

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

September

2020

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
BEIL	3432.50N	3611.08E	572	BEINO	Opened Jan 2017
SAIL	3334.52N	3524.09E	159	SAIDA	Opened Jan 2020
CPTL	3353.47N	3528.60E	32	QRAYTEM	Opened Mar 2020

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.

September 1 2020 Hour: 22:47 4.4

Agency: REL Regional

EMSC OT=22:47:04.4 35.52N 27.65E 4Km M=3.3 DODECANESE ISLANDS, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2248	39.92								
ZAHL	SZ			EP		2248	41.42								
SHBL	SZ			EP		2248	40.61								
RCY	SZ			EP		2248	41.77								
BEIL	SZ			EP		2248	41.82								

September 3 2020 Hour: 22: 4 51.4 Lat: 33.06N Lon: 35.46E Depth: 0 Agency: REL Regional

Magnitudes: 2.8MC REL

Rms: 0.0 secs

DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	42	39	EP		22 4	58.01-0.11		45						1.0
SHBL	SN	42	39	ES		22 5	3.18 0.07								1.0
RCY	SZ	60	35	EP		22 5	1.08 0.02								1.0
RCY	SN	60	35	ES		22 5	8.22-0.01								1.0
DQRL	SZ	73	8	EP		22 5	3.09-0.02								1.0
DQRL	SN	73	8	ES		22 5	11.79-0.02								1.0
BHL	BZ	96	11	EP		22 5	6.85 0.03								1.0
ZAHL	SZ	97	24	EP		22 5	7.09 0.02								1.0
HWQ	BZ	143	18	EP		22 5	14.28 0.01								1.0
HWQ	BN	143	18	ES		22 5	31.23 0.01								1.0
BEIL	SZ	178	22	EP		22 5	19.37-0.02								1.0

September 3 2020 Hour: 22:41 13.7

Agency: REL Regional

EMSC OT=22:41:13.7 35.52N 27.68E 9Km M=3.8 DODECANESE ISLANDS, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2242	52.39								
BHL	BZ			EP		2242	52.75								
HWQ	BZ			EP		2242	55.10								
ZAHL	SZ			EP		2242	55.28								
SHBL	SZ			EP		2242	55.68								
RCY	SZ			EP		2242	56.23								
BEIL	SZ			EP		2242	56.44								

September 4 2020 Hour: 14:20 19.1 Lat: 34.73N Lon: 36.10E Depth: 2 Agency: REL Regional

Magnitudes: 2.8MC REL

Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	22	160	EP		1420	22.69 0.02		48						1.0
BEIL	SN	22	160	ES		1420	25.28 0.00								1.0
HWQ	BZ	52	196	EP		1420	27.39-0.12								1.0
HWQ	BN	52	196	ES		1420	33.70 0.00								1.0
ZAHL	SZ	98	192	EP		1420	35.01-0.00								1.0
BHL	BZ	100	205	EP		1420	35.39 0.09								1.0
DQRL	SZ	123	204	EP		1420	39.05-0.00								1.0
RCY	SZ	139	190	EP		1420	41.18-0.14								1.0
SHBL	SZ	156	192	EP		1420	44.07 0.14								1.0

September 5 2020 Hour: 16:47 31.9 Lat: 35.05N Lon: 33.34E Depth: 0 Agency: REL Regional

Magnitudes: 3.6MC 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	247	120	EP		1648	8.59-0.18								1.0
HWQ	BN	253	109	ES		1648	37.38-0.00								1.0
DQRL	SZ	253	125	EP		1648	9.23-0.26								1.0
HWQ	BZ	253	109	EP		1648	9.60 0.05								1.0
BEIL	SZ	266	101	EP		1648	11.10 0.04		107						1.0
BEIL	SN	266	101	ES		1648	39.99-0.02								1.0
ZAHL	SZ	268	119	EP		1648	11.52 0.12								1.0
RCY	SZ	287	126	EP		1648	13.76 0.04								1.0
RCY	SN	287	126	ES		1648	44.66 0.03								1.0

SHBL SZ 290 130 EP 1648 14.37 0.18

1.0

September 6 2020 Hour: 0:21 11.8

Agency: REL Distant

EMSC OT=00:21:11.8 1.69N 126.61E 40Km M=6.0 MOLUCCA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		034	3.61								
BHL	BZ			EP		034	5.08								

September 6 2020 Hour: 6:51 18.7

Agency: REL Distant

EMSC OT=06:51:18.7 7.67N 37.20W 10Km M=6.6 CENTRAL MID-ATLANTIC RIDGE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		7 2	40.84								
BHL	BZ			EP		7 2	39.98								
QRWL	SZ			EP		7 2	41.51								
SHBL	SZ			EP		7 2	41.32								
RCY	SZ			EP		7 2	41.90								
ZAHL	SZ			EP		7 2	41.70								
HWQ	BZ			EP		7 2	41.80								
BEIL	SZ			EP		7 2	43.62								

September 6 2020 Hour: 14:55 20.9

Agency: REL Distant

EMSC OT=14:55:20.9 20.50S 174.06W 10Km M=5.5 TONGA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP	D	1515	9.64								
BHL	BZ			EP		1515	9.80								

September 6 2020 Hour: 15:23 42.1

Agency: REL Distant

EMSC OT=15:23:42.1 6.40N 125.71E 100Km M=6.4 MINDANAO, PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1536	12.04								
HWQ	BZ			EP		1536	12.53								
ZAHL	SZ			EP		1536	14.11								
RCY	SZ			EP		1536	14.44								
BHL	BZ			EP		1536	13.95								
QRWL	SZ			EP		1536	14.98								
SHBL	SZ			EP		1536	14.93								
DQRL	SZ			EP		1536	15.14								

September 8 2020 Hour: 0:45 21.7

Agency: REL Distant

EMSC OT=00:45:21.7 4.87S 129.76E 183Km M=6.1 BANDA SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		058	26.87								
HWQ	BZ			EP		058	27.60								
BHL	BZ			EP		058	27.60								
RCY	SZ			EP		058	28.22								
SHBL	SZ			EP		058	28.40								

September 8 2020 Hour: 10:44 8.7

Agency: REL Regional

EMSC OT=10:44:08.7 38.16N 38.70E 5Km M=4.7 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1045	12.13								
HWQ	BZ			EP		1045	16.33								
ZAHL	SZ			EP		1045	22.61								
BHL	BZ			EP		1045	23.21								
DQRL	SZ			EP		1045	26.68								
RCY	SZ			EP		1045	27.48								
QRWL	SZ			EP		1045	27.66								
SHBL	SZ			EP		1045	29.74								

September 8 2020 Hour: 12:39 0.7

Agency: REL Regional

EMSC OT=12:39:00.7 38.17N 38.66E 7Km M=4.2 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1240	4.81								
HWQ	BZ			EP		1240	9.83								
BHL	BZ			EP		1240	15.83								
DQRL	SZ			EP		1240	18.69								
RCY	SZ			EP		1240	19.85								
SHBL	SZ			EP		1240	22.59								

September 8 2020 Hour: 13:19 52.1

Agency: REL Regional

EMSC OT=13:19:52.1 38.12N 38.69E 5Km M=3.9 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1320	56.15								
HWQ	BZ			EP		1321	0.95								
BHL	BZ			EP		1321	7.37								
DQRL	SZ			EP		1321	10.18								
RCY	SZ			EP		1321	11.71								
QRWL	SZ			EP		1321	11.39								
SHBL	SZ			EP		1321	13.56								

September 8 2020 Hour: 15: 6 15.4

Agency: REL Regional

EMSC OT=15:06:15.4 38.16N 38.65E 7Km M=4.2 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		15 7	19.46								
HWQ	BZ			EP		15 7	24.48								
ZAHL	SZ			EP		15 7	29.75								
BHL	BZ			EP		15 7	30.88								
DQRL	SZ			EP		15 7	33.58								
RCY	SZ			EP		15 7	34.58								
QRWL	SZ			EP		15 7	34.84								
SHBL	SZ			EP		15 7	37.02								

September 8 2020 Hour: 22:20 5.0

Agency: REL Regional

EMSC OT=22:20:05.0 38.19N 38.70E 8Km M=3.9 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2221	9.77								
HWQ	BZ			EP		2221	14.51								
ZAHL	SZ			EP		2221	20.20								
BHL	BZ			EP		2221	21.10								
DQRL	SZ			EP		2221	23.57								
QRWL	SZ			EP		2221	25.47								
RCY	SZ			EP		2221	25.31								
SHBL	SZ			EP		2221	27.37								

September 9 2020 Hour: 3:37 19.1 Lat: 34.28N Lon: 35.71E Depth: 32 Agency: REL Local

Magnitudes: 2.4MC REL

Rms: 0.1 secs

BATROUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	22	91	EP		337	25.16	-0.03	26						1.0
HWQ	BN	22	91	ES		337	29.77	0.08							1.0
BHL	BZ	42	187	EP		337	27.37	0.06							1.0
ZAHL	SZ	50	161	EP		337	28.08	-0.17							1.0
BEIL	SZ	52	56	EP		337	28.44	-0.10							1.0
BEIL	SN	52	56	ES		337	35.58	0.06							1.0
DQRL	SZ	65	192	EP		337	30.28	0.02							1.0
QRWL	SZ	81	182	EP		337	32.60	0.13							1.0
SHBL	SZ	103	178	EP		337	35.22	-0.05							1.0

September 9 2020 Hour: 4: 8 15.2 Lat: 34.29N Lon: 35.70E Depth: 30 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs

BATROUN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	23	93	EP		4 8	21.12	-0.10	34						1.0
HWQ	BN	23	93	ES		4 8	25.68	-0.01							1.0
BHL	BZ	43	186	EP		4 8	23.32	-0.07							1.0
ZAHL	SZ	51	160	EP		4 8	24.36	-0.03							1.0
BEIL	SZ	53	58	EP		4 8	24.54	-0.03							1.0
BEIL	SN	53	58	ES		4 8	31.61	0.09							1.0
DQRL	SZ	66	191	EP		4 8	26.47	0.10							1.0
QRWL	SZ	82	181	EP		4 8	28.74	0.09							1.0
RCY	SZ	89	172	EP		4 8	29.59	-0.01							1.0
SHBL	SZ	104	178	EP		4 8	31.52	-0.03							1.0

September 10 2020 Hour: 2:16 37.3 Lat: 35.86N Lon: 36.50E Depth: 3 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
BEIL	SZ	149	191	EP		217	0.85	0.00	79						1.0
BEIL	SN	149	191	ES		217	18.27	0.00							1.0
HWQ	BZ	182	196	EP		217	5.49	-0.26							1.0
ZAHL	SZ	229	194	EP		217	11.44	-0.08							1.0
BHL	BZ	230	200	EP		217	11.57	-0.09							1.0
DQRL	SZ	254	200	EP		217	14.76	0.21							1.0
RCY	SZ	269	193	EP		217	16.65	0.14							1.0
SHBL	SZ	287	194	EP		217	18.83	0.08							1.0

September 10 2020 Hour: 20:19 19.5 Agency: REL Regional
EMSC OT=20:19:19.5 38.17N 38.66E 12Km M=3.4 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2020	23.28								
HWQ	BZ			EP		2020	28.07								
BHL	BZ			EP		2020	34.55								

September 12 2020 Hour: 2:44 12.0 Agency: REL Distant
EMSC OT=02:44:12.0 38.80N 142.08E 42Km M=6.1 EAST COAST OF HONSHU, JAPAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		256	5.14								
HWQ	BZ			EP		256	5.54								
ZAHL	SZ			EP		256	6.38								
RCY	SZ			EP		256	6.97								
SHBL	SZ			EP		256	7.22								
BHL	BZ			EP		256	6.92								
QRWL	SZ			EP		256	7.17								
DQRL	SZ			EP		256	7.56								

September 12 2020 Hour: 21: 6 13.3 Agency: REL Regional
EMSC OT=21:06:13.3 38.16N 38.66E 7Km M=3.6 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		21 7	17.67								
HWQ	BZ			EP		21 7	22.52								
ZAHL	SZ			EP		21 7	28.87								
BHL	BZ			EP		21 7	28.93								
DQRL	SZ			EP		21 7	32.32								
RCY	SZ			EP		21 7	33.11								
SHBL	SZ			EP		21 7	35.52								

September 13 2020 Hour: 2:55 8.7 Lat: 33.67N Lon: 35.78E Depth: 15 Agency: REL Local
Magnitudes: 2.2MC REL Rms: 0.0 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	17	214	EP		255	12.48	-0.02	20						1.0
QRWL	SN	17	214	ES		255	15.30	-0.01							1.0
RCY	SZ	20	166	EP		255	12.95	0.01							1.0
DQRL	SZ	20	280	EP		255	12.96	0.06							1.0
ZAHL	SZ	23	24	EP		255	13.23	0.02							1.0
BHL	BZ	28	335	EP		255	13.91	-0.05							1.0
BHL	BN	28	335	ES		255	17.85	-0.00							1.0

September 15 2020 Hour: 9:24 3.8 Lat: 32.58N Lon: 35.41E Depth: 6 Agency: REL Regional
Magnitudes: 3.4MC REL Rms: 0.1 secs

DEAD SEA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	91	20	EP		924	18.50	-0.11	95						1.0
RCY	SZ	110	21	EP		924	21.45	-0.01							1.0
RCY	SN	110	21	ES		924	34.52	0.02							1.0
QRWL	SZ	111	13	EP		924	21.63	0.03							1.0
DQRL	SZ	126	7	EP		924	23.86	-0.02							1.0
BHL	BN	149	9	ES		924	44.59	0.02							1.0
ZAHL	SZ	149	17	EP		924	27.25	0.01							1.0
BHL	BZ	149	9	EP		924	27.06	-0.18							1.0
HWQ	BZ	195	15	EP		924	33.60	0.05							1.0
HWQ	BN	195	15	ES		924	55.57	0.02							1.0
BEIL	SZ	230	18	EP		924	37.72	-0.04							1.0

September 15 2020 Hour: 20:57 35.2 Agency: REL Regional
EMSC OT=20:57:35.2 38.11N 38.61E 5Km M=3.7 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2058	39.31								
HWQ	BZ			EP		2058	44.08								
ZAHL	SZ			EP		2058	49.78								
BHL	BZ			EP		2058	50.22								
DQRL	SZ			EP		2058	53.36								
QRWL	SZ			EP		2058	55.05								
SHBL	SZ			EP		2058	57.05								

September 16 2020 Hour: 15:57 10.1 Lat: 33.61N Lon: 35.95E Depth: 2 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

RACHAYA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	17	221	EP		1557	12.78	-0.13	37						1.0
RCY	SN	17	221	ES		1557	15.03	0.06							1.0
QRWL	SZ	26	254	EP		1557	14.39	0.01							1.0
ZAHL	SZ	28	347	EP		1557	14.63	-0.04							1.0
SHBL	SZ	35	214	EP		1557	15.88	0.05							1.0
DQRL	SZ	37	286	EP		1557	16.11	-0.02							1.0
DQRL	SN	37	286	ES		1557	20.61	0.05							1.0
BHL	BZ	43	319	EP		1557	16.91	-0.11							1.0
HWQ	BZ	74	359	EP		1557	22.17	0.12							1.0
BEIL	SZ	105	12	EP		1557	27.24	0.13							0.2

September 17 2020 Hour: 21:13 3.8 Lat: 35.63N Lon: 31.03E Depth: 33 Agency: REL Regional
Magnitudes: 3.9MC REL Rms: 0.1 secs

EASTERN MEDITERRANEAN SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
CPTL	SZ	451	114	EP		2114	2.59	0.11							1.0
BHL	BZ	465	113	EP		2114	4.33	0.04							1.0
DQRL	SZ	468	116	EP		2114	4.54	-0.12							1.0
HWQ	BZ	474	107	EP		2114	5.50	0.12							1.0
HWQ	BN	474	107	ES		2114	50.96	0.01							1.0

ZAHL	SZ	486	112	EP		2114	6.87-0.05									1.0
BEIL	SZ	486	103	EP		2114	6.84 0.08	127								1.0
BEIL	SN	486	103	ES		2114	53.25-0.09									1.0
QRWL	SZ	486	117	EP		2114	6.76-0.03									1.0
RCY	SZ	501	117	EP		2114	8.65-0.03									1.0
RCY	SN	501	117	ES		2114	56.61-0.08									1.0
SHBL	SZ	502	119	EP		2114	8.69-0.12									1.0
SHBL	SN	502	119	ES		2114	57.08 0.16									1.0

September 18 2020 Hour: 0:15 11.8

Agency: REL Regional

EMSC OT=00:15:11.8 38.69N 41.99E 13Km M=4.1 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		016	46.45								
HWQ	BZ			EP		016	49.00								
DQRL	SZ			EP		016	59.65								
SHBL	SZ			EP		017	1.79								

September 18 2020 Hour: 0:48 51.0

Agency: RE Regional

EMSC OT=00:47:51.3 38.70N 38.11E 5Km M=3.9 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		048	59.75								
HWQ	BZ			EP		049	4.47								
ZAHL	SZ			EP		049	11.07								
BHL	BZ			EP		049	10.63								
DQRL	SZ			EP		049	14.37								
SHBL	SZ			EP		049	18.21								

September 18 2020 Hour: 6:54 6.0

Agency: REL Regional

EMSC OT=06:54:06.0 38.68N 38.11E 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		655	14.12								
HWQ	BZ			EP		655	19.01								
ZAHL	SZ			EP		655	24.78								
BHL	BZ			EP		655	25.40								
DQRL	SZ			EP		655	28.73								
QRWL	SZ			EP		655	29.86								
RCY	SZ			EP		655	30.61								

September 18 2020 Hour: 15:25 17.3 Lat: 33.60N

Lon: 36.04E Depth: 14 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.1 secs

LEBANON - SYRIA BORDER REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	22	240	EP		1525	21.39-0.16	41							1.0
RCY	SN	22	240	ES		1525	24.77 0.04								1.0
ZAHL	SZ	32	334	EP		1525	23.12 0.11								1.0
QRWL	SZ	34	261	EP		1525	23.25 0.09								1.0
SHBL	SZ	39	225	EP		1525	24.05 0.07								1.0
DQRL	SZ	45	286	EP		1525	24.87-0.00								1.0
DQRL	SN	45	286	ES		1525	30.46-0.05								1.0
BHL	BZ	49	314	EP		1525	25.35-0.15								1.0
BHL	BN	49	314	ES		1525	31.65 0.05								1.0
HWQ	BZ	76	354	EP		1525	29.44-0.01								1.0

September 18 2020 Hour: 16:28 18.3

Agency: REL Regional

EMSC OT=16:28:18.3 34.93N 25.27E 52Km M=5.9 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
CPTL	SZ			EP		1630	14.44								
DQRL	SZ			EP		1630	16.50								
BHL	BZ			EP		1630	17.39								
QRWL	SZ			EP		1630	18.24								
SHBL	SZ			EP		1630	19.61								
HWQ	BZ			EP		1630	19.08								
ZAHL	SZ			EP		1630	19.76								
RCY	SZ			EP		1630	19.71								

BEIL SZ EP 1630 21.71

September 18 2020 Hour: 21:43 58.7

Agency: REL Distant

EMSC OT=21:43:58.7 0.81N 26.71W 10Km M=6.7 CENTRAL MID-ATLANTIC RIDGE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
CPTL	SZ			EP		2154	49.62								
DQRL	SZ			EP		2154	50.32								
SHBL	SZ			EP		2154	50.64								
QRWL	SZ			EP		2154	50.51								
BHL	BZ			EP		2154	50.89								
RCY	SZ			EP		2154	50.77								
ZAHL	SZ			EP		2154	52.30								
HWQ	BZ			EP		2154	53.00								
BEIL	SZ			EP		2154	54.60								

September 19 2020 Hour: 9:30 6.3

Agency: REL Regional

EMSC OT=09:30:06.3 36.99N 35.91E 2Km M=4.0 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		930	46.81								
HWQ	BZ			EP		930	50.16								
BHL	BZ			EP		930	55.05								
CPTL	SZ			EP		930	55.83								
ZAHL	SZ			EP		930	58.43								
DQRL	SZ			EP		930	57.18								
QRWL	SZ			EP		931	0.17								
RCY	SZ			EP		931	1.23								
SHBL	SZ			EP		931	2.97								

September 20 2020 Hour: 7:28 0.2 Lat: 33.84N Lon: 36.58E

Depth: 28 Agency: REL Regional

Magnitudes: 2.7MC REL

Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	65	272	EP		728	11.26	0.09							1.0
HWQ	BZ	77	310	EP		728	12.77	-0.03							1.0
RCY	SZ	79	242	EP		728	12.93	-0.26	39						1.0
RCY	SN	79	242	ES		728	22.85	0.05							1.0
BEIL	SZ	86	335	EP		728	14.24	0.10							1.0
BEIL	SN	86	335	ES		728	24.42	-0.04							1.0
BHL	BZ	87	275	EP		728	14.14	-0.05							1.0
QRWL	SZ	90	249	EP		728	14.61	-0.04							1.0
SHBL	SZ	95	235	EP		728	15.60	0.14							1.0
DQRL	SZ	95	261	EP		728	15.48	0.05							1.0

September 20 2020 Hour: 14:40 27.8

Agency: REL Regional

EMSC OT=14:40:27.8 34.40N 32.60E 3Km M=3.6 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1441	11.46								
BHL	BZ			EP		1441	11.56								
HWQ	BZ			EP		1441	13.03								
SHBL	SZ			EP		1441	13.65								
RCY	SZ			EP		1441	13.74								
BEIL	SZ			EP		1441	15.22								
BEIL	SN			ES		1441	48.26								

September 20 2020 Hour: 15:55 27.8 Lat: 33.11N Lon: 35.91E

Depth: 7 Agency: REL Regional

Magnitudes: 2.6MC REL

Rms: 0.0 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	31	330	EP		1555	33.04	-0.00							1.0
SHBL	SN	31	330	ES		1555	36.90	0.01							1.0
RCY	SZ	44	351	EP		1555	35.06	0.02							1.0
RCY	SN	44	351	ES		1555	40.35	-0.01							1.0
QRWL	SZ	53	336	EP		1555	36.47	-0.08	33						1.0
DQRL	SZ	74	334	EP		1555	39.82	0.03							1.0

ZAHL	SZ	83	358	EP		1555	41.35	0.00													1.0
BHL	BZ	92	345	EP		1555	42.70	0.03													1.0

September 20 2020 Hour: 19: 8 6.2

Agency: REL Distant

EMSC OT=19:08:06.2 38.04N 34.03E 3Km M=5.3 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		19	9	7.81							
HWQ	BZ			EP		19	9	8.95							
BHL	BZ			EP		19	9	12.34							
ZAHL	SZ			EP		19	9	14.96							
QRWL	SZ			EP		19	9	17.63							
RCY	SZ			EP		19	9	19.01							
SHBL	SZ			EP		19	9	20.64							

September 20 2020 Hour: 22:13 14.5

Agency: REL Distant

EMSC OT=22:13:14.5 9.22N 126.73E 10Km M=5.8 MINDANAO, PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2225	51.92								
HWQ	BZ			EP		2225	52.66								
ZAHL	SZ			EP		2225	53.70								
BHL	BZ			EP		2225	53.11								
DQRL	SZ			EP		2225	54.82								
RCY	SZ			EP		2225	54.08								
SHBL	SZ			EP		2225	54.67								

September 21 2020 Hour: 0:47 25.4

Agency: REL Regional

EMSC OT=00:47:25.4 38.01N 34.05E 5Km M=3.3 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		048	25.95								
HWQ	BZ			EP		048	28.45								
ZAHL	SZ			EP		048	34.85								
SHBL	SZ			EP		048	39.66								

September 21 2020 Hour: 3:37 31.0

Agency: REL Regional

EMSC OT=03:37:31.0 38.08N 34.03E 6Km M=4.0 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		338	31.98								
HWQ	BZ			EP		338	34.30								
BHL	BZ			EP		338	35.75								
ZAHL	SZ			EP		338	39.62								
DQRL	SZ			EP		338	40.07								
QRWL	SZ			EP		338	42.53								
RCY	SZ			EP		338	43.32								
SHBL	SZ			EP		338	45.27								

September 21 2020 Hour: 3:45 21.9

Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		345	27.19								
QRWL	SZ			EP		345	28.31								
RCY	SZ			EP		345	29.68								
ZAHL	SZ			EP		345	26.81								
SHBL	SZ			EP		345	27.81								
HWQ	BZ			EP		345	34.30								
BEIL	SZ			EP		345	38.22								

September 21 2020 Hour: 16:56 50.0

Agency: REL Regional

EMSC OT=16:56:50.0 37.22N 30.66E 90Km M=3.7 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1658	2.65								
BEIL	SZ			EP		1658	2.61								
BHL	BZ			EP		1658	2.74								
DQRL	SZ			EP		1658	3.13								
ZAHL	SZ			EP		1658	6.03								
QRWL	SZ			EP		1658	6.86								

RCY SZ EP 1658 8.57
SHBL SZ EP 1658 9.17

September 21 2020 Hour: 19:40 49.5

Agency: REL Regional

EMSC OT=19:40:49.5 38.01N 34.10E 3Km M=3.4 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1941	50.68								
HWQ	BZ			EP		1941	52.29								
QRWL	SZ			EP		1941	59.82								
SHBL	SZ			EP		1942	3.96								

September 22 2020 Hour: 18:22 47.3

Agency: REL Regional

EMSC OT=18:22:47.3 38.04N 34.05E 5Km M=3.4 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1823	48.25								
HWQ	BZ			EP		1823	51.90								
ZAHL	SZ			EP		1823	56.94								
RCY	SZ			EP		1824	1.68								
SHBL	SZ			EP		1824	2.19								

September 24 2020 Hour: 1:1 24.8

Agency: REL Regional

EMSC OT=01:01:24.8 38.05N 34.04E 5Km M=4.4 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1 2	26.42								
HWQ	BZ			EP		1 2	28.19								
BHL	BZ			EP		1 2	32.35								
ZAHL	SZ			EP		1 2	34.07								
DQRL	SZ			EP		1 2	34.62								
QRWL	SZ			EP		1 2	37.41								
RCY	SZ			EP		1 2	37.66								
SHBL	SZ			EP		1 2	39.89								

September 24 2020 Hour: 8:1 57.8 Lat: 36.06N Lon: 36.35E Depth: 9

Agency: REL Regional

Magnitudes: 3.6MC REL

Rms: 0.3 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	169	185	EP		8 2	23.72	-0.19	111						1.0
BEIL	SN	169	185	ES		8 2	43.56	0.35							1.0
HWQ	BZ	201	191	EP		8 2	27.48	-0.46							1.0
HWQ	BN	201	191	ES		8 2	49.83	-0.39							1.0
BHL	BZ	247	195	EP		8 2	33.57	-0.12							1.0
DQRL	SZ	270	195	EP		8 2	37.05	0.48							1.0
QRWL	SZ	285	193	EP		8 2	38.70	0.32							1.0
RCY	SZ	288	190	EP		8 2	38.78	-0.01							1.0
RCY	SN	288	190	ES		8 3	9.13	0.04							1.0
SHBL	SZ	305	191	EP		8 2	40.97	-0.02							1.0

September 24 2020 Hour: 18:52 13.8

Agency: REL Regional

EMSC OT=18:52:13.8 35.31N 25.90E 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		1854	14.29								
ZAHL	SZ			EP		1854	13.94								
HWQ	BZ			EP		1854	14.65								
BEIL	SZ			EP		1854	16.38								

September 24 2020 Hour: 19:9 40.4

Agency: REL Regional

EMSC OT=19:09:40.4 38.07N 34.06E 14Km M=3.9 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1910	41.61								
HWQ	BZ			EP		1910	43.81								
BHL	BZ			EP		1910	46.55								
ZAHL	SZ			EP		1910	49.26								
DQRL	SZ			EP		1910	49.18								
QRWL	SZ			EP		1910	52.73								

RCY SZ EP 1910 53.44
 SHBL SZ EP 1910 54.86

September 24 2020 Hour: 20:42 17.8 Lat: 35.22N Lon: 36.80E Depth: 1 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	94	217	EP		2042	32.85	-0.10	73						1.0
BEIL	SN	94	217	ES		2042	44.24	0.09							1.0
HWQ	BZ	130	217	EP		2042	38.88	0.04							1.0
HWQ	BN	130	217	ES		2042	54.52	0.11							1.0
ZAHL	SZ	173	209	EP		2042	45.14	0.06							1.0
ZAHL	SN	173	209	ES		2043	4.90	-0.36							1.0
BHL	BZ	180	216	EP		2042	45.95	-0.15							1.0
DQRL	SZ	202	214	EP		2042	48.96	-0.00							1.0
RCY	SZ	211	205	EP		2042	50.06	0.02							1.0
RCY	SN	211	205	ES		2043	14.11	0.22							1.0
QRWL	SZ	212	209	EP		2042	50.15	-0.00							1.0
SHBL	SZ	229	205	EP		2042	52.42	0.08							1.0

September 24 2020 Hour: 21:22 53.8 Agency: REL Regional
EMSC OT=21:22:53.8 35.30N 25.92E 13Km M=3.8 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		2124	53.03								
SHBL	SZ			EP		2124	54.00								
RCY	SZ			EP		2124	54.26								
HWQ	BZ			EP		2124	54.61								
BEIL	SZ			EP		2124	56.24								

September 26 2020 Hour: 17:48 9.3 Agency: REL Regional
EMSC OT=17:48:09.3 34.88N 30.72E 30Km M=3.6 EASTERN MEDITERRANEAN SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1749	11.21								
BHL	BZ			EP		1749	10.55								
QRWL	SZ			EP		1749	13.14								
HWQ	BZ			EP		1749	13.34								
ZAHL	SZ			EP		1749	14.02								
SHBL	SZ			EP		1749	14.71								
BEIL	SZ			EP		1749	14.74								
RCY	SZ			EP		1749	14.81								

September 27 2020 Hour: 21:43 42.7 Agency: REL Regional
EMSC OT=21:43:42.7 37.29N 31.02E 129Km M=3.0 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2144	54.23								
HWQ	BZ			EP		2144	54.83								
SHBL	SZ			EP		2145	1.82								

September 28 2020 Hour: 19:20 7.6 Lat: 34.10N Lon: 36.09E Depth: 31 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.1 secs

BAALBECK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	24	327	EP		1920	14.01	0.15	24						1.0
HWQ	BN	24	327	ES		1920	18.52	0.03							1.0
ZAHL	SZ	33	216	EP		1920	14.54	-0.17							1.0
BHL	BZ	46	242	EP		1920	16.13	-0.08							1.0
BEIL	SZ	50	10	EP		1920	16.80	0.07							1.0
BEIL	SN	50	10	ES		1920	23.35	-0.13							1.0
RCY	SZ	71	200	EP		1920	19.69	0.15							1.0
SHBL	SZ	89	201	EP		1920	21.97	-0.03							1.0

September 28 2020 Hour: 19:36 20.9

Agency: REL Regional

EMSC OT=19:36:20.9 38.70N 38.11E 10Km M=3.4 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1937	34.30								
BEIL	SZ			EP		1937	29.44								

September 28 2020 Hour: 21:20 51.1

Agency: REL Regional

EMSC OT=21:20:51.1 33.96N 31.94E 13Km M=2.4 EASTERN MEDITERRANEAN SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ			EP		2121	39.26								
RCY	SZ			EP		2121	39.97								
HWQ	BZ			EP		2121	40.93								
BEIL	SZ			EP		2121	44.63								

September 28 2020 Hour: 22: 6 11.9

Agency: REL Regional

EMSC OT=22:06:11.9 36.22N 29.81E 40Km M=3.1 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		22 7	25.97								
HWQ	BZ			EP		22 7	28.63								
BEIL	SZ			EP		22 7	29.18								
QRWL	SZ			EP		22 7	29.73								
SHBL	SZ			EP		22 7	32.07								
RCY	SZ			EP		22 7	31.98								

September 29 2020 Hour: 0:17 34.7

Agency: REL Distant

EMSC OT=00:17:34.7 33.58S 177.83W 10Km M=5.2 SOUTH OF KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		037	34.10								
HWQ	BZ			EP		037	33.47								
RCY	SZ			EP		037	34.39								
BHL	BZ			EP		037	34.34								
QRWL	SZ			EP		037	34.54								
SHBL	SZ			EP		037	34.73								
DQRL	SZ			EP		037	35.07								

September 29 2020 Hour: 11:22 49.7

Agency: REL Regional

EMSC OT=11:22:49.7 37.99N 34.11E 7Km M=3.7 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1123	49.56								
HWQ	BZ			EP		1123	51.88								
RCY	SZ			EP		1124	0.80								
QRWL	SZ			EP		1124	2.16								
SHBL	SZ			EP		1124	2.61								

September 30 2020 Hour: 2:40 41.4

Agency: REL Regional

EMSC OT=02:40:41.4 38.47N 39.23E 6Km M=3.7 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		241	52.40								
HWQ	BZ			EP		241	57.14								
BHL	BZ			EP		242	3.31								
DQRL	SZ			EP		242	7.28								
RCY	SZ			EP		242	8.24								
QRWL	SZ			EP		242	8.21								
SHBL	SZ			EP		242	10.71								

Epicentral Map of Lebanon

SEPTEMBER 2020

