

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

May

2016

Prepared by
The National Centre for Geophysical Research
Bhannes

*P.o.b. : 165432
Ashrafyeh Beirut 1100-2040*

*Tel : +9614-981885
Fax : +9614-981886
Email : geophys@cnrs.edu.lb*

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

May 1 2016 Hour: 1:42 54.3 Agency: REL Distant

EMSC OT=01:42:54.3 23.68S 179.28E 544Km M=5.4 FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ			EP		2	1	33.21							
BHL	BZ			EP		2	1	32.38							
DQRL	SZ			EP		2	1	33.55							
SHBL	BZ			EP		2	1	32.93							

May 1 2016 Hour: 8: 4 57.7 Lat: 33.47N Lon: 35.69E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

HASBAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	8	357	EP		8	4	58.93-0.09	33						1.0
RCY	SZ	14	79	EP		8	4	59.98	0.05						1.0
RCY	SN	14	79	ES		8	5	1.62	0.00						1.0
SHBL	BZ	15	159	EP		8	5	0.08	0.04						1.0
SHBL	BN	15	159	ES		8	5	1.78-0.03							1.0
DQRL	SZ	28	337	EP		8	5	2.25	0.05						1.0
DQRL	SN	28	337	ES		8	5	5.60	0.05						1.0
BHL	BZ	48	356	EP		8	5	5.32-0.09							1.0
HWQ	SZ	93	15	EP		8	5	12.61	0.02						1.0

May 1 2016 Hour: 10:42 22.7 Lat: 33.53N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

RACHAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	314	EP		1042	23.13-0.11								1.0
RCY	SZ	12	106	EP		1042	24.72	0.04							1.0
RCY	SN	12	106	ES		1042	26.13-0.03								1.0
DQRL	SZ	24	327	EP		1042	26.55	0.06	42						1.0
DQRL	SN	24	327	ES		1042	29.33	0.02							1.0
BHL	BZ	42	353	EP		1042	29.48-0.00								1.0
HWQ	SZ	86	15	EP		1042	36.59	0.01							1.0

May 1 2016 Hour: 10:50 24.5 Lat: 33.80N Lon: 35.77E Depth: 10 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	12	57	EP		1050	27.26-0.00								1.0
BHL	BZ	16	317	EP		1050	27.72	0.00	32						1.0
DQRL	SZ	21	242	EP		1050	28.37-0.04								1.0
DQRL	SN	21	242	ES		1050	31.33	0.02							1.0
RCY	SZ	34	170	EP		1050	30.32	0.04							1.0
RCY	SN	34	170	ES		1050	34.53-0.02								1.0
HWQ	SZ	56	17	EP		1050	33.69-0.00								1.0

May 1 2016 Hour: 12:17 49.1 Lat: 33.45N Lon: 35.59E Depth: 12 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

JEZZINE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	14	38	EP		1217	52.21-0.01		28						1.0
QRWL	SN	14	38	ES		1217	54.53-0.01								1.0
SHBL	BZ	18	127	EP		1217	52.77-0.00								1.0
SHBL	BN	18	127	ES		1217	55.51-0.00								1.0
RCY	SZ	24	77	EP		1217	53.50	0.01							1.0
DQRL	SZ	29	357	EP		1217	54.20	0.02							1.0

May 2 2016 Hour: 4:21 24.2 Agency: REL Distant
EMSC OT=04:21:24.2 5.13S 104.49E 118Km M=5.7 SUMATRA, INDONESIA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 432 56.77
 SHBL BZ EP 432 55.78

May 2 2016 Hour: 11: 1 12.5 Agency: REL Regional
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 RCY SZ EP 11 1 17.28
 DQRL SZ EP 11 1 22.58
 BHL BZ EP 11 1 24.96
 HWQ SZ EP 11 1 30.53

May 2 2016 Hour: 17:13 15.4 Lat: 34.46N Lon: 36.41E Depth: 4 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs
HERMEL REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ 47 245 EP 1713 23.01-0.08 41 1.0
 HWQ SN 47 245 ES 1713 28.83 0.08 1.0
 ZAHL SZ 82 216 EP 1713 28.68-0.07 1.0
 ZAHL SN 82 216 ES 1713 38.68 0.08 1.0
 BHL BZ 93 229 EP 1713 30.54 0.09 1.0
 BHL BE 93 229 ES 1713 41.41-0.16 1.0
 DQRL SZ 114 223 EP 1713 33.90 0.06 1.0

May 2 2016 Hour: 22:59 54.3 Lat: 33.80N Lon: 35.80E Depth: 8 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
 ZAHL SZ 11 50 EP 2259 56.59 0.00 1.0
 ZAHL SN 11 50 ES 2259 58.28 0.02 1.0
 BHL BZ 18 312 EP 2259 57.57 0.02 37 1.0
 BHL BN 18 312 ES 2259 59.94 0.01 1.0
 DQRL SZ 23 244 EP 2259 58.34-0.04 1.0
 SHBL BZ 50 186 EP 23 0 2.52-0.03 1.0
 HWQ SZ 55 14 EP 23 0 3.28-0.05 1.0

May 3 2016 Hour: 0: 0 52.2 Agency: REL Distant
EMSC OT=00:00:52.2 43.66N 147.53E 71Km M=5.7 KURIL ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EP 012 56.86
 ZAHL SZ EP 012 59.47
 BHL BZ EP 012 59.28
 RCY SZ EP 013 0.68
 DQRL SZ EP 013 1.48
 SHBL BZ EP 013 1.25

May 3 2016 Hour: 2:20 24.3 Lat: 33.52N Lon: 35.58E Depth: 5 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs
JEZZINE REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 QRWL SZ 10 72 EP 220 26.20 0.04 1.0
 DQRL SZ 21 358 EP 220 27.73-0.00 44 1.0
 DQRL SN 21 358 ES 220 30.29-0.01 1.0
 RCY SZ 24 96 EP 220 28.18-0.10 1.0
 RCY SN 24 96 ES 220 31.22-0.03 1.0
 SHBL BZ 25 141 EP 220 28.43 0.08 1.0
 BHL BZ 43 9 EP 220 31.12-0.18 1.0
 BHL BN 43 9 ES 220 36.57 0.06 1.0
 ZAHL SZ 47 37 EP 220 32.05 0.12 1.0
 HWQ SZ 91 22 EP 220 38.96 0.03 1.0

May 3 2016 Hour: 14:45 8.7 Lat: 33.87N Lon: 35.84E Depth: 0 Agency: REL Local
Magnitudes: 2.5MC 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	113	EP		1445	9.28	-0.09							1.0
BHL	BZ	18	281	EP		1445	11.47	-0.08	30						1.0
BHL	BN	18	281	ES		1445	13.69	0.01							1.0
DQRL	SZ	31	234	EP		1445	13.73	0.00							1.0
RCY	SZ	42	181	EP		1445	15.47	0.07							1.0
RCY	SN	42	181	ES		1445	20.39	0.01							1.0
HWQ	SZ	46	12	EP		1445	16.16	0.08							1.0

May 3 2016 Hour: 15:10 36.8 Lat: 33.78N Lon: 35.77E Depth: 3 Agency: REL Local
Magnitudes: 2.9MC 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	48	EP		1510	39.17	0.02							1.0
BHL	BZ	18	322	EP		1510	39.75	-0.04	54						1.0
BHL	BE	18	322	ES		1510	42.01	-0.02							1.0
DQRL	SZ	20	248	EP		1510	40.20	0.06							1.0
DQRL	SN	20	248	ES		1510	42.65	0.02							1.0
QRWL	SZ	27	199	EP		1510	41.09	-0.03							1.0
BEYL	SZ	28	293	EP		1510	41.33	-0.01							1.0
RCY	SZ	31	169	EP		1510	41.88	-0.02							1.0
RCY	SN	31	169	ES		1510	45.69	-0.00							1.0
SHBL	BZ	47	183	EP		1510	44.45	-0.00							1.0
HWQ	SZ	58	16	EP		1510	46.20	0.03							1.0

May 4 2016 Hour: 10:59 2.9 Lat: 33.56N Lon: 35.69E Depth: 7 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	2	189	EP		1059	4.26	-0.02	30						1.0
QRWL	SN	2	189	ES		1059	5.27	0.01							1.0
RCY	SZ	16	118	EP		1059	5.86	0.02							1.0
RCY	SN	16	118	ES		1059	7.98	-0.01							1.0
DQRL	SZ	19	326	EP		1059	6.30	0.00							1.0

May 4 2016 Hour: 14:17 38.8 Lat: 33.86N Lon: 35.84E Depth: 1 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.0 secs

Earthquake was felt

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	5	96	EP		1417	39.69	-0.01							1.0
BHL	BZ	18	285	EP		1417	41.69	-0.01	62						1.0
BHL	BN	18	285	ES		1417	43.87	0.06							1.0
DQRL	SZ	30	235	EP		1417	43.72	-0.01							1.0
DQRL	SE	30	235	ES		1417	47.27	-0.07							1.0
BEYL	SZ	32	272	EP		1417	44.00	0.02							1.0
QRWL	SZ	38	202	EP		1417	44.88	-0.06							1.0
RCY	SZ	41	180	EP		1417	45.49	0.09							1.0
RCY	SN	41	180	ES		1417	50.27	0.02							1.0
HWQ	SZ	47	12	EP		1417	46.44	-0.03							1.0

May 5 2016 Hour: 7:1 47.3 Agency: REL Distant
EMSC OT=07:01:47.3 13.72N 51.81E 10Km M=5.5 GULF OF ADEN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		7 7	9.64								
BHL	BZ			EP		7 7	15.22								

May 5 2016 Hour: 12:49 39.9 Lat: 33.47N 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	9	12	EP		1249	41.29	-0.06							1.0
SHBL	BZ	16	151	EP		1249	42.46	0.03							1.0
RCY	SZ	16	80	EP		1249	42.46	-0.10	34						1.0
RCY	SE	16	80	ES		1249	44.62	0.07							1.0
DQRL	SZ	27	342	EP		1249	44.35	0.03							1.0
DQRL	SN	27	342	ES		1249	47.64	0.03							1.0

May 5 2016 Hour: 15: 2 31.1 Lat: 33.82N Lon: 35.73E Depth: 24 Agency: REL Local
 Magnitudes: 2.4MC 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	12	323	EP		15 2	35.49	-0.02	26						1.0
DQRL	SZ	20	231	EP		15 2	36.10	0.00							1.0
DQRL	SN	20	231	ES		15 2	39.78	0.01							1.0
RCY	SZ	37	165	EP		15 2	38.07	-0.01							1.0
RCY	SE	37	165	ES		15 2	43.23	0.00							1.0
HWQ	SZ	55	21	EP		15 2	40.51	0.01							1.0

May 5 2016 Hour: 16:36 50.2 Lat: 33.63N Lon: 35.57E Depth: 10 Agency: REL Local
 Magnitudes: 2.7MC 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	8	360	EP		1636	52.39	0.01	40						1.0
DQRL	SN	8	360	ES		1636	53.99	-0.04							1.0
QRWL	SZ	14	133	EP		1636	53.00	-0.06							1.0
BEYL	SZ	27	345	EP		1636	55.16	0.30							0.2
RCY	SZ	29	122	EP		1636	55.29	0.09							1.0
RCY	SN	29	122	ES		1636	58.91	-0.02							1.0
BHL	BZ	31	15	EP		1636	55.50	0.04							1.0
BHL	BE	31	15	ES		1636	59.41	0.02							1.0
HWQ	SZ	79	26	EP		1637	3.01	-0.06							1.0

May 5 2016 Hour: 16:38 36.1 Lat: 33.62N Lon: 35.55E Depth: 9 Agency: REL Local
 Magnitudes: 2.5MC 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	9	13	EP		1638	38.41	0.06	32						1.0
DQRL	SN	9	13	ES		1638	39.99	-0.02							1.0
QRWL	SZ	15	123	EP		1638	39.01	-0.03							1.0
RCY	SZ	30	117	EP		1638	41.28	-0.01							1.0
RCY	SN	30	117	ES		1638	45.13	0.02							1.0
BHL	BZ	33	18	EP		1638	41.63	-0.02							1.0
ZAHL	SZ	41	50	EP		1638	42.92	0.01							1.0

May 5 2016 Hour: 20: 1 52.0 Agency: EL Regional

EMSC OT=20:01:52.0 35.49N 32.15E 40Km M=3.3 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		20 2	39.80								
DQRL	SZ			EP		20 2	40.90								
HWQ	SZ			EP		20 2	41.95								
ZAHL	SZ			EP		20 2	47.06								
SHBL	BZ			EP		20 2	45.26								
RCY	SZ			EP		20 2	44.98								

May 7 2016 Hour: 11:39 34.2 Lat: 33.48N Lon: 35.66E Depth: 8 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	15	EP		1139	36.15	0.00							1.0
SHBL	BZ	16	152	EP		1139	37.25	-0.04							1.0
SHBL	BN	16	152	ES		1139	39.59	0.04							1.0
RCY	SZ	16	83	EP		1139	37.25	-0.03	33						1.0
DQRL	SZ	27	342	EP		1139	38.71	-0.03							1.0
DQRL	SN	27	342	ES		1139	42.09	0.01							1.0
BHL	BZ	47	359	EP		1139	42.41	0.44							0.2
HWQ	SZ	93	17	EP		1139	49.45	0.23							0.2

May 7 2016 Hour: 13:59 0.9 Agency: REL Distant

EMSC OT=13:59:00.9 17.69S 178.55W 529Km M=5.3 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1417	40.23								
SHBL	BZ			EP		1417	40.76								

May 7 2016 Hour: 14:36 59.7 Lat: 34.05N Lon: 35.99E Depth: 56 Agency: REL Local
Magnitudes: 3.0MC 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	24	205	EP		1437	8.55	0.04							1.0
HWQ	SZ	26	350	EP		1437	8.66	0.05	56						1.0
HWQ	SN	26	350	ES		1437	15.14	-0.03							1.0
BHL	BZ	35	243	EP		1437	9.19	-0.03							1.0
DQRL	SZ	55	226	EP		1437	10.86	-0.01							1.0
DQRL	SN	55	226	ES		1437	19.13	0.02							1.0
RCY	SZ	63	193	EP		1437	11.72	-0.04							1.0

May 7 2016 Hour: 15: 8 47.8 Lat: 33.79N Lon: 35.75E Depth: 5 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	59	EP		15 8	50.46	0.08							1.0
ZAHL	SE	14	59	ES		15 8	52.24	-0.02							1.0
BHL	BZ	16	324	EP		15 8	50.52	-0.03	44						1.0
DQRL	SZ	20	241	EP		15 8	51.28	0.13							1.0
DQRL	SN	20	241	ES		15 8	53.55	-0.05							1.0
RCY	SZ	34	167	EP		15 8	53.28	-0.10							1.0
RCY	SN	34	167	ES		15 8	57.50	0.03							1.0
HWQ	SZ	57	18	EP		15 8	57.04	-0.02							1.0

May 8 2016 Hour: 6:40 13.5 Lat: 34.03N Lon: 36.15E Depth: 9 Agency: REL Local
Magnitudes: 2.4MC 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	31	232	EP		640	18.72	-0.04							1.0
HWQ	BZ	33	326	EP		640	19.08	-0.03	25						1.0
HWQ	BN	33	326	ES		640	23.30	0.03							1.0
BHL	BZ	48	253	EP		640	21.37	-0.00							1.0
DQRL	SZ	65	236	EP		640	24.11	0.09							0.2
RCY	SZ	66	206	EP		640	24.29	0.04							1.0
RCY	SN	66	206	ES		640	32.23	0.00							1.0

May 8 2016 Hour: 13:23 4.5 Lat: 33.45N Lon: 35.60E Depth: 9 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

JEZZINE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	13	36	EP		1323	7.22	-0.00	29						1.0
QRWL	SN	13	36	ES		1323	9.25	0.01							1.0
SHBL	BZ	18	131	EP		1323	7.85	-0.02							1.0

SHBL	BN	18	131	ES	1323	10.38	0.01										1.0
RCY	SZ	22	77	EP	1323	8.53	-0.02										1.0
DQRL	SZ	28	354	EP	1323	9.42	0.04										1.0
DQRL	SN	28	354	ES	1323	12.96	-0.03										1.0
ZAHL	SZ	52	30	EP	1323	13.12	0.01										1.0

May 8 2016 Hour: 16:41 31.2 Agency: REL Distant

EMSC OT=16:41:31.2 21.79S 179.40W 592Km M=5.5 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		17	0	7.53							
BHL	BZ			EP		17	0	8.60							
DQRL	SZ			EP		17	0	9.15							
SHBL	BZ			EP		17	0	9.21							

May 9 2016 Hour: 1:47 33.1 Lat: 33.64N Lon: 35.58E Depth: 15 Agency: REL Local
Magnitudes: 2.6MC 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	351	EP		147	35.96	0.07	33						1.0
DQRL	SN	7	351	ES		147	37.97	0.01							1.0
QRWL	SZ	14	139	EP		147	36.46	-0.05							1.0
BHL	BZ	30	13	EP		147	38.44	-0.07							1.0
SHBL	BZ	36	155	EP		147	39.43	-0.00							1.0
SHBL	BN	36	155	ES		147	44.15	0.03							1.0
ZAHL	SZ	37	50	EP		147	39.86	0.31							0.2

May 9 2016 Hour: 14:12 47.3 Lat: 33.44N Lon: 35.64E Depth: 0 Agency: REL Local
Magnitudes: 2.4MC 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	18	EP		1412	49.19	-0.12	28						1.0
QRWL	SN	12	18	ES		1412	50.82	0.04							1.0
SHBL	BZ	14	138	EP		1412	49.64	0.01							1.0
RCY	SZ	19	72	EP		1412	50.43	0.03							1.0
RCY	SN	19	72	ES		1412	52.67	-0.01							1.0
DQRL	SZ	30	347	EP		1412	52.19	0.04							1.0

May 9 2016 Hour: 22:47 45.5 Lat: 33.79N Lon: 35.79E Depth: 7 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	48	EP		2247	47.91	0.01							1.0
ZAHL	SN	11	48	ES		2247	49.63	-0.00							1.0
BHL	BZ	18	315	EP		2247	48.75	-0.06	39						1.0
BHL	BN	18	315	ES		2247	51.25	0.03							1.0
DQRL	SZ	23	246	EP		2247	49.48	0.01							1.0
DQRL	SN	23	246	ES		2247	52.36	-0.01							1.0
RCY	SZ	33	173	EP		2247	50.95	-0.07							1.0
SHBL	BZ	49	185	EP		2247	53.69	0.08							1.0

May 10 2016 Hour: 10:10 51.2 Lat: 33.47N Lon: 35.69E Depth: 0 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.1 secs

HASBAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	8	355	EP		1010	52.46	-0.09	32						1.0
RCY	SZ	14	80	EP		1010	53.49	0.03							1.0
SHBL	BZ	15	160	EP		1010	53.59	-0.04							1.0
SHBL	BN	15	160	ES		1010	55.46	0.04							1.0
DQRL	SZ	28	337	EP		1010	55.70	-0.03							1.0
DQRL	SN	28	337	ES		1010	59.15	0.08							1.0

May 10 2016 Hour: 14:15 24.2 Lat: 33.46N Lon: 35.64E 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	11	20	EP		1415	25.87	-0.10	29						1.0
SHBL	BZ	15	141	EP		1415	26.62	-0.03							1.0
SHBL	BN	15	141	ES		1415	28.49	0.02							1.0
RCY	SZ	19	76	EP		1415	27.27	0.06							1.0
DQRL	SZ	29	347	EP		1415	28.83	0.02							1.0
DQRL	SN	29	347	ES		1415	32.27	0.04							1.0

May 10 2016 Hour: 15: 5 16.1 Lat: 33.80N Lon: 35.78E Depth: 6 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	17	315	EP		15 5	19.09	0.02	30						1.0
DQRL	SZ	22	243	EP		15 5	19.89	0.01							1.0
DQRL	SN	22	243	ES		15 5	22.66	-0.01							1.0
RCY	SZ	34	172	EP		15 5	21.68	0.01							1.0
RCY	SN	34	172	ES		15 5	25.79	-0.00							1.0
HWQ	SZ	55	16	EP		15 5	25.11	-0.01							1.0

May 11 2016 Hour: 1:15 47.8 Agency: REL Distant
EMSC OT=01:15:47.8 32.06N 95.17E 10Km M=5.5 QINGHAI, CHINA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		124	34.87								
BHL	BZ			EP		124	37.01								
SHBL	BZ			EP		124	38.04								

May 11 2016 Hour: 2:49 15.0 Lat: 34.97N Lon: 37.14E Depth: 31 Agency: REL Regional
Magnitudes: 3.2MC 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	134	235	EP		249	35.06	0.10	66						1.0
HWQ	SN	134	235	ES		249	49.66	-0.05							1.0
BHL	BZ	181	229	EP		249	40.77	-0.01							1.0
DQRL	SZ	201	226	EP		249	43.28	-0.08							1.0
DQRL	SN	201	226	ES		250	4.37	0.05							1.0
SHBL	BZ	221	216	EP		249	45.88	-0.01							1.0
SHBL	BN	221	216	ES		250	8.72	0.00							1.0

May 11 2016 Hour: 14:45 24.2 Lat: 33.54N Lon: 36.42E Depth: 19 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	55	265	EP		1445	33.32	-0.05	47						1.0
RCY	SN	55	265	ES		1445	40.17	0.01							1.0
SHBL	BZ	67	251	EP		1445	35.14	0.04							1.0
DQRL	SZ	81	283	EP		1445	37.10	-0.06							1.0
DQRL	SN	81	283	ES		1445	46.75	-0.00							1.0
BHL	BZ	82	300	EP		1445	37.30	0.05							1.0

May 11 2016 Hour: 14:57 52.7 Lat: 33.82N Lon: 35.76E Depth: 20 Agency: REL Local
Magnitudes: 2.4MC 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	313	EP		1457	56.72	0.02	24						1.0
DQRL	SZ	22	235	EP		1457	57.44	-0.05							1.0
DQRL	SN	22	235	ES		1458	1.07	0.02							1.0
RCY	SZ	36	169	EP		1457	59.41	0.07							1.0
RCY	SN	36	169	ES		1458	4.22	-0.04							1.0
HWQ	SZ	54	18	EP		1458	1.40	-0.30							0.2

May 11 2016 Hour: 15:29 17.7 Lat: 33.79N Lon: 35.79E 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	315	EP		1529	21.03	-0.02	39						1.0
BHL	BN	17	315	ES		1529	23.55	-0.01							1.0
DQRL	SZ	22	244	EP		1529	21.67	-0.05							1.0
DQRL	SN	22	244	ES		1529	24.77	0.05							1.0
RCY	SZ	33	172	EP		1529	23.34	-0.01							1.0
HWQ	SZ	56	15	EP		1529	26.91	0.04							1.0

May 12 2016 Hour: 0:18 45.9 Lat: 34.94N Lon: 34.71E Depth:166 Agency: REL Regional
Magnitudes: 4.1MC REL Rms: 0.2 secs

CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	135	123	EP		019	13.02	-0.06	238						1.0
HWQ	SN	135	123	ES		019	33.27	0.11							1.0
BHL	BZ	144	143	EP		019	13.78	0.00							1.0
BHL	BE	144	143	ES		019	34.21	-0.16							1.0
DQRL	SZ	159	150	EP		019	15.00	0.05							1.0
DQRL	SN	159	150	ES		019	36.47	0.06							1.0
ZAHL	SZ	162	138	EP		019	15.33	0.07							1.0
RCY	SZ	191	147	EP		019	17.44	-0.47							1.0
SHBL	BZ	201	151	EP		019	19.24	0.40							1.0

May 12 2016 Hour: 1:31 39.8 Lat: 33.65N Lon: 35.60E Depth: 7 Agency: REL Local
Magnitudes: 2.6MC 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	336	EP		131	41.50	0.02	33						1.0
QRWL	SZ	13	146	EP		131	42.14	-0.13							1.0
QRWL	SN	13	146	ES		131	44.15	0.02							1.0
RCY	SZ	28	127	EP		131	44.37	-0.02							1.0
RCY	SN	28	127	ES		131	47.85	0.03							1.0
BHL	BZ	29	10	EP		131	44.58	-0.01							1.0
BHL	BN	29	10	ES		131	48.18	0.01							1.0
SHBL	BZ	36	158	EP		131	45.75	0.07							1.0

May 12 2016 Hour: 2:16 28.6 Agency: REL Regional
EMSC OT=02:16:28.6 35.09N 33.52E 5Km M=3.4 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		217	3.76								
SHBL	BZ			EP		217	9.90								

May 12 2016 Hour: 3:17 16.4 Agency: REL Distant
EMSC OT=03:17:16.4 24.66N 121.94E 10Km M=5.8 TAIWAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		328	48.11								
BHL	BZ			EP		328	49.97								
SHBL	BZ			EP		328	51.03								

May 12 2016 Hour: 10:53 0.1 Lat: 33.55N Lon: 35.72E 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	3	264	EP		1053	0.50	-0.11	38						1.0
RCY	SZ	13	118	EP		1053	2.08	-0.06							1.0
DQRL	SZ	22	322	EP		1053	3.62	0.01							1.0
DQRL	SE	22	322	ES		1053	6.27	0.05							1.0
SHBL	BZ	23	173	EP		1053	3.75	0.01							1.0
SHBL	BN	23	173	ES		1053	6.51	0.07							1.0
ZAHL	SZ	38	25	EP		1053	6.16	0.02							1.0
HWQ	SZ	83	15	EP		1053	13.63	0.09							0.2

May 12 2016 Hour: 15:12 21.3 Lat: 34.07N Lon: 35.66E Depth: 4 Agency: REL Local
Magnitudes: 2.9MC 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	18	181	EP		1512	24.23	-0.06	55						1.0
BHL	BN	18	181	ES		1512	26.55	0.02							1.0
HWQ	SZ	36	48	EP		1512	27.07	0.02							1.0
DQRL	SZ	41	191	EP		1512	27.95	0.05							1.0
RCY	SZ	65	165	EP		1512	31.79	-0.04							1.0
RCY	SN	65	165	ES		1512	39.68	0.02							1.0

May 12 2016 Hour: 15:21 30.2 Lat: 33.78N Lon: 35.79E Depth: 0 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	19	317	EP		1521	33.18	-0.05	45						1.0
DQRL	SZ	22	247	EP		1521	33.84	0.01							1.0
DQRL	SN	22	247	ES		1521	36.51	0.02							1.0
RCY	SZ	32	173	EP		1521	35.38	-0.04							1.0
RCY	SN	32	173	ES		1521	39.26	0.01							1.0
HWQ	SZ	57	15	EP		1521	39.44	0.05							1.0

May 12 2016 Hour: 22:44 54.5 Lat: 34.51N Lon: 34.36E Depth: 4 Agency: REL Regional
Magnitudes: 3.1MC REL Rms: 0.1 secs

CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	136	119	EP		2245	16.11	-0.05	64						1.0
DQRL	SZ	143	128	EP		2245	16.92	-0.13							1.0
DQRL	SN	143	128	ES		2245	33.67	-0.09							1.0
HWQ	BZ	148	100	EP		2245	17.69	-0.13							1.0
HWQ	BN	148	100	ES		2245	35.17	0.06							1.0
ZAHL	SZ	158	117	EP		2245	19.43	0.13							1.0
RCY	SZ	176	129	EP		2245	22.27	0.23							1.0
SHBL	BZ	181	135	EP		2245	22.64	-0.05							1.0
SHBL	BN	181	135	ES		2245	43.61	0.03							1.0

May 12 2016 Hour: 22:45 49.2 Agency: REL Regional
EMSC OT=22:45:49.2 34.99N 33.84E 35Km M=3.2 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2246	16.95								
BHL	BZ			EP		2246	15.34								
ZAHL	SZ			EP		2246	18.67								
RCY	SZ			EP		2246	21.51								
SHBL	BZ			EP		2246	22.26								

May 13 2016 Hour: 7:1 10.0 Agency: REL Distant
EMSC OT=07:01:10.0 30.61N 66.59E 10Km M=5.4 PAKISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		7 5	6.88								
BHL	BZ			EP		7 5	6.96								

May 13 2016 Hour: 10:12 28.4 Lat: 33.49N Lon: 35.62E Depth: 16 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.1 secs

JEZZINE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	9	42	EP		1012	31.59	0.14	32						1.0
SHBL	BZ	19	143	EP		1012	32.74	0.17							1.0
SHBL	BN	19	143	ES		1012	35.52	-0.14							1.0
RCY	SZ	20	87	EP		1012	32.62	-0.03							1.0
DQRL	SZ	25	349	EP		1012	33.01	-0.15							1.0
DQRL	SN	25	349	ES		1012	36.70	0.02							1.0

May 13 2016 Hour: 11:45 39.3 Lat: 33.43N Lon: 35.68E Depth: 8 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

HASBAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	11	146	EP		1145	41.69	0.06							1.0
QRWL	SZ	13	0	EP		1145	41.72	-0.22	36						1.0
RCY	SZ	16	62	EP		1145	42.37	-0.00							1.0
RCY	SN	16	62	ES		1145	44.69	0.03							1.0
DQRL	SZ	33	342	EP		1145	44.80	0.03							1.0
DQRL	SN	33	342	ES		1145	48.93	0.10							1.0

May 13 2016 Hour: 12:57 27.8 Agency: REL Distant

EMSC OT=12:57:27.8 25.55S 179.36E 514Km M=5.6 FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1316	14.88								
SHBL	BZ			EP		1316	15.22								

May 13 2016 Hour: 23:22 17.2 Agency: REL Regional

EMSC OT=23:22:17.2 35.48N 31.61E 10Km M=3.7 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2323	16.20								
BHL	BZ			EP		2323	16.33								
HWQ	SZ			EP		2323	17.77								
SHBL	BZ			EP		2323	19.12								
ZAHL	SZ			EP		2323	22.65								
RCY	SZ			EP		2323	19.23								

May 14 2016 Hour: 10:1 8.9 Lat: 33.43N Lon: 35.67E Depth: 4 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	11	145	EP		10 1	10.95	-0.02							1.0
SHBL	BN	11	145	ES		10 1	12.50	0.01							1.0
QRWL	SZ	13	3	EP		10 1	11.18	0.00	22						1.0
RCY	SZ	17	64	EP		10 1	11.77	-0.00							1.0
DQRL	SZ	32	342	EP		10 1	14.16	0.02							1.0
DQRL	SN	32	342	ES		10 1	17.99	-0.01							1.0

May 14 2016 Hour: 10:43 46.4 Lat: 33.54N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC 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	283	EP		1043	46.85	-0.05	46						1.0
RCY	SZ	13	114	EP		1043	48.44	-0.06							1.0
RCY	SE	13	114	ES		1043	50.04	0.01							1.0
SHBL	BZ	22	172	EP		1043	49.98	0.03							1.0
DQRL	SZ	22	324	EP		1043	50.17	0.13							1.0
DQRL	SN	22	324	ES		1043	52.64	-0.06							1.0
ZAHL	SZ	39	25	EP		1043	52.72	0.05							0.2

May 14 2016 Hour: 15:26 58.2 Lat: 33.82N Lon: 35.78E Depth: 21 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
ZAHL	SZ	10	68	EP		1527	2.10	-0.04							1.0
BHL	BZ	15	308	EP		1527	2.51	0.06	40						1.0
DQRL	SZ	24	237	EP		1527	3.26	-0.05							1.0
DQRL	SN	24	237	ES		1527	7.08	-0.01							1.0
RCY	SZ	37	172	EP		1527	4.94	-0.00							1.0
RCY	SN	37	172	ES		1527	9.97	0.03							1.0
HWQ	SZ	53	17	EP		1527	7.15	0.00							1.0

May 14 2016 Hour: 20:52 11.7 Agency: REL Distant
EMSC OT=20:52:11.7 6.90S 101.80E 10Km M=5.6 SUMATRA, INDONESIA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 SHBL BZ EP 21 3 50.17
 HWQ BZ EP 21 3 50.28
 BHL BZ EP 21 3 51.22

May 15 2016 Hour: 9: 2 7.2 Lat: 33.71N Lon: 36.85E Depth: 63 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs
SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	91	281	EP		9	2	22.55-0.03							1.0
RCY	SZ	97	256	EP		9	2	23.35 0.07	44						1.0
RCY	SN	97	256	ES		9	2	35.13-0.02							1.0
SHBL	BZ	110	249	EP		9	2	24.77-0.00							1.0
BHL	BZ	113	281	EP		9	2	25.04 0.03							1.0
BHL	BN	113	281	ES		9	2	38.16 0.01							1.0
DQRL	SZ	119	270	EP		9	2	25.60-0.07							1.0
DQRL	SN	119	270	ES		9	2	39.33 0.02							1.0

May 15 2016 Hour: 10:39 33.4 Lat: 33.52N Lon: 35.70E 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	3	333	EP		1039		33.83-0.13							1.0
RCY	SZ	13	102	EP		1039		35.43-0.08							1.0
RCY	SN	13	102	ES		1039		37.13 0.05							1.0
SHBL	BZ	20	168	EP		1039		36.60 0.03							1.0
DQRL	SZ	24	330	EP		1039		37.40 0.17	37						1.0
DQRL	SN	24	330	ES		1039		40.09 0.03							1.0
ZAHL	SZ	41	25	EP		1039		40.16 0.11							1.0
BHL	BZ	43	354	EP		1039		40.12-0.17							1.0

May 15 2016 Hour: 14:35 24.4 Lat: 34.66N Lon: 36.22E Depth: 3 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.0 secs
SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	49	211	EP		1435		32.34-0.09	71						1.0
HWQ	SN	49	211	ES		1435		38.35-0.00							1.0
ZAHL	SZ	94	199	EP		1435		39.69 0.03							1.0
BHL	BZ	99	212	EP		1435		40.46 0.07							1.0
DQRL	SZ	122	210	EP		1435		44.01 0.02							1.0
DQRL	SN	122	210	ES		1435		58.46-0.00							1.0
SHBL	BZ	152	197	EP		1435		48.46-0.03							1.0
SHBL	BN	152	197	ES		1436		6.29 0.00							1.0

May 16 2016 Hour: 9:14 30.6 Lat: 35.11N Lon: 38.60E Depth: 34 Agency: REL Regional
Magnitudes: 4.5MC REL Rms: 0.3 secs
SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	261	250	EP		915		6.12 0.05							1.0
HWQ	SZ	261	250	EP		915		6.32 0.25							1.0
HWQ	SE	261	250	ES		915		32.05-0.30							1.0
HWQ	BE	261	250	ES		915		32.17-0.18							1.0
ZAHL	SZ	286	242	EP		915		9.67 0.44							1.0
BHL	BZ	302	245	EP		915		11.38 0.14	355						1.0
BHL	BN	302	245	ES		915		41.42 0.09							1.0
RCY	SZ	312	236	EP		915		11.99-0.44							1.0
BEYL	SZ	317	245	EP		915		13.15 0.16							1.0
QRWL	SZ	320	238	EP		915		13.26-0.17							1.0
DQRL	SZ	320	242	EP		915		13.35-0.04							1.0
QRWL	SN	320	238	ES		915		45.44 0.28							1.0
SHBL	BZ	328	234	EP		915		14.13-0.38							1.0

SHBL BN 328 234 ES 915 47.12 0.10 1.0

May 17 2016 Hour: 10: 8 23.3 Lat: 33.48N Lon: 35.68E Depth: 2 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	8	1	EP		10	8	24.63-0.08							1.0
RCY	SZ	15	81	EP		10	8	25.78 0.03	42						1.0
SHBL	BZ	15	157	EP		10	8	25.78-0.10							1.0
SHBL	BN	15	157	ES		10	8	27.86 0.08							1.0
DQRL	SZ	27	338	EP		10	8	27.78 0.01							1.0
DQRL	SN	27	338	ES		10	8	31.12 0.05							1.0

May 18 2016 Hour: 13:32 5.5 Lat: 33.89N Lon: 35.86E Depth: 2 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	4	147	EP		1332		6.43-0.00							1.0
BHL	BZ	19	274	EP		1332		8.58-0.00	44						1.0
DQRL	SZ	34	232	EP		1332		10.94-0.00							1.0
DQRL	SN	34	232	ES		1332		15.00 0.00							1.0
HWQ	SZ	44	11	EP		1332		12.64 0.11							0.2
RCY	SZ	44	183	EP		1332		12.56-0.02							1.0
RCY	SN	44	183	ES		1332		17.85 0.01							1.0

May 19 2016 Hour: 8:55 22.5 Lat: 33.81N Lon: 35.76E Depth: 18 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
ZAHL	SZ	12	65	EP		855		26.23-0.02							1.0
BHL	BZ	14	316	EP		855		26.39-0.01							1.0
BHL	BN	14	316	ES		855		29.28 0.02							1.0
DQRL	SZ	21	237	EP		855		27.10-0.02	37						1.0
RCY	SZ	36	169	EP		855		28.97 0.00							1.0
RCY	SN	36	169	ES		855		33.75 0.01							1.0
HWQ	SZ	54	18	EP		855		31.84 0.23							0.2

May 21 2016 Hour: 1:12 52.7 Agency: REL Regional
EMSC OT=01:12:52.7 34.84N 34.34E 15Km M=3.0 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		113		17.06							
SHBL	BZ			EP		113		23.44							

May 21 2016 Hour: 10:30 25.8 Lat: 34.04N Lon: 35.71E Depth: 9 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

KESROUAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	199	EP		1030		28.82-0.02	44						1.0
BHL	BN	16	199	ES		1030		31.08-0.01							1.0
ZAHL	SZ	26	141	EP		1030		30.14-0.15							1.0
ZAHL	SN	26	141	ES		1030		33.69 0.08							1.0
HWQ	BZ	34	39	EP		1030		31.60 0.03							1.0
HWQ	BN	34	39	ES		1030		35.83 0.00							1.0
DQRL	SZ	39	199	EP		1030		32.41 0.07							1.0
RCY	SZ	61	169	EP		1030		35.86 0.01							1.0

May 22 2016 Hour: 4: 2 6.7 Lat: 35.19N Lon: 36.96E Depth: 5 Agency: REL Regional
Magnitudes: 3.5MC REL Rms: 0.3 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
NATI	SZ			EP		4	2	41.80							
HWQ	BZ	137	223	EP		4	2	28.36-0.09	106						1.0
HWQ	BN	137	223	ES		4	2	44.60 0.05							1.0
ZAHL	SZ	178	214	EP		4	2	34.15-0.19							1.0

BHL	BZ	186	220	EP		4	2	35.26-0.13									1.0
BHL	BN	186	220	ES		4	2	56.59-0.03									1.0
DQRL	SZ	208	218	EP		4	2	38.21 0.08									1.0
DQRL	SN	208	218	ES		4	3	1.44 0.05									1.0
RCY	SZ	215	209	EP		4	2	38.54-0.38									1.0
RCY	SN	215	209	ES		4	3	2.71-0.07									1.0
QRWL	SZ	217	213	EP		4	2	39.01-0.15									1.0
SHBL	BZ	233	209	EP		4	2	41.17-0.06									1.0

May 22 2016 Hour: 6:19 6.2 Lat: 36.23N Lon: 36.78E Depth: 0 Agency: REL Regional
Magnitudes: 3.9MC REL Rms: 0.2 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	230	200	EP		619	40.84-0.07		165						1.0
HWQ	BN	230	200	ES		620	6.25-0.35								1.0
ZAHL	SZ	276	198	EP		619	46.95 0.32								1.0
BHL	BZ	278	202	EP		619	47.02 0.14								1.0
BHL	BN	278	202	ES		620	17.09 0.09								1.0
BEYL	SZ	287	205	EP		619	48.47 0.56								0.2
DQRL	SZ	302	202	EP		619	49.73-0.05								1.0
RCY	SZ	316	196	EP		619	51.56-0.03								1.0
SHBL	BZ	334	197	EP		619	53.49-0.35								1.0
SHBL	BN	334	197	ES		620	29.36 0.25								1.0

May 22 2016 Hour: 9:40 6.6 Lat: 34.95N Lon: 38.83E Depth: 35 Agency: REL Regional
Magnitudes: 4.2MC REL Rms: 0.2 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	275	255	EP		940	43.89-0.05		221						1.0
HWQ	BN	275	255	ES		941	11.37-0.17								1.0
ZAHL	SZ	297	247	EP		940	46.61-0.04								1.0
BHL	BZ	314	249	EP		940	48.88 0.07								1.0
BHL	BE	314	249	ES		941	20.17 0.16								1.0
RCY	SZ	320	241	EP		940	49.77 0.26								1.0
BEYL	SZ	329	250	EP		940	51.15 0.57								0.2
DQRL	SZ	330	246	EP		940	50.94 0.15								1.0
DQRL	SE	330	246	ES		941	23.35-0.11								1.0
SHBL	BZ	336	239	EP		940	51.20-0.27								1.0
SHBL	BN	336	239	ES		941	24.63-0.02								1.0

May 22 2016 Hour: 14:44 46.3 Lat: 33.80N Lon: 35.77E Depth: 8 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	13	60	EP		1444	48.84-0.01								1.0
ZAHL	SN	13	60	ES		1444	50.75 0.00								1.0
BHL	BZ	15	318	EP		1444	49.17-0.02		31						1.0
BHL	BN	15	318	ES		1444	51.34 0.01								1.0
DQRL	SZ	21	240	EP		1444	49.98 0.01								1.0
HWQ	BZ	56	17	EP		1444	55.38 0.01								1.0

May 22 2016 Hour: 20:1 33.3 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		20	1	40.37							
BHL	BZ			EP		20	1	45.63							
DQRL	SZ			EP		20	1	48.36							

May 23 2016 Hour: 7:24 17.6 Lat: 33.87N Lon: 35.30E Depth: 26 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	31	126	EP		724	23.92-0.02		44						1.0
DQRL	SN	31	126	ES		724	28.76 0.10								1.0
BHL	BZ	33	83	EP		724	24.11-0.08								1.0

QRWL	SZ	50	135	EP	724	26.32	-0.07										1.0
QRWL	SN	50	135	ES	724	32.82	-0.10										1.0
RCY	SZ	65	130	EP	724	28.55	0.15										1.0
HWQ	BZ	75	53	EP	724	29.85	0.02										1.0

May 24 2016 Hour: 9:59 31.2 Lat: 33.95N Lon: 35.84E Depth: 12 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.0 secs

METN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	11	158	EP		959	33.96	-0.00	60						1.0
ZAHL	SN	11	158	ES		959	36.03	-0.01							1.0
BHL	BZ	18	255	EP		959	34.77	-0.02	58						1.0
BHL	BN	18	255	ES		959	37.47	-0.01							1.0
DQRL	SZ	37	223	EP		959	37.50	0.04							1.0
HWQ	BZ	38	15	EP		959	37.67	-0.01							1.0
HWQ	BN	38	15	ES		959	42.53	0.02							1.0
QRWL	SZ	47	199	EP		959	39.00	0.01							1.0
RCY	SZ	50	181	EP		959	39.44	-0.08							1.0
RCY	SN	50	181	ES		959	45.75	0.05							1.0

May 24 2016 Hour: 11:20 54.1 Lat: 33.41N Lon: 35.66E Depth: 8 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	130	EP		1120	56.30	-0.01							1.0
SHBL	BE	10	130	ES		1120	57.97	0.00							1.0
QRWL	SZ	16	6	EP		1120	57.01	-0.02	22						1.0
RCY	SZ	19	58	EP		1120	57.50	0.01							1.0
DQRL	SZ	34	345	EP		1120	59.82	0.01							1.0
DQRL	SN	34	345	ES		1121	4.08	0.01							1.0

May 25 2016 Hour: 8:36 14.0 Agency: REL Regional
EMSC OT=08:36:14.0 34.74N 26.20E 25Km M=5.4 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		838	5.57								
BHL	BZ			EP		838	3.11								
QRWL	SZ			EP		838	6.73								
HWQ	BZ			EP		838	8.17								
SHBL	BZ			EP		838	7.23								
RCY	SZ			EP		838	8.68								

May 25 2016 Hour: 15:9 16.2 Lat: 33.79N Lon: 35.78E Depth: 13 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	12	52	EP		15 9	19.25	0.07							1.0
ZAHL	SN	12	52	ES		15 9	21.39	-0.03							1.0
BHL	BZ	17	317	EP		15 9	19.73	-0.03	22						1.0
DQRL	SZ	22	245	EP		15 9	20.34	0.01							1.0
DQRL	SN	22	245	ES		15 9	23.43	0.01							1.0
RCY	SZ	33	171	EP		15 9	21.93	-0.02							1.0
HWQ	BZ	56	16	EP		15 9	25.50	-0.00							1.0

May 25 2016 Hour: 22:44 18.7 Lat: 33.78N Lon: 35.79E Depth: 3 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	47	EP		2244	20.82	-0.01							1.0
ZAHL	SN	12	47	ES		2244	22.43	-0.00							1.0
BHL	BZ	18	318	EP		2244	21.60	-0.14	37						1.0
BHL	BN	18	318	ES		2244	24.05	0.04							1.0
DQRL	SZ	22	247	EP		2244	22.25	-0.03							1.0
DQRL	SN	22	247	ES		2244	25.01	0.06							1.0
QRWL	SZ	28	201	EP		2244	23.18	-0.02							1.0

RCY	SZ	32	172	EP		2244	23.90	0.02										1.0
HWQ	BZ	57	15	EP		2244	27.99	0.09										1.0

May 26 2016 Hour: 9:59 3.1 Lat: 33.47N Lon: 35.68E Depth: 0 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	8	3	EP		959	4.35	-0.10	35						1.0
RCY	SZ	15	81	EP		959	5.53	-0.01							1.0
RCY	SE	15	81	ES		959	7.36	0.03							1.0
SHBL	BZ	15	156	EP		959	5.62	0.01							1.0
DQRL	SZ	28	339	EP		959	7.61	0.04							1.0
DQRL	SN	28	339	ES		959	10.90	0.04							1.0

May 26 2016 Hour: 10:19 12.2 Lat: 33.10N Lon: 35.77E Depth: 1 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ	28	355	EP		1019	16.75	0.07							1.0
SHBL	BN	28	355	ES		1019	19.99	-0.01							1.0
RCY	SZ	45	8	EP		1019	19.40	0.02	53						1.0
RCY	SN	45	8	ES		1019	24.71	0.01							1.0
QRWL	SZ	50	351	EP		1019	20.32	-0.00							1.0
DQRL	SZ	70	345	EP		1019	23.52	0.08	49						1.0
DQRL	SE	70	345	ES		1019	31.78	0.01							1.0
BHL	BZ	90	353	EP		1019	26.52	-0.18							1.0
HWQ	BZ	132	7	EP		1019	33.44	0.01							1.0

May 26 2016 Hour: 12:51 16.2 Lat: 33.85N Lon: 35.93E Depth: 37 Agency: REL Local
 Magnitudes: 2.3MC REL Rms: 0.0 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	4	274	EP		1251	22.04	-0.02							1.0
ZAHL	SE	4	274	ES		1251	26.43	0.02							1.0
BHL	BZ	26	282	EP		1251	23.15	-0.03	22						1.0
DQRL	SZ	37	244	EP		1251	24.25	0.03							1.0
RCY	SZ	41	192	EP		1251	24.66	0.02							1.0
RCY	SN	41	192	ES		1251	30.88	-0.02							1.0
HWQ	BZ	47	2	EP		1251	25.29	0.00							1.0

May 27 2016 Hour: 4: 8 41.9 Agency: REL Distant
 EMSC OT=04:08:41.9 20.77S 178.68W 545Km M=6.5 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		427	18.16								
BHL	BZ			EP		427	19.12								
SHBL	BZ			EP		427	19.42								

May 27 2016 Hour: 16:11 51.9 Lat: 33.81N Lon: 35.78E Depth: 17 Agency: REL Local
 Magnitudes: 2.4MC REL Rms: 0.0 secs

BAABDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	11	60	EP		1611	55.37	-0.01							1.0
BHL	BZ	16	313	EP		1611	55.80	0.01	27						1.0
DQRL	SZ	23	240	EP		1611	56.53	-0.01							1.0
DQRL	SN	23	240	ES		1611	59.94	-0.00							1.0
RCY	SZ	35	172	EP		1611	58.19	-0.02							1.0
RCY	SN	35	172	ES		1612	2.86	0.02							1.0
HWQ	BZ	54	16	EP		1612	1.09	0.10							0.2

May 27 2016 Hour: 18:14 48.6 Agency: REL Regional

EMSC OT=18:14:48.6 35.51N 27.72E 15Km M=3.8 DODECANESE GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		1816	27.12								
HWQ	BZ			EP		1816	27.77								
ZAHL	SZ			EP		1816	28.36								
RCY	SZ			EP		1816	29.15								

May 28 2016 Hour: 5:38 49.7 Agency: REL Distant

EMSC OT=05:38:49.7 21.98S 178.19W 399Km M=6.9 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		557	43.86								
BHL	BZ			EP		557	44.20								
SHBL	BZ			EP		557	44.97								

May 29 2016 Hour: 2:41 42.8 Lat: 33.90N Lon: 35.89E Depth: 5 Agency: REL Local

Magnitudes: 2.8MC REL

Rms: 0.1 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	5	184	EP		241	43.99	-0.07							1.0
ZAHL	SN	5	184	ES		241	45.04	0.03							1.0
BHL	BZ	22	271	EP		241	46.36	-0.06	43						1.0
BHL	BN	22	271	ES		241	49.16	0.04							1.0
DQRL	SZ	37	234	EP		241	48.71	-0.06							1.0
HWQ	BZ	42	7	EP		241	49.58	-0.08							1.0
HWQ	BN	42	7	ES		241	54.82	0.07							1.0
QRWL	SZ	44	206	EP		241	49.99	0.11							1.0
RCY	SZ	45	186	EP		241	50.15	0.02							1.0
RCY	SN	45	186	ES		241	55.53	-0.04							1.0
SHBL	BZ	63	192	EP		241	52.98	0.03							1.0

May 29 2016 Hour: 7:54 17.6 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		754	35.03								
DQRL	SZ			EP		754	38.53								
ZAHL	SZ			EP		754	41.02								
BHL	BZ			EP		754	41.31								
HWQ	BZ			EP		754	46.56								

May 29 2016 Hour: 12:45 37.9 Lat: 33.62N Lon: 35.45E Depth: 17 Agency: REL Local

Magnitudes: 3.1MC 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	15	47	EP		1245	41.77	0.07	71						1.0
DQRL	SE	15	47	ES		1245	44.49	0.02							1.0
QRWL	SZ	23	109	EP		1245	42.50	-0.05							1.0
QRWL	SN	23	109	ES		1245	45.94	-0.02							1.0
BEYL	SZ	29	7	EP		1245	43.27	0.00							1.0
BHL	BZ	37	30	EP		1245	44.34	-0.16							1.0
BHL	BN	37	30	ES		1245	49.33	-0.01							1.0
RCY	SZ	38	110	EP		1245	44.66	0.03							1.0
RCY	SN	38	110	ES		1245	49.55	-0.03							1.0
SHBL	BZ	40	138	EP		1245	44.93	-0.01							1.0
ZAHL	SZ	48	56	EP		1245	46.32	0.22							1.0
ZAHL	SN	48	56	ES		1245	52.11	-0.03							1.0
HWQ	BZ	87	32	EP		1245	51.65	-0.04							1.0

May 30 2016 Hour: 4:253.0 Agency: REL Regional

EMSC OT=04:02:53.0 37.17N 30.41E 104Km M=3.3 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		4	4	9.32							
ZAHL	SZ			EP		4	4	14.60							
RCY	SZ			EP		4	4	14.68							

May 30 2016 Hour: 7:1418.7 Agency: REL Distant

EMSC OT=07:14:18.7 30.24S 178.01W 50Km M=5.6 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	BZ			EP		734	0.17								
BHL	BZ			EP		734	0.11								

May 31 2016 Hour: 5:2347.0 Agency: REL Distant

EMSC OT=05:23:47.0 25.57N 122.51E 247Km M=6.3 TAIWAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		534	51.32								
BHL	BZ			EP		534	53.03								
SHBL	BZ			EP		534	54.64								

May 31 2016 Hour: 9:401.5 Lat: 33.47N Lon: 35.67E 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	8	EP		940	2.96	-0.01	25						1.0
SHBL	BZ	16	154	EP		940	4.12	-0.00							1.0
RCY	SZ	16	81	EP		940	4.12	0.00							1.0
SHBL	BN	16	154	ES		940	6.04	0.00							1.0
DQRL	SZ	27	340	EP		940	5.99	0.02							1.0
DQRL	SN	27	340	ES		940	9.25	-0.01							1.0

May 31 2016 Hour: 10:359.1 Agency: REL Distant

EMSC OT=10:03:59.1 47.57N 154.26E 10Km M=5.8 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1016	17.35								
BHL	BZ			EP		1016	18.68								
SHBL	BZ			EP		1016	21.07								

May 31 2016 Hour: 15:2713.4 Lat: 33.79N Lon: 35.78E 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	18	318	EP		1527	16.37	0.00	38						1.0
DQRL	SZ	22	245	EP		1527	17.01	0.00							1.0
DQRL	SN	22	245	ES		1527	19.64	-0.01							1.0
RCY	SZ	33	171	EP		1527	18.76	-0.00							1.0
RCY	SN	33	171	ES		1527	22.70	-0.00							1.0
HWQ	BZ	57	16	EP		1527	22.59	0.01							1.0

May 31 2016 Hour: 16:141.9 Lat: 33.78N Lon: 35.76E Depth: 7 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	14	54	EP		1614	4.58	-0.02							1.0
BHL	BZ	17	323	EP		1614	4.93	-0.02	39						1.0
DQRL	SZ	20	244	EP		1614	5.53	0.13							1.0
DQRL	SN	20	244	ES		1614	7.92	-0.04							1.0
QRWL	SZ	27	196	EP		1614	6.40	-0.12							1.0
RCY	SZ	33	168	EP		1614	7.38	0.00							1.0
RCY	SN	33	168	ES		1614	11.46	0.06							1.0
SHBL	BZ	48	182	EP		1614	9.85	-0.01							1.0
HWQ	BZ	57	17	EP		1614	11.32	0.02							1.0

May 31 2016 Hour: 16:55 8.1 Lat: 34.53N Lon: 36.54E Depth: 9 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	61	242	EP		1655	18.10	-0.06	51						1.0
HWQ	BN	61	242	ES		1655	25.61	0.03							1.0
BHL	BZ	107	230	EP		1655	25.22	0.05							1.0
BHL	BE	107	230	ES		1655	37.75	-0.03							1.0
DQRL	SZ	128	224	EP		1655	28.24	0.01							1.0
RCY	SZ	132	210	EP		1655	28.85	-0.00							1.0

Epicentral Map of Lebanon

MAY 2016

