31						1.0
RCY	SN	21	68	ES		642	13.50	0.01							1.0
DQRL	SZ	31	350	EP		642	12.71	0.02							1.0
DQRL	SN	31	350	ES		642	16.43	0.00							1.0
BHL	BZ	53	3	EP		642	16.18	0.00							1.0

April 17 2016 Hour: 7:31 0.4 Agency: REL Distant  
EMSC OT=07:31:00.4 23.59S 174.43W 15Km M=5.9 TONGA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		750	46.49								
SHBL	BZ			EP		750	47.58								

April 17 2016 Hour: 10:48 14.8 Lat: 33.50N 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	5	5	EP		1048	15.59	-0.08							1.0
RCY	SZ	15	92	EP		1048	17.11	-0.09	32						1.0
RCY	SN	15	92	ES		1048	19.05	0.08							1.0
DQRL	SZ	25	337	EP		1048	18.93	0.12							1.0
DQRL	SN	25	337	ES		1048	21.79	0.01							1.0
BHL	BZ	45	357	EP		1048	22.00	-0.04							1.0

April 17 2016 Hour: 15:17 2.8 Lat: 34.70N Lon: 36.28E Depth: 1 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	56	213	EP		1517	11.68	-0.12	45						1.0
HWQ	BN	56	213	ES		1517	18.47	-0.00							1.0
BHL	BZ	105	213	EP		1517	19.90	0.13							1.0
DQRL	SZ	128	211	EP		1517	23.43	-0.01							1.0
DQRL	SN	128	211	ES		1517	38.73	0.01							1.0

**April 17 2016 Hour: 16: 3 58.2 Agency: REL Regional**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ EP 16 7 25.14  
 BHL BZ EP 16 7 31.23  
 DQRL SZ EP 16 7 31.95  
 SHBL BZ EP 16 7 32.27

**April 18 2016 Hour: 2:41 48.2 Agency: REL Regional**  
**EMSC OT=02:41:48.2 30.49N 34.42E 5Km M=3.3 DEAD SEA REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 SHBL BZ EP 242 40.19  
 DQRL SZ EP 242 41.93

**April 18 2016 Hour: 3:43 15.6 Agency: REL Regional**  
**EMSC OT=03:43:15.6 35.34N 32.44E 40Km M=3.4 CYPRUS REGION**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ EP 344 0.84  
 RCY SZ EP 344 4.30  
 SHBL BZ EP 344 5.23

**April 18 2016 Hour: 11:20 55.4 Lat: 33.48N Lon: 35.68E Depth: 6 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	8	1	EP		1120	57.10	-0.11	34						1.0
QRWL	SN	8	1	ES		1120	58.56	0.03							1.0
RCY	SZ	15	81	EP		1120	58.14	0.02							1.0
SHBL	BZ	15	158	EP		1120	58.20	-0.04							1.0
SHBL	BN	15	158	ES		1121	0.35	0.04							1.0
DQRL	SZ	27	338	EP		1121	0.10	0.06							1.0

**April 18 2016 Hour: 13: 6 10.6 Agency: REL Distant**  
**EMSC OT=13:06:10.6 19.48S 169.11E 72Km M=5.9 VANUATU**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1325	24.38								
SHBL	BZ			EP		1325	24.38								

**April 18 2016 Hour: 15: 6 19.7 Lat: 33.97N Lon: 36.21E Depth: 18 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.0 secs**  
**BAALBECK REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	33	247	EP		15 6	25.74	-0.08	52						1.0
ZAHL	SN	33	247	ES		15 6	30.36	0.04							1.0
HWQ	SZ	42	324	EP		15 6	27.01	-0.01							1.0
HWQ	SN	42	324	ES		15 6	32.42	0.03							1.0
BHL	BZ	52	262	EP		15 6	28.47	-0.05							1.0
BHL	BN	52	262	ES		15 6	34.98	-0.03							1.0
RCY	SZ	64	214	EP		15 6	30.19	0.02							1.0
DQRL	SZ	67	244	EP		15 6	30.67	0.08							1.0

**April 18 2016 Hour: 15:10 55.1 Lat: 33.80N Lon: 35.77E Depth: 14 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
ZAHL	SZ	13	59	EP		1510	58.40	0.02							1.0
ZAHL	SN	13	59	ES		1511	0.77	-0.01							1.0
BHL	BZ	16	318	EP		1510	58.71	0.03	24						1.0
DQRL	SZ	21	241	EP		1510	59.35	0.03							1.0
DQRL	SN	21	241	ES		1511	2.38	-0.04							1.0
HWQ	SZ	56	17	EP		1511	4.30	-0.03							1.0

April 18 2016 Hour: 15:17 9.8 Lat: 33.76N Lon: 35.78E Depth: 14 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
ZAHL	SZ	15	42	EP		1517	13.36	0.07	48						1.0
ZAHL	SN	15	42	ES		1517	15.83	-0.02							1.0
BHL	BZ	20	325	EP		1517	13.73	-0.11							1.0
DQRL	SZ	20	253	EP		1517	13.94	0.06							1.0
DQRL	SN	20	253	ES		1517	16.88	0.01							1.0
RCY	SZ	30	169	EP		1517	15.18	-0.04							1.0
RCY	SN	30	169	ES		1517	19.19	-0.01							1.0
HWQ	SZ	60	15	EP		1517	19.65	0.03							1.0

April 18 2016 Hour: 23:28 23.7 Lat: 33.81N Lon: 35.82E Depth: 15 Agency: REL Local  
Magnitudes: 2.6MC 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	304	EP		2328	27.63	0.03	35						1.0
BHL	BN	18	304	ES		2328	30.46	-0.02							1.0
DQRL	SZ	26	243	EP		2328	28.52	-0.03							1.0
DQRL	SN	26	243	ES		2328	32.16	0.02							1.0
RCY	SZ	35	177	EP		2328	29.89	-0.00							1.0
RCY	SN	35	177	ES		2328	34.47	0.00							1.0
SHBL	BZ	52	188	EP		2328	32.35	0.00							1.0

April 19 2016 Hour: 14: 6 7.2 Lat: 33.45N Lon: 35.64E Depth: 0 Agency: REL Local  
Magnitudes: 2.3MC 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	12	19	EP		14 6	8.98	-0.09							1.0
SHBL	BZ	15	139	EP		14 6	9.48	-0.04							1.0
RCY	SZ	19	73	EP		14 6	10.29	0.07	23						1.0
RCY	SN	19	73	ES		14 6	12.49	-0.00							1.0
DQRL	SZ	29	347	EP		14 6	11.99	0.09							1.0
DQRL	SN	29	347	ES		14 6	15.38	-0.03							1.0

April 19 2016 Hour: 16:24 31.1 Lat: 33.87N Lon: 35.85E Depth: 2 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

BAABDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	4	112	EP		1624	31.88	-0.00	59						1.0
BHL	BZ	18	282	EP		1624	34.05	-0.04	65						1.0
DQRL	SZ	32	235	EP		1624	36.30	0.09							1.0
DQRL	SE	32	235	ES		1624	40.00	-0.00							1.0
RCY	SZ	42	182	EP		1624	37.89	0.09							1.0
RCY	SN	42	182	ES		1624	42.79	0.02							1.0
HWQ	BZ	46	11	EP		1624	38.53	0.00							1.0
SHBL	BZ	59	190	EP		1624	40.45	-0.12							1.0
SHBL	BN	59	190	ES		1624	47.55	-0.04							1.0

April 19 2016 Hour: 21:53 47.7 Lat: 33.49N Lon: 35.60E Depth: 16 Agency: REL Local  
Magnitudes: 2.4MC REL Rms: 0.0 secs

CHOUF REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	10	51	EP		2153	50.95	0.06	27						1.0
QRWL	SN	10	51	ES		2153	53.20	-0.03							1.0
DQRL	SZ	24	353	EP		2153	52.37	-0.06							1.0
DQRL	SN	24	353	ES		2153	55.93	0.03							1.0
BHL	BZ	46	6	EP		2153	55.50	-0.00							1.0



April 20 2016 Hour: 8:23 44.0 Lat: 33.42N Lon: 35.67E Depth: 2 Agency: REL Local  
Magnitudes: 2.3MC REL Rms: 0.0 secs

HASBAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	10	138	EP		823	45.76	0.01							1.0
QRWL	SZ	15	4	EP		823	46.39	-0.03							1.0
RCY	SZ	18	60	EP		823	46.91	-0.01	22						1.0
RCY	SE	18	60	ES		823	49.11	0.01							1.0
DQRL	SZ	34	344	EP		823	49.43	0.02							1.0
DQRL	SE	34	344	ES		823	53.44	0.01							1.0

April 20 2016 Hour: 10:24 47.7 Lat: 33.79N Lon: 35.78E Depth: 12 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		1024	51.20	-0.04	46						1.0
DQRL	SZ	22	245	EP		1024	51.86	0.07							1.0
DQRL	SN	22	245	ES		1024	54.81	-0.00							1.0
QRWL	SZ	28	199	EP		1024	52.68	-0.05							1.0
RCY	SZ	33	171	EP		1024	53.50	0.06							1.0
RCY	SN	33	171	ES		1024	57.72	0.02							1.0
SHBL	BZ	49	184	EP		1024	55.92	0.01							1.0
SHBL	BN	49	184	ES		1025	1.91	-0.07							1.0
HWQ	SZ	56	16	EP		1024	57.05	-0.01							1.0

April 20 2016 Hour: 12:21 36.3 Lat: 33.47N Lon: 35.65E Depth: 5 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	9	20	EP		1221	38.02	-0.01	32						1.0
QRWL	SN	9	20	ES		1221	39.31	0.00							1.0
SHBL	BZ	16	148	EP		1221	39.16	-0.00							1.0
SHBL	BN	16	148	ES		1221	41.28	0.00							1.0
RCY	SZ	18	82	EP		1221	39.33	0.00							1.0
DQRL	SZ	27	344	EP		1221	40.75	0.01							1.0

April 20 2016 Hour: 12:19 45.1 Agency: REL Distant  
EMSC OT=12:19:45.1 37.83N 141.60E 45Km M=5.8 NEAR EAST COAST HONSHU, JAPAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1231	53.96								
SHBL	BZ			EP		1231	55.71								

April 20 2016 Hour: 13:48 31.1 Lat: 33.41N Lon: 35.66E Depth: 4 Agency: REL Local  
Magnitudes: 2.8MC REL Rms: 0.0 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	10	133	EP		1348	32.97	0.03							1.0
SHBL	BE	10	133	ES		1348	34.32	-0.01							1.0
QRWL	SZ	15	7	EP		1348	33.58	-0.07							1.0
RCY	SZ	19	59	EP		1348	34.21	0.02	44						1.0
DQRL	SZ	34	345	EP		1348	36.56	-0.01							1.0
DQRL	SE	34	345	ES		1348	40.69	0.05							1.0
BHL	BZ	55	359	EP		1348	39.89	-0.03							0.2

April 20 2016 Hour: 15:3 43.2 Lat: 33.80N Lon: 35.79E Depth: 16 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	314	EP		15 3	47.10	0.00	37						1.0
DQRL	SZ	23	244	EP		15 3	47.72	-0.00							1.0
DQRL	SN	23	244	ES		15 3	51.07	0.00							1.0
RCY	SZ	34	172	EP		15 3	49.23	-0.00							1.0
RCY	SE	34	172	ES		15 3	53.69	-0.00							1.0

HWQ SZ 55 15 EP 15 3 52.39 0.01 1.0

April 21 2016 Hour: 3:1 6.0 Lat: 34.03N Lon: 36.19E Depth: 14 Agency: REL Local  
Magnitudes: 3.0MC REL Rms: 0.1 secs

BAALBECK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	34	236	EP		3	1	12.07	-0.01						1.0
ZAHL	SN	34	236	ES		3	1	16.59	0.02						1.0
HWQ	BZ	36	320	EP		3	1	12.24	-0.02						1.0
BHL	BZ	52	254	EP		3	1	14.68	0.07	54					1.0
BHL	BN	52	254	ES		3	1	20.94	-0.05						1.0
RCY	SZ	68	209	EP		3	1	16.88	-0.13						1.0
RCY	SN	68	209	ES		3	1	25.16	-0.00						1.0
DQRL	SZ	68	238	EP		3	1	17.00	0.00	53					1.0
QRWL	SZ	72	222	EP		3	1	17.59	0.08						1.0
SHBL	BZ	86	209	EP		3	1	19.78	0.04						1.0

April 21 2016 Hour: 13:14 36.4 Lat: 33.79N Lon: 35.77E 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	16	320	EP		1314		39.83	-0.04	38					1.0
BHL	BE	16	320	ES		1314		42.42	0.01						1.0
DQRL	SZ	21	243	EP		1314		40.43	-0.00						1.0
DQRL	SN	21	243	ES		1314		43.40	0.02						1.0
RCY	SZ	33	169	EP		1314		42.27	-0.01						1.0
HWQ	SZ	56	17	EP		1314		45.83	0.02						1.0

April 21 2016 Hour: 15:12 6.5 Lat: 33.79N Lon: 35.79E Depth: 2 Agency: REL Local  
Magnitudes: 2.6MC 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	315	EP		1512		9.38	-0.04	35					1.0
DQRL	SZ	23	245	EP		1512		10.16	0.00						1.0
DQRL	SN	23	245	ES		1512		12.90	0.02						1.0
RCY	SZ	33	173	EP		1512		11.80	-0.02						1.0
RCY	SN	33	173	ES		1512		15.78	0.01						1.0
SHBL	BZ	49	185	EP		1512		14.44	-0.01						1.0
HWQ	SZ	56	15	EP		1512		15.56	0.03						1.0

April 21 2016 Hour: 15:23 38.8 Lat: 33.79N Lon: 35.79E Depth: 9 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	18	315	EP		1523		42.08	-0.03						1.0
DQRL	SZ	23	246	EP		1523		42.74	-0.01	44					1.0
DQRL	SN	23	246	ES		1523		45.73	0.02						1.0
RCY	SZ	33	173	EP		1523		44.28	-0.01						1.0
RCY	SE	33	173	ES		1523		48.38	0.00						1.0
HWQ	SZ	56	15	EP		1523		47.97	0.02						1.0

April 22 2016 Hour: 15: 8 28.0 Lat: 33.79N Lon: 35.76E 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	16	323	EP		15	8	31.07	-0.05	38					1.0
DQRL	SZ	20	242	EP		15	8	31.62	0.00						1.0
DQRL	SN	20	242	ES		15	8	34.29	0.03						1.0
RCY	SZ	33	167	EP		15	8	33.62	-0.04						1.0
RCY	SE	33	167	ES		15	8	37.84	0.02						1.0
HWQ	SZ	57	18	EP		15	8	37.45	0.05						1.0

April 22 2016 Hour: 22:57 8.9 Lat: 33.80N Lon: 35.81E Depth: 4 Agency: REL Local  
Magnitudes: 2.6MC 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	308	EP		2257	12.02	0.04	33						1.0
BHL	BN	18	308	ES		2257	14.27	-0.00							1.0
DQRL	SZ	25	244	EP		2257	12.95	-0.04							1.0
RCY	SZ	34	176	EP		2257	14.42	-0.06							1.0
RCY	SN	34	176	ES		2257	18.63	0.01							1.0
SHBL	BZ	51	187	EP		2257	17.22	0.07							1.0
HWQ	SZ	54	13	EP		2257	17.65	-0.01							1.0

April 23 2016 Hour: 11:15 16.5 Lat: 33.47N Lon: 35.68E Depth: 0 Agency: REL Local  
Magnitudes: 2.8MC 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	1	EP		1115	17.74	-0.11	47						1.0
RCY	SZ	15	80	EP		1115	18.93	0.04							1.0
SHBL	BZ	15	157	EP		1115	18.96	-0.01							1.0
SHBL	BN	15	157	ES		1115	20.79	0.01							1.0
DQRL	SZ	28	338	EP		1115	21.01	0.03							1.0
DQRL	SN	28	338	ES		1115	24.33	0.04							1.0
BHL	BZ	48	357	EP		1115	24.25	0.02							0.2
HWQ	SZ	93	15	EP		1115	31.39	-0.05							0.2

April 23 2016 Hour: 19:32 20.1 Agency: REL Regional  
**EMSC OT=19:32:20.1 36.91N 36.62E 7Km M=3.8 TURKEY-SYRIA BORDER REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1933	4.86								
BHL	BZ			EP		1933	9.73								
DQRL	SZ			EP		1933	12.87								
RCY	SZ			EP		1933	15.68								
SHBL	BZ			EP		1933	17.60								

April 23 2016 Hour: 19:51 58.5 Agency: REL Regional  
**EMSC OT=19:51:58.5 36.90N 36.62E 7Km M=4.0 TURKEY-SYRIA BORDER REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1952	42.80								
BHL	BZ			EP		1952	47.61								
DQRL	SZ			EP		1952	51.33								
RCY	SZ			EP		1952	53.98								
SHBL	BZ			EP		1952	55.83								

April 23 2016 Hour: 23:11 6.4 Agency: REL Distant  
**EMSC OT=23:11:06.4 17.46S 172.50W 2Km M=5.4 TONGA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2331	0.87								
SHBL	BZ			EP		2331	2.28								

April 24 2016 Hour: 2:15 32.8 Lat: 33.81N Lon: 35.79E Depth: 0 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
ZAHL	SZ	10	60	EP		215	34.41	-0.03	24						1.0
ZAHL	SN	10	60	ES		215	35.66	0.02							1.0
BHL	BZ	16	308	EP		215	35.44	-0.00							1.0
BHL	BN	16	308	ES		215	37.39	-0.00							1.0
DQRL	SZ	24	240	EP		215	36.66	0.01							1.0
HWQ	SZ	54	15	EP		215	41.45	0.01							1.0

April 24 2016 Hour: 10:27 48.9 Lat: 33.82N Lon: 35.32E Depth: 23 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.0 secs

**OFFSHORE CENTRAL LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	27	119	EP		1027	54.48	-0.06							1.0
DQRL	SN	27	119	ES		1027	58.72	0.02							1.0
BHL	BZ	32	74	EP		1027	55.26	0.06							1.0
BHL	BE	32	74	ES		1027	59.84	-0.01							1.0
RCY	SZ	60	127	EP		1027	59.00	0.03	30						1.0
RCY	SN	60	127	ES		1028	6.41	-0.01							1.0
HWQ	SZ	77	49	EP		1028	1.31	-0.02							1.0

April 24 2016 Hour: 11:27 26.0 Lat: 33.53N Lon: 35.71E Depth: 0 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	3	312	EP		1127	26.52	-0.03	24						1.0
RCY	SZ	13	107	EP		1127	28.08	-0.02							1.0
RCY	SE	13	107	ES		1127	29.63	0.02							1.0
DQRL	SZ	23	327	EP		1127	29.86	0.06							1.0
DQRL	SN	23	327	ES		1127	32.57	0.00							1.0
BHL	BZ	42	353	EP		1127	32.76	-0.03							1.0

April 24 2016 Hour: 15:35 16.3 Lat: 33.97N Lon: 36.17E Depth: 0 Agency: REL Local  
Magnitudes: 2.9MC REL Rms: 0.0 secs

**BAALBECK REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	40	329	EP		1535	22.76	0.01	49						1.0
HWQ	BN	40	329	ES		1535	27.56	0.01							1.0
BHL	BZ	48	262	EP		1535	23.98	-0.10							1.0
RCY	SZ	61	211	EP		1535	26.10	0.00							1.0
RCY	SN	61	211	ES		1535	33.34	-0.03							1.0
DQRL	SZ	63	243	EP		1535	26.44	0.03							1.0
DQRL	SN	63	243	ES		1535	33.97	0.05							1.0
SHBL	BZ	79	210	EP		1535	29.12	0.04							1.0

April 24 2016 Hour: 15:26 14.5 Agency: REL Distant  
**EMSC OT=15:26:14.5 17.69S 178.41W 529Km M=5.1 FIJI REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1544	54.21								
SHBL	BZ			EP		1544	54.80								

April 24 2016 Hour: 22:24 34.4 Agency: REL Distant  
**EMSC OT=22:24:34.4 17.56S 173.06W 17Km M=5.7 TONGA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2244	18.95								
SHBL	BZ			EP		2244	19.13								

April 25 2016 Hour: 8: 2 45.7 Agency: REL Distant  
**EMSC OT=08:02:45.7 17.97S 178.43W 597Km M=5.4 FIJI REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		821	15.83								
BHL	BZ			EP		821	15.71								

April 26 2016 Hour: 11:51 32.4 Agency: REL Regional  
**EMSC OT=11:51:32.4 36.95N 37.03E 2Km M=3.8 TURKEY-SYRIA BORDER REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1152	20.09								
BHL	BZ			EP		1152	29.34								
DQRL	SZ			EP		1152	30.17								

April 26 2016 Hour: 14:13 36.4 Lat: 33.78N Lon: 35.78E Depth: 5 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.0 secs

**ALEY REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	13	49	EP		1413	38.85	0.03							1.0
ZAHL	SN	13	49	ES		1413	40.61	-0.02							1.0
BHL	BZ	18	321	EP		1413	39.46	-0.03	36						1.0
DQRL	SZ	21	247	EP		1413	39.94	0.02							1.0
DQRL	SN	21	247	ES		1413	42.55	0.02							1.0
QRWL	SZ	27	199	EP		1413	40.79	-0.10							1.0
QRWL	SN	27	199	ES		1413	44.25	0.02							1.0
RCY	SZ	32	170	EP		1413	41.68	0.04							1.0
HWQ	SZ	58	16	EP		1413	45.76	0.02							1.0

April 28 2016 Hour: 8:39 13.0 Lat: 33.51N Lon: 35.71E Depth: 6 Agency: REL Local  
Magnitudes: 2.4MC 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	5	330	EP		839	14.34	-0.07	26						1.0
QRWL	SN	5	330	ES		839	15.46	0.02							1.0
RCY	SZ	12	96	EP		839	15.27	0.02							1.0
RCY	SE	12	96	ES		839	16.90	-0.00							1.0
SHBL	BZ	18	170	EP		839	16.17	0.02							1.0
DQRL	SZ	26	329	EP		839	17.28	-0.02							1.0
DQRL	SN	26	329	ES		839	20.49	0.03							1.0

April 28 2016 Hour: 10:49 48.2 Lat: 33.53N Lon: 35.71E 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	3	311	EP		1049	48.62	-0.09	30						1.0
RCY	SZ	13	107	EP		1049	50.21	-0.05							1.0
RCY	SN	13	107	ES		1049	51.80	0.02							1.0
SHBL	BZ	21	170	EP		1049	51.57	0.05							1.0
DQRL	SZ	23	327	EP		1049	51.96	0.01							1.0
DQRL	SN	23	327	ES		1049	54.78	0.06							1.0

April 28 2016 Hour: 14:50 55.4 Lat: 33.84N Lon: 35.74E Depth: 38 Agency: REL Local  
Magnitudes: 2.7MC 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	11	310	EP		1451	1.59	0.11	41						1.0
DQRL	SZ	22	226	EP		1451	2.13	0.01							1.0
DQRL	SN	22	226	ES		1451	7.02	-0.07							1.0
RCY	SZ	39	167	EP		1451	3.75	0.01							1.0
RCY	SN	39	167	ES		1451	9.91	0.00							1.0
HWQ	SZ	52	21	EP		1451	5.05	-0.06							1.0

April 28 2016 Hour: 19:33 24.4 Agency: REL Distant

**EMSC OT=19:33:24.4 16.04S 167.48E 30Km M=7.0 VANUATU**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1952	40.41								
SHBL	BZ			EP		1952	40.96								

April 29 2016 Hour: 14:52 50.8 Lat: 33.79N Lon: 35.76E Depth: 11 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
ZAHL	SZ	14	56	EP		1452	53.77	0.00							1.0
BHL	BZ	16	321	EP		1452	54.02	-0.05	30						1.0
DQRL	SZ	20	242	EP		1452	54.63	0.04							1.0
DQRL	SN	20	242	ES		1452	57.43	0.00							1.0
RCY	SZ	33	168	EP		1452	56.44	-0.07							1.0

RCY	SN	33	168	ES		1453	0.80	0.03									1.0
HWQ	SZ	57	17	EP		1453	0.17	0.04									1.0

**April 29 2016 Hour: 23:36 28.9**

**Agency: REL Regional**

**EMSC OT=23:36:28.9 34.29N 26.56E 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		2338	16.17								
SHBL	BZ			EP		2338	18.46								
ZAHL	SZ			EP		2338	18.13								
RCY	SZ			EP		2338	18.92								
HWQ	SZ			EP		2338	19.36								

**April 30 2016 Hour: 12:16 30.4**

**Lat: 33.77N Lon: 35.78E Depth: 16 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
ZAHL	SZ	14	46	EP		1216	34.05	0.04							1.0
ZAHL	SN	14	46	ES		1216	36.68-0.00								1.0
BHL	BZ	19	322	EP		1216	34.39-0.11		45						1.0
DQRL	SZ	21	249	EP		1216	34.76	0.05							1.0
DQRL	SE	21	249	ES		1216	37.92	0.03							1.0
RCY	SZ	31	170	EP		1216	36.06-0.04								1.0
HWQ	SZ	58	15	EP		1216	40.06	0.04							1.0

# Epicentral Map of Lebanon

## April 2016

