

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

May

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Prepared by
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GENERAL BULLETIN INFORMATION

The National Centre for Geophysical Research is a governmental agency established 1975 in Lebanon by the National Council for Scientific Research (CNRS). The mission of the Centre, among other assignments, is the monitoring of seismic activity within the national territory. Currently, the national seismic network is under deployment; it has been officially registered as GRAL, an acronym for Geophysical Research Arrays of Lebanon. Station coordinates and status are given below.

Since 1993, the Centre has been participating in a regional initiative by the UNESCO and the USGS known as RELEMR, i.e. Reducing Earthquake Losses in the Eastern Mediterranean Region.

Within this framework, the Centre routinely contributes to the database set up for this purpose and maintained by the Euro-Mediterranean Seismological Centre (EMSC). For coherence, the Centre has adopted the recommended seismic analysis system SEISAN developed by Jens Havskov and Lars Ottemoller from the University of Bergen, Norway.

The localization program currently used for locating earthquakes is Hypocenter (Lienert et al., 1986). Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events.

The velocity model used for all local and regional events is the one currently adopted by the RELEMR initiative.

P-wave velocity (km/sec)	depth to top of layer (km)
6.2	0.0
6.8	14.0
8.05	34.0
8.25	50.0
8.5	80.0

Magnitudes are calculated from the coda duration. The coda wave magnitude is estimated via the formula:

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

where T is the coda duration (sec) and D is the epicentral distance (km). The coefficients above were adopted at the outset of our Centre in 1980 and thus are still in use for the sake of continuity.

All available coda values are used for magnitude calculations. No station corrections are used for either travel times or magnitudes calculations. The V_p/V_s velocity ratio used in both layered models above is 1.74.

As a general policy, neither depths, nor epicenters, are fixed unless stated otherwise since this might restrict later use of the data. Consequently, some event locations might be unrealistic such as zero depth earthquakes or teleseismic locations off by 1000 km. However, the locations are based on the available data and reflect the localization procedure and the models used.

STATIONS USED

The stations listed below are operated by the National Centre for Geophysical Research. They constitute the basic setup of the National Seismic Network of Lebanon.

However, readings from other cooperating agencies are also used in locating the events and thus more stations may appear in the event lists than in the station list; it is worth mentioning the systematic use of arrival times from the Cypriot seismic network CSS in order to constrain events corresponding to an active zone off the Lebanese shorelines.

STATION	LATITUDE	LONGITUDE	HEIGHT (m)	NAME	COMMENTS
BHL	3354.25N	3539.25E	1000	BHANNES	Opened May 1980
HWQ	3416.68N	3556.78E	1161	HAWQA	Opened Jan 2001
MATL	3329.32N	3519.78E	5	MATARIH	Nov2000-Sep2012
FKH	3414.69N	3624.61E	1152	FAKEHEH	Opened Dec 2004
RCY	3329.79N	3550.14E	1370	RACHAYA	Opened Jun 2006
BEYL	3352.30N	3529.59E	49	BEIRUT	Opened Jul 2006
NAQL	3307.02N	3508.46E	83	NAQOURA	Jul2008-Jan2012
DQRL	3342.34N	3534.21E	963	DEIR QAMAR	Opened Mar 2010
QRWL	3332.86N	3540.93E	875	QARAOUN	Opened Oct 2011
SHBL	3320.90N	3544.63E	1422	CHEBAA	Opened Oct 2011
ZAHL	3351.48N	3553.12E	1211	ZAHLE	Opened Aug 2015
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.

May 1 2021 Hour: 1:27 28.7 Agency: REL Distant
EMSC OT=01:27:28.7 38.24N 141.68E 60Km M=6.8 NEAR COAST HONSHU, JAPAN
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 139 31.74
 FKH SZ EP 139 31.88
 HWQ BZ EP 139 33.05
 ZAHL SZ EP 139 34.97
 BHL BZ EP 139 35.31
 RCY SZ EP 139 36.34
 DQRL SZ EP 139 36.48
 QRWL SZ EP 139 36.61
 SHBL SZ EP 139 37.44

May 1 2021 Hour: 6:38 50.6 Lat: 34.60N Lon: 34.40E Depth: 3 Agency: REL Regional
Magnitudes: 3.2MC REL Rms: 0.2 secs

CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	139	123	EP		639	12.56-0.12		66						1.0
BHL	BN	139	123	ES		639	28.78-0.25								1.0
HWQ	BZ	146	104	EP		639	14.42 0.62								1.0
DQRL	SZ	146	132	EP		639	13.69-0.11								1.0
ZAHL	SZ	159	121	EP		639	15.68-0.06								1.0
BEIL	SZ	163	92	EP		639	16.01-0.30								1.0
QRWL	SZ	166	134	EP		639	16.71 0.02								1.0
RCY	SZ	180	132	EP		639	18.75-0.06								1.0
RCY	SN	180	132	ES		639	39.94 0.24								1.0
SHBL	SZ	186	138	EP		639	19.56 0.02								1.0
FKH	SZ	189	101	EP		639	19.81-0.02								1.0

May 1 2021 Hour: 14:15 6.6 Agency: REL Regional
EMSC OT=14:15:06.6 36.42N 26.66E 114Km M=3.2 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1416	55.72								
BEIL	SZ			EP		1416	56.65								
SHBL	SZ			EP		1416	56.98								
RCY	SZ			EP		1416	58.24								

May 2 2021 Hour: 12:22 36.2 Lat: 34.25N Lon: 33.82E Depth: 0 Agency: REL Regional
Magnitudes: 3.1MC 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	172	110	EP		1223	3.46 0.03		54						1.0
DQRL	SN	172	110	ES		1223	23.50-0.08								1.0
BHL	BZ	173	102	EP		1223	3.61 0.04								1.0
QRWL	SZ	189	114	EP		1223	5.72-0.01								1.0
HWQ	BZ	195	88	EP		1223	6.56-0.06								1.0
SHBL	SZ	204	119	EP		1223	7.67-0.01								1.0
SHBL	SN	204	119	ES		1223	31.09 0.11								1.0
RCY	SZ	204	114	EP		1223	7.60-0.09								1.0
BEIL	SZ	219	81	EP		1223	9.62 0.08								1.0

May 2 2021 Hour: 22:33 59.9 Lat: 34.06N Lon: 36.17E Depth: 11 Agency: REL Local
Magnitudes: 2.8MC 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	30	48	EP		2234	5.16-0.01		47						1.0
HWQ	BZ	32	319	EP		2234	5.30-0.08								1.0
HWQ	BN	32	319	ES		2234	9.43-0.02								1.0
ZAHL	SZ	35	229	EP		2234	5.87 0.02								1.0
BHL	BZ	51	250	EP		2234	8.37 0.06								1.0
BEIL	SZ	53	2	EP		2234	8.68-0.01								1.0
BEIL	SN	53	2	ES		2234	15.29 0.07								1.0
DQRL	SZ	68	235	EP		2234	11.01-0.01								1.0

RCY	SZ	70	206	EP		2234	11.24	-0.08									1.0
QRWL	SZ	73	218	EP		2234	11.77	0.07									1.0
SHBL	SZ	88	207	EP		2234	14.04	-0.00									1.0

May 3 2021 Hour: 1:45 2.1 Lat: 33.70N Lon: 35.77E Depth: 6 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.1 secs

WEST BEKAA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DQRL	SZ	19	273	EP		145	5.19	-0.09							1.0
DQRL	SN	19	273	ES		145	7.67	0.02							1.0
QRWL	SZ	19	206	EP		145	5.19	-0.08	47						1.0
ZAHL	SZ	21	31	EP		145	5.56	-0.06							1.0
RCY	SZ	23	165	EP		145	5.89	-0.10							1.0
RCY	SN	23	165	ES		145	9.00	0.10							1.0
BHL	BZ	25	335	EP		145	5.99	-0.32							1.0
BHL	BN	25	335	ES		145	9.69	0.24							1.0
SAIL	SZ	37	248	EP		145	8.16	0.07							1.0
SHBL	SZ	39	184	EP		145	8.55	0.10							1.0
HWQ	BZ	66	14	EP		145	12.87	0.03							1.0
FKH	SZ	85	44	EP		145	15.81	0.02							1.0
BEIL	SZ	101	22	EP		145	18.47	0.06							1.0

May 3 2021 Hour: 5:7 29.8 Agency: REL Distant

EMSC OT=05:07:29.8 25.80N 123.86E 191Km M=5.5 NORTHEAST TAIWAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		518	45.24								
BEIL	SZ			EP		518	45.18								
HWQ	BZ			EP		518	46.75								
BHL	BZ			EP		518	48.72								
RCY	SZ			EP		518	49.18								
QRWL	SZ			EP		518	49.44								
DQRL	SZ			EP		518	49.84								
SHBL	SZ			EP		518	50.10								

May 3 2021 Hour: 20:42 52.6 Lat: 33.36N Lon: 35.91E Depth: 0 Agency: REL Regional
 Magnitudes: 2.3MC 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	16	266	EP		2042	55.16	-0.03	24						1.0
SHBL	SN	16	266	ES		2042	57.10	0.01							1.0
RCY	SZ	17	335	EP		2042	55.27	-0.09							1.0
RCY	SN	17	335	ES		2042	57.35	-0.05							1.0
QRWL	SZ	30	314	EP		2042	57.47	-0.00							1.0
QRWL	SN	30	314	ES		2043	1.12	0.05							1.0
DQRL	SZ	50	320	EP		2043	0.72	0.03							1.0
ZAHL	SZ	56	357	EP		2043	1.62	0.05							1.0
BHL	BZ	65	338	EP		2043	3.17	0.04							1.0

May 5 2021 Hour: 23:40 34.6 Agency: REL Regional

EMSC OT=23:40:34.6 36.38N 27.61E 78Km M=4.4 DODECANESE -TURKEY BORDER REG

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2342	11.49								
DQRL	SZ			EP		2342	12.12								
HWQ	BZ			EP		2342	14.20								
QRWL	SZ			EP		2342	15.10								
ZAHL	SZ			EP		2342	14.81								
BEIL	SZ			EP		2342	15.30								
SHBL	SZ			EP		2342	16.95								
RCY	SZ			EP		2342	16.77								
FKH	SZ			EP		2342	19.75								

May 6 2021 Hour: 3:47 22.4 Lat: 35.13N Lon: 33.96E Depth: 5 Agency: REL Regional
Magnitudes: 3.0MC REL Rms: 0.2 secs

CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	205	117	EP		347	53.69	0.12	51						1.0
HWQ	BN	205	117	ES		348	16.87	0.26							1.0
BHL	BZ	207	131	EP		347	53.30	-0.45							1.0
BEIL	SZ	214	107	EP		347	54.58	0.00							1.0
BEIL	SN	214	107	ES		348	18.23	-0.14							1.0
ZAHL	SZ	227	128	EP		347	56.13	-0.08							1.0
QRWL	SZ	237	137	EP		347	57.43	-0.01							1.0
RCY	SZ	251	136	EP		347	59.31	0.10							1.0
RCY	SN	251	136	ES		348	26.30	-0.12							1.0
SHBL	SZ	257	140	EP		348	0.37	0.32							1.0

May 7 2021 Hour: 4:59 49.6 Lat: 33.74N Lon: 36.95E Depth: 0 Agency: REL Regional
Magnitudes: 3.0MC REL Rms: 0.2 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	75	318	EP		5 0	1.46	-0.21	58						1.0
FKH	SN	75	318	ES		5 0	10.70	0.08							1.0
ZAHL	SZ	100	278	EP		5 0	5.73	0.05							0.2
RCY	SZ	107	256	EP		5 0	6.96	0.06							1.0
RCY	SN	107	256	ES		5 0	19.66	-0.05							1.0
HWQ	BZ	110	303	EP		5 0	7.31	-0.08							1.0
BEIL	SZ	113	321	EP		5 0	8.02	0.14							1.0
QRWL	SZ	120	260	EP		5 0	9.07	0.14							1.0
SHBL	SZ	121	249	EP		5 0	9.03	-0.01							1.0
BHL	BZ	122	279	EP		5 0	9.10	-0.11							1.0
DQRL	SZ	128	269	EP		5 0	10.99	0.71							0.2

May 7 2021 Hour: 22:58 12.2 Agency: REL Regional
EMSC OT=22:58:12.2 38.22N 38.69E 5Km M=2.9 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2259	17.37								
HWQ	BZ			EP		2259	22.31								
BHL	BZ			EP		2259	28.41								
DQRL	SZ			EP		2259	32.31								

May 7 2021 Hour: 23:35 15.4 Agency: REL Distant
EMSC OT=23:35:15.4 18.90S 177.57W 400Km M=6.1 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2354	10.93								
FKH	SZ			EP		2354	10.84								
HWQ	BZ			EP		2354	11.18								
ZAHL	SZ			EP		2354	12.15								
BHL	BZ			EP		2354	12.04								
DQRL	SZ			EP		2354	13.07								
RCY	SZ			EP		2354	12.62								
QRWL	SZ			EP		2354	12.95								
SHBL	SZ			EP		2354	13.04								

May 8 2021 Hour: 0:30 45.2 Agency: REL Regional
EMSC OT=00:30:45.2 38.27N 38.71E 5Km M=3.2 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		031	50.11								
FKH	SZ			EP		031	53.13								
HWQ	BZ			EP		031	54.97								
ZAHL	SZ			EP		032	0.90								
BHL	BZ			EP		032	1.46								
DQRL	SZ			EP		032	4.91								
SHBL	SZ			EP		032	8.29								

May 8 2021 Hour: 11:41 44.2 Agency: REL Regional
EMSC OT=11:41:44.2 36.49N 27.16E 17Km M=4.3 DODECANESE-TURKEY BORDER REG
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ BZ EP 1143 33.83
 BEIL SZ EP 1143 34.90
 RCY SZ EP 1143 36.52

May 8 2021 Hour: 14:23 22.5 Agency: REL Regional
EMSC OT=14:23:22.5 35.73N 28.35E 20Km M=3.5 EASTERN MEDITERRANEAN SEA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 1424 47.96
 HWQ BZ EP 1424 45.72

May 8 2021 Hour: 17:16 55.8 Lat: 34.55N Lon: 36.36E Depth: 0 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.1 secs

AKKAR REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	16	268	EP		1716	58.33	-0.08	75						1.0
BEIL	SN	16	268	ES		1717	0.42	0.05							1.0
FKH	SZ	34	173	EP		1717	1.15	-0.06							1.0
HWQ	BZ	49	232	EP		1717	3.69	0.10							1.0
HWQ	BN	49	232	ES		1717	9.32	-0.07							1.0
ZAHL	SZ	88	210	EP		1717	9.73	-0.25							0.2
BHL	BZ	97	223	EP		1717	11.30	-0.05							1.0
DQRL	SZ	118	218	EP		1717	14.79	-0.09							1.0
RCY	SZ	126	203	EP		1717	16.29	0.17							1.0
QRWL	SZ	127	210	EP		1717	16.37	0.06							1.0
SHBL	SZ	145	203	EP		1717	18.93	-0.00							1.0

May 9 2021 Hour: 14:23 13.4 Lat: 33.83N Lon: 36.82E Depth: 0 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	87	273	EP		1423	27.38	-0.02							1.0
HWQ	BZ	95	302	EP		1423	28.77	0.02	35						1.0
HWQ	BN	95	302	ES		1423	39.97	-0.13							1.0
RCY	SZ	99	248	EP		1423	29.26	-0.04							1.0
BEIL	SZ	99	324	EP		1423	29.19	-0.15							1.0
BEIL	SN	99	324	ES		1423	41.28	0.16							1.0
BHL	BZ	108	275	EP		1423	30.94	0.05							1.0
SHBL	SZ	113	242	EP		1423	31.70	0.02							1.0
DQRL	SZ	117	264	EP		1423	32.33	0.09							1.0

May 9 2021 Hour: 17:17 6.8 Agency: REL Regional
EMSC OT=17:17:06.8 37.15N 31.16E 100Km M=3.5 WESTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1718	16.91								
BEIL	SZ			EP		1718	17.65								
QRWL	SZ			EP		1718	20.64								
SHBL	SZ			EP		1718	23.39								

May 11 2021 Hour: 21:31 0.1 Agency: REL Regional

EMSC OT=21:31:00.1 40.45N 20.97E 12Km M=4.8 GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2134	13.15								
DQRL	SZ			EP		2134	14.33								
HWQ	BZ			EP		2134	15.32								
ZAHL	SZ			EP		2134	15.78								
QRWL	SZ			EP		2134	16.70								
SHBL	SZ			EP		2134	18.15								

May 12 2021 Hour: 5:33 47.0 Lat: 33.24N Lon: 35.68E Depth: 5 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
SHBL	SZ	13	26	EP		533	49.43	0.06	27						1.0
SHBL	SN	13	26	ES		533	51.10	-0.02							1.0
RCY	SZ	31	27	EP		533	52.11	-0.08							1.0
RCY	SN	31	27	ES		533	56.05	0.02							1.0
QRWL	SZ	34	360	EP		533	52.44	-0.08							1.0
DQRL	SZ	52	349	EP		533	55.53	0.04							1.0
ZAHL	SZ	71	15	EP		533	58.49	0.05							1.0

May 12 2021 Hour: 16: 3 28.8 Agency: REL Regional

EMSC OT=16:03:28.8 38.57N 40.87E 7Km M=3.5 EASTERN TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		16 4	51.66								
FKH	SZ			EP		16 4	53.24								
HWQ	BZ			EP		16 4	56.63								
SHBL	SZ			EP		16 5	7.18								

May 13 2021 Hour: 1:19 47.3 Lat: 34.22N Lon: 35.80E Depth: 28 Agency: REL Local
Magnitudes: 2.5MC 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	15	67	EP		119	52.48	0.04	31						1.0
HWQ	BN	15	67	ES		119	56.24	-0.03							1.0
BHL	BZ	38	200	EP		119	54.58	-0.12							1.0
ZAHL	SZ	42	169	EP		119	55.22	0.06							1.0
ZAHL	SN	42	169	ES		120	1.03	0.03							1.0
BEIL	SZ	50	45	EP		119	56.25	0.05							1.0
FKH	SZ	57	88	EP		119	57.06	-0.06							1.0
DQRL	SZ	61	200	EP		119	57.79	0.05							1.0
DQRL	SN	61	200	ES		120	5.48	0.01							1.0
QRWL	SZ	76	188	EP		119	59.84	0.08							1.0
SHBL	SZ	97	183	EP		120	2.75	-0.11							1.0

May 13 2021 Hour: 13:31 33.9 Agency: REL Distant

EMSC OT=13:31:33.9 15.91S 177.40W 416Km M=5.8 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		1350	22.80								
HWQ	BZ			EP		1350	22.61								
FKH	SZ			EP		1350	22.91								
BHL	BZ			EP		1350	23.28								
ZAHL	SZ			EP		1350	23.61								
DQRL	SZ			EP		1350	23.80								
QRWL	SZ			EP		1350	24.32								
RCY	SZ			EP		1350	24.11								
SHBL	SZ			EP		1350	24.25								

May 13 2021 Hour: 23:28 35.4 Agency: REL Distant

EMSC OT=23:28:35.4 29.34S 176.86W 10Km M=4.9 KERMADEC ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		2348	31.08								
FKH	SZ			EP		2348	31.03								
HWQ	BZ			EP		2348	31.19								
BHL	BZ			EP		2348	31.37								
ZAHL	SZ			EP		2348	32.00								
DQRL	SZ			EP		2348	32.21								
QRWL	SZ			EP		2348	32.25								
SHBL	SZ			EP		2348	32.66								

May 13 2021 Hour: 23:58 14.8 Agency: REL Distant
EMSC OT=23:58:14.8 37.73N 141.75E 41Km M=6.0 EAST COAST HONSHU, JAPAN
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 2410 21.93
 FKH SZ EP 2410 22.33
 HWQ BZ EP 2410 23.47
 ZAHL SZ EP 2410 25.35
 BHL BZ EP 2410 25.64
 RCY SZ EP 2410 26.83
 DQRL SZ EP 2410 26.78
 QRWL SZ EP 2410 26.98
 SHBL SZ EP 2410 27.52
 SAIL SZ EP 2410 27.77

May 14 2021 Hour: 4:38 59.5 Agency: REL Regional
EMSC OT=04:38:59.5 36.88N 36.69E 7Km M=2.9 TURKEY-SYRIA BORDER REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 439 38.50
 FKH SZ EP 439 42.72
 HWQ BZ EP 439 42.92
 BHL BZ EP 439 49.74
 DQRL SZ EP 439 51.75
 QRWL SZ EP 439 52.96
 SHBL SZ EP 439 56.49

May 14 2021 Hour: 6:33 8.0 Agency: REL Distant
EMSC OT=06:33:08.0 0.16N 96.65E 10Km M=6.6 NIAS REGION, INDONESIA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EP 643 52.90
 BEIL SZ EP 643 53.87
 RCY SZ EP 643 54.26
 SHBL SZ EP 643 54.17
 ZAHL SZ EP 643 54.95
 HWQ BZ EP 643 55.34
 QRWL SZ EP 643 55.92
 BHL BZ EP 643 55.73
 DQRL SZ EP 643 56.41

May 14 2021 Hour: 7:57 32.9 Lat: 33.20N Lon: 35.76E Depth: 6 Agency: REL Regional
Magnitudes: 2.3MC REL Rms: 0.1 secs
GOLAN REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 SHBL SZ 16 354 EP 757 35.84-0.02 22 1.0
 SHBL SN 16 354 ES 757 38.00-0.02 1.0
 RCY SZ 33 12 EP 757 38.49 0.04 1.0
 RCY SN 33 12 ES 757 42.55 0.02 1.0
 QRWL SZ 39 349 EP 757 39.46 0.14 1.0
 DQRL SZ 59 342 EP 757 42.38-0.06 1.0
 ZAHL SZ 74 9 EP 757 44.76-0.09 1.0

May 14 2021 Hour: 10:14 9.6 Agency: REL Regional
EMSC OT=10:14:09.6 36.87N 36.71E 5Km M=3.5 TURKEY-SYRIA BORDER REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 1014 49.11
 FKH SZ EP 1014 52.88
 HWQ BZ EP 1014 53.38
 BHL BZ EP 1014 59.56
 DQRL SZ EP 1015 2.13
 QRWL SZ EP 1015 3.23
 RCY SZ EP 1015 4.24
 SHBL SZ EP 1015 6.45

May 14 2021 Hour: 18: 7 10.3 Lat: 34.18N Lon: 36.02E Depth: 0 Agency: REL Local
 Magnitudes: 2.8MC 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	13	329	EP		18	7	12.29-0.05	46						1.0
HWQ	BN	13	329	ES		18	7	13.85-0.02							1.0
FKH	SZ	37	79	EP		18	7	16.16-0.05							1.0
ZAHL	SZ	38	199	EP		18	7	16.21-0.15							1.0
BEIL	SZ	43	21	EP		18	7	17.29 0.09							1.0
BEIL	SN	43	21	ES		18	7	22.34 0.01							1.0
BHL	BZ	45	228	EP		18	7	17.61 0.01							1.0
BHL	BN	45	228	ES		18	7	23.05 0.03							1.0
QRWL	SZ	77	204	EP		18	7	22.64-0.00							1.0
RCY	SZ	78	193	EP		18	7	22.93 0.14							1.0
SHBL	SZ	96	195	EP		18	7	25.70 0.00							1.0

May 16 2021 Hour: 0:16 30.4 Agency: REL Regional

EMSC OT=00:16:30.4 34.41N 24.81E 30Km M=3.9 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
QRWL	SZ			EP		018	36.42								
SHBL	SZ			EP		018	37.32								
RCY	SZ			EP		018	38.86								
HWQ	BZ			EP		018	38.69								
BEIL	SZ			EP		018	40.42								

May 16 2021 Hour: 23: 4 56.3 Agency: REL Distant

EMSC OT=23:04:56.3 37.34N 56.78E 10Km M=5.3 NORTHEASTERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		23	8	52.56							
BEIL	SZ			EP		23	8	53.69							
HWQ	BZ			EP		23	8	57.19							
ZAHL	SZ			EP		23	8	59.96							
RCY	SZ			EP		23	9	1.19							
BHL	BZ			EP		23	9	0.37							
QRWL	SZ			EP		23	9	2.84							
SHBL	SZ			EP		23	9	1.71							
DQRL	SZ			EP		23	9	4.07							

May 17 2021 Hour: 0:31 13.8 Agency: REL Distant

EMSC OT=00:31:13.8 21.89S 177.08W 257Km M=5.1 FIJI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		050	26.71								
BEIL	SZ			EP		050	26.28								
QRWL	SZ			EP		050	26.43								
SHBL	SZ			EP		050	27.58								
BHL	BZ			EP		050	27.27								
DQRL	SZ			EP		050	28.13								

May 17 2021 Hour: 0:54 1.4 Agency: REL Distant

EMSC OT=00:54:01.4 37.33N 56.74E 10Km M=5.4 NORTHEASTERN IRAN

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		057	56.64								
BEIL	SZ			EP		057	57.44								
HWQ	BZ			EP		058	1.86								
ZAHL	SZ			EP		058	4.26								
BHL	BZ			EP		058	5.67								
QRWL	SZ			EP		058	7.48								
SHBL	SZ			EP		058	6.77								
DQRL	SZ			EP		058	8.48								

May 17 2021 Hour: 15:28 46.0 Lat: 32.78N Lon: 35.69E Depth: 2 Agency: REL Regional
 Magnitudes: 2.8MC REL Rms: 0.1 secs

GOLAN REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	63	5	EP		1528	56.20	-0.02							1.0
SHBL	SN	63	5	ES		1529	3.77	-0.03							1.0
RCY	SZ	81	10	EP		1528	58.89	-0.13							1.0
RCY	SN	81	10	ES		1529	8.74	0.06							1.0
QRWL	SZ	85	360	EP		1528	59.75	0.01							1.0
ZAHL	SZ	121	9	EP		1529	5.61	0.09							1.0
BHL	BZ	125	359	EP		1529	6.10	-0.02							1.0
HWQ	BZ	168	8	EP		1529	12.48	0.01							1.0

May 18 2021 Hour: 23:57 58.6 Agency: REL Distant

EMSC OT=23:57:58.6 28.33N 84.46E 10Km M=5.3 NEPAL

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ			EP		24	5	45.81							
HWQ	BZ			EP		24	5	48.10							
ZAHL	SZ			EP		24	5	49.58							
RCY	SZ			EP		24	5	49.50							
BHL	BZ			EP		24	5	50.54							
SHBL	SZ			EP		24	5	50.63							
QRWL	SZ			EP		24	5	50.63							
DQRL	SZ			EP		24	5	50.97							
SAIL	SZ			EP		24	5	52.54							

May 19 2021 Hour: 14:52 35.5 Lat: 34.24N Lon: 36.45E Depth: 0 Agency: REL Local
 Magnitudes: 2.7MC 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	4	274	EP		1452	36.02	-0.11	40						1.0
BEIL	SZ	41	323	EP		1452	42.20	0.06							1.0
BEIL	SN	41	323	ES		1452	47.04	-0.05							1.0
HWQ	BZ	47	275	EP		1452	43.14	0.12							1.0
HWQ	BN	47	275	ES		1452	48.65	0.03							1.0
ZAHL	SZ	68	231	EP		1452	46.39	0.03							1.0
BHL	BZ	83	243	EP		1452	48.67	-0.14							1.0
RCY	SZ	101	215	EP		1452	51.61	-0.07							1.0
DQRL	SZ	101	234	EP		1452	51.83	0.08							1.0
SHBL	SZ	119	214	EP		1452	54.71	0.06							1.0

May 19 2021 Hour: 21:9 15.1 Lat: 32.81N Lon: 34.60E Depth: 23 Agency: REL Regional
 Magnitudes: 3.5MC REL Rms: 0.1 secs

OFFSHORE DEAD SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHBL	SZ	122	61	EP		21	9	34.15	-0.00						1.0
QRWL	SZ	130	51	EP		21	9	34.99	-0.12						1.0
QRWL	SN	130	51	ES		21	9	50.20	0.28						1.0
DQRL	SZ	134	42	EP		21	9	35.75	0.08	110					1.0
DQRL	SN	134	42	ES		21	9	50.75	-0.13						1.0
RCY	SZ	138	56	EP		21	9	36.28	0.09						1.0
RCY	SN	138	56	ES		21	9	51.64	-0.15						1.0
BHL	BZ	156	39	EP		21	9	38.45	0.08						1.0
ZAHL	SZ	166	46	EP		21	9	39.71	-0.02						1.0
HWQ	BZ	205	37	EP		21	9	44.53	0.02						1.0
FKH	SZ	231	46	EP		21	9	47.66	-0.10						1.0
BEIL	SZ	241	37	EP		21	9	48.96	-0.02						1.0

May 20 2021 Hour: 21: 9 39.7 Agency: REL Regional
EMSC OT=21:09:39.7 38.44N 39.20E 5Km M=3.6 EASTERN TURKEY
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 2110 49.76
 FKH SZ EP 2110 52.59
 HWQ BZ EP 2110 55.29
 ZAHL SZ EP 2111 1.79
 BHL BZ EP 2111 3.82
 DQRL SZ EP 2111 6.19
 RCY SZ EP 2111 7.67
 QRWL SZ EP 2111 13.90
 SHBL SZ EP 2111 6.52

May 21 2021 Hour: 12: 9 23.7 Agency: REL Distant
EMSC OT=12:09:23.7 8.35S 112.37E 117Km M=5.7 JAVA, INDONESIA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EP 1221 38.61
 BEIL SZ EP 1221 39.81
 RCY SZ EP 1221 40.29
 HWQ BZ EP 1221 40.47
 SHBL SZ EP 1221 40.52
 QRWL SZ EP 1221 40.65
 BHL BZ EP 1221 41.23
 DQRL SZ EP 1221 41.01

May 21 2021 Hour: 16: 6 57.3 Agency: REL Regional
EMSC OT=16:06:57.3 38.24N 38.68E 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 16 8 1.96
 FKH SZ EP 16 8 4.28
 HWQ BZ EP 16 8 6.47
 ZAHL SZ EP 16 8 12.26
 BHL BZ EP 16 8 13.54
 DQRL SZ EP 16 8 15.98
 RCY SZ EP 16 8 16.95
 QRWL SZ EP 16 8 17.38
 SHBL SZ EP 16 8 19.45

May 21 2021 Hour: 18: 4 14.5 Agency: REL Distant
EMSC OT=18:04:14.5 34.58N 98.36E 10Km M=7.4 SOUTHERN QINGHAI, CHINA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EP 1813 13.17
 BEIL SZ EP 1813 14.37
 HWQ BZ EP 1813 15.40
 ZAHL SZ EP 1813 17.09
 BHL BZ EP 1813 17.85
 RCY SZ EP 1813 19.43
 QRWL SZ EP 1813 19.21
 SHBL SZ EP 1813 19.11

May 21 2021 Hour: 22:23 29.5 Agency: REL Regional
EMSC OT=22:23:29.5 36.47N 27.18E 13Km M=4.0 DODECANESE-TURKEY BORDER REG
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 DQRL SZ EP 2225 18.26
 HWQ BZ EP 2225 18.69
 BEIL SZ EP 2225 19.38
 QRWL SZ EP 2225 20.01
 RCY SZ EP 2225 21.44
 SHBL SZ EP 2225 21.50

May 21 2021 Hour: 22:13 18.1 Agency: REL Distant
EMSC OT=22:13:18.1 16.64S 177.34W 10Km M=6.5 FIJI REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EP 2232 55.44
 BEIL SZ EP 2232 55.50
 HWQ BZ EP 2232 56.04
 ZAHL SZ EP 2232 56.99
 RCY SZ EP 2232 57.88
 BHL BZ EP 2232 57.05
 SHBL SZ EP 2232 57.82
 QRWL SZ EP 2232 57.88
 DQRL SZ EP 2232 59.54

May 21 2021 Hour: 23:50 43.3 Agency: REL Regional
EMSC OT=23:50:43.3 35.09N 46.25E 10Km M=4.4 IRAN-IRAQ BORDER REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 2352 45.34
 HWQ BZ EP 2352 49.36
 ZAHL SZ EP 2352 51.65
 RCY SZ EP 2352 52.60
 BHL BZ EP 2352 54.70
 QRWL SZ EP 2352 52.98
 SHBL SZ EP 2352 54.32
 DQRL SZ EP 2352 55.34

May 24 2021 Hour: 17:34 18.9 Lat: 34.04N Lon: 35.96E Depth: 2 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
 ZAHL SZ 22 198 EP 1734 22.28-0.16 48 1.0
 ZAHL SN 22 198 ES 1734 25.12 0.05 1.0
 HWQ BZ 26 358 EP 1734 23.07-0.04 1.0
 HWQ BN 26 358 ES 1734 26.30 0.05 1.0
 BHL BZ 32 241 EP 1734 24.03-0.05 1.0
 BHL BN 32 241 ES 1734 27.97 0.03 1.0
 FKH SZ 47 62 EP 1734 26.54 0.01 1.0
 DQRL SZ 52 224 EP 1734 27.25-0.02 1.0
 BEIL SZ 59 21 EP 1734 28.41-0.00 1.0
 QRWL SZ 61 205 EP 1734 28.71 0.03 1.0
 RCY SZ 62 191 EP 1734 28.88 0.01 1.0
 SHBL SZ 80 194 EP 1734 31.85 0.10 1.0

May 24 2021 Hour: 23:19 0.0 Agency: REL Regional
EMSC OT=23:19:00.0 35.54N 37.08E 8Km M=2.0 SYRIA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 2319 20.60
 FKH SZ EP 2319 24.40
 HWQ BZ EP 2319 25.39

May 25 2021 Hour: 0: 2 56.2 Agency: REL Regional
EMSC OT=00:02:56.2 35.57N 37.24E 7Km M=2.0 SYRIA
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BEIL SZ EP 0 3 15.11
 FKH SZ EP 0 3 16.80
 FKH SN ES 0 3 32.46
 HWQ BZ EP 0 3 20.79
 HWQ BN ES 0 3 38.94
 ZAHL SZ EP 0 3 26.04

May 24 2021 Hour: 23:46 35.2 Agency: REL Distant
EMSC OT=23:46:35.2 31.22S 177.35W 10Km M=4.9 KERMADEC ISLANDS
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EP 24 6 31.43
 BEIL SZ EP 24 6 31.44
 HWQ BZ EP 24 6 31.69
 ZAHL SZ EP 24 6 32.10
 RCY SZ EP 24 6 32.44
 BHL BZ EP 24 6 32.42
 QRWL SZ EP 24 6 32.73
 SHBL SZ EP 24 6 32.52
 DQRL SZ EP 24 6 32.95

May 25 2021 Hour: 2:28 55.2 Lat: 33.94N Lon: 36.16E Depth: 6 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.1 secs
BAALBECK REGION
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 ZAHL SZ 27 252 EP 228 59.65-0.04 1.0
 FKH SZ 41 34 EP 229 2.04 0.05 63 1.0
 FKH SN 41 34 ES 229 6.93-0.09 1.0
 HWQ BZ 43 333 EP 229 2.11-0.12 66 1.0
 HWQ BN 43 333 ES 229 7.54 0.12 1.0
 BHL BZ 47 266 EP 229 2.70-0.16 1.0
 RCY SZ 57 212 EP 229 4.46-0.04 1.0
 RCY SN 57 212 ES 229 11.50 0.12 1.0
 DQRL SZ 60 245 EP 229 4.97-0.02 1.0
 QRWL SZ 62 226 EP 229 5.25 0.03 1.0
 BEIL SZ 67 2 EP 229 6.27 0.14 1.0
 SHBL SZ 76 211 EP 229 7.46-0.00 1.0

May 26 2021 Hour: 1:8 20.2 Lat: 34.25N Lon: 36.39E Depth: 0 Agency: REL Local
Magnitudes: 2.5MC 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 2 112 EP 1 8 20.53-0.03 32 1.0
 BEIL SZ 38 329 EP 1 8 26.37 0.06 1.0
 BEIL SN 38 329 ES 1 8 30.80-0.00 1.0
 HWQ BZ 41 274 EP 1 8 26.76-0.15 1.0
 ZAHL SZ 64 227 EP 1 8 30.51-0.05 1.0
 ZAHL SN 64 227 ES 1 8 38.24 0.03 1.0
 BHL BZ 78 241 EP 1 8 32.98 0.11 1.0
 DQRL SZ 97 232 EP 1 8 35.97 0.06 1.0
 RCY SZ 98 212 EP 1 8 36.09 0.00 1.0
 SHBL SZ 117 211 EP 1 8 39.12 0.05 1.0
 SHBL SN 117 211 ES 1 8 52.93-0.07 1.0

May 26 2021 Hour: 5:17 34.8 Lat: 33.56N Lon: 35.56E Depth: 1 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 12 97 EP 517 36.62-0.07 43 1.0
 QRWL SN 12 97 ES 517 38.18 0.09 1.0
 SAIL SZ 15 276 EP 517 37.26 0.10 1.0
 DQRL SZ 16 4 EP 517 37.41 0.01 1.0
 DQRL SN 16 4 ES 517 39.27-0.07 1.0
 SHBL SZ 29 144 EP 517 39.40-0.12 1.0
 BHL BZ 39 13 EP 517 41.08-0.02 1.0
 HWQ BZ 87 24 EP 517 48.80-0.06 1.0
 FKH SZ 109 46 EP 517 52.60 0.17 1.0
 BEIL SZ 123 28 EP 517 54.63-0.03 1.0

May 26 2021 Hour: 13:57 17.2 Lat: 34.60N Lon: 34.84E Depth: 21 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
BHL	BZ	107	136	EP		1357	33.96	-0.04	31						1.0
HWQ	BZ	107	109	EP		1357	34.26	0.23							1.0
HWQ	BN	107	109	ES		1357	46.44	-0.07							1.0
BEIL	SZ	123	93	EP		1357	36.27	-0.04							1.0
BEIL	SN	123	93	ES		1357	50.45	-0.03							1.0
QRWL	SZ	140	146	EP		1357	38.54	-0.06							1.0
RCY	SZ	153	143	EP		1357	40.26	0.02							1.0
RCY	SN	153	143	ES		1357	57.39	0.08							1.0
SHBL	SZ	162	149	EP		1357	41.27	-0.09							1.0

May 28 2021 Hour: 12:35 1.9 Lat: 34.57N Lon: 36.38E Depth: 2 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs

AKKAR REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BEIL	SZ	19	260	EP		1235	4.90	0.02	38						1.0
BEIL	SN	19	260	ES		1235	7.24	0.11							1.0
FKH	SZ	36	176	EP		1235	7.79	0.07							1.0
FKH	SN	36	176	ES		1235	12.06	-0.01							1.0
HWQ	BZ	52	231	EP		1235	9.93	-0.27							1.0
HWQ	BE	52	231	ES		1235	16.37	-0.00							1.0
BHL	BZ	100	222	EP		1235	17.99	0.02							1.0
DQRL	SZ	122	218	EP		1235	21.35	-0.13							1.0
RCY	SZ	129	203	EP		1235	22.77	0.13							1.0
QRWL	SZ	131	210	EP		1235	22.74	-0.04							0.2
SHBL	SZ	148	204	EP		1235	25.42	0.06							1.0

May 31 2021 Hour: 6:23 39.6 Lat: 35.03N Lon: 32.76E Depth: 31 Agency: REL Regional
Magnitudes: 4.3MC REL Rms: 0.3 secs

CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	294	114	EP		624	18.47	-0.87							1.0
HWQ	BZ	304	105	EP		624	20.71	0.10							1.0
HWQ	BN	304	105	ES		624	50.94	-0.06							1.0
ZAHL	SZ	315	113	EP		624	22.12	0.08							1.0
QRWL	SZ	315	121	EP		624	22.02	0.02							1.0
BEIL	SZ	318	99	EP		624	22.39	0.05	270						1.0
BEIL	SN	318	99	ES		624	53.95	-0.05							1.0
RCY	SZ	330	120	EP		624	23.90	-0.02							1.0
RCY	SN	330	120	ES		624	56.89	0.13							1.0
SHBL	SZ	332	123	EP		624	24.41	0.25							1.0
FKH	SZ	346	103	EP		624	26.17	0.35							1.0

May 31 2021 Hour: 14:32 59.2 Lat: 33.79N Lon: 36.68E Depth: 9 Agency: REL Regional
Magnitudes: 2.9MC REL Rms: 0.1 secs

SYRIA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	56	334	EP		1433	8.47	0.08							1.0
FKH	SN	56	334	ES		1433	15.10	-0.05							1.0
RCY	SZ	85	247	EP		1433	13.06	0.04							1.0
HWQ	BZ	86	309	EP		1433	13.14	-0.07							1.0
BEIL	SZ	94	331	EP		1433	14.34	-0.06	48						1.0
BEIL	SN	94	331	ES		1433	25.68	0.07							1.0
SHBL	SZ	100	240	EP		1433	15.22	-0.01							1.0

Epicentral Map of Lebanon

MAY 2021

