

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

August

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

August 1 2015 Hour: 9:21 56.0 Lat: 33.36N Lon: 35.63E Depth: 5 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs

MARJAAYOUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	21	12	EP		921	59.46	-0.08	26						1.0
QRWL	SN	21	12	ES		922	2.21	0.02							1.0
RCY	SZ	24	51	EP		922	0.00	0.02							1.0
DQRL	SZ	39	351	EP		922	2.38	0.07							1.0
DQRL	SN	39	351	ES		922	7.00	-0.01							1.0
BHL	BZ	61	2	EP		922	5.74	-0.02							1.0

August 1 2015 Hour: 10:44 16.4 Lat: 33.80N Lon: 35.77E 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	16	317	EP		1044	20.21	-0.01	40						1.0
BHL	BN	16	317	ES		1044	23.03	0.00							1.0
DQRL	SZ	21	241	EP		1044	20.84	0.01							1.0
RCY	SZ	34	170	EP		1044	22.56	0.01							1.0
RCY	SN	34	170	ES		1044	27.07	-0.01							1.0

August 2 2015 Hour: 12:1 19.8 Lat: 33.80N Lon: 35.78E Depth: 15 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
BHL	BZ	16	315	EP		12 1	23.51	0.00							1.0
DQRL	SZ	22	241	EP		12 1	24.19	-0.00	45						1.0
DQRL	SN	22	241	ES		12 1	27.44	0.00							1.0
RCY	SZ	34	171	EP		12 1	25.92	0.00							1.0
RCY	SE	34	171	ES		12 1	30.44	-0.00							1.0

August 2 2015 Hour: 15:26 31.3 Lat: 33.82N Lon: 35.78E Depth: 21 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

BAABDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	310	EP		1526	35.57	-0.00							1.0
DQRL	SZ	23	238	EP		1526	36.35	0.00	44						1.0
DQRL	SN	23	238	ES		1526	40.09	-0.00							1.0
RCY	SZ	36	172	EP		1526	37.96	0.00							1.0
RCY	SE	36	172	ES		1526	42.89	-0.00							1.0

August 3 2015 Hour: 8:33 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		834	18.99								
RCY	SZ			EP		834	16.45								

August 3 2015 Hour: 10:33 12.6 Lat: 33.51N Lon: 35.70E Depth: 0 Agency: REL Local
Magnitudes: 2.2MC 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	4	341	EP		1033	13.23	-0.09	20						1.0
RCY	SZ	13	97	EP		1033	14.73	0.05							1.0
RCY	SN	13	97	ES		1033	16.21	-0.02							1.0
DQRL	SZ	25	331	EP		1033	16.59	0.01							1.0
DQRL	SN	25	331	ES		1033	19.59	0.05							1.0

August 3 2015 Hour: 11:34 44.6 Lat: 33.83N Lon: 35.75E Depth: 24 Agency: REL Local
Magnitudes: 2.6MC 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	13	313	EP		1134	49.11	-0.00	34						1.0
DQRL	SZ	22	232	EP		1134	49.87	-0.00							1.0
DQRL	SN	22	232	ES		1134	53.74	0.00							1.0

RCY	SZ	37	168	EP		1134	51.73	0.00										1.0
RCY	SE	37	168	ES		1134	56.96	-0.00										1.0

August 3 2015 Hour: 15:16 9.2 Lat: 33.78N Lon: 35.80E Depth: 2 Agency: REL Local
Magnitudes: 3.0MC 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	314	EP		1516	12.37	0.01	55						1.0
BHL	BN	19	314	ES		1516	14.67	-0.01							1.0
DQRL	SZ	23	248	EP		1516	13.02	-0.03	59						1.0
DQRL	SN	23	248	ES		1516	15.88	0.02							1.0
QRWL	SZ	29	203	EP		1516	13.88	-0.01							1.0
BEYL	SZ	30	288	EP		1516	14.15	0.01							1.0
RCY	SZ	32	175	EP		1516	14.46	0.01							1.0
HWQ	SZ	56	13	EP		1516	18.32	0.00							1.0

August 6 2015 Hour: 8:0 6.8 Lat: 33.29N Lon: 35.63E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

MARJAAYOUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	29	11	EP		8 0	11.24	-0.18	41						1.0
RCY	SZ	30	41	EP		8 0	11.79	0.18							1.0
RCY	SN	30	41	ES		8 0	15.11	-0.06							1.0
DQRL	SZ	46	354	EP		8 0	14.18	-0.03							1.0
DQRL	SN	46	354	ES		8 0	19.78	0.08							1.0
BHL	BZ	68	2	EP		8 0	17.77	0.04							1.0
HWQ	SZ	113	15	EP		8 0	25.02	-0.03							1.0

August 6 2015 Hour: 11:37 32.7 Lat: 33.49N 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	6	5	EP		1137	33.61	-0.18	29						1.0
QRWL	SE	6	5	ES		1137	34.58	0.01							1.0
RCY	SZ	15	87	EP		1137	35.19	0.06							1.0
RCY	SN	15	87	ES		1137	36.92	0.01							1.0
DQRL	SZ	26	338	EP		1137	36.93	0.01							1.0
DQRL	SN	26	338	ES		1137	40.11	0.09							1.0
HWQ	SZ	91	16	EP		1137	47.38	-0.03							0.2

August 6 2015 Hour: 16:10 24.6 Lat: 33.79N Lon: 35.78E Depth: 6 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	318	EP		1610	27.64	-0.03							1.0
DQRL	SZ	22	246	EP		1610	28.26	0.00	45						1.0
DQRL	SN	22	246	ES		1610	30.97	0.01							1.0
RCY	SZ	33	171	EP		1610	29.95	-0.03							1.0
RCY	SN	33	171	ES		1610	33.97	0.01							1.0
HWQ	SZ	57	16	EP		1610	33.85	0.03							1.0

August 6 2015 Hour: 16:20 29.6 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	17	319	EP		1620	32.42	-0.02	38						1.0
BHL	BE	17	319	ES		1620	34.55	-0.00							1.0
DQRL	SZ	21	245	EP		1620	33.12	0.06							1.0
QRWL	SZ	28	198	EP		1620	34.06	-0.08							1.0
RCY	SZ	33	170	EP		1620	34.94	0.03							1.0
RCY	SN	33	170	ES		1620	38.87	0.01							1.0
HWQ	SZ	57	16	EP		1620	38.76	0.01							1.0

August 6 2015 Hour: 23:59 41.5 Agency: REL Distant
EMSC OT=23:59:41.5 26.65S 178.14W 240Km M=5.9 SOUTH OF FIJI ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 018 57.48
 RCY SZ EP 018 58.31
 DQRL SZ EP 018 58.56
 QRWL SZ EP 018 58.31

August 9 2015 Hour: 16:36 57.3 Lat: 34.37N Lon: 36.65E Depth: 15 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 66 262 EP 1637 7.93-0.05 70 1.0
 BHL BZ 105 241 EP 1637 13.85 0.04 1.0
 RCY SZ 122 218 EP 1637 16.36-0.00 1.0
 RCY SN 122 218 ES 1637 30.40-0.04 1.0
 DQRL SZ 124 234 EP 1637 16.57 0.03 1.0
 DQRL SN 124 234 ES 1637 30.77 0.03 1.0

August 10 2015 Hour: 7:43 38.2 Agency: REL Distant
EMSC OT=07:43:38.2 19.65S 174.79W 60Km M=5.7 TONGA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 8 3 20.35
 DQRL SZ EP 8 3 21.15
 RCY SZ EP 8 3 21.34

August 10 2015 Hour: 10:36 31.0 Agency: REL Regional
EMSC OT=10:36:31.0 34.42N 32.16E 20Km M=3.7 CYPRUS REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 RCY SZ EP 1037 19.17
 HWQ SZ EP 1037 20.26

August 10 2015 Hour: 13:7 14.5 Lat: 33.03N Lon: 35.63E Depth: 1 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs
DEAD SEA REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 RCY SZ 55 20 EP 13 7 23.41-0.06 1.0
 RCY SN 55 20 ES 13 7 30.11 0.03 1.0
 QRWL SZ 58 4 EP 13 7 23.83-0.04 39 1.0
 DQRL SZ 75 356 EP 13 7 26.74 0.03 1.0
 DQRL SN 75 356 ES 13 7 35.68-0.03 1.0
 BHL BZ 97 1 EP 13 7 30.29 0.07 1.0
 HWQ SZ 142 12 EP 13 7 37.20-0.00 1.0

August 10 2015 Hour: 15:16 41.7 Lat: 33.79N Lon: 35.79E Depth: 12 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs
ZAHLE REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 17 315 EP 1516 45.30-0.03 38 1.0
 DQRL SZ 22 244 EP 1516 45.96-0.01 1.0
 DQRL SN 22 244 ES 1516 49.14 0.04 1.0
 QRWL SZ 29 199 EP 1516 46.83-0.08 1.0
 QRWL SE 29 199 ES 1516 50.73 0.00 1.0
 RCY SZ 33 172 EP 1516 47.63 0.05 1.0
 HWQ SZ 56 15 EP 1516 51.05 0.03 1.0

August 10 2015 Hour: 15:47 37.9 Lat: 33.79N Lon: 35.78E Depth: 5 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs
ALEY REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 17 319 EP 1547 40.88-0.02 30 1.0
 DQRL SZ 21 245 EP 1547 41.52 0.01 1.0
 DQRL SN 21 245 ES 1547 44.17 0.01 1.0

RCY	SZ	33	170	EP		1547	43.32	-0.02									1.0
RCY	SN	33	170	ES		1547	47.35	0.01									1.0
HWQ	SZ	57	16	EP		1547	47.13	0.01									1.0

August 11 2015 Hour: 16: 8 57.5 Lat: 34.02N Lon: 36.17E Depth: 44 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	SZ	35	324	EP		16	9	6.03	0.03	59					1.0
HWQ	SN	35	324	ES		16	9	12.27	0.01						1.0
BHL	BZ	50	255	EP		16	9	7.20	-0.18						1.0
BHL	BE	50	255	ES		16	9	14.68	0.02						1.0
DQRL	SZ	66	238	EP		16	9	9.29	0.13						1.0
RCY	SZ	66	208	EP		16	9	9.21	-0.01						1.0

August 11 2015 Hour: 16:10 7.2 Lat: 33.83N Lon: 35.65E Depth: 20 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	8	0	EP		1610	10.83	0.01	25						1.0
BHL	BE	8	0	ES		1610	13.45	-0.01							1.0
DQRL	SZ	16	208	EP		1610	11.47	0.00							1.0
RCY	SZ	41	156	EP		1610	14.53	-0.01							1.0
RCY	SE	41	156	ES		1610	19.95	0.01							1.0

August 12 2015 Hour: 16: 2 22.4 Lat: 33.79N Lon: 35.78E Depth: 10 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	317	EP		16	2	25.70	-0.01	44					1.0
BHL	BE	17	317	ES		16	2	28.16	-0.00						1.0
DQRL	SZ	22	245	EP		16	2	26.32	-0.01						1.0
DQRL	SN	22	245	ES		16	2	29.24	0.01						1.0
RCY	SZ	33	171	EP		16	2	28.02	0.00						1.0
HWQ	SZ	56	16	EP		16	2	31.65	0.01						1.0

August 14 2015 Hour: 5:45 11.7 Lat: 33.30N Lon: 35.57E Depth: 0 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
QRWL	SZ	29	21	EP		545	16.39	-0.04	29						1.0
QRWL	SN	29	21	ES		545	19.92	-0.01							1.0
RCY	SZ	33	49	EP		545	16.99	-0.02							1.0
DQRL	SZ	45	0	EP		545	18.88	-0.06							1.0
DQRL	SN	45	0	ES		545	24.32	0.01							1.0
BHL	BZ	67	7	EP		545	22.59	0.02							1.0
HWQ	SZ	114	18	EP		545	30.17	0.11							1.0

August 15 2015 Hour: 7:39 48.6 Agency: REL Regional

EMSC OT=07:39:48.6 31.29N 35.51E 11Km M=3.1 DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		740	25.28								
DQRL	SZ			EP		740	31.57								
BHL	BZ			EP		740	36.56								
HWQ	SZ			EP		740	37.59								

August 15 2015 Hour: 12: 7 3.3 Lat: 33.35N Lon: 35.63E Depth: 6 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

MARJAAYOUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	22	14	EP		12	7	7.00	-0.10	36					1.0
QRWL	SN	22	14	ES		12	7	9.89	-0.00						1.0
RCY	SZ	25	51	EP		12	7	7.63	0.04						1.0
DQRL	SZ	39	352	EP		12	7	9.82	0.02						1.0

DQRL	SN	39	352	ES		12	7	14.59	0.01									1.0
BHL	BZ	61	2	EP		12	7	13.31	0.05									1.0
HWQ	SZ	107	16	EP		12	7	20.48	-0.02									1.0

August 15 2015 Hour: 12:45 26.0 Lat: 33.49N Lon: 35.67E 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	6	6	EP		1245	26.91	-0.09	32						1.0
QRWL	SN	6	6	ES		1245	27.78	0.02							1.0
RCY	SZ	15	88	EP		1245	28.43	0.03							1.0
DQRL	SZ	26	338	EP		1245	30.15	0.03							1.0
DQRL	SN	26	338	ES		1245	33.21	0.02							1.0

August 16 2015 Hour: 5:24 13.2 Lat: 33.15N Lon: 36.85E Depth: 17 Agency: REL Regional
Magnitudes: 3.6MC 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	102	292	EP		524	29.10	-0.19							1.0
QRWL	SZ	118	292	EP		524	31.41	-0.10							1.0
DQRL	SZ	134	298	EP		524	34.02	0.05							1.0
DQRL	SE	134	298	ES		524	49.56	0.24							1.0
BHL	BZ	139	307	EP		524	34.65	-0.05	117						1.0
BHL	BE	139	307	ES		524	50.71	0.12							1.0
BEYL	SZ	149	303	EP		524	35.89	-0.23							1.0
HWQ	SZ	150	326	EP		524	36.37	0.01							1.0
HWQ	SE	150	326	ES		524	53.57	0.09							1.0

August 16 2015 Hour: 9:59 14.6 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		959	31.33								
DQRL	SZ			EP		959	36.34								
BHL	BZ			EP		959	39.24								

August 17 2015 Hour: 6:59 21.6 Lat: 33.87N Lon: 35.84E Depth: 7 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.1 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	282	EP		659	24.56	-0.12	49						1.0
DQRL	SZ	31	233	EP		659	26.78	0.02							1.0
DQRL	SN	31	233	ES		659	30.66	0.09							1.0
QRWL	SZ	39	202	EP		659	27.90	-0.11							1.0
QRWL	SN	39	202	ES		659	32.78	0.05							1.0
RCY	SZ	42	180	EP		659	28.47	-0.02							1.0
HWQ	SZ	46	13	EP		659	29.25	0.09							1.0

August 17 2015 Hour: 13: 5 24.0 Lat: 34.07N Lon: 35.58E Depth: 18 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	19	160	EP		13	5	28.33	0.04	47					1.0
BHL	BN	19	160	ES		13	5	31.46	-0.02						1.0
DQRL	SZ	40	182	EP		13	5	30.96	-0.02						1.0
HWQ	SZ	41	55	EP		13	5	31.08	-0.02						1.0
HWQ	SN	41	55	ES		13	5	36.39	0.01						1.0
RCY	SZ	67	160	EP		13	5	34.95	0.01						1.0

August 17 2015 Hour: 13:28 45.1 Lat: 33.10N Lon: 35.69E Depth: 26 Agency: REL Local
Magnitudes: 2.6MC 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	46	17	EP		1328	53.42	0.06							1.0
QRWL	SZ	49	359	EP		1328	53.71	-0.09	31						1.0
QRWL	SN	49	359	ES		1329	0.20	-0.04							1.0

DQRL	SZ	68	350	EP		1328	56.38	0.04									1.0
DQRL	SN	68	350	ES		1329	4.70	0.04									1.0
HWQ	SZ	132	10	EP		1329	5.21	-0.01									1.0

August 17 2015 Hour: 16:16 59.0 Agency: REL Distant

EMSC OT=16:16:59.0 13.65N 51.76E 10Km M=5.7 GULF OF ADEN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1622	19.74								
DQRL	SZ			EP		1622	22.66								
HWQ	SZ			EP		1622	22.66								
BHL	BZ			EP		1622	21.87								

August 18 2015 Hour: 15:17 40.6 Lat: 33.81N Lon: 35.78E Depth: 23 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	15	314	EP		1517	45.05	0.02	38						1.0
BHL	BN	15	314	ES		1517	48.32	0.00							1.0
DQRL	SZ	22	239	EP		1517	45.70	0.04							1.0
QRWL	SZ	30	197	EP		1517	46.50	-0.06							1.0
QRWL	SN	30	197	ES		1517	50.93	-0.06							1.0
RCY	SZ	35	171	EP		1517	47.31	0.09							1.0
HWQ	SZ	55	17	EP		1517	49.16	-0.66							0.2

August 18 2015 Hour: 15:39 18.7 Lat: 33.80N Lon: 35.77E Depth: 13 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	15	317	EP		1539	22.16	-0.01	34						1.0
BHL	BN	15	317	ES		1539	24.72	0.00							1.0
DQRL	SZ	21	239	EP		1539	22.91	0.01							1.0
RCY	SZ	35	169	EP		1539	24.81	-0.01							1.0
RCY	SE	35	169	ES		1539	29.34	0.01							1.0
HWQ	SZ	55	17	EP		1539	27.86	0.00							1.0

August 18 2015 Hour: 21:19 45.0 Lat: 35.63N Lon: 31.35E Depth: 46 Agency: REL Regional
Magnitudes: 4.9MC REL Rms: 0.3 secs

EASTERN MEDITERRANEAN SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	SZ	427	116	EP		2120	40.94	0.46							0.2
BHL	BZ	438	115	EP		2120	41.76	-0.21	494						1.0
BHL	BN	438	115	ES		2121	24.04	-0.07							1.0
DQRL	SZ	442	118	EP		2120	41.95	-0.47							1.0
DQRL	SN	442	118	ES		2121	24.96	0.07							1.0
HWQ	SZ	446	108	EP		2120	42.94	0.01							1.0
HWQ	SE	446	108	ES		2121	25.77	-0.00							1.0
QRWL	SZ	460	119	EP		2120	45.22	0.64							1.0
RCY	SZ	475	119	EP		2120	46.69	0.22							1.0

August 18 2015 Hour: 21:58 14.3 Agency: REL Regional

EMSC OT=21:58:14.3 35.47N 31.27E 60Km M=4.1 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2159	11.79								
DQRL	SZ			EP		2159	12.25								
HWQ	SZ			EP		2159	13.86								
QRWL	SZ			EP		2159	15.29								
RCY	SZ			EP		2159	17.02								

August 19 2015 Hour: 1:49 18.6 Lat: 33.54N Lon: 35.46E Depth: 9 Agency: REL Local
Magnitudes: 2.7MC 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	20	89	EP		149	22.18	-0.06	39						1.0
QRWL	SN	20	89	ES		149	24.96	0.00							1.0
DQRL	SZ	21	29	EP		149	22.32	0.05							1.0
DQRL	SE	21	29	ES		149	24.97	-0.04							1.0
RCY	SZ	35	99	EP		149	24.53	0.07							1.0
BHL	BZ	44	24	EP		149	25.89	0.08							1.0
BHL	BN	44	24	ES		149	31.14	-0.03							1.0
HWQ	SZ	93	29	EP		149	33.48	-0.04							1.0

August 19 2015 Hour: 8:35 24.4 Lat: 33.87N Lon: 35.83E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC 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	17	282	EP		835	27.08	0.06	54						1.0
BHL	BE	17	282	ES		835	28.86	-0.13							1.0
DQRL	SZ	30	232	EP		835	29.15	-0.08							1.0
DQRL	SN	30	232	ES		835	33.04	0.20							1.0
BEYL	SZ	31	270	EP		835	29.29	-0.06							1.0
RCY	SZ	42	179	EP		835	30.96	-0.13							1.0
RCY	SN	42	179	ES		835	36.04	-0.03							1.0
HWQ	SZ	46	14	EP		835	31.92	0.10							1.0

August 20 2015 Hour: 15: 1 23.3 Lat: 33.84N Lon: 35.79E Depth: 23 Agency: REL Local
Magnitudes: 2.8MC 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	14	298	EP		15 1	27.80	0.07	43						1.0
BHL	BN	14	298	ES		15 1	30.95	-0.02							1.0
DQRL	SZ	26	234	EP		15 1	28.78	-0.03							1.0
RCY	SZ	39	174	EP		15 1	30.47	0.01							1.0
RCY	SN	39	174	ES		15 1	35.72	-0.00							1.0
HWQ	SZ	50	16	EP		15 1	32.00	-0.02							1.0

August 20 2015 Hour: 15: 8 5.7 Lat: 33.80N Lon: 35.78E Depth: 16 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	317	EP		15 8	9.50	-0.01	40						1.0
BHL	BN	16	317	ES		15 8	12.35	-0.01							1.0
DQRL	SZ	22	242	EP		15 8	10.10	0.00							1.0
DQRL	SN	22	242	ES		15 8	13.38	0.00							1.0
RCY	SZ	34	170	EP		15 8	11.74	-0.00							1.0
HWQ	SZ	56	16	EP		15 8	14.90	0.02							1.0

August 20 2015 Hour: 20: 4 39.4 Lat: 33.77N Lon: 34.92E Depth: 29 Agency: REL Local
Magnitudes: 2.9MC 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	61	97	EP		20 4	49.84	0.05	48						1.0
DQRL	SN	61	97	ES		20 4	57.47	-0.02							1.0
BHL	BZ	69	78	EP		20 4	50.83	-0.17							1.0
BHL	BE	69	78	ES		20 4	59.65	0.04							1.0
QRWL	SZ	75	109	EP		20 4	51.83	0.09							1.0
RCY	SZ	90	110	EP		20 4	53.95	0.00							1.0
HWQ	SZ	110	59	EP		20 4	56.60	0.10							1.0
HWQ	SE	110	59	ES		20 5	9.13	-0.04							1.0

August 22 2015 Hour: 10:32 39.2 Lat: 33.53N Lon: 35.71E Depth: 0 Agency: REL Local
Magnitudes: 2.5MC REL Rms: 0.0 secs

RACHAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	3	317	EP		1032	39.71	-0.04	32						1.0
RCY	SZ	13	106	EP		1032	41.25	-0.03							1.0
RCY	SN	13	106	ES		1032	42.82	0.02							1.0
DQRL	SZ	23	328	EP		1032	43.09	0.09							1.0
DQRL	SN	23	328	ES		1032	45.78	-0.02							1.0
BHL	BZ	42	354	EP		1032	45.99	-0.02							1.0

August 22 2015 Hour: 13:23 7.0 Lat: 32.91N Lon: 35.92E Depth: 23 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	65	353	EP		1323	17.76	-0.04	48						1.0
RCY	SN	65	353	ES		1323	25.82	0.03							1.0
DQRL	SZ	94	340	EP		1323	21.94	0.04							1.0
DQRL	SN	94	340	ES		1323	32.89	-0.03							1.0
BHL	BZ	113	347	EP		1323	24.66	-0.00							1.0
HWQ	SZ	152	1	EP		1323	29.83	0.00							1.0

August 22 2015 Hour: 16:36 1.6 Lat: 33.78N Lon: 35.77E Depth: 4 Agency: REL Local
Magnitudes: 2.6MC 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	17	322	EP		1636	4.45	-0.08	35						1.0
DQRL	SZ	20	245	EP		1636	4.92	-0.11							1.0
DQRL	SN	20	245	ES		1636	7.64	0.11							1.0
RCY	SZ	32	169	EP		1636	6.98	0.03							1.0
RCY	SN	32	169	ES		1636	10.85	-0.03							1.0
HWQ	SZ	57	17	EP		1636	11.01	0.08							1.0

August 23 2015 Hour: 9:32 0.0 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		932	51.23								
RCY	SZ			EP		932	46.17								

August 24 2015 Hour: 9:41 26.8 Agency: REL Distant
EMSC OT=09:41:26.8 30.43S 179.00W 228Km M=6.0 KERMADEC ISLANDS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		10	0	51.17							
BHL	BZ			EP		10	0	51.86							
DQRL	SZ			EP		10	0	52.14							

August 24 2015 Hour: 14:9 21.2 Lat: 33.84N Lon: 35.75E Depth: 27 Agency: REL Local
Magnitudes: 2.5MC 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	308	EP		14	9	25.96	0.04	30					1.0
BHL	BE	12	308	ES		14	9	29.41	-0.02						1.0
DQRL	SZ	23	229	EP		14	9	26.78	0.00						1.0
RCY	SZ	39	169	EP		14	9	28.60	-0.04						1.0
RCY	SE	39	169	ES		14	9	34.20	0.02						1.0

August 24 2015 Hour: 16:9 14.5 Agency: REL Regional

EMSC OT=16:09:14.5 36.98N 30.66E 100Km M=4.2 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1610	27.85								
DQRL	SZ			EP		1610	28.79								
RCY	SZ			EP		1610	33.70								

August 25 2015 Hour: 2:51 28.0 Lat: 33.40N Lon: 36.62E Depth: 8 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	73	279	EP		251	39.92	0.01	50						1.0
RCY	SN	73	279	ES		251	48.74	-0.00							1.0
DQRL	SZ	103	289	EP		251	44.47	-0.02							1.0
DQRL	SN	103	289	ES		251	56.71	0.00							1.0
BHL	BZ	105	302	EP		251	44.86	0.02							1.0
HWQ	SZ	115	328	EP		251	46.33	-0.01							1.0

August 25 2015 Hour: 10:42 2.0 Lat: 33.79N Lon: 35.77E Depth: 1 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	320	EP		1042	4.69	-0.08	28						1.0
BHL	BN	17	320	ES		1042	6.85	0.03							1.0
DQRL	SZ	21	244	EP		1042	5.39	0.02							1.0
RCY	SZ	33	170	EP		1042	7.31	0.01							1.0
RCY	SN	33	170	ES		1042	11.20	-0.01							1.0
HWQ	SZ	57	16	EP		1042	11.20	0.02							1.0

August 26 2015 Hour: 12:56 45.9 Lat: 33.80N Lon: 35.78E Depth: 11 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	314	EP		1256	49.19	-0.01	32						1.0
BHL	BN	16	314	ES		1256	51.67	0.01							1.0
DQRL	SZ	22	241	EP		1256	50.00	-0.01							1.0
RCY	SZ	34	171	EP		1256	51.84	0.03							1.0
RCY	SN	34	171	ES		1256	56.20	-0.01							1.0
HWQ	SZ	55	16	EP		1256	54.96	-0.01							1.0

August 26 2015 Hour: 15:40 50.3 Lat: 34.04N Lon: 35.76E Depth: 35 Agency: REL Local
Magnitudes: 2.7MC 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	214	EP		1540	56.49	-0.00	38						1.0
HWQ	SZ	31	32	EP		1540	57.62	0.00							1.0
HWQ	SN	31	32	ES		1541	3.03	0.00							1.0
DQRL	SZ	41	206	EP		1540	58.74	0.10							0.2
RCY	SZ	61	174	EP		1541	1.00	-0.01							1.0
RCY	SN	61	174	ES		1541	8.93	0.00							1.0

August 26 2015 Hour: 23:1 44.6 Agency: REL Regional

EMSC OT=23:01:44.6 37.33N 36.93E 9Km M=4.2 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		23	2	35.35							
BHL	BZ			EP		23	2	41.39							
DQRL	SZ			EP		23	2	44.36							
RCY	SZ			EP		23	2	46.32							

August 27 2015 Hour: 0:25 9.2 Agency: REL Regional

EMSC OT=00:25:09.2 34.36N 25.53E 60Km M=4.6 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		027		5.85							
BHL	BZ			EP		027		5.21							
QRWL	SZ			EP		027		5.79							
RCY	SZ			EP		027		8.30							
HWQ	SZ			EP		027		8.75							

August 27 2015 Hour: 0:47 22.8 Agency: REL Regional

EMSC OT=00:47:22.8 34.35N 25.60E 40Km M=4.2 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		049	19.02								
BHL	BZ			EP		049	18.84								
QRWL	SZ			EP		049	19.47								
RCY	SZ			EP		049	21.65								
HWQ	SZ			EP		049	23.23								

August 28 2015 Hour: 8:57 22.5 Lat: 33.87N Lon: 35.85E Depth: 0 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.0 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	19	281	EP		857	25.51-0.04		40						1.0
BHL	BN	19	281	ES		857	27.77-0.02								1.0
DQRL	SZ	32	235	EP		857	27.78 0.07								1.0
DQRL	SN	32	235	ES		857	31.57 0.02								1.0
RCY	SZ	42	182	EP		857	29.23-0.04								1.0
RCY	SN	42	182	ES		857	34.26-0.01								1.0
HWQ	SZ	46	11	EP		857	29.91 0.02								1.0

August 28 2015 Hour: 15: 5 4.7 Lat: 33.79N Lon: 35.78E Depth: 0 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	318	EP		15 5	7.37-0.05		40						1.0
DQRL	SZ	21	243	EP		15 5	8.16 0.00								1.0
DQRL	SN	21	243	ES		15 5	10.74 0.02								1.0
RCY	SZ	33	171	EP		15 5	10.06-0.01								1.0
RCY	SN	33	171	ES		15 5	14.04-0.01								1.0
HWQ	SZ	56	16	EP		15 5	13.79 0.04								1.0

August 28 2015 Hour: 15:40 51.5 Lat: 33.78N Lon: 35.78E 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	320	EP		1540	54.38-0.09		43						1.0
BHL	BN	19	320	ES		1540	56.70 0.01								1.0
DQRL	SZ	21	248	EP		1540	54.98 0.06								1.0
DQRL	SN	21	248	ES		1540	57.48 0.01								1.0
BEYL	SZ	29	291	EP		1540	56.12-0.02								1.0
RCY	SZ	32	171	EP		1540	56.52-0.05								1.0
RCY	SN	32	171	ES		1541	0.34 0.01								1.0
HWQ	SZ	58	15	EP		1541	0.84 0.07								1.0

August 28 2015 Hour: 15:50 33.2 Lat: 33.79N Lon: 35.79E Depth: 5 Agency: REL Local

Magnitudes: 2.5MC REL

Rms: 0.0 secs

ALEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	18	317	EP		1550	36.28-0.02		31						1.0
BHL	BN	18	317	ES		1550	38.59 0.01								1.0
DQRL	SZ	22	246	EP		1550	36.95 0.02								1.0
DQRL	SN	22	246	ES		1550	39.67-0.01								1.0
RCY	SZ	33	172	EP		1550	38.61-0.00								1.0
HWQ	SZ	56	15	EP		1550	42.40 0.00								1.0

August 29 2015 Hour: 4:55 31.5 Agency: REL Regional

EMSC OT=04:55:31.5 34.34N 26.08E 10Km M=3.9 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		457	29.22								
DQRL	SZ			EP		457	30.18								
HWQ	SZ			EP		457	31.02								

August 29 2015 Hour: 12:57 57.2 Lat: 33.87N Lon: 35.82E Depth: 7 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

BAABDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	285	EP		1258	0.14	0.01	44						1.0
BHL	BN	16	285	ES		1258	2.29	-0.01							1.0
DQRL	SZ	30	233	EP		1258	2.16	0.01							1.0
RCY	SZ	41	178	EP		1258	3.95	-0.04							1.0
RCY	SN	41	178	ES		1258	9.03	0.02							1.0
HWQ	SZ	47	14	EP		1258	4.90	0.01							1.0

August 29 2015 Hour: 18:12 50.5 Agency: REL Regional
EMSC OT=18:12:50.5 36.31N 27.71E 83Km M=4.0 DODECANESE IS.-TURKEY BORDER REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1814	27.34								
DQRL	SZ			EP		1814	28.70								
HWQ	SZ			EP		1814	29.22								
RCY	SZ			EP		1814	31.00								

August 30 2015 Hour: 2: 4 53.9 Lat: 34.98N Lon: 36.99E Depth: 9 Agency: REL Regional
Magnitudes: 3.0MC REL Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	123	231	EP		2 5	13.36	0.04	53						1.0
HWQ	SN	123	231	ES		2 5	27.68	-0.03							1.0
BHL	BZ	171	226	EP		2 5	20.15	-0.16							1.0
DQRL	SZ	192	223	EP		2 5	23.09	0.14							1.0
DQRL	SN	192	223	ES		2 5	44.50	0.03							1.0
RCY	SZ	196	213	EP		2 5	23.35	-0.07							1.0
RCY	SN	196	213	ES		2 5	45.27	-0.01							1.0
QRWL	SZ	199	218	EP		2 5	23.85	0.05							1.0

August 30 2015 Hour: 10:58 10.3 Agency: REL Regional
EMSC OT=10:58:10.3 35.75N 32.20E 60Km M=3.7 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1058	58.83								
DQRL	SZ			EP		1058	59.74								
HWQ	SZ			EP		1059	0.35								
QRWL	SZ			EP		1059	2.93								
RCY	SZ			EP		1059	4.79								

August 31 2015 Hour: 6: 2 45.7 Agency: REL Regional
EMSC OT=06:02:45.7 37.34N 30.68E 40Km M=4.0 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		6 3	59.10								
RCY	SZ			EP		6 4	5.21								

Epicentral Map of Lebanon

August 2015

