

Republic of Lebanon  
National Council for Scientific Research

# Provisional Seismological Bulletin

from the

## NATIONAL SEISMIC NETWORK

June

2021

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.

<b>P-wave velocity (km/sec)</b>	<b>depth to top of layer (km)</b>
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:

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

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 Vp/Vs 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\*(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.

June 2 2021 Hour: 6:14 28.3 Agency: REL Regional

**EMSC OT=06:14:28.3 37.56N 36.17E 6Km M=4.3 CENTRAL TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		615		16.68							
FKH	SZ			EP		615		20.52							
HWQ	BZ			EP		615		21.36							
BHL	BZ			EP		615		28.07							
QRWL	SZ			EP		615		32.13							
RCY	SZ			EP		615		31.64							
SHBL	SZ			EP		615		34.72							

June 3 2021 Hour: 4:26 44.9 Agency: REL Regional

**EMSC OT=04:26:44.9 37.40N 35.05E 7Km M=3.8 CENTRAL TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		427		33.29							
HWQ	BZ			EP		427		35.82							
FKH	SZ			EP		427		38.73							
BHL	BZ			EP		427		39.76							
QRWL	SZ			EP		427		44.55							
RCY	SZ			EP		427		45.74							
SHBL	SZ			EP		427		47.36							

June 3 2021 Hour: 10: 9 55.8 Agency: REL Distant

**EMSC OT=10:09:55.8 0.33N 126.23E 10Km M=6.1 MOLUCCA SEA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1022		55.26							
BEIL	SZ			EP		1022		55.64							
HWQ	BZ			EP		1022		55.93							
BHL	BZ			EP		1022		56.83							
RCY	SZ			EP		1022		57.31							
SHBL	SZ			EP		1022		56.69							

June 4 2021 Hour: 13:36 9.7 Lat: 35.26N Lon: 36.50E Depth: 5 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	85	200	EP		1336	23.44	0.01	51						1.0
BEIL	SN	85	200	ES		1336	33.61	0.01							1.0
FKH	SZ	113	184	EP		1336	27.87	-0.02							1.0
HWQ	BZ	120	205	EP		1336	28.85	-0.08							1.0
HWQ	BN	120	205	ES		1336	43.17	-0.01							1.0
ZAHL	SZ	166	200	EP		1336	35.59	-0.01							1.0
BHL	BZ	169	207	EP		1336	36.15	0.01							1.0
QRWL	SZ	204	202	EP		1336	40.68	0.07							1.0
RCY	SZ	205	197	EP		1336	40.72	-0.03							1.0
SHBL	SZ	223	198	EP		1336	43.05	0.03							1.0

June 4 2021 Hour: 20:23 9.6 Agency: REL Regional

**EMSC OT=20:23:09.6 36.44N 27.16E 17Km M=4.1 DODECANESE -TURKEY BORDER REG**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2024		56.08							
HWQ	BZ			EP		2024		58.26							
QRWL	SZ			EP		2024		59.13							
BEIL	SZ			EP		2024		59.01							
RCY	SZ			EP		2025		0.75							
SHBL	SZ			EP		2025		0.94							
FKH	SZ			EP		2025		3.06							

June 6 2021 Hour: 4:54 23.1 Agency: REL Regional

EMSC OT=04:54:23.1 33.38N 46.08E 10Km M=5.3 IRAN-IRAQ BORDER REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		456		20.94							
BEIL	SZ			EP		456		22.71							
HWQ	BZ			EP		456		26.69							
RCY	SZ			EP		456		26.77							
SHBL	SZ			EP		456		28.15							
BHL	BZ			EP		456		29.76							

June 6 2021 Hour: 18:24 29.4

Agency: REL Distant

EMSC OT=18:24:29.4 15.92S 177.38W 431Km M=5.6 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1843		17.09							
FKH	SZ			EP		1843		16.91							
HWQ	BZ			EP		1843		17.57							
ZAHL	SZ			EP		1843		18.41							
BHL	BZ			EP		1843		18.77							
RCY	SZ			EP		1843		19.01							
DQRL	SZ			EP		1843		19.31							
QRWL	SZ			EP		1843		19.31							
SHBL	SZ			EP		1843		19.01							

June 6 2021 Hour: 23:16 39.2

Agency: REL Distant

EMSC OT=23:16:39.2 27.71S 176.30W 10Km M=5.7 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2336		31.63							
HWQ	BZ			EP		2336		33.41							
FKH	SZ			EP		2336		34.19							
BHL	BZ			EP		2336		33.41							
DQRL	SZ			EP		2336		35.51							
QRWL	SZ			EP		2336		35.90							
RCY	SZ			EP		2336		35.43							
SHBL	SZ			EP		2336		34.89							

June 7 2021 Hour: 18:11 31.6 Lat: 33.99N Lon: 35.98E Depth: 7 Agency: REL Local  
Magnitudes: 2.7MC REL Rms: 0.1 secs

KESROUAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	18	211	EP		1811	34.56	-0.20	37						1.0
ZAHL	SN	18	211	ES		1811	37.25	0.15							1.0
HWQ	BZ	32	354	EP		1811	36.87	-0.04							1.0
HWQ	BN	32	354	ES		1811	40.86	0.02							1.0
BHL	BZ	32	252	EP		1811	36.93	-0.01							1.0
BHL	BN	32	252	ES		1811	40.81	-0.08							1.0
FKH	SZ	48	55	EP		1811	39.38	-0.13							1.0
DQRL	SZ	50	230	EP		1811	39.81	0.06							1.0
QRWL	SZ	57	210	EP		1811	40.87	0.02							1.0
RCY	SZ	57	194	EP		1811	40.89	0.02							1.0
BEIL	SZ	64	17	EP		1811	42.11	0.17							1.0
SHBL	SZ	75	197	EP		1811	43.79	0.02							1.0

June 7 2021 Hour: 20:27 57.0 Lat: 34.66N Lon: 33.42E Depth: 27 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
DQRL	SZ	224	118	EP		2028	28.47	0.01							1.0
HWQ	BZ	236	100	EP		2028	29.86	-0.02							1.0
HWQ	BN	236	100	ES		2028	54.15	-0.06							1.0
QRWL	SZ	242	120	EP		2028	30.64	-0.02							1.0
BEIL	SZ	254	92	EP		2028	31.91	-0.15	83						1.0
BEIL	SN	254	92	ES		2028	58.05	0.06							1.0
RCY	SZ	257	119	EP		2028	32.52	-0.07							1.0

SHBL SZ 259 123 EP	2028 32.88 0.07	1.0
FKH SZ 278 99 EP	2028 35.37 0.19	1.0

**June 11 2021 Hour: 19:22 10.0 Lat: 33.12N Lon: 35.60E Depth: 4 Agency: REL Regional Magnitudes: 3.2MC REL**  
**GOLAN REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	29	28	EP		1922	14.91	0.17							1.0
RCY	SZ	47	27	EP		1922	17.59	-0.10	82						1.0
RCY	SN	47	27	ES		1922	23.38	0.02							1.0
QRWL	SZ	48	9	EP		1922	17.75	-0.08							1.0
QRWL	SN	48	9	ES		1922	23.60	0.00							1.0
DQRL	SZ	65	357	EP		1922	20.56	0.00							1.0
DQRL	SN	65	357	ES		1922	28.40	0.05							1.0
BHL	BZ	87	3	EP		1922	23.92	-0.19							1.0
HWQ	BZ	132	14	EP		1922	31.17	0.02							1.0
FKH	SZ	146	31	EP		1922	33.26	0.17							1.0
BEIL	SZ	167	19	EP		1922	36.08	-0.08							1.0

**June 12 2021 Hour: 2:32 40.7 Lat: 32.04N Lon: 35.52E Depth: 0 Agency: REL Regional Magnitudes: 3.1MC REL**

**DEAD SEA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	146	8	EP		233	3.62	-0.51	61						1.0
SHBL	SN	146	8	ES		233	21.71	0.22							1.0
RCY	SZ	164	10	EP		233	6.41	-0.30							1.0
QRWL	SZ	168	5	EP		233	7.18	-0.04							1.0
DQRL	SZ	185	1	EP		233	9.77	0.06							1.0
DQRL	SN	185	1	ES		233	31.36	0.15							1.0
BHL	BZ	207	3	EP		233	12.85	0.36							1.0
HWQ	BZ	251	9	EP		233	18.10	0.10							1.0

**June 14 2021 Hour: 2:44 58.6 Agency: REL Regional**  
**EMSC OT=02:44:58.6 12.72N 48.56E 10Km M=5.5 GULF OF ADEN**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ			EP		250	11.08								
RCY	SZ			EP		250	11.90								
QRWL	SZ			EP		250	14.23								
DQRL	SZ			EP		250	15.05								
FKH	SZ			EP		250	15.87								
BHL	BZ			EP		250	14.91								
HWQ	BZ			EP		250	17.78								
BEIL	SZ			EP		250	19.69								

**June 14 2021 Hour: 18:55 55.9 Lat: 35.08N Lon: 37.28E Depth: 0 Agency: REL Regional  
Magnitudes: 3.3MC REL Rms: 0.2 secs**

**SYRIA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	117	239	EP		1856	14.99	0.22							1.0
BEIL	SN	117	239	ES		1856	28.56	-0.18							1.0
FKH	SZ	123	221	EP		1856	15.33	-0.35	80						1.0
HWQ	BZ	152	234	EP		1856	19.95	-0.16							1.0
HWQ	BN	152	234	ES		1856	38.14	0.10							1.0
BHL	BZ	199	229	EP		1856	26.49	-0.22							1.0
BHL	BN	199	229	ES		1856	49.77	0.26							1.0
DQRL	SZ	219	226	EP		1856	29.36	0.08							1.0
RCY	SZ	221	217	EP		1856	29.55	0.06							1.0
QRWL	SZ	225	221	EP		1856	30.16	0.17							1.0
SHBL	SZ	239	217	EP		1856	31.79	0.02							1.0

**June 15 2021 Hour: 23: 8 53.9 Lat: 30.14N Lon: 35.26E Depth: 0 Agency: REL Regional  
Magnitudes: 4.5MC REL Rms: 0.4 secs**

**JORDAN REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	358	7	EP		23	9	44.97	0.39	318					1.0
RCY	SZ	376	8	EP		23	9	46.76	0.01						1.0
RCY	SN	376	8	ES		2310	26.31	0.45							1.0
QRWL	SZ	380	6	EP		23	9	46.92	-0.25						1.0
DQRL	SZ	396	4	EP		23	9	48.94	-0.25						1.0
BHL	BZ	419	5	EP		23	9	51.69	-0.24						1.0
BHL	BN	419	5	ES		2310	34.79	-0.10							1.0
HWQ	BZ	463	8	EP		23	9	57.08	-0.25						1.0
FKH	SZ	468	13	EP		23	9	58.68	0.80						1.0
BEIL	SZ	496	10	EP		2310	1.81	0.62							1.0

**June 16 2021 Hour: 20: 5 20.9 Lat: 33.69N Lon: 35.83E Depth: 6 Agency: REL Local  
Magnitudes: 2.4MC REL Rms: 0.1 secs**

**WEST BEKAA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	20	16	EP		20	5	24.41	0.08						1.0
QRWL	SZ	20	221	EP		20	5	24.35	-0.02	26					1.0
RCY	SZ	21	178	EP		20	5	24.45	-0.05						1.0
RCY	SN	21	178	ES		20	5	27.16	-0.01						1.0
DQRL	SZ	24	276	EP		20	5	25.08	0.16						1.0
DQRL	SN	24	276	ES		20	5	27.90	-0.00						1.0
BHL	BZ	29	327	EP		20	5	25.52	-0.21						1.0
SHBL	SZ	38	192	EP		20	5	27.19	0.02						1.0
HWQ	BZ	67	10	EP		20	5	32.01	0.30						0.2
FKH	SZ	82	41	EP		20	5	34.40	0.19						0.2

**June 17 2021 Hour: 0:15 26.0 Lat: 33.17N Lon: 35.62E Depth: 10 Agency: REL Regional  
Magnitudes: 2.4MC REL Rms: 0.0 secs**

**GOLAN REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	23	30	EP		015	30.23	0.06	26						1.0
SHBL	SN	23	30	ES		015	33.28	-0.00							1.0
RCY	SZ	42	29	EP		015	32.88	-0.07							1.0
RCY	SN	42	29	ES		015	38.13	0.01							1.0
QRWL	SZ	43	8	EP		015	33.07	-0.01							1.0
DQRL	SZ	60	355	EP		015	35.79	-0.01							1.0
ZAHL	SZ	80	18	EP		015	38.99	-0.02							1.0
BHL	BZ	82	2	EP		015	39.22	0.03							1.0
HWQ	BZ	127	14	EP		015	45.99	0.16							0.2

June 17 2021 Hour: 0:35 15.4

Agency: REL Regional

EMSC OT=00:35:15.4 35.60N 24.89E 56Km M=4.3 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		037	17.73								
BHL	BZ			EP		037	17.87								
QRWL	SZ			EP		037	19.59								
HWQ	BZ			EP		037	20.48								
SHBL	SZ			EP		037	20.80								
ZAHL	SZ			EP		037	20.89								
RCY	SZ			EP		037	21.09								
BEIL	SZ			EP		037	22.39								
FKH	SZ			EP		037	25.89								

June 17 2021 Hour: 6: 2 10.5

Lat: 33.71N Lon: 35.51E Depth: 5 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
DQRL	SZ	5	98	EP		6	2	11.71-0.02	39						1.0
DQRL	SN	5	98	ES		6	2	12.72 0.05							1.0
BEYL	SZ	18	353	EP		6	2	13.43-0.00							1.0
SAIL	SZ	19	215	EP		6	2	13.58 0.02							1.0
QRWL	SZ	24	140	EP		6	2	14.36-0.07							1.0
QRWL	SN	24	140	ES		6	2	17.27-0.10							1.0
BHL	BZ	25	31	EP		6	2	14.49-0.09							1.0
ZAHL	SZ	38	65	EP		6	2	16.78 0.14							1.0
RCY	SZ	38	129	EP		6	2	16.75 0.06							1.0
SHBL	SZ	46	152	EP		6	2	17.95 0.07							1.0
HWQ	BZ	74	32	EP		6	2	22.39-0.09							1.0
BEIL	SZ	111	34	EP		6	2	28.33 0.03							1.0

June 17 2021 Hour: 6:20 20.9

Lat: 33.71N Lon: 35.52E Depth: 4 Agency: REL Local

Magnitudes: 2.9MC REL

Rms: 0.1 secs

ALEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	5	98	EP		620	22.08	0.00	53						1.0
DQRL	SN	5	98	ES		620	22.97	0.01							1.0
BEYL	SZ	18	352	EP		620	23.93	0.05							1.0
SAIL	SZ	19	216	EP		620	24.04	0.04							1.0
QRWL	SZ	24	140	EP		620	24.73	-0.09							1.0
QRWL	SN	24	140	ES		620	27.69	-0.03							1.0
BHL	BZ	25	30	EP		620	24.88	-0.11							1.0
ZAHL	SZ	38	64	EP		620	27.11	0.07							1.0
RCY	SZ	38	129	EP		620	27.12	0.04							1.0
RCY	SN	38	129	ES		620	31.75	0.09							1.0
SHBL	SZ	45	153	EP		620	28.22	-0.06							1.0
HWQ	BZ	74	32	EP		620	32.91	0.01							1.0
FKH	SZ	101	54	EP		620	37.20	-0.08							1.0
BEIL	SZ	111	34	EP		620	38.80	0.04							1.0

June 18 2021 Hour: 9:38 17.1

Agency: REL Regional

EMSC OT=09:38:17.1 37.11N 30.79E 100Km M=3.4 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		939	29.86								
BEIL	SZ			EP		939	29.82								
BHL	BZ			EP		939	30.27								
DQRL	SZ			EP		939	31.14								
ZAHL	SZ			EP		939	33.11								
QRWL	SZ			EP		939	34.01								
FKH	SZ			EP		939	34.77								
RCY	SZ			EP		939	36.15								
SHBL	SZ			EP		939	36.77								

June 18 2021 Hour: 16:51 27.8 Agency: REL Regional

EMSC OT=16:51:27.8 35.70N 28.10E 72Km M=4.3 EASTERN MEDITERRANEAN SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1652	56.74								
BHL	BZ			EP		1652	56.28								
HWQ	BZ			EP		1652	59.05								
QRWL	SZ			EP		1652	58.93								
ZAHL	SZ			EP		1652	59.60								
SHBL	SZ			EP		1653	0.82								
BEIL	SZ			EP		1653	0.40								
RCY	SZ			EP		1653	0.61								
FKH	SZ			EP		1653	3.89								

June 18 2021 Hour: 21:38 39.0 Lat: 33.56N Lon: 35.56E Depth: 4 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.1 secs

JEZZINE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	12	97	EP		2138	40.93-0.08		32						1.0
QRWL	SN	12	97	ES		2138	42.51 0.01								1.0
SAIL	SZ	15	277	EP		2138	41.46-0.01								1.0
DQRL	SZ	16	4	EP		2138	41.75 0.03								1.0
DQRL	SN	16	4	ES		2138	43.78 0.03								1.0
RCY	SZ	27	105	EP		2138	43.41 0.04								1.0
SHBL	SZ	29	144	EP		2138	43.79 0.03								1.0
SHBL	SN	29	144	ES		2138	47.29-0.00								1.0
BHL	BZ	39	13	EP		2138	45.27-0.08								1.0
HWQ	BZ	87	24	EP		2138	53.62 0.53								0.2

June 19 2021 Hour: 16:38 10.1 Lat: 33.29N Lon: 35.57E Depth: 8 Agency: REL Local  
Magnitudes: 2.5MC REL Rms: 0.1 secs

NABATIYE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	18	69	EP		1638	13.45 0.10		29						1.0
SHBL	SN	18	69	ES		1638	15.78 0.02								1.0
QRWL	SZ	30	20	EP		1638	15.15-0.08								1.0
RCY	SZ	34	47	EP		1638	15.54-0.23								1.0
RCY	SN	34	47	ES		1638	19.99 0.02								1.0
SAIL	SZ	35	334	EP		1638	16.05 0.10								0.2
DQRL	SZ	46	0	EP		1638	17.73 0.05								1.0
BHL	BZ	69	7	EP		1638	21.22-0.04								1.0
ZAHL	SZ	69	25	EP		1638	21.54 0.13								1.0
HWQ	BZ	115	18	EP		1638	28.78 0.42								0.2

June 20 2021 Hour: 12:24 8.2

Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ			EP		1224	26.83								
RCY	SZ			EP		1224	27.25								
HWQ	BZ			EP		1224	27.70								
BEIL	SZ			EP		1224	28.28								
QRWL	SZ			EP		1224	28.38								
SHBL	SZ			EP		1224	28.58								
BHL	BZ			EP		1224	28.56								

June 20 2021 Hour: 13:56 41.4

Agency: REL Regional

EMSC OT=13:56:41.4 37.44N 37.98E 7Km M=4.1 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1357	26.60								
FKH	SZ			EP		1357	28.26								
HWQ	BZ			EP		1357	37.71								
ZAHL	SZ			EP		1357	47.05								
BHL	BZ			EP		1357	45.70								
DQRL	SZ			EP		1357	44.85								
RCY	SZ			EP		1357	51.83								

QRWL SZ EP 1357 52.45

June 20 2021 Hour: 16:34 33.8 Lat: 34.22N Lon: 36.39E Depth: 10 Agency: REL Local  
Magnitudes: 2.6MC REL Rms: 0.1 secs

**BAALBECK REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	3	31	EP		1634	35.61-0.11	37							1.0
FKH	SN	3	31	ES		1634	37.21 0.05								1.0
BEIL	SZ	40	332	EP		1634	40.58 0.07								1.0
HWQ	BZ	42	279	EP		1634	40.65-0.09								1.0
HWQ	BN	42	279	ES		1634	45.89-0.02								1.0
ZAHL	SZ	62	229	EP		1634	44.05 0.12								1.0
BHL	BZ	77	243	EP		1634	46.21-0.07								1.0
DQRL	SZ	95	233	EP		1634	49.16 0.17								1.0
RCY	SZ	96	213	EP		1634	48.99-0.08								1.0
RCY	SN	96	213	ES		1635	0.37-0.02								1.0
SHBL	SZ	114	212	EP		1634	51.77-0.02								1.0

June 20 2021 Hour: 17: 5 48.1

Agency: REL Distant

**EMSC OT=17:05:48.1 30.40S 177.81W 10Km M=6.3 KERMADEC ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ			EP		1725	34.92								
BHL	BZ			EP		1725	34.43								
HWQ	BZ			EP		1725	34.27								
RCY	SZ			EP		1725	35.73								
QRWL	SZ			EP		1725	35.08								
FKH	SZ			EP		1725	34.92								
BEIL	SZ			EP		1725	36.55								
SHBL	SZ			EP		1725	35.90								

June 20 2021 Hour: 17:24 33.7

Agency: REL Distant

**EMSC OT=17:24:33.7 30.24S 177.51W 10Km M=5.5 KERMADEC ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1744	27.81								
BEIL	SZ			EP		1744	28.28								
HWQ	BZ			EP		1744	28.22								
ZAHL	SZ			EP		1744	29.00								
RCY	SZ			EP		1744	28.82								
SHBL	SZ			EP		1744	29.00								
BHL	BZ			EP		1744	28.88								
QRWL	SZ			EP		1744	29.06								
DQRL	SZ			EP		1744	29.77								

June 21 2021 Hour: 20: 2 37.2

Lat: 34.32N Lon: 35.65E Depth: 0 Agency: REL Local

Magnitudes: 2.6MC REL

Rms: 0.1 secs

**OFFSHORE NORTH LEBANON**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	27	100	EP		20	2	41.58-0.06	32						1.0
HWQ	BN	27	100	ES		20	2	44.86-0.04							1.0
BHL	BZ	46	180	EP		20	2	44.68-0.06							1.0
BEIL	SZ	54	63	EP		20	2	46.12 0.10							1.0
DQRL	SZ	69	187	EP		20	2	48.30-0.06							1.0
RCY	SZ	93	170	EP		20	2	52.29 0.02							1.0
RCY	SN	93	170	ES		20	3	3.49 0.10							1.0
SHBL	SZ	108	176	EP		20	2	54.73 0.00							1.0

June 21 2021 Hour: 22:14 14.9

Agency: REL Regional

**EMSC OT=22:14:14.9 36.38N 27.10E 11Km M=5.5 DODECANESE-TURKEY BORDER REG**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEYL	SZ			EP		2216	0.64								
BHL	BZ			EP		2216	1.41								
HWQ	BZ			EP		2216	3.02								
DQRL	SZ			EP		2216	1.64								
ZAHL	SZ			EP		2216	4.02								

SAIL SZ		EP	2216	7.40
QRWL SZ		EP	2216	4.32
BEIL SZ		EP	2216	5.17
RCY SZ		EP	2216	10.62
FKH SZ		EP	2216	9.09
SHBL SZ		EP	2216	6.32

June 21 2021 Hour: 23:47 26.8

Agency: REL Regional

**EMSC OT=23:47:26.8 36.37N 27.08E 16Km M=3.9 DODECANESE-TURKEY BORDER REG**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2349									
QRWL SZ				EP		2349									
ZAHL SZ				EP		2349									
BEIL SZ				EP		2349									
SHBL SZ				EP		2349									
RCY SZ				EP		2349									

June 22 2021 Hour: 15:44 27.3

Agency: REL Regional

**EMSC OT=15:44:27.3 36.38N 27.11E 15Km M=4.2 DODECANESE -TURKEY BORDER REG**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1546									
QRWL SZ				EP		1546									
BEIL SZ				EP		1546									
SHBL SZ				EP		1546									
RCY SZ				EP		1546									

June 22 2021 Hour: 22:21 2.0

Lat: 33.99N Lon: 35.74E Depth: 0 Agency: REL Local  
Magnitudes: 2.8MC REL

Rms: 0.1 secs

#### KESROUAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	221	EP		2221			3.81-0.14		47				1.0
ZAHL SZ		20	137	EP		2221			4.91-0.24						1.0
ZAHL SN		20	137	ES		2221			7.60 0.11						1.0
DQRL SZ		35	207	EP		2221			7.62-0.00						1.0
DQRL SN		35	207	ES		2221			11.90 0.10						1.0
HWQ	BZ	37	30	EP		2221			8.19 0.17						1.0
QRWL SZ		49	186	EP		2221			10.04 0.15						1.0
QRWL SN		49	186	ES		2221			15.65-0.10						1.0
RCY SZ		55	171	EP		2221			10.84-0.04						1.0
SHBL SZ		71	180	EP		2221			13.52 0.11						1.0
BEIL SZ		74	33	EP		2221			13.79-0.11						1.0

June 23 2021 Hour: 14:58 10.0

Lat: 33.66N Lon: 35.49E Depth: 7 Agency: REL Local  
Magnitudes: 2.3MC REL

#### CHOUF REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL SZ		9	57	EP		1458			11.92-0.07						1.0
DQRL SN		9	57	ES		1458			13.56 0.07						1.0
SAIL SZ		12	220	EP		1458			12.32-0.01		24				1.0
QRWL SZ		22	125	EP		1458			13.58-0.20						1.0
BHL	BZ	31	30	EP		1458			15.19 0.03						1.0
RCY SZ		37	119	EP		1458			16.12-0.01						1.0
SHBL SZ		42	145	EP		1458			17.11 0.20						1.0

June 23 2021 Hour: 15:35 23.1

Lat: 33.66N Lon: 35.49E Depth: 6 Agency: REL Local  
Magnitudes: 2.4MC REL

#### CHOUF REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL SZ		9	52	EP		1535			24.99 0.01		27				1.0
DQRL SN		9	52	ES		1535			26.38 0.00						1.0
SAIL SZ		12	224	EP		1535			25.39 0.02						1.0
QRWL SZ		21	124	EP		1535			26.65-0.06						1.0
BHL	BZ	31	28	EP		1535			28.25-0.04						1.0
RCY SZ		36	119	EP		1535			29.16 0.08						1.0

RCY	SN	36	119	ES	1535	33.52	0.00	1.0
SHBL	SZ	41	146	EP	1535	29.84	-0.03	1.0
ZAHL	SZ	43	58	EP	1535	30.15	0.07	0.2
HWQ	BZ	81	31	EP	1535	36.45	0.28	0.2

June 24 2021 Hour: 6:45 39.9 Lat: 33.57N Lon: 35.51E Depth: 2 Agency: REL Local  
Magnitudes: 2.6MC REL

#### JEZZINE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	16	20	EP		645	42.50	-0.05	35						1.0
DQRL	SN	16	20	ES		645	44.47	-0.01							1.0
QRWL	SZ	16	99	EP		645	42.57	-0.01	36						1.0
QRWL	SN	16	99	ES		645	44.53	0.01							1.0
RCY	SZ	31	105	EP		645	45.00	-0.01							1.0
SHBL	SZ	33	139	EP		645	45.27	0.00							1.0
BHL	BZ	39	20	EP		645	46.37	0.08							1.0
HWQ	BZ	88	27	EP		645	54.17	0.00							1.0
BEIL	SZ	124	30	EP		645	59.97	-0.01							1.0

June 24 2021 Hour: 16:10 57.5 Agency: REL Regional  
**EMSC OT=16:10:57.5 36.95N 36.84E 7Km M=2.8 TURKEY-SYRIA BORDER REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1611	38.89								
FKH	SZ			EP		1611	41.69								
HWQ	BZ			EP		1611	42.71								

June 24 2021 Hour: 22:22 20.6 Agency: REL Distant  
**EMSC OT=22:22:20.6 34.95S 179.19E 176Km M=5.3 SOUTH OF KERMADEC**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		2241	48.44								
BEIL	SZ			EP		2241	48.86								
HWQ	BZ			EP		2241	48.86								
ZAHL	SZ			EP		2241	49.48								
RCY	SZ			EP		2241	49.25								
SHBL	SZ			EP		2241	49.48								
QRWL	SZ			EP		2241	49.59								
BHL	BZ			EP		2241	49.63								
DQRL	SZ			EP		2241	49.94								

June 25 2021 Hour: 1:59 39.9 Lat: 33.74N Lon: 35.37E Depth: 0 Agency: REL Local  
Magnitudes: 2.8MC REL

#### OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	19	100	EP		159	42.73	-0.16	47						1.0
DQRL	SN	19	100	ES		159	45.23	0.09							1.0
BEYL	SZ	19	37	EP		159	43.06	0.14							1.0
BHL	BZ	32	54	EP		159	44.81	-0.26							1.0
QRWL	SZ	36	126	EP		159	45.57	-0.03							1.0
QRWL	SN	36	126	ES		159	49.91	0.06							1.0
ZAHL	SZ	50	74	EP		159	47.80	-0.06							1.0
RCY	SZ	51	121	EP		159	48.01	-0.02							1.0
SHBL	SZ	55	141	EP		159	48.82	0.07							1.0
HWQ	BZ	80	41	EP		159	52.96	0.13							1.0
BEIL	SZ	117	40	EP		159	58.76	0.05							1.0

June 25 2021 Hour: 18:28 41.5 Agency: REL Regional  
**EMSC OT=18:28:41.5 39.19N 40.23E 16Km M=5.4 EASTERN TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1830	3.06								
FKH	SZ			EP		1830	5.22								
HWQ	BZ			EP		1830	7.90								
ZAHL	SZ			EP		1830	14.83								
BHL	BZ			EP		1830	14.13								
DQRL	SZ			EP		1830	17.65								

RCY SZ		EP	1830	18.09
QRWL SZ		EP	1830	17.91
SHBL SZ		EP	1830	21.34

June 25 2021 Hour: 19: 6 14.6 Lat: 33.61N Lon: 35.98E Depth: 7 Agency: REL Local  
**Magnitudes: 2.8MC REL**

**RACHAYA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	19	226	EP		19 6	17.86	-0.10	45						1.0
RCY	SN	19	226	ES		19 6	20.46	0.01							1.0
ZAHL	SZ	28	342	EP		19 6	19.49	0.08							1.0
QRWL	SZ	29	255	EP		19 6	19.52	0.10							1.0
SHBL	SZ	37	217	EP		19 6	20.74	0.03							1.0
DQRL	SZ	39	285	EP		19 6	21.08	-0.02							1.0
DQRL	SN	39	285	ES		19 6	25.93	0.01							1.0
BHL	BZ	44	317	EP		19 6	21.74	-0.11							1.0
HWQ	BZ	74	358	EP		19 6	26.56	-0.01							1.0
FKH	SZ	80	29	EP		19 6	27.70	0.05							0.2
BEIL	SZ	105	10	EP		19 6	31.36	0.01							1.0

June 26 2021 Hour: 22:52 36.5 Agency: REL Distant  
**EMSC OT=22:52:36.5 28.49S 176.47W 10Km M=5.1 KERMADEC ISLANDS**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2312	33.70								
BHL	BZ			EP		2312	32.86								
QRWL	SZ			EP		2312	33.46								
HWQ	BZ			EP		2312	31.96								
ZAHL	SZ			EP		2312	33.22								
SHBL	SZ			EP		2312	33.64								
RCY	SZ			EP		2312	32.98								
BEIL	SZ			EP		2312	31.84								
FKH	SZ			EP		2312	31.96								

June 27 2021 Hour: 22:15 29.8 Agency: REL Distant  
**EMSC OT=22:15:29.8 8.17S 110.67E 100Km M=4.9 JAVA, INDONESIA**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2227	39.85								
RCY	SZ			EP		2227	40.28								
SHBL	SZ			EP		2227	40.40								
HWQ	BZ			EP		2227	40.52								
QRWL	SZ			EP		2227	41.00								
BHL	BZ			EP		2227	41.24								
DQRL	SZ			EP		2227	41.54								

June 29 2021 Hour: 3:41 57.6 Agency: REL Regional  
**EMSC OT=03:41:57.6 38.53N 39.60E 5Km M=4.1 EASTERN TURKEY**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		343	10.63								
FKH	SZ			EP		343	12.29								
HWQ	BZ			EP		343	15.19								
ZAHL	SZ			EP		343	21.18								
BHL	BZ			EP		343	21.12								
DQRL	SZ			EP		343	23.04								
RCY	SZ			EP		343	25.68								
QRWL	SZ			EP		343	25.71								
SHBL	SZ			EP		343	28.00								

June 30 2021 Hour: 11:56 32.4 Lat: 33.82N Lon: 36.90E Depth: 0 Agency: REL Regional  
**Magnitudes: 3.1MC REL**

**SYRIA REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	66	316	EP		1156	42.88	-0.08	70						1.0
FKH	SN	66	316	ES		1156	50.70	-0.08							1.0
HWQ	BZ	102	300	EP		1156	48.88	0.05							1.0

BEIL SZ	104	321	EP	1156	49.25	0.10	1.0
BEIL SN	104	321	ES	1157	1.58	0.03	1.0
RCY SZ	105	250	EP	1156	49.33	-0.07	1.0
RCY SN	105	250	ES	1157	2.01	0.04	1.0
QRWL SZ	117	255	EP	1156	51.39	0.08	1.0
SHBL SZ	120	244	EP	1156	51.64	-0.07	1.0

**June 30 2021 Hour: 14:48 2.1 Lat: 34.19N Lon: 36.36E Depth: 0 Agency: REL Local Magnitudes: 2.5MC REL**

**BAALBECK REGION**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	8	34	EP	1448	3.25	-0.06	31							1.0
HWQ	BZ	40	285	EP	1448	8.30	-0.20								1.0
HWQ	BN	40	285	ES	1448	13.16	-0.09								1.0
BEIL	SZ	43	337	EP	1448	8.79	-0.15								1.0
BEIL	SN	43	337	ES	1448	14.33	0.32								1.0
ZAHL	SZ	58	230	EP	1448	11.70	0.34								1.0
ZAHL	SN	58	230	ES	1448	18.33	0.11								1.0
BHL	BZ	73	245	EP	1448	13.59	-0.23								1.0
RCY	SZ	91	213	EP	1448	16.97	0.20								1.0
QRWL	SZ	95	222	EP	1448	17.23	-0.19								1.0
SHBL	SZ	110	212	EP	1448	19.70	-0.05								1.0

# Epicentral Map of Lebanon

## JUNE 2021

