

Republic of Lebanon
National Council for Scientific Research

Provisional Seismological Bulletin

from the

NATIONAL SEISMIC NETWORK

May

2006

Prepared by
The National Centre for Geophysical Research
Bhannes

*P.o.b. : 165432
Ashrafyeh Beirut 1100-2040*

*Tel : +9614-981885
Fax : +9614-981886
Email : geophys@cnrs.edu.lb*

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 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	3414.13N	3624.11E	1170	FAKEHEH	Opened Dec 2004
RCY	3329.08N	3549.13E	1360	RACHAYA	Opened Jun 2006
DWR	3323.13N	3524.08E	420	DWEIR	Scheduled 2003

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.ifjff.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: GRL throughout the bulletin, aka. Geophysical Research Lebanon

MAGNITUDES: Up to 3 different magnitudes can be given followed by type and reporting agency, e.g. 3.1 MC GRL - coda magnitude calculated according to GRL standard parameters.

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 ($0.5 \times (\text{peak to peak})$), (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 2006 Hour: 6:18 0.2 Agency: REL Local
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SE ISg 618 25.30
 BHL SZ IPg 618 22.23
 BHL SN ISg 618 25.97
 HWQ SZ IPg 618 21.27

May 1 2006 Hour: 10:43 47.2 Lat: 33.78N Lon: 36.05E Depth:118 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.2 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 39 291 EPg 1044 3.73 0.19 41 1.0
 BHL BN 39 291 ESg 1044 15.48-0.11 1.0
 HWQ SZ 56 350 EPg 1044 4.47 0.10 1.0
 HWQ SE 56 350 ESg 1044 16.98-0.06 1.0

May 1 2006 Hour: 13:14 57.6 Lat: 34.23N Lon: 35.39E Depth: 47 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.2 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 44 147 EPg 1315 7.02 0.00 1.0
 BHL BE 44 147 ESg 1315 13.87-0.10 1.0
 HWQ SZ 51 84 EPg 1315 7.51-0.27 59 1.0
 HWQ SN 51 84 ESg 1315 15.52 0.22 1.0
 MATL SZ 83 184 EPg 1315 11.36 0.17 1.0

May 2 2006 Hour: 17:40 19.1 Lat: 33.34N Lon: 35.34E Depth: 27 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.8 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MATL SZ 17 356 IPg 1740 24.68 0.60 1.0
 BHL BZ 69 25 IPg 1740 29.38-1.22 49 1.0
 BHL BN 69 25 ISg 1740 38.07-1.03 1.0
 HWQ SZ 118 28 IPg 1740 38.12 0.45 1.0
 HWQ SN 118 28 ISg 1740 52.65 1.25 1.0

May 2 2006 Hour: 20:54 22.0 Lat: 33.31N Lon: 35.34E Depth: 37 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 1.0 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 MATL SZ 20 357 IPg 2054 29.16 0.76 1.0
 BHL BZ 72 24 IPg 2054 32.34-1.76 62 1.0
 BHL BN 72 24 ISg 2054 42.08-0.97 1.0
 HWQ SZ 121 27 IPg 2054 40.86 0.67 1.0
 HWQ SE 121 27 ISg 2054 54.97 1.32 1.0

May 3 2006 Hour: 11:31 29.8 Lat: 34.45N Lon: 36.76E Depth: 0 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 1.1 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ 41 234 EPg 1131 35.04-1.27 79 1.0
 FKH SE 41 234 ESg 1131 40.27-0.88 1.0
 HWQ SZ 77 256 EPg 1131 42.68 0.48 1.0
 HWQ SN 77 256 ESg 1131 50.58-0.82 1.0
 BHL SZ 118 240 EPg 1131 49.74 0.86 1.0
 BHL SN 118 240 ESg 1132 4.65 1.64 1.0

May 3 2006 Hour: 15:45 1.8 Tonga Islands Mw 7.8 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1546 21.91
 FKH SZ EP 1546 24.37

May 4 2006 Hour: 11:43 29.6 Tonga Islands mb 5.8 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EP 1145 17.97
 BHL BZ EP 1145 18.87

May 4 2006 Hour: 12:17 1.9 Tonga Islands mb 5.3 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1218 10.20

May 5 2006 Hour: 4:38 54.0 Tonga Islands mb 5.8 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 439 28.72

May 5 2006 Hour: 5:41 0.9 Agency: REL Local
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EPg 541 47.28
 HWQ SE ESg 542 6.81
 BHL BE ESg 541 51.37
 HWQ SZ EPg 541 51.64

May 5 2006 Hour: 6:35 1.4 Tonga Islands Mw 5.9 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 636 7.11
 FKH SZ EP 636 5.76

May 5 2006 Hour: 11:24 44.5 Agency: REL Local
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EPg 1126 3.18
 HWQ SE ESg 1126 13.17
 FKH SN ESg 1126 7.23
 HWQ SZ EPg 1126 5.81

May 5 2006 Hour: 13:54 51.6 Lat: 33.85N Lon: 35.50E Depth: 14 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.8 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL SZ 15 68 IPg 1354 54.34-0.75 40 1.0
 BHL SN 15 68 ISg 1354 57.64 0.00 1.0
 MATL SZ 44 202 EPg 1354 59.89 0.88 1.0
 HWQ SZ 63 41 IPg 1355 0.95-1.06 1.0
 HWQ SN 63 41 ISg 1355 10.98 1.30 1.0

May 5 2006 Hour: 14:57 38.6 Lat: 33.86N Lon: 36.06E Depth: 32 Agency: REL Local
Magnitudes: 3.1MC REL Rms: 0.6 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL SZ 38 277 EPg 1457 46.80 0.36 64 1.0
 BHL SN 38 277 ESg 1457 52.01-0.20 1.0
 HWQ SZ 47 347 EPg 1457 48.24 0.67 1.0
 HWQ SN 47 347 ESg 1457 53.79-0.38 1.0

May 6 2006 Hour: 1:32 19.0 Lat: 34.31N Lon: 35.81E Depth: 22 Agency: REL Local
Magnitudes: 3.5MC REL Rms: 0.2 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ 14 107 IPg 132 23.44 0.25 121 1.0
 HWQ SN 14 107 ISg 132 26.36 0.04 1.0
 BHL BZ 48 197 IPg 132 27.23 0.02 1.0
 BHL BE 48 197 ISg 132 32.91-0.39 1.0
 FKH SZ 56 99 IPg 132 28.27-0.06 1.0
 FKH SE 56 99 ISg 132 34.97-0.29 1.0
 MATL SZ 102 206 IPg 132 35.00 0.09 1.0

May 6 2006 Hour: 9: 9 45.9 Lat: 33.14N Lon: 35.02E Depth: 15 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	48	37	EPg		9 9	53.47	-0.46	37						1.0
HWQ	SZ	153	34	EPg		910	8.99	-0.37							1.0
HWQ	SN	153	34	ESg		910	27.17	0.47							1.0

May 6 2006 Hour: 9:30 19.6 Lat: 33.37N Lon: 35.17E Depth: 0 Agency: REL Local
 Magnitudes: 3.0MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	20	48	EPg		930	23.10	0.22							1.0
BHL	SN	75	37	ESg		930	40.01	-0.58							1.0
HWQ	SZ	124	35	EPg		930	40.11	0.47	56						1.0
HWQ	SE	124	35	ESg		930	54.64	0.19							1.0

May 6 2006 Hour: 11:23 0.8 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPg		1124	3.99								
HWQ	SZ			EPg		1124	8.79								
FKH	SE			ESg		1124	7.38								
HWQ	SN			ESg		1124	15.19								

May 6 2006 Hour: 14: 9 42.7 Lat: 33.87N Lon: 35.53E Depth: 15 Agency: REL Local
 Magnitudes: 3.2MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	12	69	IPg		14 9	45.27	-0.62	83						1.0
BHL	BE	12	69	ISg		14 9	48.56	0.28							1.0
MATL	SZ	46	204	IPg		14 9	51.07	0.75							1.0
HWQ	SZ	60	40	IPg		14 9	51.83	-0.62							1.0
HWQ	SN	60	40	ISg		1410	0.43	0.73							1.0

May 7 2006 Hour: 2:49 0.5 [Tonga Islands mb 5.4](#) Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EP		253	33.57								
BHL	BZ			EP		253	34.85								

May 7 2006 Hour: 4:37 34.6 Lat: 34.31N Lon: 36.27E Depth: 8 Agency: REL Local
 Magnitudes: 2.5MC REL Rms: 0.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	14	125	EPg		437	37.17	-0.22	29						1.0
FKH	SE	14	125	ESg		437	39.54	0.13							1.0
HWQ	SZ	30	264	EPg		437	39.98	0.22							1.0
HWQ	SN	30	264	ESg		437	43.42	-0.13							1.0
BHL	SN	73	232	ESg		437	55.21	0.00							1.0

May 7 2006 Hour: 6:24 7.2 [Iran mb 4.7](#) Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		625	6.90								

May 7 2006 Hour: 10:30 11.1 Lat: 33.72N Lon: 36.24E Depth:106 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	58	291	EPg		1030	27.15	0.08	48						1.0
BHL	SN	58	291	ESg		1030	38.81	-0.05							1.0
HWQ	SZ	68	337	EPg		1030	27.81	0.08							1.0
HWQ	SE	68	337	ESg		1030	39.96	-0.05							1.0

May 7 2006 Hour: 12:11 0.7 **Agency: REL Local**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EPg 1212 10.61
 BHL SZ EPg 1212 11.86
 HWQ SE ESg 1212 25.76
 BHL SN ESg 1212 27.85

May 7 2006 Hour: 14:21 24.0 **Mid Indian ridge Ms 5.7** **Agency: REL Distant**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1429 52.78

May 8 2006 Hour: 9:27 16.6 **Sumatra Mw 5.9** **Agency: REL Distant**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 928 27.92

May 8 2006 Hour: 11:10 44.4 **Lat: 34.37N Lon: 36.81E Depth: 0** **Agency: REL Local**
Magnitudes: 3.2MC REL **Rms: 0.6 secs**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ 41 248 IPg 1110 50.06-0.95 73 1.0
 FKH SE 41 248 ISg 1110 55.47-0.44 1.0
 HWQ SZ 81 263 EPg 1110 57.93 0.52 1.0
 HWQ SN 81 263 ESg 1111 6.94-0.10 1.0
 BHL SZ 119 244 EPg 1111 4.01 0.41 1.0
 BHL SN 119 244 ESg 1111 18.37 0.56 1.0

May 8 2006 Hour: 11:36 0.1 **Agency: REL Local**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EPg 1136 36.27
 HWQ SE ESg 1136 49.89
 BHL SZ EPg 1136 38.16
 BHL SE ESg 1136 53.58

May 8 2006 Hour: 15: 3 7.2 **Lat: 34.19N Lon: 35.56E Depth: 0** **Agency: REL Local**
Magnitudes: 2.9MC REL **Rms: 0.3 secs**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 33 164 IPg 15 3 11.89-0.60 53 1.0
 BHL BN 33 164 ISg 15 3 16.37-0.05 1.0
 HWQ SZ 37 75 IPg 15 3 13.18-0.02 1.0
 HWQ SN 37 75 ISg 15 3 17.74 0.09 1.0

May 9 2006 Hour: 11:13 58.9 **Siberia mb 5.7** **Agency: REL Distant**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1114 16.64

May 10 2006 Hour: 2:35 53.8 **Tonga Islands mb 5.3** **Agency: REL Distant**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 236 17.15

May 10 2006 Hour: 2:49 51.9 **Aleutian Islands Mw 6.4** **Agency: REL Distant**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 255 54.37
 FKH SZ EP 255 53.46

May 10 2006 Hour: 14:27 0.8 **Agency: REL Local**
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ IPg 1428 45.94
 HWQ SZ EPg 1428 47.84
 BHL BE ISg 1428 49.81
 HWQ SN ESg 1428 51.95

May 11 2006 Hour: 13:19 35.7 Lat: 34.37N Lon: 36.50E Depth: 0 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.7 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	17	211	IPg		1319	37.58	-0.90							1.0
FKH	SE	17	211	ISg		1319	39.64	-0.87							1.0
HWQ	SZ	52	259	IPg		1319	43.87	-0.17	62						1.0
HWQ	SE	52	259	ISg		1319	49.66	-0.53							1.0
BHL	BZ	93	237	IPg		1319	51.82	1.08							1.0
BHL	BN	93	237	ISg		1320	2.29	0.44							1.0

May 11 2006 Hour: 17:30 1.9 Myanmar Mw 5.4 Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1732	0.42								

May 12 2006 Hour: 9:45 0.2 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPg		945	29.43								
FKH	SE			ESg		945	33.68								
HWQ	SZ			EPg		945	32.27								
HWQ	SE			ESg		945	36.98								

May 12 2006 Hour: 11:36 1.0 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPg		1137	12.45								
HWQ	SZ			EPg		1137	16.56								
FKH	SN			ESg		1137	18.49								
HWQ	SE			ESg		1137	20.94								

May 12 2006 Hour: 11:44 1.6 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPg		1144	55.50								
HWQ	SZ			EPg		1144	58.82								
HWQ	SE			ESg		1145	5.01								
FKH	SE			ESg		1145	2.92								

May 12 2006 Hour: 21:1 1.7 Crete mb 4.1 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EPn		21	1	31.55							
HWQ	SN			Sn		21	2	53.16							
FKH	SE			Sn		21	3	1.92							
BHL	SE			Sn		21	2	49.39							

May 12 2006 Hour: 21:19 0.3 Crete mb 3.9 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EPn		2119	43.80								
FKH	SN			Sn		2121	17.63								
HWQ	SN			Sn		2121	6.91								
BHL	SE			Sn		2121	2.25								

May 13 2006 Hour: 3:21 41.7 Sumatra mb 5.8 Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		321	54.95								

May 13 2006 Hour: 6:51 37.5 Lat: 33.81N Lon: 35.46E Depth: 50 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	21	60	IPg		651	45.47	-0.01	42						1.0
BHL	SE	21	60	ISg		651	51.26	-0.12							1.0
HWQ	SZ	69	41	EPg		651	49.79	0.06							1.0
HWQ	SE	69	41	ESg		651	59.00	0.22							1.0
FKH	SZ	99	61	EPg		651	53.11	-0.13							1.0
FKH	SE	99	61	ESg		652	4.82	-0.07							1.0

May 13 2006 Hour: 9:49 36.1 Lat: 33.33N Lon: 35.19E Depth: 13 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.9 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	22	38	IPg		949	41.23	0.93	41						1.0
BHL	SN	77	34	ESg		949	56.37	-1.75							1.0
HWQ	SZ	126	34	EPg		949	56.13	-0.52							1.0
HWQ	SE	126	34	ESg		950	12.65	0.80							1.0

May 13 2006 Hour: 12:49 13.5 Lat: 34.47N Lon: 36.78E Depth: 0 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 1.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	43	233	EPg		1249	18.58	-1.88	53						1.0
FKH	SE	43	233	ESg		1249	24.13	-1.49							1.0
HWQ	SZ	79	255	EPg		1249	27.61	1.33							1.0
HWQ	SN	79	255	ESg		1249	35.62	-0.13							1.0
BHL	BZ	121	239	EPg		1249	33.40	0.39							1.0
BHL	BE	121	239	ESg		1249	47.94	0.48							1.0
MATL	SZ	172	231	EPg		1249	41.81	0.51							1.0

May 13 2006 Hour: 14:19 49.2 Lat: 34.51N Lon: 36.89E Depth: 0 Agency: REL Local
 Magnitudes: 3.0MC REL Rms: 1.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	54	236	EPg		1419	56.90	-1.10	60						1.0
FKH	SN	54	236	ESg		1420	3.51	-0.98							1.0
HWQ	SZ	91	254	EPg		1420	5.06	1.21							1.0
HWQ	SN	91	254	ESg		1420	13.55	-1.13							1.0
BHL	SZ	132	240	EPg		1420	10.51	-0.07							1.0
BHL	SE	132	240	ESg		1420	28.45	2.07							1.0

May 14 2006 Hour: 9: 2 46.1 Lat: 33.33N Lon: 35.40E Depth: 26 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	19	339	EPg		9 2	51.37	0.29							1.0
BHL	BZ	68	20	IPg		9 2	57.14	-0.20	43						1.0
BHL	BN	68	20	ISg		9 3	4.93	-0.73							1.0
HWQ	SZ	117	26	EPg		9 3	4.11	-0.26							1.0
HWQ	SN	117	26	ESg		9 3	18.79	0.89							1.0

May 14 2006 Hour: 12:11 43.8 Lat: 34.62N Lon: 36.68E Depth: 15 Agency: REL Local
 Magnitudes: 3.2MC REL Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	77	241	IPg		1211	56.03	-0.17	74						1.0
HWQ	SE	77	241	ESg		1212	5.44	0.08							1.0
BHL	SZ	123	230	IPg		1212	3.21	0.26							1.0
BHL	SE	123	230	ISg		1212	16.97	-0.14							1.0
MATL	SZ	177	225	EPg		1212	10.79	0.05							1.0

May 14 2006 Hour: 12:59 27.8 Lat: 34.56N Lon: 36.80E Depth: 0 Agency: REL Local
 Magnitudes: 3.2MC REL Rms: 1.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	51	226	IPg		1259	34.94	-1.11							1.0
FKH	SN	51	226	ISg		1259	40.24	-1.93							1.0
HWQ	SZ	85	249	IPg		1259	42.69	1.28	74						1.0
HWQ	SN	85	249	ISg		1259	51.00	-0.50							1.0
BHL	SZ	128	236	IPg		1259	49.44	0.99							1.0
BHL	SN	128	236	ISg		13 0	4.65	0.90							1.0
MATL	SZ	180	229	IPg		1259	55.63	-1.24							1.0

May 14 2006 Hour: 13:18 54.7 Lat: 32.59N Lon: 35.63E Depth: 0 Agency: REL Regional
Magnitudes: 3.2MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	103	344	EPg		1319	11.54	0.19							1.0
BHL	SZ	145	1	EP		1319	17.81	-0.20	73						1.0
BHL	SN	145	1	ES		1319	35.23	-0.02							1.0
HWQ	SZ	189	9	EP		1319	24.70	0.34							1.0
HWQ	SE	189	9	ES		1319	46.45	0.16							1.0

May 14 2006 Hour: 13:25 52.5 Lat: 33.91N Lon: 36.91E Depth: 103 Agency: REL Local
Magnitudes: 3.4MC REL Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	98	295	EPg		1326	11.33	0.05							1.0
HWQ	SE	98	295	ESg		1326	25.07	-0.10							1.0
BHL	SZ	116	270	EPg		1326	13.03	0.10	90						1.0
BHL	SN	116	270	ESg		1326	28.13	0.08							1.0
MATL	SZ	154	253	EPg		1326	16.45	-0.12							1.0

May 15 2006 Hour: 4:22 39.6 Lat: 34.37N Lon: 26.25E Depth: 0 Agency: REL Regional
Magnitudes: 4.7MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	845	94	EPn		424	31.46	0.84							1.0
BHL	BZ	869	91	EPn		424	33.21	-0.46							1.0
BHL	BE	869	91	Sn		425	57.25	-0.81							1.0
HWQ	SZ	892	88	EPn		424	36.22	-0.38	210						1.0
HWQ	SN	892	88	Sn		426	3.29	0.13							1.0
FKH	SZ	934	88	EPn		424	41.85	0.01							1.0
FKH	SN	934	88	Sn		426	12.95	0.68							1.0

May 15 2006 Hour: 12:42 47.6 Lat: 34.46N Lon: 36.81E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.9 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	45	237	EPg		1242	53.57	-1.30	48						1.0
FKH	SN	45	237	ESg		1242	59.72	-0.56							1.0
HWQ	SZ	82	256	EPg		1243	0.99	0.14							1.0
HWQ	SE	82	256	ESg		1243	10.31	-0.37							1.0
BHL	SZ	123	240	EPg		1243	8.65	1.19							1.0
BHL	SN	123	240	ESg		1243	23.08	0.89							1.0

May 15 2006 Hour: 13:29 20.8 Lat: 34.48N Lon: 36.87E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 1.0 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	51	238	EPg		1329	28.01	-0.90	48						1.0
FKH	SN	51	238	ESg		1329	34.12	-0.82							1.0
HWQ	SZ	88	256	EPg		1329	35.81	0.93							1.0
HWQ	SN	88	256	ESg		1329	44.55	-0.78							1.0
BHL	SN	129	241	ESg		1329	58.44	1.58							1.0

May 15 2006 Hour: 15:25 36.8 Lat: 34.54N Lon: 36.05E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	31	199	EPg		1525	41.57	-0.15	49						1.0
HWQ	SE	31	199	ESg		1525	44.80	-0.56							1.0
BHL	SZ	79	208	EPg		1525	49.74	0.14							1.0
BHL	SE	79	208	ESg		1525	59.21	0.14							1.0

May 15 2006 Hour: 17:22 53.4 Fiji mb 4.9 Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1723	22.70								

May 16 2006 Hour: 1:12 59.1 Tonga Islands mb 5.2 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 113 39.18

May 16 2006 Hour: 10:54 30.9 Kermadec Islands Mw 7.5 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1058 54.71
 FKH SZ EP 1058 56.55

May 16 2006 Hour: 11:32 25.5 Lat: 33.71N Lon: 35.81E Depth:116 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.3 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL SZ 26 326 EPg 1132 41.57 0.45 54 1.0
 BHL SN 26 326 ESg 1132 52.95 0.28 1.0
 MATL SZ 51 242 EPg 1132 41.50-0.47 1.0
 HWQ SZ 64 11 EPg 1132 43.16 0.27 1.0
 HWQ SN 64 11 ESg 1132 55.26-0.48 1.0

May 16 2006 Hour: 15:37 15.7 Sumatra Mw 6.9 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 1539 17.03

May 16 2006 Hour: 21:15 14.3 Tonga Islands mb 5.8 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 2115 39.53

May 17 2006 Hour: 3:25 33.1 Tonga Islands Mw 6.0 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 326 8.97

May 17 2006 Hour: 17:35 6.6 Lat: 34.10N Lon: 35.58E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.2 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL SZ 23 163 IPg 1735 9.74-0.53 44 1.0
 BHL SE 23 163 ISg 1735 13.00 0.05 1.0
 HWQ SZ 39 59 EPg 1735 13.05 0.14 1.0
 HWQ SN 39 59 ESg 1735 17.54-0.02 1.0

May 17 2006 Hour: 22:16 55.4 Tonga Islands Mw 5.8 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 2217 40.17

May 18 2006 Hour: 0:10 14.3 Lat: 33.78N Lon: 35.47E Depth: 14 Agency: REL Local
Magnitudes: 2.1MC REL Rms: 0.0 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ 22 51 EPg 010 18.61 0.00 18 1.0
 BHL BN 22 51 ESg 010 21.80 0.00 1.0
 HWQ SZ 71 38 EPg 010 25.94-0.04 1.0
 HWQ SN 71 38 ESg 010 34.65 0.03 1.0

May 18 2006 Hour: 23:14 50.5 Kamchatka mb 5.7 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 2316 57.43

May 18 2006 Hour: 23:39 52.1 Iraq M 4.2 Agency: REL Regional
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ EPn 2340 20.57
 BHL BZ EPn 2340 37.08

May 19 2006 Hour: 12:36 37.8 Lat: 34.10N Lon: 36.69E Depth: 30 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	30	300	EPg		1236	44.51	-0.08	52						1.0
FKH	SN	30	300	ESg		1236	49.64	0.05							1.0
HWQ	SZ	71	286	EPg		1236	49.84	0.08							1.0
HWQ	SE	71	286	ESg		1236	58.53	-0.05							1.0
BHL	SZ	98	257	EPg		1236	53.53	0.00							1.0
BHL	SN	98	257	ESg		1237	5.13	0.00							1.0

May 19 2006 Hour: 14:54 57.5 Minahassa mb 6.0 Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1457	17.90								
FKH	SZ			EP		1457	15.28								

May 19 2006 Hour: 21:54 24.6 Lat: 34.25N Lon: 35.31E Depth: 0 Agency: REL Local
 Magnitudes: 3.5MC REL FELT Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	50	141	IPg		2154	32.80	0.12	121						1.0
BHL	SE	50	141	ISg		2154	38.28	-0.37							1.0
HWQ	SZ	59	87	IPg		2154	33.64	-0.41							1.0
HWQ	SN	59	87	ISg		2154	40.82	-0.21							1.0
MATL	SZ	85	179	IPg		2154	38.55	0.25							1.0
FKH	SZ	100	91	IPg		2154	40.75	-0.07							1.0
FKH	SE	100	91	ISg		2154	53.46	0.66							1.0

May 19 2006 Hour: 22:57 4.0 Lat: 33.87N Lon: 35.37E Depth: 0 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	27	81	IPg		2257	8.06	-0.35	50						1.0
BHL	SE	27	81	ISg		2257	11.55	-0.09							1.0
HWQ	SZ	71	49	IPg		2257	15.81	0.40							1.0
HWQ	SE	71	49	ISg		2257	23.90	0.08							1.0

May 20 2006 Hour: 9: 3 57.2 Lat: 33.84N Lon: 35.76E Depth: 0 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	12	305	IPg		9 3	57.98	-1.11	44						1.0
BHL	SN	12	305	ISg		9 4	0.82	0.35							1.0
HWQ	SZ	51	20	IPg		9 4	5.58	0.09							1.0
HWQ	SN	51	20	ISg		9 4	11.78	0.17							1.0
MATL	SZ	56	225	IPg		9 4	7.07	0.84							1.0

May 20 2006 Hour: 9: 7 0.4 Lat: 33.57N Lon: 35.87E Depth: 18 Agency: REL Local
 Magnitudes: 2.3MC REL Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	42	332	EPg		9 7	8.12	0.50	21						1.0
MATL	SZ	51	259	EPg		9 7	8.64	-0.22							1.0
HWQ	SZ	79	5	EPg		9 7	13.05	0.08							1.0
HWQ	SE	79	5	ESg		9 7	21.86	-0.42							1.0

May 20 2006 Hour: 9:27 18.2 Lat: 32.63N Lon: 34.16E Depth: 16 Agency: REL Regional
 Magnitudes: 3.2MC REL Rms: 2.0 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	145	49	EPg		927	39.90	-0.54	65						1.0
BHL	SE	198	44	ES		928	6.13	-2.78							1.0
HWQ	SZ	247	42	EP		927	52.34	-1.07							1.0
HWQ	SE	247	42	ES		928	22.84	3.39							1.0

May 20 2006 Hour: 9:39 10.2 Lat: 33.33N Lon: 35.27E Depth: 5 Agency: REL Local
 Magnitudes: 2.7MC REL Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	18	18	IPg		939	13.22	-0.04	37						1.0
BHL	SN	72	29	ESg		939	30.84	0.18							1.0
HWQ	SE	122	31	ESg		939	44.34	-0.16							1.0

May 20 2006 Hour: 10:14 49.4 Lat: 33.79N Lon: 36.51E Depth: 67 Agency: REL Local
 Magnitudes: 3.0MC REL Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	75	316	EPg		1015	3.40	0.14	57						1.0
HWQ	SN	75	316	ESg		1015	13.46	-0.08							1.0
BHL	SZ	80	279	EPg		1015	4.25	0.49							1.0
BHL	SE	80	279	ESg		1015	14.14	-0.28							1.0

May 20 2006 Hour: 10:28 26.0 Lat: 34.22N Lon: 35.38E Depth: 0 Agency: REL Local
 Magnitudes: 2.9MC REL Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	43	144	IPg		1028	33.34	0.37	50						1.0
BHL	SE	43	144	ISg		1028	37.77	-0.39							1.0
HWQ	SZ	53	83	IPg		1028	34.01	-0.49							1.0
HWQ	SE	53	83	ISg		1028	41.16	0.35							1.0

May 21 2006 Hour: 3:47 16.1 Turkey mb 4.9 Agency: REL Regional

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPn		350	8.77								
HWQ	SZ			EPn		350	12.66								
BHL	BZ			EPn		350	19.02								
MATL	SZ			EPn		350	32.64								

May 21 2006 Hour: 10: 2 34.0 Lat: 34.07N Lon: 35.07E Depth: 87 Agency: REL Local
 Magnitudes: 2.8MC REL Rms: 0.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	57	109	IPg		10 2	47.59	-0.50	40						1.0
MATL	SZ	69	160	EPg		10 2	49.15	0.29							1.0
HWQ	SZ	84	74	EPg		10 2	50.32	0.04							1.0
HWQ	SN	84	74	ESg		10 3	2.49	0.16							1.0

May 21 2006 Hour: 10:18 31.9 Lat: 33.85N Lon: 35.55E Depth: 18 Agency: REL Local
 Magnitudes: 3.1MC REL Rms: 0.8 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	11	60	IPg		1018	34.30	-1.10	67						1.0
BHL	SN	11	60	ISg		1018	38.34	0.36							1.0
MATL	SZ	46	207	IPg		1018	40.58	0.96							1.0
HWQ	SZ	59	38	IPg		1018	40.98	-0.73							1.0
HWQ	SE	59	38	ISg		1018	50.21	1.25							1.0
FKH	SN	89	61	ISg		1018	57.11	0.59							1.0

May 21 2006 Hour: 11: 1 1.7 Lat: 33.82N Lon: 36.77E Depth: 0 Agency: REL Local
 Magnitudes: 3.1MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	57	323	EPg		11 1	10.52	-0.40	70						1.0
FKH	SE	57	323	ESg		11 1	17.82	0.06							1.0
HWQ	SZ	92	304	EPg		11 1	16.52	0.07							1.0
HWQ	SN	92	304	ESg		11 1	27.60	0.22							1.0
BHL	SZ	104	275	EPg		11 1	18.83	0.39							1.0
BHL	SE	104	275	ESg		11 1	30.51	-0.34							1.0

May 21 2006 Hour: 12:16 28.1 Lat: 34.49N Lon: 36.92E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 1.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	55	239	EPg		1216	35.84	-1.17	52						1.0
FKH	SN	55	239	ESg		1216	42.30	-1.33							1.0
HWQ	SZ	93	255	EPg		1216	42.76	-0.22							1.0
HWQ	SE	93	255	ESg		1216	53.85	-0.17							1.0
BHL	SZ	134	241	EPg		1216	51.02	1.41							1.0
BHL	SN	134	241	ESg		1217	7.02	1.47							1.0

May 22 2006 Hour: 11:21 55.0 Siberia Mw 6.7 Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1123	53.94								

May 22 2006 Hour: 13:17 52.7 Kamchatka mb 6.1 Agency: REL Distant

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		1319	45.87								
FKH	SZ			EP		1319	43.24								

May 22 2006 Hour: 14:49 37.5 Lat: 34.16N Lon: 35.58E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	29	166	EPg		1449	41.68	-0.51	54						1.0
BHL	SE	29	166	ESg		1449	45.55	-0.09							1.0
HWQ	SZ	37	68	EPg		1449	43.39	-0.05							1.0
HWQ	SN	37	68	ESg		1449	47.91	0.10							1.0

May 22 2006 Hour: 16:30 49.3 Lat: 33.34N Lon: 35.41E Depth: 30 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	18	335	EPg		1630	55.21	0.44	54						1.0
BHL	SZ	66	20	IPg		1630	59.34	-1.26							1.0
BHL	SE	66	20	ISg		1631	8.54	-0.39							1.0
HWQ	SZ	115	25	IPg		1631	8.30	0.78							1.0
HWQ	SN	115	25	ISg		1631	21.49	0.52							1.0

May 23 2006 Hour: 3:31 15.5 Lat: 34.88N Lon: 36.57E Depth: 13 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	73	192	IPg		331	27.45	-0.08	46						1.0
FKH	SN	73	192	ISg		331	36.47	0.06							1.0
HWQ	SZ	88	221	IPg		331	29.80	-0.05							1.0
HWQ	SE	88	221	ISg		331	40.45	-0.01							1.0
BHL	SZ	137	218	IPg		331	37.26	-0.45							1.0
BHL	SN	137	218	ESg		331	54.45	0.32							1.0

May 23 2006 Hour: 5: 6 1.1 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPg		5 7	2.26								
FKH	SE			ESg		5 7	6.36								
HWQ	SN			ESg		5 7	9.64								

May 23 2006 Hour: 14: 2 26.6 Lat: 34.34N Lon: 36.57E Depth: 10 Agency: REL Local
Magnitudes: 2.4MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	19	231	IPg		14 2	30.41	0.20	27						1.0
FKH	SE	19	231	ISg		14 2	32.72	-0.18							1.0
HWQ	SZ	58	263	IPg		14 2	35.51	-0.53							1.0
HWQ	SE	58	263	ISg		14 2	43.77	0.73							1.0
BHL	SZ	97	240	EPg		14 2	42.53	0.16							1.0
BHL	SN	97	240	ESg		14 2	53.29	-0.77							1.0

May 23 2006 Hour: 16:59 35.9 Lat: 36.56N Lon: 36.23E Depth: 0 Agency: REL Regional
Magnitudes: 3.8MC REL Rms: 1.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	254	186	EP		17 0	12.42	-1.14	131						1.0
HWQ	SN	254	186	ES		17 0	38.56	-2.89							1.0
FKH	SZ	258	177	EP		17 0	14.09	0.06							1.0
FKH	SE	258	177	ES		17 0	43.37	1.10							1.0
BHL	SZ	299	190	EP		17 0	20.13	1.02							1.0
BHL	SE	299	190	ES		17 0	52.95	1.85							1.0

May 24 2006 Hour: 10:26 49.1 Lat: 33.50N Lon: 36.55E Depth: 39 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	83	350	IPg		1027	2.33	-0.28							1.0
FKH	SE	83	350	ISg		1027	12.73	0.16							1.0
BHL	SZ	95	299	IPg		1027	3.43	-0.62							1.0
BHL	SN	95	299	ISg		1027	15.43	0.35							1.0
HWQ	SZ	103	327	IPg		1027	5.98	0.89	36						1.0
HWQ	SE	103	327	ISg		1027	16.38	-0.51							1.0

May 24 2006 Hour: 10:52 0.4 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EPg		1052	50.33								
HWQ	SE			ESg		1053	4.44								
BHL	SZ			EPg		1052	52.46								
BHL	SE			ESg		1053	7.62								

May 24 2006 Hour: 12:17 0.4 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			IPg		1217	52.36								
HWQ	SZ			EPg		1218	0.13								
HWQ	SN			ESg		1218	9.34								
FKH	SN			ISg		1217	57.78								

May 24 2006 Hour: 15:1 3.2 Lat: 34.16N Lon: 35.54E Depth: 0 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	30	159	IPg		15 1	7.45	-0.63	51						1.0
BHL	BE	30	159	ISg		15 1	11.71	0.03							1.0
HWQ	SZ	40	70	IPg		15 1	9.99	0.36							1.0
HWQ	SE	40	70	ISg		15 1	14.26	-0.12							1.0

May 24 2006 Hour: 17:17 1.2 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			EPg		1717	23.72								
HWQ	SZ			EPg		1717	26.32								
BHL	SN			ESg		1717	27.72								
HWQ	SE			ESg		1717	30.97								

May 25 2006 Hour: 4:3 17.6 Lat: 34.44N Lon: 34.77E Depth: 14 Agency: REL Local
Magnitudes: 2.9MC REL Rms: 0.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	101	126	IPg		4 3	34.15	0.15							1.0
BHL	BN	101	126	ISg		4 3	46.09	-0.05							1.0
HWQ	SZ	109	99	IPg		4 3	35.05	-0.33	48						1.0
HWQ	SN	109	99	ISg		4 3	48.73	0.17							1.0

May 25 2006 Hour: 7:44 0.3 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			EPg		744	53.12								
HWQ	SN			ESg		745	9.28								
BHL	SN			ESg		744	58.53								
HWQ	SZ			EPg		745	1.34								

May 25 2006 Hour: 7:52 0.8 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			EPg		752	17.57								
HWQ	SN			ESg		752	36.67								
BHL	SN			ESg		752	26.16								
HWQ	SZ			EPg		752	25.16								

May 25 2006 Hour: 12:47 0.3 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ			EPg		1247	59.17								
HWQ	SZ			EPg		1248	2.42								
FKH	SN			ESg		1248	2.24								
HWQ	SN			ESg		1248	6.37								

May 25 2006 Hour: 13:15 0.5 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			EPg		1315	28.75								
BHL	SN			ESg		1315	51.60								
HWQ	SN			ESg		1315	38.02								
BHL	SZ			EPg		1315	36.08								

May 25 2006 Hour: 13:33 43.9 Lat: 34.71N Lon: 36.43E Depth: 0 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.9 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	53	183	EPg		1333	51.92	-0.45	44						1.0
FKH	SN	53	183	ESg		1333	58.75	0.07							1.0
HWQ	SZ	66	223	EPg		1333	54.25	-0.20							1.0
HWQ	SN	66	223	ESg		1334	0.87	-1.41							1.0
BHL	SZ	115	219	EPg		1334	3.10	0.74							1.0
BHL	SN	115	219	ESg		1334	17.30	1.25							1.0

May 25 2006 Hour: 14:39 19.9 Lat: 33.82N Lon: 35.67E Depth: 14 Agency: REL Local
Magnitudes: 2.7MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	10	353	IPg		1439	21.96	-0.89	40						1.0
BHL	BE	10	353	ISg		1439	25.46	0.46							1.0
MATL	SZ	48	221	IPg		1439	28.32	0.33							1.0
HWQ	SZ	57	27	IPg		1439	29.43	-0.09							1.0
HWQ	SE	57	27	ISg		1439	36.92	0.32							1.0

May 25 2006 Hour: 14:58 0.8 **Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			EPg		1459	4.97								
HWQ	SN			ESg		1459	12.21								
BHL	SE			ESg		1459	9.43								
HWQ	SZ			EPg		1459	6.41								

May 25 2006 Hour: 23:14 50.4 Ionian sea mb 4.6 **Agency: REL Regional**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EP		2317	39.12								
HWQ	SZ			EPn		2317	39.38								

May 26 2006 Hour: 22:54 2.5 Tonga Islands mb 5.4 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 2254 56.07

May 26 2006 Hour: 23:4 55.9 Ionian sea Mw 6.4 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 23 6 19.32

May 27 2006 Hour: 4:15 1.1 Agency: REL Local
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL SZ EPg 415 40.73
 HWQ SE ESg 415 47.17
 BHL SN ESg 415 44.01
 HWQ SZ EPg 415 42.68

May 27 2006 Hour: 9:5 17.5 Lat: 34.56N Lon: 35.79E Depth: 0 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.6 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ 35 156 EPg 9 5 21.99-1.16 56 1.0
 HWQ SN 35 156 ESg 9 5 27.47 0.16 1.0
 FKH SZ 67 123 EPg 9 5 28.32 0.02 1.0
 FKH SE 67 123 ESg 9 5 36.57 0.30 1.0
 BHL BZ 75 190 EPg 9 5 30.46 0.91 1.0
 BHL BN 75 190 ESg 9 5 38.22-0.22 1.0

May 27 2006 Hour: 13:9 1.4 Agency: REL Local
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 HWQ SZ EPg 13 9 53.50
 HWQ SN ESg 1310 2.28
 BHL SZ EPg 1310 0.20
 BHL SE ESg 1310 13.94

May 27 2006 Hour: 16:15 0.8 Agency: REL Local
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EPg 1615 31.05
 BHL SN ESg 1615 38.89
 HWQ SZ EPg 1615 31.50
 HWQ SE ESg 1615 40.15

May 28 2006 Hour: 3:27 53.2 New Britain Mw 6.4 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 331 42.25

May 28 2006 Hour: 3:55 18.9 Tonga Islands mb 5.9 Agency: REL Distant
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 BHL BZ EP 356 4.40

May 28 2006 Hour: 4:37 31.7 Lat: 34.69N Lon: 37.20E Depth: 0 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.3 secs
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT
 FKH SZ 90 236 EPg 437 45.66-0.49 77 1.0
 FKH SN 90 236 ESg 437 57.11 0.27 1.0
 HWQ SZ 124 249 EPg 437 51.88 0.11 1.0
 HWQ SE 124 249 ESg 438 6.54-0.07 1.0
 BHL SZ 167 239 EPg 437 59.09 0.38 1.0
 BHL SE 167 239 ESg 438 18.49-0.20 1.0

May 28 2006 Hour: 23:8 11.0 Lat: 33.87N Lon: 35.49E Depth: 17 Agency: REL Local
Magnitudes: 2.8MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ	16	76	IPg		23 8	14.59	-0.33	48						1.0
BHL	BN	16	76	ISg		23 8	17.86	0.07							1.0
MATL	SZ	45	199	IPg		23 8	18.14	-0.42							1.0
HWQ	SZ	62	43	IPg		23 8	21.52	0.29							1.0
HWQ	SE	62	43	ISg		23 8	29.91	1.13							1.0
FKH	SZ	94	64	IPg		23 8	24.98	-0.90							1.0
FKH	SE	94	64	ISg		23 8	36.24	-0.62							1.0

May 29 2006 Hour: 10:35 49.6 Lat: 33.75N Lon: 36.78E Depth: 0 Agency: REL Local
Magnitudes: 3.2MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	65	327	EPg		1035	59.18	-0.89	71						1.0
FKH	SN	65	327	ESg		1036	8.11	0.32							1.0
HWQ	SZ	97	308	EPg		1036	5.78	0.46							1.0
HWQ	SE	97	308	ESg		1036	16.98	0.05							1.0
BHL	SZ	106	280	EPg		1036	7.24	0.50							1.0
BHL	SE	106	280	ESg		1036	18.97	-0.43							1.0

May 29 2006 Hour: 11:9 45.5 Lat: 34.30N Lon: 36.82E Depth: 0 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	39	259	EPg		11 9	50.79	-0.99	59						1.0
FKH	SE	39	259	ESg		11 9	56.05	-0.38							1.0
HWQ	SZ	80	268	EPg		11 9	59.13	0.69							1.0
HWQ	SE	80	268	ESg		1110	8.15	0.14							1.0
BHL	SZ	116	248	EPg		1110	4.47	0.26							1.0
BHL	SN	116	248	ESg		1110	18.33	0.28							1.0

May 29 2006 Hour: 14:57 0.1 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	BZ			EPg		1458	1.48								
HWQ	SZ			EPg		1458	2.83								
BHL	BN			ESg		1458	5.59								
HWQ	SE			ESg		1458	8.31								

May 29 2006 Hour: 15:12 23.1 Lat: 34.35N Lon: 36.88E Depth: 0 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.3 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	45	254	EPg		1512	30.08	-0.36	57						1.0
FKH	SE	45	254	ESg		1512	35.31	-0.55							1.0
HWQ	SZ	86	265	EPg		1512	37.17	0.19							1.0
HWQ	SE	86	265	ESg		1512	47.44	0.20							1.0
BHL	SZ	123	247	EPg		1512	43.09	0.14							1.0
BHL	SE	123	247	ESg		1512	57.99	0.37							1.0

May 29 2006 Hour: 17:48 1.5 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			EPg		1748	53.60								
HWQ	SZ			EPg		1748	54.95								
HWQ	SN			ESg		1749	0.10								
BHL	SE			ESg		1748	57.57								

May 31 2006 Hour: 9:20 0.9 Agency: REL Local

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			EPg		920	57.47								
BHL	SN			ESg		921	1.22								
HWQ	SZ			EPg		920	58.10								
HWQ	SE			ESg		921	2.99								

May 31 2006 Hour: 12:28 24.8 Lat: 34.35N Lon: 36.85E Depth: 0 Agency: REL Local
Magnitudes: 3.0MC REL Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
FKH	SZ	43	253	EPg		1228	30.92	-0.90	59						1.0
FKH	SE	43	253	ESg		1228	36.37	-0.61							1.0
HWQ	SZ	84	265	EPg		1228	38.82	0.50							1.0
HWQ	SN	84	265	ESg		1228	48.41	0.12							1.0
BHL	SZ	121	246	EPg		1228	44.72	0.37							1.0
BHL	SN	121	246	ESg		1228	59.31	0.52							1.0

Epicentral Map of Lebanon May 2006

Magnitudes

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

