Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

September

2007

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:

$$\mathbf{Mc = 0.08 + 1.63 * \log10(T) + 0.0009 * D.}$$

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	Opened Nov 2000
FKH	3414.69N	3624.61E	1152	FAKEHEH	Opened Dec 2004
RCY	3329.79N	3550.14E	1370	RACHAYA	Opened Jun 2006
DWR	3323.13N	3524.08E	420	DWEIR	Scheduled 2003
BEYL	3352.30N	3529.59E	49	BEIRUT	Opened Jul 2006

REGIONAL AND DISTANT EARTHQUAKES

Because regional events and teleseims 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 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.

September 1 2007 Hour: 12:18 1.3 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1219	0.73								
RCY	SZ			EP		1219	3.17								
RCY	SE			ES		1219	8.69								
BHL	BN			ES		1219	3.87								

September 2 2007 Hour: 1: 2 0.2 **Agency: REL Distant**

EMSC OT=01:05:18.9 11.44S 165.83E 40Km Mw=7.3 SANTA CRUZ ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	124	23.53								

September 2 2007 Hour: 1:49 0.1 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		150	8.40								
RCY	SZ			EP		150	8.51								

September 2 2007 Hour: 1:54 51.0 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		155	19.97								
BHL	BZ			EP		155	19.85								

September 2 2007 Hour: 9: 6 29.3 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		9 7	17.85								
RCY	SZ			EP		9 7	14.88								

September 2 2007 Hour: 23:31 26.1 **Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EPn		2331	58.15								
BHL	BZ			EPn		2332	5.96								

September 3 2007 Hour: 9:38 55.1 **Agency: REL Regional**

EMSC OT=09:37:45.7 36.07N 28.33E 20Km ML=3.7 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EPn		939	23.28								
HWQ	SZ			EPn		939	20.69								

September 3 2007 Hour: 11:52 2.5 Lat: 34.60N Lon: 36.83E Depth: 0 Agency: REL Local
Magnitudes: 3.1MC REL **Rms: 0.2 secs**

NEBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SE	153	217	ES		1152	45.00	-0.01							1.0
BHL	BZ	133	235	EP	C	1152	24.38	0.41	58						1.0
HWQ	SZ	89	246	EP	C	1152	16.59	-0.24							1.0
HWQ	SE	89	246	ES		1152	27.41	0.00							1.0
RCY	SZ	153	217	EP		1152	26.79	-0.16							1.0

September 3 2007 Hour: 16:14 34.2 **Agency: REL Distant**

EMSC OT=16:14:50.4 45.87N 150.07E 80Km Mw=6.4 KURIL ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP	C	1626	55.91								
BHL	BZ			EP	C	1626	58.54								
RCY	SZ			EP	C	1627	0.38								

September 4 2007 Hour: 13:29 4.8 Lat: 33.78N Lon: 35.77E Depth: 7 Agency: REL Local
Magnitudes: 2.9MC REL **Rms: 0.0 secs**

BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	17	323	IPg	C	1329	7.84	0.01	49						1.0
BHL	BZ	17	323	AMP		1329	8.00								
RCY	SZ	32	168	EPg	C	1329	10.17	0.00							1.0
RCY	SN	32	168	ESg		1329	14.17	0.00							1.0

MATL	SZ	52	231	EPg		1329	13.21	-0.02								1.0
HWQ	SZ	58	17	EPg	D	1329	14.18	0.04								1.0
HWQ	SN	58	17	ESg		1329	21.04	-0.04								1.0

September 4 2007 Hour: 14:28 58.1 Lat: 35.27N Lon: 36.67E Depth: 0 Agency: REL Regional
Magnitudes: 3.4MC REL Rms: 0.1 secs
HOMS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	129	211	EP	D	1429	18.92	0.02	90						1.0
HWQ	SN	129	211	ES		1429	34.17	-0.11							1.0
BHL	BZ	178	212	EP	D	1429	26.18	-0.08							1.0
BHL	BN	178	212	ES		1429	47.22	0.14							1.0
RCY	SZ	212	202	EP	D	1429	30.60	0.03							1.0
RCY	SN	212	202	ES		1429	54.57	-0.01							1.0

September 4 2007 Hour: 14:40 45.6 Lat: 35.31N Lon: 36.54E Depth: 0 Agency: REL Regional
Magnitudes: 3.3MC REL Rms: 0.1 secs
HOMS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	126	205	EP	C	1441	5.93	-0.09	77						1.0
HWQ	SE	126	205	ES		1441	21.16	0.05							1.0
BHL	BZ	176	208	EP	C	1441	13.41	0.08							1.0
BHL	BE	176	208	ES		1441	33.79	-0.04							1.0
RCY	SZ	211	198	EP	C	1441	17.98	0.01							1.0
RCY	SE	211	198	ES		1441	41.90	-0.01							1.0

September 4 2007 Hour: 20:50 7.3 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPn		2051	41.51								

September 5 2007 Hour: 8: 6 1.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		8 6	53.62								
HWQ	SZ			EP		8 6	58.74								

September 5 2007 Hour: 9:26 0.4 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		926	56.21								
BHL	BZ			EP		927	1.14								

September 5 2007 Hour: 13: 8 38.1 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		13 9	17.18								
RCY	SZ			EP		13 9	12.94								

September 5 2007 Hour: 22:31 9.3 Lat: 33.84N Lon: 35.90E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs
CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	24	289	EP	C	2231	13.11	-0.04	45						1.0
BHL	BE	24	289	ES		2231	15.98	-0.01							1.0
RCY	SZ	38	189	EP	C	2231	15.39	-0.07							1.0
RCY	SN	38	189	ES		2231	20.02	0.01							1.0
HWQ	SZ	49	5	EP		2231	17.29	0.03							1.0
MATL	SZ	65	234	EP		2231	19.93	0.09							1.0

September 6 2007 Hour: 9: 5 55.5 Lat: 34.09N Lon: 36.98E Depth: 9 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.0 secs
NEBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	55	289	EP		9 6	4.59	0.00	58						1.0
FKH	SN	55	289	ES		9 6	11.31	0.00							1.0
HWQ	SZ	98	283	EP		9 6	11.13	0.01							1.0
RCY	SZ	124	239	EP		9 6	15.08	-0.01							1.0

```
 RCY  SN  124 239 ES        9 6 29.59 0.00                              1.0
```

September 6 2007 Hour: 11:16 0.6 **Agency: REL Local**

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 FKH  SZ          EP       1116 17.79
 HWQ  SZ          EP       1116 25.26
```

September 6 2007 Hour: 11:31 29.0 **Agency: REL Local**

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 BHL  BZ          EP       1132 24.43
 BHL  BN          ES       1132 27.58
 HWQ  SZ          EP       1132 27.64
 HWQ  SN          ES       1132 33.07
```

September 6 2007 Hour: 17:49 28.2 **Agency: REL Distant**

EMSC OT=17:51:25.8 24.34N 122.38E 60Km Mw=6.5 TAIWAN REGION

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 FKH  SZ          EP     C 18 2 54.83
 BHL  BZ          EP     C 18 2 57.54
 RCY  SZ          EP     C 18 2 58.87
```

September 7 2007 Hour: 0: 0 30.4 **Agency: REL Distant**

EMSC OT=23:43:39.3 17.72S 174.98W 150Km mb=5.2 TONGA

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 BHL  BZ          EP     D  0 3  9.32
 RCY  SZ          EP     D  0 3  9.50
```

September 7 2007 Hour: 16: 0 46.0 **Agency: REL Regional**

EMSC OT=16:01:05.5 38.10N 38.65E 5Km ML=3.3 EASTERN TURKEY

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 BHL  BZ          EPn    C 16 2 21.42
 HWQ  SZ          EPn    D 16 2 14.86
```

September 8 2007 Hour: 9:34 57.7 Lat: 33.40N Lon: 35.46E Depth: 4 Agency: REL Local
Magnitudes: 2.8MC REL **Rms: 0.0 secs**

SOUTH LEBANON

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 RCY  SN   37  72 ES        935  8.19 0.01                              1.0
 BHL  BZ   59  18 EP     C  935  7.28
 HWQ  SZ  108  25 EP     C  935 15.13
 HWQ  SN  108  25 ES        935 28.00-0.01                              1.0
 MATL SZ   16 311 EP     C  935  0.32 0.00                              1.0
 RCY  SZ   37  72 EP     C  935  3.71-0.01   45                         1.0
```

September 8 2007 Hour: 12:32 57.5 **Agency: REL Regional**

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 RCY  SZ          EPn      1233 26.11
```

September 9 2007 Hour: 9:17 0.3 **Agency: REL Local**

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 RCY  SZ          EP       917 42.70
 BHL  BZ          EP       917 49.07
```

September 9 2007 Hour: 10:20 42.3 Lat: 34.22N Lon: 36.58E Depth: 8 Agency: REL Local
Magnitudes: 2.7MC REL **Rms: 0.1 secs**

HERMEL BAALBEK REGION

```
 STAT CO DIST AZI PHASE  P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO  WT
 BHL  BZ   93 248 EP     C 1020 57.31
 BHL  BN   93 248 ES       1021  8.48 0.12                              1.0
 HWQ  SZ   59 277 EP     D 1020 52.01        38
 HWQ  SN   59 277 ES       1020 58.91-0.15                             1.0
 RCY  SZ  106 221 EP     C 1020 59.05
```

September 9 2007 Hour: 11:11 4.4 Lat: 33.57N Lon: 36.97E Depth: 14 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.1 secs
DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SE	106	266	ES		1111	33.19	-0.08							1.0
BHL	BZ	128	287	EP	D	1111	24.11								
BHL	BN	128	287	ES		1111	38.91	0.16							1.0
HWQ	SZ	123	310	EP	C	1111	23.47								
HWQ	SE	123	310	ES		1111	37.47	-0.10							1.0
RCY	SZ	106	266	EP	D	1111	20.97		76						

September 10 2007 Hour: 1:59 29.8 Agency: REL Distant
EMSC OT=01:49:09.7 02.99N 78.03W 10Km Mw=6.8 COAST OF COLOMBIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	D	2	3 31.72								

September 10 2007 Hour: 11:33 3.8 Lat: 33.66N Lon: 37.03E Depth: 58 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.0 secs
DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SE	112	261	ES		1133	34.30	0.01							1.0
HWQ	SN	121	305	ES		1133	36.07	-0.01							1.0
BHL	BZ	130	282	EP	C	1133	23.31								
HWQ	SZ	121	305	EP	C	1133	22.36								
RCY	SZ	112	261	EP	D	1133	21.30		64						

September 10 2007 Hour: 12:37 40.7 Lat: 33.88N Lon: 35.72E Depth: 23 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.0 secs
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	6	294	EP	C	1237	44.59	0.02	32						1.0
BHL	BN	6	294	ES		1237	47.43	0.01							1.0
BEYL	BE	21	267	ES		1237	49.04	-0.02							1.0
RCY	SZ	44	165	EP	D	1237	48.57	0.01							1.0
RCY	SN	44	165	ES		1237	54.35	-0.02							1.0
HWQ	SZ	49	26	EP	C	1237	49.18	0.01							1.0
HWQ	SE	49	26	ES		1237	55.41	-0.02							1.0

September 10 2007 Hour: 18:44 33.5 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1845	44.46								
BHL	BZ			EP		1845	44.96								

September 10 2007 Hour: 22:40 34.7 Lat: 33.82N Lon: 35.92E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs
CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SN	37	193	ES		2240	44.87	-0.14							1.0
BHL	BZ	27	291	EP	C	2240	39.04	-0.01							1.0
BHL	BN	27	291	ES		2240	42.25	0.01							1.0
HWQ	SZ	51	2	EP	D	2240	42.88								
RCY	SZ	37	193	EP	C	2240	40.82		40						

September 11 2007 Hour: 8:58 0.3 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		858	49.39								
RCY	SZ			EP		858	47.63								

September 11 2007 Hour: 9:58 27.9 Lat: 34.69N Lon: 36.01E Depth: 71 Agency: REL Regional
Magnitudes: 2.9MC REL Rms: 0.0 secs
HOMS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	47	187	EP		958	39.70	-0.02	50						1.0
HWQ	SN	47	187	ES		958	48.48	0.01							1.0
BHL	BZ	94	200	EP		958	44.04	0.07							1.0
BHL	BN	94	200	ES		958	55.83	-0.04							1.0
RCY	SZ	134	187	EP		958	48.38	-0.05							1.0
RCY	SE	134	187	ES		959	3.67	0.03							1.0

September 11 2007 Hour: 10:44 51.1 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1045	9.23								
BHL	BZ			EP		1045	14.30								

September 11 2007 Hour: 10:57 20.7 Lat: 33.72N Lon: 35.51E Depth: 10 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BN	24	33	ES		1057	28.22	-0.02							1.0
RCY	SN	39	129	ES		1057	32.15	0.02							1.0
BHL	BZ	24	33	EP	C	1057	25.04		46						
HWQ	SZ	74	33	EP	C	1057	32.72								
RCY	SZ	39	129	EP	C	1057	27.19								

September 11 2007 Hour: 14:41 30.8 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1442	34.27								
BHL	BZ			EP		1442	40.32								

September 12 2007 Hour: 5:18 1.4 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		518	45.18								
BHL	BZ			EP		518	47.36								

September 12 2007 Hour: 10:36 59.7 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EP		1037	17.71								
BHL	BZ			EP		1037	24.85								

September 12 2007 Hour: 11:18 34.1 Agency: REL Distant
EMSC OT=11:10:21.5 04.40S 101.36E 10Km Mw=8.4 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	1121	50.82								
RCY	SZ			EP	C	1121	50.96								

September 12 2007 Hour: 16:45 26.9 Agency: REL Distant
EMSC OT=16:37:04.3 02.97S 101.42E 40Km mb=5.9 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	1648	24.28								

September 12 2007 Hour: 23:47 56.1 Agency: REL Distant
EMSC OT=23:48:59.6 02.44S 100.94E 10Km Mw=7.8 MENTAWAI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP	C	24 0	15.80								
RCY	SZ			EP	C	24 0	18.17								
BHL	BZ			EP	C	24 0	18.98								

September 13 2007 Hour: 2:40 41.7 **Agency: REL Distant**
EMSC OT=02:29:59.7 01.60S 99.70E 10Km mb=6.0 MENTAWAI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		241	11.33								
FKH	SZ			EP		241	8.17								

September 13 2007 Hour: 3:42 43.0 **Agency: REL Distant**
EMSC OT=03:35:25.2 02.16S 99.64E 10Km Mw=7.1 MENTAWAI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	346	33.60								
RCY	SZ			EP		346	37.14								

September 13 2007 Hour: 8:21 1.5 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		821	59.91								
HWQ	SZ			EP		822	7.25								

September 13 2007 Hour: 9:59 18.9 **Agency: REL Distant**
EMSC OT=09:48:41.1 03.87N 126.46E 10Km mb=6.3 KEPULAUAN TALAUD

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	10 1	35.76								

September 13 2007 Hour: 12:40 21.2 Lat: 33.76N Lon: 35.50E Depth: 17 Agency: REL Local
Magnitudes: 2.6MC REL **Rms: 0.1 secs**
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BN	22	41	ES		1240	28.90	-0.06							1.0
RCY	SE	42	133	ES		1240	33.93	0.06							1.0
BHL	BZ	22	41	EP	C	1240	25.73		33						
HWQ	SZ	71	35	EP	D	1240	32.61								
RCY	SZ	42	133	EP	D	1240	28.35								

September 13 2007 Hour: 16:13 1.3 **Agency: REL Distant**
EMSC OT=16:09:10.8 03.06S 101.44E 10Km mb=6.2 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	1620	36.51								
RCY	SZ			EP	C	1620	35.29								

September 14 2007 Hour: 1:10 19.0 **Agency: REL Distant**
EMSC OT=01:02:06.6 03.61S 101.84E 40Km mb=5.7 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	113	31.94								

September 14 2007 Hour: 6: 2 55.8 **Agency: REL Distant**
EMSC OT=06:01:32.8 04.03S 101.20E 30Km Mw=6.4 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	612	56.03								

September 14 2007 Hour: 12: 8 15.0 **Agency: REL Distant**
EMSC OT=11:51:29.6 23.46S 179.58E 549Km mb=5.6 FIJI ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	1210	11.73								
RCY	SZ			EP		1210	11.88								

September 15 2007 Hour: 5:27 27.2 **Agency: REL Regional**
EMSC OT=05:26:52.8 37.81N 37.00E 10Km ML=4.4 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EPn		527	52.21								
BHL	BZ			EPn		527	56.62								
RCY	SZ			EPn		528	2.37								

September 15 2007 Hour: 10: 1 28.3 Lat: 33.75N Lon: 35.53E Depth: 6 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BE	20	35	ES		10 1	34.36	-0.01							1.0
RCY	SN	40	135	ES		10 1	39.80	0.00							1.0
BHL	BZ	20	35	EP	C	10 1	31.77		25						
HWQ	SZ	70	33	EP	D	10 1	39.64								
RCY	SZ	40	135	EP	D	10 1	34.89								

September 15 2007 Hour: 10: 1 41.9 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		10 1	48.12								
RCY	SZ			EP		10 1	51.43								

September 15 2007 Hour: 10:21 2.8 Lat: 33.58N Lon: 35.67E Depth: 38 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs
SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	18	120	EP		1021	9.19	-0.14	44						1.0
RCY	SN	18	120	ES		1021	14.25	0.08							1.0
BHL	BZ	36	358	EP		1021	10.91	0.14							1.0
BHL	BE	36	358	ES		1021	16.60	-0.08							1.0
HWQ	SZ	82	18	EP		1021	16.12	0.00							1.0

September 15 2007 Hour: 10:41 46.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1042	26.75								
RCY	SZ			EP		1042	24.23								

September 15 2007 Hour: 14:38 4.3 Agency: REL Distant
EMSC OT=14:45:29.4 02.72S 101.09E 40Km mb=5.8 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP	D	1456	46.10								
RCY	SZ			EP		1456	46.68								
BHL	BZ			EP	D	1456	46.75								

September 15 2007 Hour: 18:31 34.0 Lat: 32.80N Lon: 35.45E Depth: 4 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs
NORTH GALILEE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	77	351	EP		1831	46.36	0.00							1.0
RCY	SZ	85	25	EP		1831	47.63	-0.02	42						1.0
RCY	SN	85	25	ES		1831	57.80	0.01							1.0
BHL	BZ	123	9	EP		1831	53.73	0.02							1.0
BHL	BN	123	9	ES		1832	8.32	-0.01							1.0

September 15 2007 Hour: 23:26 46.0 Agency: REL Regional
EMSC OT=23:28:48.7 37.80N 36.97E 10Km ML=4.2 CENTRAL TURKEY

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPn	D	2329	45.60								
HWQ	BZ			EPn		2329	45.90								
BHL	BZ			EPn	D	2329	51.54								
RCY	SZ			EPn		2329	57.27								

September 16 2007 Hour: 2:43 46.2 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		244	35.04								
BHL	BZ			EP		244	38.50								

September 16 2007 Hour: 10:34 0.7 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1034	28.53								
BHL	BZ			EP		1034	30.77								
HWQ	SZ			EP		1034	31.06								

September 17 2007 Hour: 9:46 47.7 Lat: 33.83N Lon: 36.82E Depth: 7 Agency: REL Local
Magnitudes: 3.3MC REL **Rms: 0.0 secs**
DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	60	321	EP		946	57.50	0.03							1.0
FKH	SN	60	321	ES		947	4.69	-0.01							1.0
HWQ	SN	95	302	ES		947	14.46	0.01							1.0
RCY	SZ	98	248	EP		947	3.51	-0.06	88						1.0
RCY	SE	98	248	ES		947	15.37	0.05							1.0
BHL	BE	108	275	ES		947	17.77	-0.04							1.0
BHL	BZ	108	275	EP		947	5.03	0.03							1.0

September 17 2007 Hour: 12: 9 47.7 **Agency: REL Distant**
EMSC OT=11:52:11.9 18.31S 175.52W 265Km mb=5.1 TONGA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	D	1211	27.94								
RCY	SZ			EP	D	1211	28.13								

September 17 2007 Hour: 12:41 42.0 **Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EPn		1242	8.13								

September 17 2007 Hour: 14:18 53.2 Lat: 33.72N Lon: 35.81E Depth: 32 Agency: REL Local
Magnitudes: 2.8MC REL **Rms: 0.0 secs**
CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BE	25	324	ES		1419	4.36	-0.01							1.0
RCY	SE	25	175	ES		1419	4.51	0.00							1.0
HWQ	SN	63	11	ES		1419	12.20	0.01							1.0
BHL	BZ	25	324	EP	C	1418	59.62								
HWQ	SZ	63	11	EP	D	1419	4.06								
RCY	SZ	25	175	EP	D	1418	59.67		46						

September 18 2007 Hour: 8:24 5.1 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		825	28.16								
RCY	SZ			EP		825	21.97								

September 18 2007 Hour: 12:17 1.8 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1217	40.12								
BHL	BZ			EP		1217	41.78								

September 18 2007 Hour: 20:53 15.8 **Agency: REL Regional**
EMSC OT=20:53:32.1 35.61N 44.63E 40Km ML=4.3 IRAQ

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPn		2055	22.31								
HWQ	BZ			EPn		2055	15.75								

September 19 2007 Hour: 7:32 12.0 **Agency: REL Distant**
EMSC OT=07:27:49.4 02.54S 101.01E 30Km mb=6.0 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP	C	739	7.27								
HWQ	BZ			EP	C	739	6.72								

September 19 2007 Hour: 9: 6 18.7 Lat: 33.37N Lon: 35.45E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs
SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SN	39	68	ES		9 6	29.55	-0.03							1.0
BHL	BN	63	17	ES		9 6	36.28	-0.04							1.0
BHL	BZ	63	17	EP	D	9 6	28.91								
HWQ	SZ	111	24	EP	C	9 6	36.74								
MATL	SZ	18	321	EP	D	9 6	21.51								
RCY	SZ	39	68	EP	C	9 6	24.93		44						

September 19 2007 Hour: 10:55 28.2 Lat: 33.72N Lon: 36.72E Depth: 22 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.0 secs
DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BE	94	311	ES		1055	54.18	0.02							1.0
BHL	BE	100	282	ES		1055	55.70	-0.02							1.0
BHL	BZ	100	282	EP	C	1055	44.02								
HWQ	BZ	94	311	EP	C	1055	43.06								
RCY	SZ	85	253	EP	D	1055	41.86		73						

September 19 2007 Hour: 15:39 0.3 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1540	35.48								
HWQ	BZ			EP		1540	33.41								

September 20 2007 Hour: 8:31 5.5 Agency: REL Distant
EMSC OT=08:31:14.9 01.98S 100.19E 40Km Mw=6.6 SOUTHERN SUMATRA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		842	24.25								
HWQ	BZ			EP		842	24.61								
BHL	BZ			EP		842	25.57								

September 20 2007 Hour: 10: 2 9.3 Lat: 33.78N Lon: 35.76E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SN	32	168	ES		10 2	18.39	0.01							1.0
HWQ	SN	58	17	ES		10 2	25.62	0.07							1.0
BEYL	BZ	27	292	EP	D	10 2	13.78	0.07							1.0
BHL	BZ	17	324	EP	C	10 2	12.03	-0.08	42						1.0
HWQ	SZ	58	17	EP	D	10 2	18.61	-0.05							1.0
MATL	SZ	52	231	EP	C	10 2	17.67								
RCY	SZ	32	168	EP	D	10 2	14.48								

September 20 2007 Hour: 10:18 2.8 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1018	42.77								
BHL	BZ			EP		1018	46.24								

September 20 2007 Hour: 11:47 46.9 Lat: 34.42N Lon: 36.75E Depth: 3 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.0 secs
NEBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ	76	258	EP		1147	59.13	0.01	58						1.0
HWQ	BN	76	258	ES		1148	8.13	-0.02							1.0
RCY	SZ	133	220	EP		1148	8.02	-0.07							1.0
RCY	SN	133	220	ES		1148	23.78	0.02							1.0
BHL	BZ	116	241	EP		1148	5.70	0.07							1.0

September 20 2007 Hour: 12:18 10.6 Lat: 33.58N Lon: 36.97E Depth: 15 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.1 secs
DAMASCUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	105	265	EP		1218	27.18	0.07	75						1.0
RCY	SE	105	265	ES		1218	39.28	-0.04							1.0
HWQ	BZ	122	310	EP		1218	29.52	-0.07							1.0
HWQ	BE	122	310	ES		1218	43.67	0.04							1.0
BHL	BZ	127	287	EP		1218	30.26	0.00							1.0

September 20 2007 Hour: 16:56 54.2 Agency: REL Regional
EMSC OT=16:56:05.2 35.88N 28.98E 10Km ML=3.9 EASTERN MED SEA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPn		1657	31.71								
HWQ	BZ			EPn		1657	33.58								
RCY	SZ			EPn		1657	35.97								

September 21 2007 Hour: 4:53 30.5 Lat: 33.56N Lon: 35.34E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs
SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SE	47	99	ES		453	43.63	-0.03							1.0
BHL	BZ	48	38	EP	D	453	38.19								
MATL	SZ	8	184	EP	D	453	31.73								
RCY	SZ	47	99	EP	C	453	38.04		49						

September 21 2007 Hour: 9:42 38.5 Lat: 33.38N Lon: 35.32E Depth: 13 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.1 secs
SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SN	50	75	ES		942	53.14	0.08							1.0
BHL	BZ	66	28	EP	C	942	49.30								
HWQ	BZ	115	30	EP	D*	942	58.72								
MATL	SZ	12	6	EP	D	942	41.46								
RCY	SZ	50	75	EP	D	942	46.57		55						

September 21 2007 Hour: 10:22 0.2 Agency: REL Regional
EMSC OT=10:21:18.9 37.48N 44.28E 5Km mb=4.5 TURKEY-IRAN-IRAQ BORDER

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EPn		1023	8.60								
BHL	BZ			EPn		1023	13.86								

September 21 2007 Hour: 10:33 0.6 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1033	16.40								
BHL	BN			ES		1033	20.00								
HWQ	SZ			EP		1033	17.35								

September 21 2007 Hour: 13: 1 19.7 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		13 2	18.40								
BHL	BZ			EP		13 2	27.38								

September 21 2007 Hour: 14: 2 45.7 Lat: 33.76N Lon: 35.51E Depth: 19 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BE	21	39	ES		14 2	53.69	0.00							1.0
RCY	SN	42	134	ES		14 2	58.40	0.00							1.0
BHL	BZ	21	39	EP	C	14 2	50.30		42						
HWQ	SZ	70	35	EP	C	14 2	57.14								
RCY	SZ	42	134	EP	D	14 2	52.99								

September 22 2007 Hour: 6:12 45.1 Lat: 33.34N Lon: 35.54E Depth: 10 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.0 secs
SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SN	33	57	ES		612	54.87	0.01							1.0
BHL	BN	64	10	ES		613	3.28	0.02							1.0
BHL	BZ	64	10	EP	C	612	55.56								
HWQ	BZ	111	20	EP	C*	613	4.41								
MATL	SZ	26	310	EP	C	612	49.53								
RCY	SZ	33	57	EP	D	612	50.67		27						

September 22 2007 Hour: 9:35 38.1 Lat: 33.42N Lon: 35.42E Depth: 21 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.0 secs
SOUTH LEBANON

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SN	40	78	ES		935	50.57	0.01							1.0
BHL	BN	58	23	ES		935	54.86	0.03							1.0
BHL	BZ	58	23	EP	D	935	47.71								
HWQ	SZ	107	27	EP	C*	935	57.81								
MATL	SZ	11	312	EP	C	935	41.78								
RCY	SZ	40	78	EP	C	935	45.20		53						

September 22 2007 Hour: 20: 6 0.7 Agency: REL Regional
EMSC OT=20:04:50.8 35.04N 27.14E 10Km Mw=4.7 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EPn		20 6	38.20								
BHL	BZ			EPn		20 6	34.80								
RCY	SZ			EPn		20 6	39.59								
FKH	SZ			EPn		20 6	43.99								

September 23 2007 Hour: 0:54 59.9 Agency: REL Regional
EMSC OT=00:54:27.6 35.09N 27.15E 10Km Mw=5.3 DODECANESE ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPn		056	11.58								
RCY	SZ			EPn		056	15.55								
HWQ	BZ			EPn		056	14.79								
MATL	SZ			EPn		056	11.82								

September 23 2007 Hour: 3:15 35.8 Lat: 34.32N Lon: 36.42E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs
HERMEL BAALBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	8	184	EP		315	37.12	-0.01	34						1.0
FKH	SN	8	184	ES		315	38.12	-0.02							1.0
HWQ	BZ	44	264	EP		315	42.72	-0.06							1.0
HWQ	BE	44	264	ES		315	47.96	-0.01							1.0
BHL	BZ	84	237	EP		315	49.42	0.10							1.0

September 23 2007 Hour: 7: 1 20.6 Lat: 33.69N Lon: 35.84E Depth: 3 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.2 secs
CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ	21	181	EPg	D	7 1	24.00	-0.12	68						1.0
RCY	SN	21	181	ESg		7 1	26.83	0.10							1.0
BHL	BZ	29	325	EPg	D	7 1	25.21	-0.19							1.0
BEYL	BZ	38	303	EPg	D*	7 1	26.84	0.10							0.0
MATL	SZ	52	245	EPg	C	7 1	29.03	0.01							1.0
HWQ	SZ	66	9	EPg	D	7 1	31.71	0.41							1.0
FKH	SZ	81	40	EPg	C	7 1	33.56	-0.16							1.0
FKH	SE	81	40	ESg		7 1	43.39	-0.05							1.0

September 23 2007 Hour: 10:15 3.3 **Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EPn		1015	13.17								
BHL	BZ			EPn		1015	16.14								

September 23 2007 Hour: 10:53 1.1 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SZ			EP		1054	6.46								
HWQ	BZ			EP		1054	7.74								

September 23 2007 Hour: 23:39 1.7 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		2339	49.00								
BHL	BZ			EP		2339	57.82								

September 24 2007 Hour: 2:28 48.9 Lat: 33.44N Lon: 35.60E Depth: 14 Agency: REL Local
Magnitudes: 2.9MC REL **Rms: 0.1 secs**
SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
RCY	SE	23	75	ES		228	56.75	0.07							1.0
BHL	BN	51	6	ES		229	3.75	-0.02							1.0
BHL	BZ	51	6	EP	D	228	57.52								
MATL	SZ	26	281	EP	D	228	53.61								
RCY	SZ	23	75	EP	D	228	53.22		52						

September 24 2007 Hour: 9: 8 29.3 Lat: 33.60N Lon: 35.42E Depth: 10 Agency: REL Local
Magnitudes: 2.9MC REL **Rms: 0.0 secs**
SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BN	40	32	ES		9 8	41.02	-0.02							1.0
RCY	SE	40	107	ES		9 8	41.10	0.00							1.0
BHL	BZ	40	32	EP	C	9 8	36.09								
HWQ	SZ	89	33	EP	D	9 8	43.70								
MATL	SZ	15	215	EP	D	9 8	32.30								
RCY	SZ	40	107	EP	C	9 8	36.05		48						

September 24 2007 Hour: 18: 9 56.5 **Agency: REL Regional**
EMSC OT=18:12:31.6 34.98N 23.33E 40Km mb=4.8 CRETE, GREECE

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPn		1814	54.59								
RCY	SZ			EPn		1814	55.87								
HWQ	SZ			EPn		1814	56.82								
FKH	SZ			EPn		1815	1.03								

September 25 2007 Hour: 5:31 10.7 Lat: 34.60N Lon: 32.80E Depth: 2 Agency: REL Regional
Magnitudes: 3.6MC REL **Rms: 1.7 secs**
EMSC OT=05:31:10.1 34.65N 32.92E 5Km ML=3.5 CYPRUS REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SZAC	SZ	19	24	EP		531	15.0	1.16							1.0
PPCY	SZ	52	308	EP		531	21.5	2.37							1.0
LEF	SZ	58	8	EP		531	18.8	-1.34							1.0
CSS	SZ	63	50	EP		531	19.4	-1.55							1.0
ALFC	SZ	65	344	EP		531	20.4	-0.73							1.0
MAMC	SZ	74	31	EP		531	21.0	-1.70							1.0
LFK	SZ	101	41	EP		531	25.8	-1.23							1.0
LFK	SZ	101	41	ES		531	38.8	-0.31							1.0
PHNC	SZ	122	68	EP		531	32.1	1.76							1.0
PHNC	SZ	122	68	ES		531	48.7	3.83							1.0
BHL	BZ	274	106	EP		531	49.16	-1.55							1.0
HWQ	SZ	292	96	EP		531	53.31	0.43	100						1.0
HWQ	SN	292	96	ES		532	22.72	-1.37							1.0
RCY	SZ	306	113	EP		531	54.92	0.22							1.0

September 26 2007 Hour: 11:31 0.4 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1131	36.22								
BHL	BZ			EP		1131	43.03								

September 26 2007 Hour: 12:36 40.2 Lat: 33.85N Lon: 35.89E Depth: 11 Agency: REL Local
Magnitudes: 2.7MC REL **Rms: 0.1 secs**
CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BE	23	285	ES		1236	47.51	0.06							1.0
RCY	SE	40	187	ES		1236	51.93	0.02							1.0
BHL	BZ	23	285	EP	C	1236	44.23		38						
HWQ	SZ	48	6	EP	C	1236	48.12								
RCY	SZ	40	187	EP	D	1236	46.90								

September 26 2007 Hour: 12:54 49.1 **Agency: REL Distant**
EMSC OT=12:36:27.2 04.91S 153.40E 50Km Mw=6.8 NEW IRELAND REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	BZ			EP		1256	12.58								
BHL	BZ			EP		1256	14.60								

September 26 2007 Hour: 15:53 6.3 **Agency: REL Distant**
EMSC OT=15:42:58.1 01.67S 99.50E 10Km Mw=6.0 MENTAWAI REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1554	11.57								
HWQ	BZ			EP		1554	10.68								

September 27 2007 Hour: 8:40 3.8 **Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPn		840	31.93								
RCY	SZ			EPn		840	30.36								

September 27 2007 Hour: 20:15 43.5 **Agency: REL Distant**
EMSC OT=19:57:46.1 21.23S 169.33E 30Km mb=6.2 LOYALTY ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2017	11.28								
HWQ	BZ			EP		2017	7.47								

September 28 2007 Hour: 5:31 45.2 Lat: 33.75N Lon: 35.61E Depth: 14 Agency: REL Local
Magnitudes: 2.6MC REL **Rms: 0.1 secs**
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SE	18	13	ES		531	51.87	0.06							1.0
RCY	SN	35	143	ES		531	55.94	0.00							1.0
HWQ	SE	67	28	ES		532	3.96	-0.05							1.0
BHL	SZ	18	13	EP	D	531	48.92		34						
HWQ	SZ	67	28	EP	C	531	56.12								
RCY	SZ	35	143	EP	D	531	51.40								

September 28 2007 Hour: 8:37 15.9 Lat: 33.52N Lon: 35.39E Depth: 23 Agency: REL Local
Magnitudes: 2.5MC REL **Rms: 0.1 secs**
SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	6	236	EP		837	19.58	0.00	30						1.0
RCY	SZ	42	94	EP		837	23.51	0.11							1.0
RCY	SN	42	94	ES		837	28.90	-0.07							1.0

September 28 2007 Hour: 9:50 38.9 Lat: 33.78N Lon: 35.77E Depth: 0 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.1 secs
BEIRUT REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BN	17	322	ES		950	43.74	0.05							1.0
RCY	SN	33	168	ES		950	48.06	-0.03							1.0
BHL	BZ	17	322	EP	C	950	41.55		41						
HWQ	SZ	57	17	EP	C	950	48.20								
RCY	SZ	33	168	EP	D	950	44.13								

September 28 2007 Hour: 11:33 58.8 Agency: REL Distant
EMSC OT=11:16:41.3 21.31S 169.08E 30Km mb=5.9 LOYALTY ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1135	37.44								

September 28 2007 Hour: 13:49 47.8 Agency: REL Distant
EMSC OT=13:38:56.9 22.02N 142.68E 261Km Mw=7.4 VOLCANO ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1351	33.39								
RCY	SZ			EP		1351	33.52								

September 28 2007 Hour: 15:21 2.6 Lat: 33.73N Lon: 35.81E Depth: 21 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.0 secs
CENTRAL BEKAA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	24	323	EP		1521	7.71	0.01	48						1.0
BHL	BE	24	323	ES		1521	11.45	-0.01							1.0
RCY	SZ	27	175	EP		1521	8.07	0.01							1.0
RCY	SN	27	175	ES		1521	12.09	-0.01							1.0
HWQ	SZ	62	12	EP		1521	12.82	0.01							1.0

September 29 2007 Hour: 3:38 20.0 Lat: 33.50N Lon: 35.27E Depth: 0 Agency: REL Local
Magnitudes: 2.6MC REL Rms: 0.1 secs
SAIDA REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	5	104	EP		338	20.76	-0.08	36						1.0
RCY	SZ	52	90	EP		338	28.47	0.07							1.0
BHL	BZ	57	38	EP		338	29.16	-0.01							1.0

September 29 2007 Hour: 5:42 45.8 Agency: REL Distant
EMSC OT=05:32:43.4 02.97N 95.64E 40Km mb=5.6 SIMEULUE,INDONESIA

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		543	12.30								
HWQ	BZ			EP		543	10.54								

September 29 2007 Hour: 8:59 26.2 Lat: 34.36N Lon: 36.85E Depth: 0 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.3 secs
NEBEK REGION

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	43	253	EP		859	32.52	-0.54	67						1.0
FKH	SN	43	253	ES		859	38.20	0.03							1.0
HWQ	SZ	84	264	EP		859	40.05	0.34							1.0
BHL	BZ	122	246	EP		859	45.82	0.04							1.0
RCY	SZ	134	225	EP		859	47.96	0.13							1.0

September 30 2007 Hour: 2:20 4.9 Agency: REL Distant
EMSC OT=02:08:31.4 10.43N 145.82E 30Km Mw=6.9 MARIANA ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		222	16.34								
HWQ	BZ			EP		222	13.54								

September 30 2007 Hour: 5:41 6.8 **Agency: REL Distant**

EMSC OT=05:23:33.8 49.33S 163.90E 10Km Mw=7.4 AUCKLAND ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		542	55.00								
HWQ	BZ			EP		542	54.51								

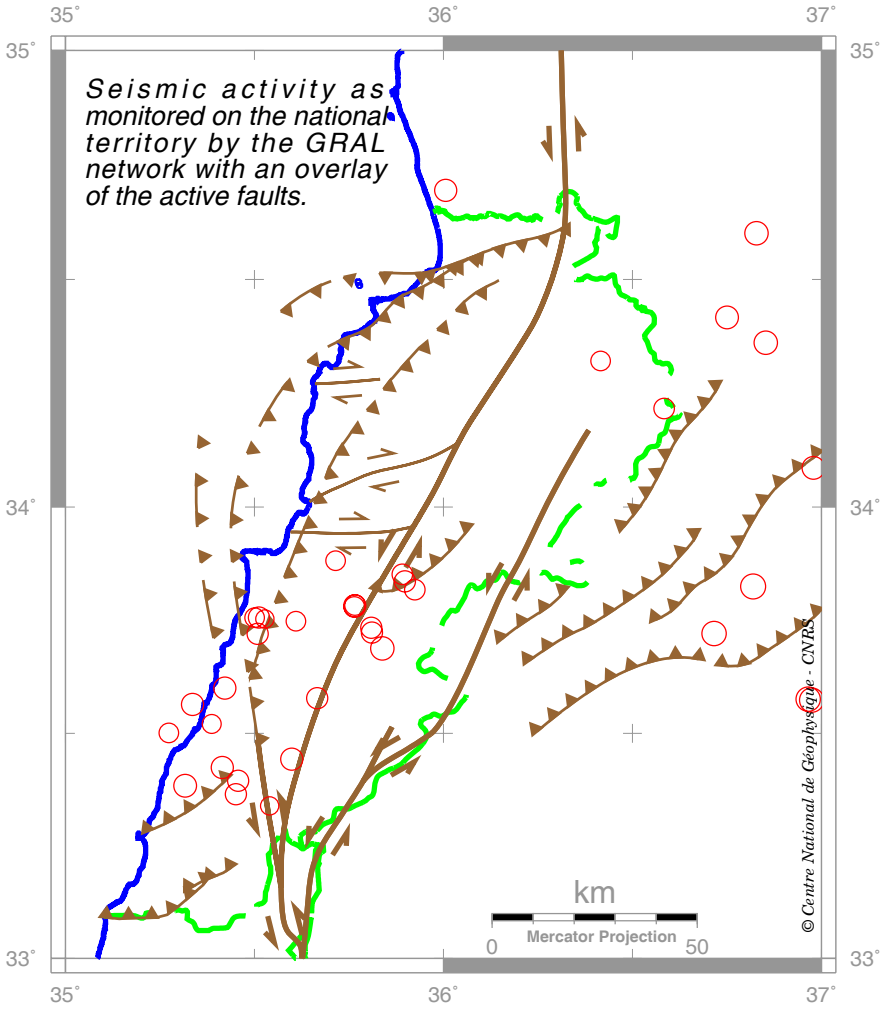
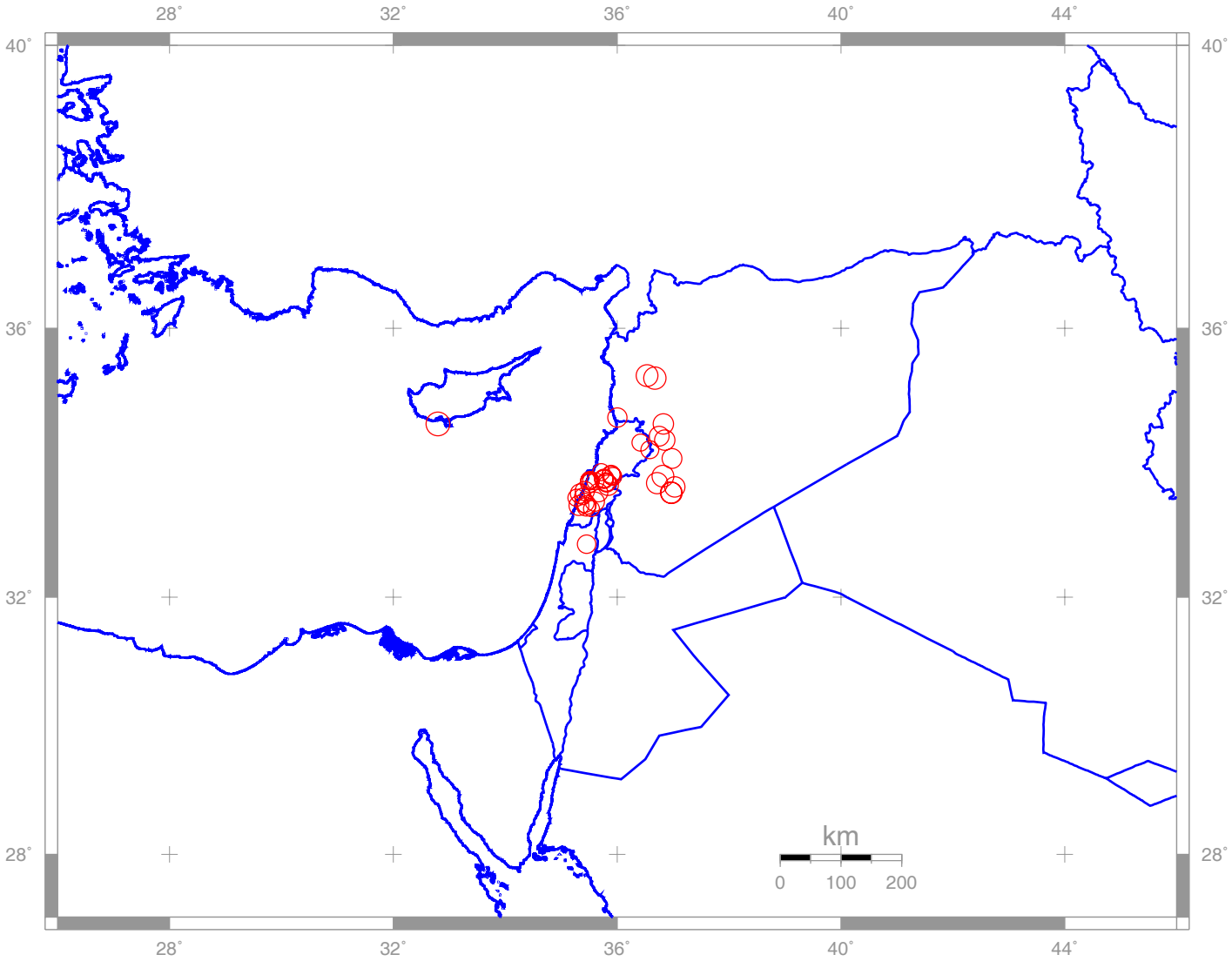
September 30 2007 Hour: 10: 5 10.4 **Agency: REL Distant**

EMSC OT=09:47:49.8 49.27S 163.51E 10Km Mw=6.7 AUCKLAND ISLANDS

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		10 7	10.47								
HWQ	BZ			EP		10 7	4.22								

Epicentral Map of Lebanon

September 2007

Magnitudes

- Ml = 2
- Ml = 3
- Ml = 4
- Ml = 5
- ★ Felt