

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

August

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.

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.

August 1 2021 Hour: 4:31 27.4 **Agency: REL Regional**
EMSC OT=04:31:27.4 36.37N 27.10E 14Km M=5.7 DODECANESE-TURKEY REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEYL SZ EP 433 14.31
 BHL BZ EP 433 12.84
 HWQ BZ EP 433 15.49
 DQRL SZ EP 433 14.72
 ZAHL SZ EP 433 17.05
 SAIL SZ EP 433 19.35
 QRWL SZ EP 433 16.66
 BEIL SZ EP 433 16.98
 RCY SZ EP 433 18.66
 FKH SZ EP 433 21.48
 SHBL SZ EP 433 18.37

August 1 2021 Hour: 5:12 34.7 **Agency: REL Regional**
EMSC OT=05:12:34.7 36.34N 27.05E 16Km M=4.2 DODECANESE-TURKEY REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 DQRL SZ EP 514 25.62
 HWQ BZ EP 514 25.46
 QRWL SZ EP 514 26.51
 BEIL SZ EP 514 26.16
 ZAHL SZ EP 514 26.06
 SHBL SZ EP 514 27.87
 RCY SZ EP 514 27.07
 FKH SZ EP 514 30.98

August 1 2021 Hour: 8:37 32.4 **Agency: REL Regional**
EMSC OT=08:37:32.4 36.33N 27.04E 5Km M=4.3 DODECANESE-TURKEY REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ BZ EP 839 22.39
 ZAHL SZ EP 839 22.08
 BEIL SZ EP 839 23.25
 RCY SZ EP 839 24.42
 SHBL SZ EP 839 24.81

August 1 2021 Hour: 9:14 28.5 **Agency: REL Regional**
EMSC OT=09:14:28.5 36.34N 27.07E 10Km M=4.5 DODECANESE-TURKEY REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 916 17.68
 HWQ BZ EP 916 18.39
 QRWL SZ EP 916 19.62
 ZAHL SZ EP 916 19.26
 BEIL SZ EP 916 20.21
 SHBL SZ EP 916 20.37
 RCY SZ EP 916 20.65
 FKH SZ EP 916 23.68

August 1 2021 Hour: 16: 4 41.8 **Agency: REL Regional**
EMSC OT=16:04:41.8 36.46N 27.01E 6Km M=4.1 DODECANESE-TURKEY REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ BZ EP 16 6 32.33
 ZAHL SZ EP 16 6 33.35
 BEIL SZ EP 16 6 33.50
 SHBL SZ EP 16 6 34.82
 RCY SZ EP 16 6 33.46

August 1 2021 Hour: 17:44 25.2 Agency: REL Regional

EMSC OT=17:44:25.2 36.43N 27.15E 16Km M=4.2 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1746	14.15								
QRWL	SZ			EP		1746	15.29								
BEIL	SZ			EP		1746	15.15								
ZAHL	SZ			EP		1746	14.95								
SHBL	SZ			EP		1746	16.56								
RCY	SZ			EP		1746	16.70								
FKH	SZ			EP		1746	19.31								

August 2 2021 Hour: 0:31 17.6 Lat: 33.71N Lon: 35.78E Depth: 6 Agency: REL Local

Magnitudes: 2.7MC REL

Rms: 0.1 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	19	30	EP		031	20.96	0.01	42						1.0
DQRL	SZ	20	269	EP		031	21.09	0.06							1.0
DQRL	SN	20	269	ES		031	23.58	0.03							1.0
QRWL	SZ	20	207	EP		031	21.06	-0.06							1.0
RCY	SZ	24	168	EP		031	21.67	-0.08							1.0
RCY	SN	24	168	ES		031	24.84	0.04							1.0
BHL	BZ	25	331	EP		031	21.64	-0.13							1.0
BHL	BN	25	331	ES		031	24.84	-0.01							1.0
SHBL	SZ	40	185	EP		031	24.29	0.03							1.0
HWQ	BZ	65	14	EP		031	28.24	0.09							1.0

August 2 2021 Hour: 1:37 36.2

Agency: REL Distant

EMSC OT=01:27:36.2 30.57S 177.67W 10Km M=5.6 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		147	29.90								
BEIL	SZ			EP		147	29.69								
HWQ	BZ			EP		147	30.75								
ZAHL	SZ			EP		147	31.31								
BHL	BZ			EP		147	30.61								
RCY	SZ			EP		147	30.68								
QRWL	SZ			EP		147	31.59								
DQRL	SZ			EP		147	30.89								
SHBL	SZ			EP		147	31.10								

August 2 2021 Hour: 3:28 59.9

Agency: REL Distant

EMSC OT=03:28:59.9 44.10N 148.37E 37Km M=5.4 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		341	8.31								
FKH	SZ			EP		341	8.81								
HWQ	BZ			EP		341	9.46								
ZAHL	SZ			EP		341	11.91								
BHL	BZ			EP		341	12.13								
DQRL	SZ			EP		341	13.57								
RCY	SZ			EP		341	13.28								
QRWL	SZ			EP		341	13.64								
SHBL	SZ			EP		341	14.00								

August 2 2021 Hour: 22:48 50.4

Agency: REL Distant

EMSC OT=22:48:50.4 3.07S 100.28E 10Km M=5.8 KEP.MENTAWAI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		23	0	8.17							
BEIL	SZ			EP		23	0	8.46							
ZAHL	SZ			EP		23	0	8.68							
SHBL	SZ			EP		23	0	8.24							
HWQ	BZ			EP		23	0	8.02							
QRWL	SZ			EP		23	0	8.98							
BHL	BZ			EP		23	0	8.98							
DQRL	SZ			EP		23	0	9.87							

August 3 2021 Hour: 12:38 21.0 Agency: REL Regional

EMSC OT=12:38:21.0 36.35N 26.99E 53Km M=5.2 DODECANESE ISLANDS, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1240	5.62								
DQRL	SZ			EP		1240	7.05								
HWQ	BZ			EP		1240	8.18								
QRWL	SZ			EP		1240	8.94								
BEIL	SZ			EP		1240	9.40								
SHBL	SZ			EP		1240	10.82								
RCY	SZ			EP		1240	11.08								
FKH	SZ			EP		1240	14.51								

August 3 2021 Hour: 17:39 58.5 Agency: REL Regional

EMSC OT=17:39:58.5 36.33N 27.09E 13Km M=4.1 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1741	49.06								
QRWL	SZ			EP		1741	49.69								
BEIL	SZ			EP		1741	50.10								
SHBL	SZ			EP		1741	51.25								
RCY	SZ			EP		1741	50.63								
FKH	SZ			EP		1741	55.33								

August 3 2021 Hour: 19:53 15.4 Agency: REL Regional

EMSC OT=19:53:15.4 36.37N 27.02E 10Km M=4.6 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1955	2.19								
DQRL	SZ			EP		1955	2.71								
HWQ	BZ			EP		1955	4.65								
QRWL	SZ			EP		1955	5.33								
BEIL	SZ			EP		1955	5.56								
ZAHL	SZ			EP		1955	5.30								
SHBL	SZ			EP		1955	7.01								
RCY	SZ			EP		1955	6.66								

August 3 2021 Hour: 20:33 33.6 Agency: REL Distant

EMSC OT=20:33:33.6 36.18N 142.05E 10Km M=5.8 EAST COAST HONSHU, JAPAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2045	51.60								
FKH	SZ			EP		2045	51.81								
HWQ	BZ			EP		2045	53.06								
ZAHL	SZ			EP		2045	54.84								
BHL	BZ			EP		2045	54.73								
RCY	SZ			EP		2045	55.88								
QRWL	SZ			EP		2045	56.20								
SHBL	SZ			EP		2045	57.14								

August 3 2021 Hour: 22:50 42.8 Agency: REL Regional

EMSC OT=22:50:42.8 36.31N 27.06E 10Km M=4.3 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		2252	33.25								
QRWL	SZ			EP		2252	33.46								
ZAHL	SZ			EP		2252	33.58								
BEIL	SZ			EP		2252	34.45								
RCY	SZ			EP		2252	35.15								
SHBL	SZ			EP		2252	36.06								

August 4 2021 Hour: 6:1 58.3 Agency: REL Distant

EMSC OT=06:01:58.3 20.47S 178.18W 545Km M=4.8 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		620	39.68								
FKH	SZ			EP		620	39.68								
HWQ	BZ			EP		620	39.91								
BHL	BZ			EP		620	41.18								

RCY	SZ		EP	620	41.24
DQRL	SZ		EP	620	41.70
QRWL	SZ		EP	620	41.53
SHBL	SZ		EP	620	41.70

August 4 2021 Hour: 21:41 20.7 Lat: 33.34N Lon: 35.51E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC 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	21	88	EP		2141	24.16	-0.01	38						1.0
QRWL	SZ	28	34	EP		2141	25.04	-0.14							1.0
RCY	SZ	34	60	EP		2141	26.27	-0.01							1.0
RCY	SN	34	60	ES		2141	30.47	0.08							1.0
DQRL	SZ	41	7	EP		2141	27.46	0.17							1.0
DQRL	SN	41	7	ES		2141	32.10	-0.05							1.0
BHL	BZ	64	12	EP		2141	31.02	0.02							1.0
ZAHL	SZ	67	31	EP		2141	31.44	-0.06							1.0
HWQ	BZ	111	21	EP		2141	38.68	0.01							1.0

August 4 2021 Hour: 21:43 29.0 Lat: 33.18N Lon: 35.22E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

SOUR REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	52	69	EP		2143	37.44	-0.06	38						1.0
QRWL	SZ	59	46	EP		2143	38.73	0.11							1.0
QRWL	SN	59	46	ES		2143	45.85	0.13							1.0
DQRL	SZ	67	29	EP		2143	39.70	-0.13							1.0
DQRL	SN	67	29	ES		2143	47.69	-0.13							1.0
RCY	SZ	67	58	EP		2143	39.77	-0.14							1.0
BHL	BZ	90	27	EP		2143	43.50	-0.06							1.0
ZAHL	SZ	98	39	EP		2143	44.77	0.01							1.0
HWQ	BZ	139	29	EP		2143	51.71	0.26							1.0

August 5 2021 Hour: 17:24 19.2 Lat: 33.62N Lon: 35.98E Depth: 4 Agency: REL Local
Magnitudes: 3.0MC 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	19	224	EP		1724	22.30	-0.13	57						1.0
RCY	SN	19	224	ES		1724	24.79	0.00							1.0
ZAHL	SZ	28	342	EP		1724	24.04	0.19							1.0
QRWL	SZ	28	254	EP		1724	23.96	0.05							1.0
SHBL	SZ	37	216	EP		1724	25.36	0.08							1.0
DQRL	SZ	39	285	EP		1724	25.66	0.08							1.0
DQRL	SN	39	285	ES		1724	30.27	-0.01							1.0
BHL	BZ	44	317	EP		1724	26.12	-0.21							1.0
HWQ	BZ	73	358	EP		1724	31.01	-0.09							1.0
FKH	SZ	80	30	EP		1724	32.15	-0.07							1.0
BEIL	SZ	104	11	EP		1724	36.18	0.10							1.0

August 5 2021 Hour: 20:40 14.2 Lat: 33.77N Lon: 34.88E Depth: 29 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	64	96	EP		2040	25.27	0.15	40						1.0
BHL	BZ	73	78	EP		2040	26.18	-0.16							1.0
QRWL	SZ	78	108	EP		2040	27.12	0.06							1.0
QRWL	SN	78	108	ES		2040	36.58	0.00							1.0
SHBL	SZ	93	120	EP		2040	29.06	-0.10							1.0
SHBL	SN	93	120	ES		2040	40.21	-0.01							1.0
ZAHL	SZ	93	84	EP		2040	29.28	0.04							1.0
RCY	SZ	94	109	EP		2040	29.29	0.02							1.0
HWQ	BZ	113	60	EP		2040	31.71	-0.03							1.0
BEIL	SZ	147	54	EP		2040	35.97	0.04							1.0

August 6 2021 Hour: 19:57 6.7 Agency: REL Regional
EMSC OT=19:57:06.7 36.34N 27.07E 13Km M=4.2 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1958	56.90								
QRWL	SZ			EP		1958	56.81								
RCY	SZ			EP		1958	58.83								
SHBL	SZ			EP		1958	59.28								
FKH	SZ			EP		1959	1.40								

August 6 2021 Hour: 20:41 58.4 Agency: REL Regional
EMSC OT=20:41:58.4 36.30N 27.00E 12Km M=4.1 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		2043	48.83								
HWQ	BZ			EP		2043	49.78								
ZAHL	SZ			EP		2043	50.16								
RCY	SZ			EP		2043	51.73								
SHBL	SZ			EP		2043	52.07								

August 7 2021 Hour: 1:39 45.1 Agency: REL Regional
EMSC OT=01:39:45.1 36.31N 27.06E 12Km M=5.1 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		141	33.56								
BHL	BZ			EP		141	32.68								
QRWL	SZ			EP		141	34.74								
HWQ	BZ			EP		141	35.42								
ZAHL	SZ			EP		141	35.81								
SHBL	SZ			EP		141	36.99								
RCY	SZ			EP		141	36.99								
FKH	SZ			EP		141	40.36								

August 8 2021 Hour: 9:13 9.9 Agency: REL Regional
EMSC OT=09:13:09.9 36.02N 28.59E 30Km M=3.5 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		914	37.12								
DQRL	SZ			EP		914	37.67								
HWQ	BZ			EP		914	40.10								
QRWL	SZ			EP		914	41.01								
ZAHL	SZ			EP		914	40.72								
SHBL	SZ			EP		914	42.82								
RCY	SZ			EP		914	42.92								

August 11 2021 Hour: 15:21 5.7 Agency: REL Regional
EMSC OT=15:21:05.7 35.19N 33.03E 23Km M=2.0 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ			EP		1521	41.20								
HWQ	BZ			EP		1521	42.72								
QRWL	SZ			EP		1521	43.61								
SHBL	SZ			EP		1521	47.49								
RCY	SZ			EP		1521	45.87								

August 11 2021 Hour: 17:46 13.6 Agency: REL Distant
EMSC OT=17:46:13.6 6.54N 126.73E 57Km M=7.1 MINDANAO,PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1758	51.84								
HWQ	BZ			EP		1758	53.01								
ZAHL	SZ			EP		1758	53.91								
RCY	SZ			EP		1758	54.19								
BHL	BZ			EP		1758	54.37								
SHBL	SZ			EP		1758	54.46								
QRWL	SZ			EP		1758	54.91								
DQRL	SZ			EP		1758	55.27								

August 12 2021 Hour: 3:47 0.5

Agency: REL Distant

EMSC OT=03:47:00.5 18.37S 177.85W 525Km M=5.5 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		4	5	39.21							
BEIL	SZ			EP		4	5	39.18							
BHL	BZ			EP		4	5	40.18							
FKH	SZ			EP		4	5	40.71							
DQRL	SZ			EP		4	5	41.00							
QRWL	SZ			EP		4	5	40.58							
RCY	SZ			EP		4	5	40.46							
SHBL	SZ			EP		4	5	40.59							

August 12 2021 Hour: 10:12 44.2

Lat: 33.85N

Lon: 36.11E

Depth: 10

Agency: REL

Local

Magnitudes: 2.7MC REL

Rms: 0.2 secs

BAALBECK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	21	274	EP		1012	48.21	0.09							1.0
BHL	BZ	43	279	EP		1012	51.05	-0.35							1.0
RCY	SZ	46	214	EP		1012	51.58	-0.37	37						1.0
RCY	SN	46	214	ES		1012	57.74	0.08							1.0
HWQ	BZ	51	342	EP		1012	52.65	0.07							1.0
HWQ	BN	51	342	ES		1012	58.78	0.02							1.0
QRWL	SZ	52	231	EP		1012	53.16	0.38							1.0
FKH	SZ	52	32	EP		1012	52.60	-0.23							0.2
DQRL	SZ	53	253	EP		1012	52.97	0.06							1.0
SHBL	SZ	65	212	EP		1012	54.86	0.00							1.0
BEIL	SZ	78	5	EP		1012	56.87	0.03							1.0

August 13 2021 Hour: 15: 8 30.1

Agency: REL Distant

EMSC OT=15:08:30.1 13.69N 120.77E 118Km M=5.8 MINDORO, PHILIPPINES

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1520	15.83								
HWQ	BZ			EP		1520	17.28								
ZAHL	SZ			EP		1520	18.44								
RCY	SZ			EP		1520	19.03								
BHL	BZ			EP		1520	19.03								
QRWL	SZ			EP		1520	19.39								
SHBL	SZ			EP		1520	19.53								
DQRL	SZ			EP		1520	19.83								

August 13 2021 Hour: 18:46 53.9

Agency: REL Distant

EMSC OT=18:46:53.9 27.43S 176.41W 10Km M=5.9 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		19	6	49.52							
HWQ	BZ			EP		19	6	49.11							
ZAHL	SZ			EP		19	6	50.00							
BHL	BZ			EP		19	6	50.06							
RCY	SZ			EP		19	6	49.94							
QRWL	SZ			EP		19	6	50.66							
DQRL	SZ			EP		19	6	51.20							
SHBL	SZ			EP		19	6	50.42							

August 14 2021 Hour: 10:12 42.6

Lat: 33.52N

Lon: 34.66E

Depth: 31

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
SAIL	SZ	69	85	EP		1012	54.03	-0.10							1.0
DQRL	SZ	87	76	EP		1012	56.99	0.31	34						1.0
DQRL	SN	87	76	ES		1013	7.07	-0.06							1.0
QRWL	SZ	95	88	EP		1012	57.64	-0.04							1.0
QRWL	SN	95	88	ES		1013	8.87	0.02							1.0
BHL	BZ	101	65	EP		1012	58.62	0.12							1.0
SHBL	SZ	102	100	EP		1012	58.54	-0.14							1.0

RCY	SZ	109	91	EP		1012	59.60	0.10											1.0
HWQ	BZ	145	54	EP		1013	3.80	-0.20											1.0

August 14 2021 Hour: 11:57 42.4

Agency: REL Distant

EMSC OT=11:57:42.4 55.32N 157.71W 10Km M=7.0 ALASKA PENINSULA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1210	41.75								
HWQ	BZ			EP		1210	42.40								
BHL	BZ			EP		1210	44.14								
DQRL	SZ			EP		1210	45.44								
RCY	SZ			EP		1210	45.44								
QRWL	SZ			EP		1210	45.55								
SHBL	SZ			EP		1210	46.20								

August 17 2021 Hour: 17:24 46.1

Agency: REL Distant

EMSC OT=17:24:46.1 23.26S 176.98W 139Km M=6.3 SOUTH OF FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		1744	19.67								
HWQ	BZ			EP		1744	20.05								
ZAHL	SZ			EP		1744	20.50								
BHL	BZ			EP		1744	21.15								
RCY	SZ			EP		1744	21.15								
DQRL	SZ			EP		1744	21.79								
QRWL	SZ			EP		1744	21.53								
SHBL	SZ			EP		1744	21.60								
SAIL	SZ			EP		1744	21.79								

August 17 2021 Hour: 19:35 46.3

Lat: 33.59N Lon: 35.68E Depth: 5 Agency: REL Local

Magnitudes: 2.6MC REL

Rms: 0.1 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	4	174	EP		1935	47.58	-0.05	33						1.0
DQRL	SZ	16	323	EP		1935	49.17	-0.04							1.0
DQRL	SN	16	323	ES		1935	51.39	0.06							1.0
RCY	SZ	18	124	EP		1935	49.38	-0.07							1.0
RCY	SN	18	124	ES		1935	51.80	0.06							1.0
SHBL	SZ	27	167	EP		1935	50.94	0.05							1.0
BHL	BZ	35	357	EP		1935	52.12	-0.01							1.0
ZAHL	SZ	36	33	EP		1935	52.18	-0.04							1.0
HWQ	BZ	81	18	EP		1935	59.84	0.45							0.2

August 19 2021 Hour: 11: 6 14.8

Agency: REL Regional

EMSC OT=11:06:14.8 36.41N 27.04E 9Km M=4.3 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		11 8	5.48								
QRWL	SZ			EP		11 8	6.14								
BEIL	SZ			EP		11 8	5.82								
RCY	SZ			EP		11 8	7.90								
FKH	SZ			EP		11 8	10.34								

August 19 2021 Hour: 11:26 32.5

Agency: REL Regional

EMSC OT=11:26:32.5 36.43N 27.09E 10Km M=4.7 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1128	19.71								
DQRL	SZ			EP		1128	20.56								
HWQ	BZ			EP		1128	21.40								
BEIL	SZ			EP		1128	22.19								
QRWL	SZ			EP		1128	23.18								
RCY	SZ			EP		1128	25.03								
SHBL	SZ			EP		1128	24.53								

August 20 2021 Hour: 15:28 29.8 Lat: 33.64N Lon: 34.80E Depth: 22 Agency: REL Local
 Magnitudes: 3.3MC REL Rms: 0.2 secs

OFFSHORE SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SAIL	SZ	56	97	EP		1528	39.43	0.23							1.0
DQRL	SZ	72	84	EP		1528	41.81	0.33	81						1.0
DQRL	SN	72	84	ES		1528	50.15	0.03							1.0
QRWL	SZ	82	97	EP		1528	43.11	0.09							1.0
QRWL	SN	82	97	ES		1528	52.69	-0.10							1.0
BHL	BZ	84	69	EP		1528	42.98	-0.34							0.2
SHBL	SZ	93	110	EP		1528	44.28	-0.36							1.0
RCY	SZ	97	99	EP		1528	45.19	-0.04							1.0
ZAHL	SZ	103	76	EP		1528	46.22	0.12							1.0
HWQ	BZ	127	56	EP		1528	49.26	-0.36							1.0
FKH	SZ	163	65	EP		1528	54.20	0.09							1.0

August 21 2021 Hour: 13:21 21.0 Agency: REL Regional
 EMSC OT=13:21:21.0 36.44N 27.08E 16Km M=4.3 DODECANESE-TURKEY REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1323	9.59								
HWQ	BZ			EP		1323	10.86								
QRWL	SZ			EP		1323	12.32								
ZAHL	SZ			EP		1323	12.78								
BEIL	SZ			EP		1323	12.88								
RCY	SZ			EP		1323	14.15								
SHBL	SZ			EP		1323	14.15								

August 21 2021 Hour: 22:48 57.6 Lat: 34.06N Lon: 34.77E Depth: 7 Agency: REL Local
 Magnitudes: 3.0MC REL Rms: 0.1 secs

OFFSHORE CENTRAL LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	83	102	EP		2249	11.13	0.06							1.0
DQRL	SZ	84	118	EP		2249	11.07	-0.07							1.0
QRWL	SZ	102	124	EP		2249	14.06	0.13							1.0
ZAHL	SZ	105	102	EP		2249	14.41	-0.07							1.0
HWQ	BZ	111	77	EP		2249	15.40	0.11	57						1.0
HWQ	BN	111	77	ES		2249	28.46	0.06							1.0
RCY	SZ	117	122	EP		2249	16.20	0.03							1.0
RCY	SN	117	122	ES		2249	29.85	-0.08							1.0
SHBL	SZ	120	131	EP		2249	16.63	-0.00							1.0
BEIL	SZ	140	67	EP		2249	19.42	-0.18							1.0

August 22 2021 Hour: 9:41 52.2 Lat: 33.47N Lon: 35.54E Depth: 5 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.1 secs

JEZZINE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ	16	54	EP		941	54.95	0.05	43						1.0
QRWL	SN	16	54	ES		941	56.92	0.01							1.0
SHBL	SZ	23	125	EP		941	55.98	0.01							1.0
DQRL	SZ	27	5	EP		941	56.71	0.10							1.0
RCY	SZ	27	82	EP		941	56.65	-0.05							1.0
RCY	SN	27	82	ES		942	0.05	-0.00							1.0
BHL	BZ	50	12	EP		942	0.13	-0.14							1.0
ZAHL	SZ	54	36	EP		942	0.96	0.03							1.0
HWQ	BZ	98	22	EP		942	7.89	-0.06							1.0
BEIL	SZ	133	26	EP		942	13.38	0.05							1.0

August 22 2021 Hour: 23: 8 23.8 Lat: 33.80N Lon: 35.84E Depth: 7 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

ZAHLE REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZAHL	SZ	8	31	EP		23	8	25.60-0.06	47						1.0
BHL	BZ	21	305	EP		23	8	27.32-0.10							1.0
BHL	BN	21	305	ES		23	8	30.17 0.06							1.0
DQRL	SZ	27	248	EP		23	8	28.34 0.01							1.0
QRWL	SZ	31	208	EP		23	8	29.00 0.01							1.0
RCY	SZ	33	181	EP		23	8	29.12-0.21							1.0
RCY	SN	33	181	ES		23	8	33.60 0.18							1.0
SHBL	SZ	51	190	EP		23	8	32.04-0.01							1.0
HWQ	BZ	54	10	EP		23	8	32.73 0.07							1.0
BEIL	SZ	89	21	EP		23	8	38.20 0.06							1.0

August 23 2021 Hour: 1:51 23.9 Lat: 34.69N Lon: 36.25E Depth: 14 Agency: REL Local
Magnitudes: 2.4MC 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
BEIL	SZ	17	200	EP		151	27.59	0.06	25						1.0
BEIL	SN	17	200	ES		151	30.19-0.03								1.0
FKH	SZ	51	163	EP		151	32.35-0.07								1.0
HWQ	BZ	53	212	EP		151	32.55-0.15								1.0
HWQ	BN	53	212	ES		151	39.24 0.01								1.0
ZAHL	SZ	98	200	EP		151	39.28 0.01								1.0
BHL	BZ	103	212	EP		151	39.90-0.06								1.0
QRWL	SZ	137	203	EP		151	45.08 0.11								1.0
RCY	SZ	137	196	EP		151	45.15 0.04								1.0
SHBL	SZ	156	198	EP		151	47.88 0.09								1.0

August 25 2021 Hour: 5:53 40.9 Lat: 34.82N Lon: 35.92E Depth: 0 Agency: REL Regional
Magnitudes: 3.4MC 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	40	142	EP		553	46.98-0.30		110						1.0
BEIL	SN	40	142	ES		553	52.12 0.12								1.0
HWQ	BZ	60	178	EP		553	50.60-0.05								1.0
HWQ	BN	60	178	ES		553	57.75-0.10								1.0
FKH	SZ	78	145	EP		553	53.70 0.16								1.0
BHL	BZ	105	193	EP		553	57.94 0.15								1.0
ZAHL	SZ	107	182	EP		553	58.22 0.06								1.0
DQRL	SZ	128	195	EP		554	1.40-0.13								1.0
QRWL	SZ	143	189	EP		554	3.98 0.13								1.0
RCY	SZ	147	183	EP		554	4.42-0.08								1.0
SHBL	SZ	164	186	EP		554	7.04 0.03								1.0

August 25 2021 Hour: 5:58 2.9 Agency: REL Distant
EMSC OT=05:58:02.9 29.72S 177.57W 30Km M=5.7 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		617	53.75								
BEIL	SZ			EP		617	53.90								
HWQ	BZ			EP		617	54.05								
RCY	SZ			EP		617	54.87								
BHL	BZ			EP		617	55.09								
SHBL	SZ			EP		617	55.09								
QRWL	SZ			EP		617	54.87								
DQRL	SZ			EP		617	55.62								

August 25 2021 Hour: 7:18 8.4 Lat: 32.30N Lon: 36.21E Depth: 13 Agency: REL Regional
Magnitudes: 3.2MC REL Rms: 0.1 secs

JORDAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	124	340	EP		718	27.73	0.05	66						1.0
SHBL	SN	124	340	ES		718	42.05	0.09							1.0
RCY	SZ	137	345	EP		718	29.34	-0.26							1.0
RCY	SN	137	345	ES		718	45.30	-0.00							1.0
QRWL	SZ	147	341	EP		718	31.05	0.06							1.0
DQRL	SZ	167	339	EP		718	33.75	-0.08							1.0
DQRL	SN	167	339	ES		718	52.58	-0.09							1.0
BHL	BZ	185	344	EP		718	36.28	0.16							1.0
HWQ	BZ	221	354	EP		718	40.62	0.07							1.0
BEIL	SZ	249	360	EP		718	43.95	-0.00							1.0

August 25 2021 Hour: 14:30 52.6 Lat: 33.72N Lon: 35.67E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.0 secs

CHOUF REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	9	263	EP		1430	54.10	-0.04							1.0
DQRL	SN	9	263	ES		1430	55.28	0.02							1.0
QRWL	SZ	19	177	EP		1430	55.62	-0.00							1.0
QRWL	SN	19	177	ES		1430	57.79	-0.06							1.0
BHL	BZ	21	356	EP		1430	55.93	-0.07	37						1.0
ZAHL	SZ	25	51	EP		1430	56.76	0.05							1.0
RCY	SZ	29	148	EP		1430	57.22	-0.03							1.0
RCY	SN	29	148	ES		1431	0.70	0.02							1.0
SAIL	SZ	29	238	EP		1430	57.41	0.05							1.0
SHBL	SZ	41	171	EP		1430	59.31	0.03							1.0
HWQ	BZ	67	22	EP		1431	3.43	-0.05							1.0
BEIL	SZ	103	27	EP		1431	9.34	0.09							1.0

August 26 2021 Hour: 20:52 55.3 Agency: REL Regional
EMSC OT=20:52:55.3 38.38N 38.74E 2Km M=3.4 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2054	1.42								
FKH	SZ			EP		2054	3.92								
HWQ	BZ			EP		2054	6.15								
ZAHL	SZ			EP		2054	11.68								
BHL	BZ			EP		2054	12.84								
DQRL	SZ			EP		2054	15.42								
RCY	SZ			EP		2054	16.67								
SHBL	SZ			EP		2054	19.79								

August 26 2021 Hour: 22:40 52.1 Agency: REL Distant
EMSC OT=22:40:52.1 24.05S 179.14E 562Km M=4.8 SOUTH OF FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		2259	31.05								
BEIL	SZ			EP		2259	30.98								
HWQ	BZ			EP		2259	31.59								
BHL	BZ			EP		2259	32.45								
RCY	SZ			EP		2259	32.52								
QRWL	SZ			EP		2259	32.72								
DQRL	SZ			EP		2259	32.72								
SHBL	SZ			EP		2259	32.72								

August 29 2021 Hour: 10:48 51.7 Lat: 33.92N Lon: 35.67E Depth: 22 Agency: REL Local
Magnitudes: 2.3MC REL Rms: 0.0 secs

METN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	3	214	EP		1048	55.42	-0.04	22						1.0
BHL	BN	3	214	ES		1048	58.20	0.00							1.0
ZAHL	SZ	21	111	EP		1048	56.75	0.03							1.0

DQRL	SZ	26	201	EP		1048	57.28	0.06										1.0
DQRL	SN	26	201	ES		1049	1.27	-0.01										1.0
QRWL	SZ	42	179	EP		1048	59.20	-0.02										1.0
HWQ	BZ	47	33	EP		1048	59.89	-0.00										1.0
RCY	SZ	50	162	EP		1049	0.33	-0.03										1.0

August 29 2021 Hour: 21: 7 45.6 Agency: REL Regional
EMSC OT=21:07:45.6 37.06N 25.18E 170Km M=4.3 DODECANESE ISLANDS, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		21	9	51.77							
DQRL	SZ			EP		21	9	52.27							
HWQ	BZ			EP		21	9	54.32							
QRWL	SZ			EP		21	9	55.22							
ZAHL	SZ			EP		21	9	54.77							
BEIL	SZ			EP		21	9	55.77							
SHBL	SZ			EP		21	9	56.82							
RCY	SZ			EP		21	9	56.97							

August 31 2021 Hour: 2:52 49.0 Agency: REL Distant
EMSC OT=02:52:49.0 29.99S 177.35W 10Km M=6.3 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		312	36.62								
FKH	SZ			EP		312	37.17								
BEIL	SZ			EP		312	37.47								
ZAHL	SZ			EP		312	37.84								
BHL	BZ			EP		312	37.21								
DQRL	SZ			EP		312	38.29								
RCY	SZ			EP		312	38.21								
QRWL	SZ			EP		312	38.06								
SHBL	SZ			EP		312	38.18								

August 31 2021 Hour: 9:18 52.3 Agency: REL Regional
EMSC OT=09:18:52.3 35.01N 32.65E 2Km M=3.1 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		919	35.02								
BEIL	SZ			EP		919	36.95								
SHBL	SZ			EP		919	36.95								
RCY	SZ			EP		919	37.17								

August 31 2021 Hour: 11: 4 26.9 Agency: REL Regional
EMSC OT=11:04:26.9 39.01N 30.16E 12Km M=5.1 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		11	6	4.47							
HWQ	BZ			EP		11	6	5.58							
BHL	BZ			EP		11	6	8.55							
FKH	SZ			EP		11	6	10.40							
DQRL	SZ			EP		11	6	9.29							
QRWL	SZ			EP		11	6	12.26							
RCY	SZ			EP		11	6	13.00							
SHBL	SZ			EP		11	6	13.74							

August 31 2021 Hour: 16:16 27.9 Lat: 35.79N Lon: 35.37E Depth: 10 Agency: REL Regional
Magnitudes: 3.4MC REL Rms: 0.2 secs

OFFSHORE SYRIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	158	151	EP		1616	52.07	-0.22	93						1.0
BEIL	SN	158	151	ES		1617	10.49	0.14							1.0
HWQ	BZ	176	162	EP		1616	54.69	-0.20							1.0
HWQ	BN	176	162	ES		1617	14.75	-0.13							1.0
FKH	SZ	196	151	EP		1616	57.60	0.20							1.0
BHL	BZ	211	173	EP		1616	59.25	0.03							1.0
RCY	SZ	258	170	EP		1617	5.03	-0.09							1.0
SHBL	SZ	273	173	EP		1617	7.27	0.28							1.0

Epicentral Map of Lebanon

AUGUST 2021

