

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

May

2018

Prepared by
The National Centre for Geophysical Research
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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
BEIL	3432.50N	3611.08E	572	BEINO	Opened Jan 2017

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.

May 1 2018 Hour: 16:23 8.5 Lat: 33.78N Lon: 35.77E Depth: 7 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	53	EP		1623	11.11	-0.00							1.0
BHL	BZ	17	322	EP		1623	11.51	-0.02	59						1.0
BHL	BN	17	322	ES		1623	13.78	-0.01							1.0
DQRL	SZ	20	245	EP		1623	12.09	0.10							1.0
BEYL	SZ	27	291	EP		1623	13.00	-0.01							1.0
QRWL	SZ	27	197	EP		1623	12.98	-0.10							1.0
RCY	SZ	33	168	EP		1623	13.87	-0.04							1.0
RCY	SN	33	168	ES		1623	17.97	0.05							1.0
HWQ	BZ	57	17	EP		1623	17.75	-0.08							1.0
BEIL	SZ	93	25	EP		1623	23.56	0.10							1.0

May 1 2018 Hour: 19:47 53.7 Agency: REL Distant

EMSC OT=19:47:53.7 18.03S 177.96W 588Km M=5.9 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		20 6	24.00								
BHL	BZ			EP		20 6	23.18								
ZAHL	SZ			EP		20 6	26.75								
DQRL	SZ			EP		20 6	26.17								
BEIL	SZ			EP		20 6	26.22								
QRWL	SZ			EP		20 6	26.93								
FKH	SZ			EP		20 6	26.12								
RCY	SZ			EP		20 6	26.93								
SHBL	SZ			EP		20 6	27.55								

May 1 2018 Hour: 19:56 56.6 Agency: REL Distant

EMSC OT=19:56:56.6 17.98S 177.88W 581Km M=4.7 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2015	31.55								
HWQ	BZ			EP		2015	32.02								
ZAHL	SZ			EP		2015	32.83								
BHL	BZ			EP		2015	33.24								
RCY	SZ			EP		2015	33.15								
DQRL	SZ			EP		2015	33.79								
QRWL	SZ			EP		2015	33.56								

May 2 2018 Hour: 4: 8 13.6 Agency: REL Distant

EMSC OT=04:08:13.6 30.82N 51.49E 10Km M=5.3 SOUTHERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		411	20.03								
BEIL	SZ			EP		411	22.82								
ZAHL	SZ			EP		411	26.89								
HWQ	BZ			EP		411	26.55								
RCY	SZ			EP		411	24.88								
BHL	BZ			EP		411	29.04								
DQRL	SZ			EP		411	28.76								

May 2 2018 Hour: 12:28 6.7 Lat: 33.37N Lon: 35.62E Depth: 0 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.0 secs

MARJAAYOUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	21	16	EP		1228	9.97	-0.01							1.0
RCY	SZ	24	55	EP		1228	10.58	-0.01	39						1.0
RCY	SN	24	55	ES		1228	13.48	-0.02							1.0
DQRL	SZ	38	353	EP		1228	12.68	-0.05							1.0
DQRL	SN	38	353	ES		1228	17.22	0.00							1.0
BHL	BZ	59	3	EP		1228	16.12	-0.12							0.2
ZAHL	SZ	59	24	EP		1228	16.21	-0.04							0.2
HWQ	BZ	105	16	EP		1228	23.68	0.06							1.0
BEIL	SZ	140	22	EP		1228	29.18	0.03							1.0

May 2 2018 Hour: 21:16 7.7

Agency: REL Regional

EMSC OT=21:16:07.7 35.73N 28.40E 71Km M=4.4 EASTERN MEDITERRANEAN SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2117	34.33								
DQRL	SZ			EP		2117	35.44								
HWQ	BZ			EP		2117	37.13								
QRWL	SZ			EP		2117	37.97								
ZAHL	SZ			EP		2117	37.96								
BEIL	SZ			EP		2117	38.54								
SHBL	SZ			EP		2117	39.38								
RCY	SZ			EP		2117	39.82								
FKH	SZ			EP		2117	42.76								

May 3 2018 Hour: 1:55 20.0

Lat: 33.81N Lon: 35.78E Depth: 18 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
ZAHL	SZ	11	65	EP		155	23.47	-0.06							1.0
BHL	BZ	15	311	EP		155	23.89	0.03	34						1.0
BHL	BN	15	311	ES		155	26.74	0.04							1.0
DQRL	SZ	23	238	EP		155	24.67	-0.03							1.0
DQRL	SN	23	238	ES		155	28.13	-0.04							1.0
RCY	SZ	36	171	EP		155	26.49	0.05							1.0
RCY	SN	36	171	ES		155	31.22	0.02							1.0
HWQ	BZ	54	17	EP		155	28.99	0.03							1.0
BEIL	SZ	89	25	EP		155	34.04	-0.03							1.0

May 3 2018 Hour: 16:47 28.5

Lat: 33.78N Lon: 35.76E Depth: 8 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	15	55	EP		1647	31.39	0.01							1.0
BHL	BZ	17	325	EP		1647	31.60	-0.01	42						1.0
BHL	BN	17	325	ES		1647	33.87	-0.03							1.0
DQRL	SZ	19	244	EP		1647	32.02	0.05							1.0
QRWL	SZ	27	195	EP		1647	33.09	-0.02							1.0
QRWL	SE	27	195	ES		1647	36.51	0.00							1.0
RCY	SZ	33	167	EP		1647	33.98	-0.02							1.0
HWQ	BZ	58	18	EP		1647	38.02	0.04							1.0
BEIL	SZ	93	25	EP		1647	43.50	-0.02							1.0

May 3 2018 Hour: 17:28 54.7

Lat: 33.78N Lon: 35.76E 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
ZAHL	SZ	14	55	EP		1728	57.00	-0.02							1.0
BHL	BZ	16	324	EP		1728	57.35	-0.02	37						1.0
DQRL	SZ	20	243	EP		1728	57.91	0.02							1.0
RCY	SZ	33	167	EP		1729	0.02	0.00							1.0
SHBL	SZ	49	182	EP		1729	2.49	-0.05							1.0
SHBL	SN	49	182	ES		1729	8.37	0.04							1.0
HWQ	BZ	57	18	EP		1729	3.95	-0.02							1.0
HWQ	BN	57	18	ES		1729	10.85	0.03							1.0
BEIL	SZ	93	25	EP		1729	9.70	0.03							1.0

May 3 2018 Hour: 19:24 45.3

Lat: 33.67N Lon: 35.84E 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
RCY	SZ	19	180	EP		1924	48.69	-0.03	61						1.0
RCY	SN	19	180	ES		1924	51.28	0.01							1.0
QRWL	SZ	20	226	EP		1924	48.75	-0.02							1.0
ZAHL	SZ	21	12	EP		1924	49.06	0.08							1.0

ZAHL	SN	21	12	ES		1924	51.71	-0.00								1.0
DQRL	SZ	25	279	EP		1924	49.59	0.04								1.0
BHL	BZ	31	327	EP		1924	50.33	-0.12								1.0
BHL	BN	31	327	ES		1924	54.30	0.02								1.0
SHBL	SZ	37	194	EP		1924	51.31	-0.09								1.0
HWQ	BZ	68	8	EP		1924	56.35	0.00								1.0
FKH	SZ	83	40	EP		1924	58.71	0.00								1.0
BEIL	SZ	102	18	EP		1925	1.63	-0.01								1.0

May 3 2018 Hour: 19:38 20.9 Lat: 33.67N Lon: 35.86E Depth: 14 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
RCY	SZ	19	187	EP		1938	24.86	-0.06	23						1.0
RCY	SN	19	187	ES		1938	27.88	0.01							1.0
ZAHL	SZ	22	7	EP		1938	25.30	0.05							1.0
DQRL	SZ	27	280	EP		1938	25.89	-0.09							1.0
DQRL	SN	27	280	ES		1938	29.76	0.05							1.0
BHL	BZ	33	325	EP		1938	26.73	-0.02							1.0
SHBL	SZ	37	197	EP		1938	27.44	0.07							1.0

May 3 2018 Hour: 23:37 27.0 Lat: 33.81N Lon: 35.81E Depth: 10 Agency: REL Local
Magnitudes: 2.4MC 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	9	52	EP		2337	29.32	-0.05							1.0
ZAHL	SN	9	52	ES		2337	31.18	0.03							1.0
BHL	BZ	18	307	EP		2337	30.34	-0.03	25						1.0
DQRL	SZ	25	243	EP		2337	31.40	0.05							1.0
DQRL	SE	25	243	ES		2337	34.61	0.00							1.0
QRWL	SZ	31	202	EP		2337	32.25	-0.05							1.0
RCY	SZ	35	176	EP		2337	32.89	0.03							1.0
HWQ	BZ	54	14	EP		2337	35.85	0.02							1.0

May 4 2018 Hour: 11:35 5.6 Lat: 33.79N Lon: 35.77E Depth: 6 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	53	EP		1135	8.08	0.03							1.0
ZAHL	SN	13	53	ES		1135	9.89	-0.00							1.0
BHL	BZ	17	321	EP		1135	8.47	-0.08	36						1.0
DQRL	SZ	21	244	EP		1135	9.13	0.04							1.0
DQRL	SN	21	244	ES		1135	11.72	0.02							1.0
RCY	SZ	33	169	EP		1135	10.95	-0.04							1.0
HWQ	BZ	57	17	EP		1135	14.86	0.03							1.0

May 4 2018 Hour: 13:34 13.5 Lat: 33.36N Lon: 35.65E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC 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	21	9	EP		1334	16.81	0.01							1.0
RCY	SZ	23	50	EP		1334	17.07	-0.09	38						1.0
RCY	SN	23	50	ES		1334	19.93	0.03							1.0
DQRL	SZ	39	349	EP		1334	19.78	0.08							1.0
DQRL	SN	39	349	ES		1334	24.28	-0.03							1.0
ZAHL	SZ	59	22	EP		1334	23.06	0.06							1.0
BHL	BZ	60	1	EP		1334	23.05	-0.09							1.0
HWQ	BZ	105	15	EP		1334	30.36	-0.07							1.0
BEIL	SZ	140	21	EP		1334	36.02	0.10							1.0

May 4 2018 Hour: 14:042.1 Lat: 33.78N Lon: 35.77E Depth: 4 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	13	53	EP		14	0	44.38	-0.05						1.0
ZAHL	SN	13	53	ES		14	0	46.22	0.02						1.0
BHL	BZ	17	321	EP		14	0	44.89	-0.07	37					1.0
BHL	BN	17	321	ES		14	0	47.14	0.04						1.0
DQRL	SZ	21	245	EP		14	0	45.50	0.01						1.0
RCY	SZ	33	169	EP		14	0	47.42	0.01						1.0
HWQ	BZ	57	17	EP		14	0	51.27	-0.04						1.0
BEIL	SZ	92	24	EP		14	0	57.03	0.07						1.0

May 4 2018 Hour: 14:1321.6 Lat: 34.51N Lon: 36.33E Depth: 0 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.0 secs

HERMEL REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	14	285	EP		1413	23.91	0.01	85						1.0
FKH	SZ	30	166	EP		1413	26.48	-0.04							1.0
HWQ	BZ	44	234	EP		1413	28.72	0.02							1.0
ZAHL	SZ	83	210	EP		1413	35.07	0.01							1.0
ZAHL	SN	83	210	ES		1413	45.01	0.03							1.0
BHL	BZ	92	223	EP		1413	36.38	-0.05							1.0
BHL	BN	92	223	ES		1413	47.34	-0.03							1.0
DQRL	SZ	113	218	EP		1413	39.91	-0.04							1.0
RCY	SZ	121	202	EP		1413	41.31	0.10							1.0

May 4 2018 Hour: 22:5821.9 Lat: 34.65N Lon: 33.96E Depth: 24 Agency: REL Regional
Magnitudes: 3.1MC REL Rms: 0.0 secs

CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	177	118	EP		2258	47.87	0.07							1.0
DQRL	SZ	182	125	EP		2258	48.40	-0.03							1.0
HWQ	BZ	187	102	EP		2258	49.12	0.01							1.0
HWQ	BN	187	102	ES		2259	9.24	0.01							1.0
ZAHL	SZ	198	116	EP		2258	50.38	-0.09							1.0
BEIL	SZ	205	93	EP		2258	51.19	0.00	57						1.0
BEIL	SN	205	93	ES		2259	12.84	-0.01							1.0
RCY	SZ	216	126	EP		2258	52.68	0.03							1.0

May 9 2018 Hour: 0:5446.3 Agency: REL Regional
EMSC OT=00:54:46.3 36.54N 27.86E 73Km M=3.6 DODECANESE-TURKEY BORDER REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		056	22.59								
DQRL	SZ			EP		056	22.82								
HWQ	BZ			EP		056	24.73								
ZAHL	SZ			EP		056	25.26								
QRWL	SZ			EP		056	25.94								
BEIL	SZ			EP		056	25.64								
RCY	SZ			EP		056	27.76								
SHBL	SZ			EP		056	28.03								

May 9 2018 Hour: 10:4144.3 Agency: REL Distant
EMSC OT=10:41:44.3 36.98N 71.43E 109Km M=6.2 HINDU KUSH REGION, AFGHANISTAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1047	32.19								
HWQ	BZ			EP		1047	35.37								
RCY	SZ			EP		1047	38.14								
BHL	BZ			EP		1047	38.35								
QRWL	SZ			EP		1047	39.29								
DQRL	SZ			EP		1047	39.84								

May 10 2018 Hour: 12:28 42.3 Lat: 34.43N Lon: 36.76E Depth: 2 Agency: REL Regional
 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
FKH	SZ	38	237	EP		1228	48.53	-0.01							1.0
BEIL	SZ	54	283	EP		1228	51.09	-0.02	71						1.0
BEIL	SN	54	283	ES		1228	57.64	0.04							1.0
HWQ	BZ	77	257	EP		1228	54.68	-0.06							1.0
HWQ	BN	77	257	ES		1229	3.89	-0.03							1.0
BHL	BZ	118	241	EP		1229	1.37	0.07							1.0
RCY	SZ	134	220	EP		1229	3.91	0.03							1.0
DQRL	SZ	136	234	EP		1229	4.09	-0.03							1.0

May 10 2018 Hour: 18:2 29.7 Agency: REL Distant
 EMSC OT=18:02:29.7 6.90N 123.85E 552Km M=5.9 MORO GULF, MINDANAO, PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1814	3.81								
BEIL	SZ			EP		1814	4.47								
HWQ	BZ			EP		1814	5.13								
ZAHL	SZ			EP		1814	6.08								
RCY	SZ			EP		1814	6.14								
BHL	BZ			EP		1814	6.56								
DQRL	SZ			EP		1814	7.28								

May 12 2018 Hour: 2:34 2.9 Lat: 33.40N Lon: 34.90E Depth: 2 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.1 secs

OFFSHORE SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	71	61	EP		234	14.42	0.10	37						1.0
DQRL	SN	71	61	ES		234	22.77	-0.03							1.0
QRWL	SZ	75	77	EP		234	14.84	-0.08							1.0
RCY	SZ	88	83	EP		234	17.11	0.07							1.0
BHL	BZ	90	51	EP		234	17.33	0.00							1.0
ZAHL	SZ	105	61	EP		234	19.75	-0.01							1.0

May 13 2018 Hour: 13:7 33.8 Lat: 33.61N Lon: 37.10E Depth: 20 Agency: REL Regional
 Magnitudes: 3.3MC 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	116	284	EP		13 7	51.73	-0.08							1.0
ZAHL	SN	116	284	ES		13 8	5.19	0.03							1.0
RCY	SZ	118	264	EP		13 7	52.21	0.04	84						1.0
HWQ	BZ	129	305	EP		13 7	53.81	-0.04							1.0
HWQ	BN	129	305	ES		13 8	8.69	-0.01							1.0
BEIL	SZ	133	321	EP		13 7	54.40	0.06							1.0
BHL	BZ	138	284	EP		13 7	55.03	0.01							1.0
DQRL	SZ	142	275	EP		13 7	55.57	-0.01							1.0

May 14 2018 Hour: 11:18 51.0 Lat: 34.55N Lon: 36.79E Depth: 19 Agency: REL Regional
 Magnitudes: 2.8MC REL Rms: 0.0 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	56	270	EP		1119	0.23	-0.05	46						1.0
BEIL	SN	56	270	ES		1119	7.18	0.05							1.0
HWQ	BZ	83	249	EP		1119	4.33	0.01							1.0
HWQ	BN	83	249	ES		1119	14.11	-0.04							1.0
BHL	BZ	127	236	EP		1119	10.72	0.04							1.0
DQRL	SZ	146	231	EP		1119	13.43	-0.01							1.0
RCY	SZ	146	217	EP		1119	13.48	0.01							1.0

May 14 2018 Hour: 11:37 29.3 Lat: 34.45N Lon: 36.67E Depth: 11 Agency: REL Regional
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
BEIL	SZ	46	283	EP		1137	37.02	0.08	52						1.0
BEIL	SN	46	283	ES		1137	42.52	-0.09							1.0
HWQ	BZ	70	254	EP		1137	40.72	0.04							1.0
HWQ	BN	70	254	ES		1137	49.18	0.07							1.0
DQRL	SZ	131	231	EP		1137	49.65	-0.07							1.0
RCY	SZ	131	216	EP		1137	49.72	-0.03							1.0

May 14 2018 Hour: 12:0 11.1 Lat: 34.38N Lon: 36.73E Depth: 0 Agency: REL Regional
Magnitudes: 2.7MC REL Rms: 0.0 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	33	243	EP		12 0	16.53	0.02							1.0
FKH	SN	33	243	ES		12 0	20.47	-0.02							1.0
BEIL	SZ	54	290	EP		12 0	19.72	-0.03	38						1.0
BEIL	SN	54	290	ES		12 0	26.17	0.04							1.0
HWQ	BZ	73	261	EP		12 0	22.90	-0.05							1.0
RCY	SZ	129	220	EP		12 0	31.87	0.02							1.0
DQRL	SZ	131	235	EP		12 0	32.26	0.02							1.0

May 14 2018 Hour: 12:56 43.6 Lat: 33.36N Lon: 35.63E 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	22	14	EP		1256	46.99	-0.10							1.0
RCY	SZ	25	52	EP		1256	47.66	0.05	31						1.0
RCY	SN	25	52	ES		1256	50.55	-0.02							1.0
DQRL	SZ	39	352	EP		1256	49.86	-0.00							1.0
DQRL	SN	39	352	ES		1256	54.51	0.03							1.0
ZAHL	SZ	60	23	EP		1256	53.36	0.02							1.0
BHL	BZ	60	3	EP		1256	53.32	-0.05							0.2
HWQ	BZ	106	16	EP		1257	0.74	0.01							1.0
BEIL	SZ	141	21	EP		1257	6.38	0.15							0.2

May 14 2018 Hour: 23:19 6.7 Lat: 33.81N Lon: 35.81E Depth: 15 Agency: REL Local
Magnitudes: 2.5MC 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	9	51	EP		2319	9.67	-0.01							1.0
ZAHL	SN	9	51	ES		2319	11.87	-0.00							1.0
BHL	BZ	18	306	EP		2319	10.60	0.01	28						1.0
BHL	BN	18	306	ES		2319	13.47	0.02							1.0
DQRL	SZ	25	243	EP		2319	11.44	-0.04							1.0
QRWL	SZ	31	203	EP		2319	12.32	-0.01							1.0
RCY	SZ	35	176	EP		2319	12.77	-0.08							1.0
RCY	SN	35	176	ES		2319	17.44	0.06							1.0
SHBL	SZ	51	187	EP		2319	15.32	0.03							1.0
HWQ	BZ	54	13	EP		2319	15.59	-0.02							1.0
BEIL	SZ	88	23	EP		2319	21.24	0.56							0.2

May 15 2018 Hour: 10:35 1.5 Lat: 34.13N Lon: 35.99E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs

JBEIL REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	17	345	EP		1035	4.24	-0.03	34						1.0
ZAHL	SZ	32	199	EP		1035	6.60	0.03							1.0
BHL	BZ	40	232	EP		1035	7.96	0.02							1.0
BEIL	SZ	49	21	EP		1035	9.37	-0.04							1.0
BEIL	SN	49	21	ES		1035	15.32	0.04							1.0
RCY	SZ	72	192	EP		1035	12.98	-0.03							1.0

RCY SN 72 192 ES 1035 21.54-0.00 1.0

May 15 2018 Hour: 14:25 6.1 Lat: 34.59N Lon: 36.41E Depth: 7 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
BEIL	SZ	21	255	EP		1425	9.78	0.06	80						1.0
BEIL	SN	21	255	ES		1425	12.39	-0.05							1.0
FKH	SZ	39	180	EP		1425	12.37	-0.04							1.0
HWQ	BZ	55	231	EP		1425	15.01	-0.02							1.0
ZAHL	SZ	95	211	EP		1425	21.49	0.10							1.0
BHL	BZ	103	223	EP		1425	22.65	-0.06							1.0
DQRL	SZ	125	218	EP		1425	26.02	0.10							1.0
RCY	SZ	133	204	EP		1425	26.95	-0.09							1.0
RCY	SN	133	204	ES		1425	42.59	0.02							1.0
QRWL	SZ	134	210	EP		1425	27.18	-0.02							1.0

May 15 2018 Hour: 14:57 4.6 Lat: 33.97N Lon: 36.19E Depth: 13 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

BAALBECK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	31	246	EP		1457	10.16	0.04							1.0
ZAHL	SN	31	246	ES		1457	14.19	0.01							1.0
HWQ	BZ	41	327	EP		1457	11.61	-0.02	39						1.0
HWQ	BN	41	327	ES		1457	16.78	-0.03							1.0
BHL	BZ	50	262	EP		1457	13.03	0.02							1.0
RCY	SZ	62	212	EP		1457	14.71	-0.06							1.0
BEIL	SZ	63	360	EP		1457	14.99	0.04							1.0
DQRL	SZ	64	243	EP		1457	15.12	0.00							1.0

May 15 2018 Hour: 15:7 5.6 Lat: 34.04N Lon: 35.75E Depth: 4 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	211	EP		15 7	8.58	-0.02	37						1.0
BHL	BN	18	211	ES		15 7	10.84	0.02							1.0
ZAHL	SZ	24	149	EP		15 7	9.47	-0.08							1.0
ZAHL	SN	24	149	ES		15 7	12.48	0.01							1.0
HWQ	BZ	32	34	EP		15 7	10.85	0.04							1.0
HWQ	BN	32	34	ES		15 7	14.68	0.01							1.0
DQRL	SZ	41	204	EP		15 7	12.23	-0.02							1.0
RCY	SZ	61	173	EP		15 7	15.55	0.08							1.0
BEIL	SZ	68	36	EP		15 7	16.62	-0.03							1.0

May 15 2018 Hour: 15:14 53.7 Lat: 33.46N Lon: 35.67E Depth: 0 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
QRWL	SZ	10	6	EP		1514	55.45	0.07							1.0
RCY	SZ	16	73	EP		1514	56.23	-0.07	62						1.0
DQRL	SZ	29	341	EP		1514	58.37	-0.07							1.0
ZAHL	SZ	49	24	EP		1515	1.68	0.08							1.0
BHL	BZ	50	358	EP		1515	1.72	-0.03							1.0
HWQ	BZ	95	16	EP		1515	9.00	0.00							1.0
HWQ	BN	95	16	ES		1515	20.25	-0.06							1.0
BEIL	SZ	130	21	EP		1515	14.68	0.08							1.0
BEIL	SN	130	21	ES		1515	30.06	-0.00							1.0

May 15 2018 Hour: 16:10 52.2 Lat: 34.28N Lon: 36.42E Depth: 0 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.0 secs

BAALBECK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	4	195	EP		1610	52.75	-0.05							1.0
BEIL	SZ	36	323	EP		1610	58.04	0.01	43						1.0
HWQ	BZ	44	270	EP		1610	59.18	-0.02							1.0
ZAHL	SZ	68	227	EP		1611	3.13	0.02							1.0
BHL	BZ	82	240	EP		1611	5.39	0.01							1.0
BHL	BN	82	240	ES		1611	15.13	-0.04							1.0
DQRL	SZ	101	231	EP		1611	8.52	0.07							1.0
RCY	SZ	102	212	EP		1611	8.60	-0.04							1.0
RCY	SN	102	212	ES		1611	20.88	0.04							1.0

May 15 2018 Hour: 23:36 36.9 Lat: 33.77N Lon: 35.77E Depth: 2 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	14	48	EP		2336	39.24	0.01	38						1.0
BHL	BZ	18	323	EP		2336	39.86	0.02							1.0
DQRL	SZ	20	248	EP		2336	40.14	-0.00							1.0
QRWL	SZ	26	198	EP		2336	41.10	-0.05							1.0
RCY	SZ	31	169	EP		2336	41.95	-0.00							1.0
SHBL	SZ	47	183	EP		2336	44.54	0.03							1.0
SHBL	SN	47	183	ES		2336	50.16	0.00							1.0
HWQ	BZ	58	16	EP		2336	46.32	0.03							1.0
HWQ	BN	58	16	ES		2336	53.23	-0.04							1.0

May 16 2018 Hour: 17:22 13.9 Agency: REL Distant
EMSC OT=17:22:13.9 33.91S 179.54W 10Km M=5.8 SOUTH OF KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1741	58.38								
BHL	BZ			EP		1741	59.58								

May 16 2018 Hour: 18:20 20.5 Agency: REL Regional
EMSC OT=18:20:20.5 36.12N 33.69E 2Km M=3.0 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1821	2.25								
HWQ	BZ			EP		1821	2.66								
BHL	BZ			EP		1821	4.30								
RCY	SZ			EP		1821	10.23								
SHBL	SZ			EP		1821	11.35								

May 16 2018 Hour: 22:26 25.7 Lat: 33.69N Lon: 35.86E Depth: 5 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.0 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	18	6	EP		2226	28.85	-0.01							1.0
RCY	SZ	22	187	EP		2226	29.44	-0.04	51						1.0
RCY	SN	22	187	ES		2226	32.27	0.02							1.0
QRWL	SZ	24	226	EP		2226	29.70	0.03							1.0
DQRL	SZ	27	273	EP		2226	30.26	-0.00							1.0
DQRL	SN	27	273	ES		2226	33.59	-0.02							1.0
BHL	BZ	30	320	EP		2226	30.76	0.03							1.0
SHBL	SZ	40	196	EP		2226	32.29	-0.01							1.0
HWQ	BZ	65	7	EP		2226	36.27	-0.03							1.0
BEIL	SZ	98	17	EP		2226	41.68	0.03							1.0

May 17 2018 Hour: 12:39 25.3 Lat: 34.56N Lon: 36.32E Depth: 10 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

AKKAR REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	13	258	EP		1239	27.95	-0.01							1.0
BEIL	SN	13	258	ES		1239	29.95	0.01							1.0
FKH	SZ	37	167	EP		1239	31.46	0.00	40						1.0
HWQ	BZ	47	227	EP		1239	33.01	-0.03							1.0
HWQ	BN	47	227	ES		1239	38.77	-0.00							1.0
DQRL	SZ	118	216	EP		1239	43.83	0.01							1.0
RCY	SZ	127	201	EP		1239	45.16	0.00							1.0

May 17 2018 Hour: 15:39 45.3 Lat: 34.03N Lon: 35.74E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC 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	17	210	EP		1539	47.98	-0.03	35						1.0
ZAHL	SZ	23	146	EP		1539	49.07	-0.06							1.0
HWQ	BZ	33	35	EP		1539	50.63	-0.04							1.0
DQRL	SZ	40	204	EP		1539	51.76	0.01							1.0
QRWL	SZ	54	186	EP		1539	54.10	0.02							1.0
RCY	SZ	60	172	EP		1539	55.05	0.01							1.0
RCY	SN	60	172	ES		1540	2.26	0.04							1.0
BEIL	SZ	70	36	EP		1539	56.59	0.03							1.0
BEIL	SN	70	36	ES		1540	4.87	0.02							1.0

May 17 2018 Hour: 15:41 28.4 Lat: 33.78N Lon: 35.77E Depth: 0 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	53	EP		1541	30.66	0.04							1.0
BHL	BZ	17	322	EP		1541	31.05	-0.09	42						1.0
DQRL	SZ	20	245	EP		1541	31.75	0.09							1.0
RCY	SZ	33	169	EP		1541	33.58	-0.07							1.0
HWQ	BZ	57	17	EP		1541	37.61	-0.03							1.0
HWQ	BN	57	17	ES		1541	44.48	0.00							1.0
BEIL	SZ	93	25	EP		1541	43.40	0.08							1.0
BEIL	SN	93	25	ES		1541	54.34	-0.02							1.0

May 17 2018 Hour: 16:58 46.3 Lat: 33.79N Lon: 35.78E 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	13	52	EP		1658	48.68	-0.07							1.0
BHL	BZ	17	318	EP		1658	49.33	-0.05	39						1.0
DQRL	SZ	21	244	EP		1658	50.06	0.06							1.0
QRWL	SZ	28	199	EP		1658	50.99	-0.04							1.0
RCY	SZ	33	171	EP		1658	51.72	-0.05							1.0
RCY	SN	33	171	ES		1658	55.92	0.08							1.0
HWQ	BZ	56	16	EP		1658	55.41	-0.07							1.0
HWQ	BN	56	16	ES		1659	2.42	0.13							1.0

May 18 2018 Hour: 1:45 31.3 Agency: REL Distant
EMSC OT=01:45:31.3 34.66S 178.38W 10Km M=6.2 SOUTH OF KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2 5	19.48								
HWQ	BZ			EP		2 5	19.58								
ZAHL	SZ			EP		2 5	20.01								
RCY	SZ			EP		2 5	20.22								
BHL	BZ			EP		2 5	20.19								
SHBL	SZ			EP		2 5	20.13								
QRWL	SZ			EP		2 5	20.22								
DQRL	SZ			EP		2 5	20.26								

May 18 2018 Hour: 2:47 45.1 Agency: REL Distant
EMSC OT=02:47:45.1 30.35S 177.70W 30Km M=5.1 KERMADEC ISLANDS, NEW ZEALAND
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ BZ EP 3 7 35.93
 BHL BZ EP 3 7 36.70

May 18 2018 Hour: 10:57 26.0 Lat: 35.35N Lon: 36.72E Depth: 0 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
BEIL	SZ	102	209	EP		1057	42.57	0.09	53						1.0
BEIL	SN	102	209	ES		1057	54.65	-0.05							1.0
FKH	SZ	126	193	EP		1057	46.26	-0.03							1.0
HWQ	BZ	139	211	EP		1057	48.34	0.06							1.0
DQRL	SZ	211	210	EP		1057	58.19	-0.11							1.0
RCY	SZ	221	202	EP		1057	59.61	-0.01							1.0
RCY	SN	221	202	ES		1058	24.58	0.05							1.0

May 18 2018 Hour: 12: 9 35.6 Lat: 35.20N Lon: 36.75E Depth: 0 Agency: REL Regional
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
BEIL	SZ	90	216	EP		12 9	50.17	0.06	51						1.0
BEIL	SE	90	216	ES		1210	0.80	-0.04							1.0
FKH	SZ	111	197	EP		12 9	53.44	-0.04							1.0
HWQ	BZ	126	216	EP		12 9	55.97	-0.04							1.0
HWQ	BE	126	216	ES		1210	11.12	0.03							1.0
BHL	BZ	176	215	EP		1210	3.36	-0.04							1.0
DQRL	SZ	198	214	EP		1210	6.40	-0.00							1.0
RCY	SZ	207	204	EP		1210	7.57	0.04							1.0
RCY	SN	207	204	ES		1210	31.16	0.03							1.0

May 18 2018 Hour: 12:55 18.4 Lat: 33.99N Lon: 36.18E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC 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	30	242	EP		1255	23.32	-0.03							1.0
FKH	SZ	36	37	EP		1255	24.23	-0.04							1.0
HWQ	BZ	39	327	EP		1255	24.67	-0.04	32						1.0
BEIL	SZ	62	1	EP		1255	28.42	0.01							1.0
BEIL	SN	62	1	ES		1255	35.84	0.05							1.0
RCY	SZ	63	210	EP		1255	28.60	0.04							1.0
RCY	SN	63	210	ES		1255	36.04	-0.00							1.0
QRWL	SZ	67	223	EP		1255	29.21	0.01							1.0

May 18 2018 Hour: 15:44 21.5 Lat: 33.27N Lon: 35.65E Depth: 0 Agency: REL Regional
Magnitudes: 3.0MC 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	30	34	EP		1544	26.46	0.05	59						1.0
RCY	SN	30	34	ES		1544	30.00	-0.03							1.0
QRWL	SZ	31	5	EP		1544	26.46	-0.06							1.0
DQRL	SZ	49	351	EP		1544	29.42	-0.01							1.0
DQRL	SN	49	351	ES		1544	35.32	0.03							1.0
ZAHL	SZ	69	18	EP		1544	32.69	0.08							1.0
BHL	BZ	70	360	EP		1544	32.87	-0.01							1.0
HWQ	BZ	115	13	EP		1544	40.04	-0.05							1.0
BEIL	SZ	149	19	EP		1544	45.38	-0.00							1.0

May 19 2018 Hour: 11:38 49.6 Lat: 33.53N Lon: 35.70E Depth: 0 Agency: REL Local
Magnitudes: 2.4MC 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	316	EP		1138	50.04	-0.03							1.0
RCY	SZ	13	107	EP		1138	51.73	0.01	26						1.0
RCY	SN	13	107	ES		1138	53.29	0.01							1.0
DQRL	SZ	23	328	EP		1138	53.34	0.01							1.0
DQRL	SN	23	328	ES		1138	56.11	0.04							1.0
ZAHL	SZ	40	25	EP		1138	56.09	-0.00							1.0
BHL	BZ	42	354	EP		1138	56.35	0.00							1.0
HWQ	BZ	86	15	EP		1139	3.45	-0.03							1.0

May 19 2018 Hour: 12:56 49.0 Lat: 33.79N Lon: 35.78E Depth: 13 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
ZAHL	SZ	12	53	EP		1256	52.03	-0.00							1.0
BHL	BZ	17	315	EP		1256	52.61	-0.00							1.0
DQRL	SZ	22	244	EP		1256	53.25	0.00							1.0
DQRL	SN	22	244	ES		1256	56.44	0.01							1.0
RCY	SZ	33	172	EP		1256	54.85	-0.01	37						1.0
HWQ	BZ	56	16	EP		1256	58.06	-0.10							1.0
BEIL	SZ	91	24	EP		1257	3.38	0.11							1.0

May 19 2018 Hour: 14: 6 46.9 Lat: 33.10N Lon: 35.59E Depth: 6 Agency: REL Regional
Magnitudes: 2.9MC REL Rms: 0.1 secs

DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	49	27	EP		14 6	54.97	-0.00	51						1.0
RCY	SE	49	27	ES		14 7	0.90	-0.02							1.0
QRWL	SZ	50	10	EP		14 6	55.18	0.09							1.0
DQRL	SZ	67	358	EP		14 6	57.71	-0.08							1.0
DQRL	SE	67	358	ES		14 7	5.90	0.07							1.0
ZAHL	SZ	88	18	EP		14 7	1.24	0.04							1.0
BHL	BZ	89	4	EP		14 7	1.29	-0.06							1.0
BHL	BN	89	4	ES		14 7	11.97	-0.05							1.0
HWQ	BZ	134	14	EP		14 7	8.20	-0.01							1.0
BEIL	SZ	169	19	EP		14 7	13.23	0.01							1.0

May 20 2018 Hour: 0:42 12.5 Agency: REL Distant

EMSC OT=00:42:12.5 21.04S 174.06W 2Km M=5.6 TONGA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1 2	8.09								
HWQ	BZ			EP		1 2	6.99								

May 20 2018 Hour: 16:14 42.9 Lat: 34.00N Lon: 35.78E Depth: 2 Agency: REL Local
Magnitudes: 2.8MC 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	16	227	EP		1614	45.44	-0.06							1.0
ZAHL	SZ	19	148	EP		1614	45.91	-0.04	43						1.0
HWQ	BZ	34	27	EP		1614	48.40	-0.04							1.0
HWQ	BN	34	27	ES		1614	52.66	0.09							1.0
DQRL	SZ	38	211	EP		1614	49.09	0.05							1.0
QRWL	SZ	51	190	EP		1614	51.19	0.05							1.0
RCY	SZ	56	175	EP		1614	51.94	-0.02							1.0
RCY	SN	56	175	ES		1614	58.73	0.04							1.0
FKH	SZ	64	65	EP		1614	53.21	-0.02							1.0
BEIL	SZ	71	32	EP		1614	54.23	-0.04							1.0

May 20 2018 Hour: 17:16 44.9 Lat: 34.04N Lon: 35.95E Depth: 1 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
ZAHL	SZ	22	196	EP		1716	48.31	-0.04	63						1.0
HWQ	BZ	26	359	EP		1716	49.08	0.02							1.0
HWQ	BN	26	359	ES		1716	52.21	0.04							1.0
BHL	BZ	31	240	EP		1716	49.90	-0.04							1.0
BHL	BN	31	240	ES		1716	53.65	-0.05							1.0
FKH	SZ	48	62	EP		1716	52.57	-0.03							1.0
DQRL	SZ	51	223	EP		1716	53.18	0.03							1.0
DQRL	SN	51	223	ES		1716	59.34	0.04							1.0
BEIL	SZ	59	21	EP		1716	54.38	-0.04							1.0
QRWL	SZ	60	204	EP		1716	54.58	-0.02							1.0
RCY	SZ	62	190	EP		1716	54.89	0.08							1.0
SHBL	SZ	80	194	EP		1716	57.68	-0.00							1.0

May 20 2018 Hour: 22:17 59.8 Agency: REL Regional

EMSC OT=22:17:59.8 35.03N 24.15E 8Km M=4.3 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2220	10.02								
QRWL	SZ			EP		2220	12.10								
SHBL	SZ			EP		2220	12.78								
ZAHL	SZ			EP		2220	13.71								
RCY	SZ			EP		2220	14.07								
HWQ	BZ			EP		2220	14.04								
BEIL	SZ			EP		2220	15.98								
FKH	SZ			EP		2220	18.88								

May 21 2018 Hour: 1:9 24.2 Agency: REL Regional

EMSC OT=01:09:24.2 37.44N 38.61E 5Km M=4.2 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		110	20.54								
FKH	SZ			EP		110	22.96								
HWQ	BZ			EP		110	24.50								
ZAHL	SZ			EP		110	33.28								
BHL	BZ			EP		110	31.25								
DQRL	SZ			EP		110	35.41								
RCY	SZ			EP		110	37.18								
SHBL	SZ			EP		110	37.10								

May 21 2018 Hour: 12:24 51.0 Lat: 33.78N Lon: 35.77E Depth: 0 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	53	EP		1224	53.21	-0.02							1.0
BHL	BZ	17	322	EP		1224	53.71	-0.02	31						1.0
DQRL	SZ	20	244	EP		1224	54.29	0.03							1.0
RCY	SZ	33	169	EP		1224	56.28	0.02							1.0
HWQ	BZ	57	17	EP		1225	0.14	-0.09							1.0
HWQ	BN	57	17	ES		1225	7.12	0.05							1.0
BEIL	SZ	92	25	EP		1225	5.89	-0.02							1.0
BEIL	SN	92	25	ES		1225	16.99	0.05							1.0

May 21 2018 Hour: 16:13 56.8 Lat: 33.79N Lon: 35.77E Depth: 8 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	13	53	EP		1613	59.36	0.01							1.0
BHL	BZ	17	320	EP		1613	59.92	0.03	38						1.0
DQRL	SZ	21	245	EP		1614	0.42	-0.02							1.0
QRWL	SZ	28	198	EP		1614	1.49	0.01							1.0
RCY	SZ	33	170	EP		1614	2.26	0.01							1.0

HWQ	BZ	57	16	EP	1614	5.97	-0.07										1.0
HWQ	BN	57	16	ES	1614	12.93	0.02										1.0
BEIL	SZ	92	24	EP	1614	11.62	-0.01										1.0
BEIL	SN	92	24	ES	1614	22.66	0.02										1.0

May 21 2018 Hour: 23:22 4.8 Lat: 33.79N Lon: 35.79E Depth: 9 Agency: REL Local
Magnitudes: 2.5MC 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	12	53	EP		2322	7.29	-0.08							1.0
BHL	BZ	17	315	EP		2322	8.13	0.05	29						1.0
DQRL	SZ	22	244	EP		2322	8.74	-0.06							1.0
QRWL	SZ	29	199	EP		2322	9.80	0.01							1.0
RCY	SZ	33	172	EP		2322	10.44	-0.04							1.0
RCY	SN	33	172	ES		2322	14.76	0.08							1.0
HWQ	BZ	56	15	EP		2322	13.92	-0.03							1.0
HWQ	BN	56	15	ES		2322	20.77	0.06							1.0

May 21 2018 Hour: 23:39 6.8 Lat: 33.69N Lon: 35.77E Depth: 21 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	18	208	EP		2339	11.29	-0.02							1.0
DQRL	SZ	19	275	EP		2339	11.36	-0.04	25						1.0
DQRL	SN	19	275	ES		2339	14.81	0.02							1.0
ZAHL	SZ	21	30	EP		2339	11.70	0.01							1.0
ZAHL	SN	21	30	ES		2339	15.29	-0.01							1.0
RCY	SZ	22	165	EP		2339	11.85	0.02							1.0
BHL	BZ	26	335	EP		2339	12.22	0.02							1.0

May 22 2018 Hour: 17:37 23.9 Lat: 32.43N Lon: 36.61E Depth: 2 Agency: REL Regional
Magnitudes: 3.3MC REL Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	131	322	EP		1737	44.97	0.07							1.0
RCY	SZ	139	329	EP		1737	46.16	0.01							1.0
QRWL	SZ	152	325	EP		1737	47.84	-0.13							1.0
DQRL	SZ	172	326	EP		1737	50.96	-0.00	81						1.0
DQRL	SN	172	326	ES		1738	10.99	0.03							1.0
BHL	BZ	187	332	EP		1737	52.93	-0.03							1.0
HWQ	BZ	214	343	EP		1737	56.49	0.05							1.0
BEIL	SZ	238	351	EP		1737	59.31	0.02							1.0
BEIL	SN	238	351	ES		1738	25.43	-0.02							1.0

May 22 2018 Hour: 19:30 52.7 Agency: REL Distant

EMSC OT=19:30:52.7 17.88S 173.12W 10Km M=5.4 TONGA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1950	40.45								
BHL	BZ			EP		1950	41.00								

May 23 2018 Hour: 16:41 35.5 Lat: 33.79N Lon: 35.78E Depth: 3 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
ZAHL	SZ	13	51	EP		1641	37.65	-0.00							1.0
BHL	BZ	17	318	EP		1641	38.29	-0.10							1.0
DQRL	SZ	21	245	EP		1641	39.09	0.06							1.0
DQRL	SN	21	245	ES		1641	41.69	0.05							1.0
QRWL	SZ	28	199	EP		1641	39.99	-0.10							1.0
RCY	SZ	33	171	EP		1641	40.80	-0.03	34						1.0
RCY	SN	33	171	ES		1641	44.82	0.04							1.0
HWQ	BZ	57	16	EP		1641	44.73	0.08							1.0
BEIL	SZ	92	24	EP		1641	50.39	0.10							0.2

May 23 2018 Hour: 22:10 43.3 Agency: REL Regional

EMSC OT=22:10:43.3 38.22N 42.40E 9Km M=4.3 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2212	14.96								
HWQ	BZ			EP		2212	19.27								
DQRL	SZ			EP		2212	29.08								
SHBL	SZ			EP		2212	30.57								

May 24 2018 Hour: 14:48 48.2 Agency: REL Distant

EMSC OT=14:48:48.2 21.32S 178.13W 439Km M=5.4 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		15 7	40.64								
HWQ	BZ			EP		15 7	40.83								
ZAHL	SZ			EP		15 7	41.90								
BHL	BZ			EP		15 7	41.86								
RCY	SZ			EP		15 7	41.94								
DQRL	SZ			EP		15 7	42.82								
QRWL	SZ			EP		15 7	42.36								

May 25 2018 Hour: 15:55 51.9 Lat: 33.79N Lon: 35.77E Depth: 6 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	13	56	EP		1555	54.41	-0.02							1.0
ZAHL	SN	13	56	ES		1555	56.31	0.03							1.0
BHL	BZ	16	320	EP		1555	54.86	0.02	41						1.0
BHL	BN	16	320	ES		1555	56.93	-0.06							1.0
DQRL	SZ	21	242	EP		1555	55.49	0.02							1.0
DQRL	SN	21	242	ES		1555	58.13	0.04							1.0
QRWL	SZ	28	196	EP		1555	56.61	-0.03							1.0
RCY	SZ	33	169	EP		1555	57.43	-0.04							1.0
HWQ	BZ	57	17	EP		1556	1.17	0.04							1.0
BEIL	SZ	92	25	EP		1556	6.77	-0.01							1.0

May 26 2018 Hour: 8:55 4.2 Lat: 33.68N Lon: 35.36E Depth: 4 Agency: REL Local
Magnitudes: 2.6MC 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	20	83	EP		855	7.54	0.00	34						1.0
DQRL	SN	20	83	ES		855	9.97	-0.01							1.0
BHL	BZ	37	48	EP		855	10.24	0.02							1.0
RCY	SZ	49	115	EP		855	12.17	-0.01							1.0
RCY	SN	49	115	ES		855	18.05	-0.00							1.0
ZAHL	SZ	53	68	EP		855	13.26	0.51							0.2
HWQ	BZ	85	39	EP		855	18.01	-0.04							1.0

May 26 2018 Hour: 11:28 56.4 Lat: 34.11N Lon: 36.01E Depth: 4 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

JBEIL REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	19	343	EP		1128	59.59	-0.05	38						1.0
HWQ	BN	19	343	ES		1129	2.05	0.03							1.0
ZAHL	SZ	30	202	EP		1129	1.38	-0.02							1.0
ZAHL	SN	30	202	ES		1129	5.10	0.01							1.0
BHL	BZ	40	235	EP		1129	2.90	-0.01							1.0
FKH	SZ	40	68	EP		1129	2.90	-0.04							1.0
BEIL	SZ	50	19	EP		1129	4.62	0.04							1.0
DQRL	SZ	61	222	EP		1129	6.17	-0.05							1.0
RCY	SZ	70	193	EP		1129	7.86	0.09							1.0

May 26 2018 Hour: 16:16 45.0 Lat: 33.79N Lon: 35.77E Depth: 8 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
ZAHL	SZ	13	53	EP		1616	47.65	0.04							1.0
BHL	BZ	17	320	EP		1616	48.02	-0.10	35						1.0
DQRL	SZ	21	244	EP		1616	48.75	0.08							1.0
QRWL	SZ	28	197	EP		1616	49.74	0.02							1.0
RCY	SZ	33	170	EP		1616	50.43	-0.08							1.0
HWQ	BZ	57	16	EP		1616	54.30	0.02							1.0
HWQ	BN	57	16	ES		1617	1.15	0.00							1.0
BEIL	SZ	92	24	EP		1616	59.88	0.02							1.0
BEIL	SN	92	24	ES		1617	10.84	-0.01							1.0

May 26 2018 Hour: 16:44 4.2 Lat: 33.81N Lon: 35.78E 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	11	62	EP		1644	7.72	-0.04							1.0
BHL	BZ	16	310	EP		1644	8.17	-0.02	39						1.0
DQRL	SZ	23	239	EP		1644	9.04	0.02							1.0
QRWL	SZ	31	198	EP		1644	10.01	0.01							1.0
RCY	SZ	35	172	EP		1644	10.68	0.04							1.0
HWQ	BZ	54	16	EP		1644	13.14	-0.06							1.0
HWQ	BN	54	16	ES		1644	19.91	0.08							1.0
BEIL	SZ	89	24	EP		1644	18.21	-0.08							1.0
BEIL	SN	89	24	ES		1644	28.72	0.04							1.0

May 27 2018 Hour: 8:53 1.3 Lat: 35.20N Lon: 36.60E Depth: 0 Agency: REL Regional
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
BEIL	SZ	83	207	EP		853	14.51	-0.12	51						1.0
BEIL	SN	83	207	ES		853	24.56	0.06							1.0
HWQ	BZ	119	210	EP		853	20.57	0.10							1.0
HWQ	BN	119	210	ES		853	34.60	-0.05							1.0
BHL	BZ	168	211	EP		853	27.93	-0.03							1.0
DQRL	SZ	191	210	EP		853	31.22	0.04							1.0

May 27 2018 Hour: 10:11 50.8 Lat: 33.97N Lon: 36.16E Depth: 12 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	28	244	EP		1011	55.94	0.09							1.0
ZAHL	SN	28	244	ES		1011	59.60	0.02							1.0
HWQ	BZ	39	330	EP		1011	57.45	-0.08	57						1.0
HWQ	BN	39	330	ES		1012	2.52	0.02							1.0
BHL	BZ	47	261	EP		1011	58.66	-0.06							1.0
RCY	SZ	60	210	EP		1012	0.77	-0.04							1.0
DQRL	SZ	62	242	EP		1012	1.03	0.02							1.0
DQRL	SE	62	242	ES		1012	8.54	-0.01							1.0
BEIL	SZ	64	2	EP		1012	1.27	0.04							1.0

May 27 2018 Hour: 10:56 11.2 Lat: 33.82N Lon: 36.02E Depth: 11 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
ZAHL	SZ	13	290	EP		1056	14.11	-0.02							1.0
ZAHL	SN	13	290	ES		1056	16.34	0.04							1.0
BHL	BZ	35	286	EP		1056	17.15	-0.05							1.0
BHL	BN	35	286	ES		1056	21.69	0.05							1.0
RCY	SZ	39	206	EP		1056	17.80	-0.06							1.0
RCY	SN	39	206	ES		1056	22.89	0.09							1.0

DQRL	SZ	43	254	EP		1056	18.38	-0.08										1.0
HWQ	BZ	52	353	EP		1056	19.70	-0.05	39									1.0
BEIL	SZ	82	11	EP		1056	24.46	0.09										1.0

May 28 2018 Hour: 11:36 19.3 Lat: 34.58N Lon: 36.38E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs

AKKAR REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	19	257	EP		1136	22.27	-0.00	47						1.0
BEIL	SN	19	257	ES		1136	24.51	0.00							1.0
FKH	SZ	37	176	EP		1136	25.23	-0.03							1.0
HWQ	BZ	52	230	EP		1136	27.70	0.01							1.0
HWQ	BN	52	230	ES		1136	33.92	-0.01							1.0
BHL	BZ	101	222	EP		1136	35.44	-0.04							1.0
DQRL	SZ	123	218	EP		1136	39.00	-0.02							1.0
RCY	SZ	130	203	EP		1136	40.37	0.09							1.0

May 29 2018 Hour: 15:35 28.6 Lat: 34.03N Lon: 35.75E Depth: 0 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	17	211	EP		1535	31.29	-0.06	41						1.0
ZAHL	SZ	23	147	EP		1535	32.34	-0.03							1.0
ZAHL	SN	23	147	ES		1535	35.18	0.01							1.0
HWQ	BZ	33	34	EP		1535	33.87	0.03							1.0
DQRL	SZ	40	204	EP		1535	35.16	0.08							1.0
DQRL	SN	40	204	ES		1535	39.88	0.01							1.0
RCY	SZ	60	172	EP		1535	38.29	-0.04							1.0
FKH	SZ	65	69	EP		1535	39.16	0.03							1.0
BEIL	SZ	69	35	EP		1535	39.69	-0.04							1.0

May 29 2018 Hour: 15:57 26.6 Lat: 33.78N Lon: 35.78E Depth: 5 Agency: REL Local
Magnitudes: 2.5MC 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	13	50	EP		1557	28.93	-0.02							1.0
BHL	BZ	18	319	EP		1557	29.65	-0.04	30						1.0
DQRL	SZ	21	246	EP		1557	30.14	-0.11							1.0
DQRL	SN	21	246	ES		1557	33.01	0.09							1.0
RCY	SZ	32	171	EP		1557	31.95	-0.02							1.0
RCY	SN	32	171	ES		1557	35.93	0.02							1.0
HWQ	BZ	57	16	EP		1557	35.93	0.06							1.0
BEIL	SZ	92	24	EP		1557	41.51	0.02							1.0

May 29 2018 Hour: 22:37 39.5 Lat: 34.76N Lon: 33.52E Depth: 22 Agency: REL Regional
Magnitudes: 3.4MC 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	218	115	EP		2238	10.68	0.05							1.0
DQRL	SZ	222	121	EP		2238	11.11	-0.02							1.0
HWQ	BZ	229	103	EP		2238	12.06	0.04							1.0
HWQ	BN	229	103	ES		2238	36.09	0.02							1.0
QRWL	SZ	241	123	EP		2238	13.19	-0.20							1.0
BEIL	SZ	246	95	EP		2238	14.05	0.05	76						1.0
BEIL	SN	246	95	ES		2238	39.46	-0.05							1.0
RCY	SZ	255	123	EP		2238	15.37	0.06							1.0
SHBL	SZ	258	127	EP		2238	15.71	0.06							1.0

Epicentral Map of Lebanon

MAY 2018

