

Republic of Lebanon  
National Council for Scientific Research

# Provisional Seismological Bulletin

from the

## NATIONAL SEISMIC NETWORK

June

2004

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 and the Syrian seismic network SNSN 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	Scheduled 2003
RCY	3329.08N	3549.13E	1360	RACHAYA	Scheduled 2003
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 will be available for download in pdf format on:  
<http://www.cnrs.edu.lb/geophysicalresearch/>

## 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: 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 ( $0.5 * (\text{peak to peak})$ ), (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.

**June 1 2004 Hour: 7:3 1.4** Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 7 4 21.23  
 BHL SN ISG 7 4 23.91  
 HWQ SE ISG 7 4 32.41

**June 1 2004 Hour: 9:49 0.5** Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 950 24.05  
 BHL SE ISG 950 32.63  
 HWQ SZ IPG 950 25.14  
 HWQ SE ISG 950 33.44

**June 1 2004 Hour: 10:41 4.8** Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 1042 13.63  
 HWQ SE ISG 1042 27.19  
 BHL SN ISG 1042 25.03  
 HWQ SZ IPG 1042 14.75

**June 2 2004 Hour: 14:15 3.7** Lat: 33.14N Lon: 35.19E Depth: 0 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.4 secs  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MATL SZ40.41 18 IPG 1415 10.38 0.2 41 1.0  
 BHL SZ94.67 27 IPG 1415 18.26 -0.7 1.0  
 BHL SN94.67 27 ISG 1415 30.24 0.0 1.0  
 HWQ SZ143.9 29 IPG 1415 27.49 0.6 1.0  
 HWQ SE143.9 29 ISG 1415 44.15 0.0 1.0

**June 2 2004 Hour: 14:55 43.4** Lat: 34.19N Lon: 35.53E Depth: 15 Agency: REL Local  
 Magnitudes: 2.7MC REL Rms: 0.2 secs  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ34.00 160 IPG 1455 49.59 0.2 37 18 38 19.7 1.0  
 BHL SN34.00 160 ISG 1455 53.54 -0.3 1.0  
 HWQ SZ39.93 76 IPG 1455 50.18 -0.1 1.0  
 HWQ SE39.93 76 ISG 1455 55.56 0.2 1.0

**June 3 2004 Hour: 0:16 17.0** Lat: 33.12N Lon: 35.45E Depth: 0 Agency: REL Local  
 Magnitudes: 3.0MC REL Rms: 1.0 secs  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MATL SZ42.60 344 IPG 016 23.57 -0.3 1.0  
 BHL SZ89.03 12 IPG 016 30.50 -0.9 54 1.0  
 BHL SE89.03 12 ISG 016 43.37 1.4 1.0  
 HWQ SZ136.4 19 IPG 016 38.60 -0.4 1.0  
 HWQ SE136.4 19 ISG 016 57.12 1.8 1.0

**June 3 2004 Hour: 13:18 29.5** Lat: 32.25N Lon: 35.53E Depth: 0 Agency: REL Regional  
 Rms: 0.0 secs  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MATL SZ138.3 352 EPN 1319 17.87 25.2 1.0  
 BHL SZ183.6 4 EPN 1319 26.19 27.8 1.0  
 BHL SN183.6 4 SN 1319 52.94 33.1 1.0  
 HWQ SZ228.0 10 EPN 1319 33.08 29.1 1.0  
 HWQ SE228.0 10 SN 1320 4.30 34.8 1.0

**June 3 2004 Hour: 15:3 0.8** Agency: REL Local  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 15 4 8.08  
 HWQ SZ IPG 15 4 5.87  
 HWQ SE ISG 15 4 18.40  
 BHL SN ISG 15 4 23.39

**June 4 2004 Hour: 0:3 0.2 Agency: REL Local**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 0 4 39.15  
 HWQ SZ IPG 0 4 35.94  
 BHL SE ISG 0 4 55.11  
 HWQ SE ISG 0 4 48.78

**June 4 2004 Hour: 1:30 24.9 Lat: 33.38N Lon: 35.31E 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  
 MATL SZ12.27 6 IPG 130 27.00 0.2 1.0  
 BHL SZ66.24 28 IPG 130 34.66 -0.9 42 1.0  
 BHL SN66.24 28 ISG 130 42.85 -0.6 1.0  
 HWQ SZ115.6 30 IPG 130 44.22 0.7 1.0  
 HWQ SE115.6 30 ISG 130 57.93 0.6 1.0

**June 4 2004 Hour: 7:14 42.4 Lat: 33.91N Lon: 35.65E Depth: 10 Agency: REL Local**  
**Magnitudes: 2.4MC REL Rms: 0.9 secs**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ0.975 114 IPG 714 43.35 -1.0 25 294 0 43.1 1.0  
 BHL SE0.975 114 ISG 714 46.30 0.6 1.0  
 HWQ SZ49.62 34 IPG 714 51.84 1.2 1.0  
 HWQ SN49.62 34 ISG 714 55.90 -0.8 1.0

**June 4 2004 Hour: 20:33 46.6 Lat: 33.54N Lon: 36.92E Depth: 15 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 SZ121.5 313 IPG 2034 6.32 0.8 51 33 -98 39.1 1.0  
 HWQ SE121.5 313 ISG 2034 19.35 -0.1 1.0  
 BHL SN123.8 289 ISG 2034 19.33 -0.7 1.0

**June 5 2004 Hour: 9:58 0.7 Agency: REL Local**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SE ISG 959 13.02  
 BHL SE ISG 959 11.81

**June 5 2004 Hour: 14:37 11.0 Lat: 34.99N Lon: 36.02E Depth: 15 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  
 HWQ SZ79.39 185 IPG 1437 23.91 0.2 50 1.0  
 HWQ SE79.39 185 ISG 1437 32.90 -0.2 1.0  
 BHL SZ125.2 196 IPG 1437 30.53 0.1 1.0  
 BHL SE125.2 196 ISG 1437 44.99 0.2 1.0  
 MATL SZ178.4 201 IPG 1437 37.91 -0.3 1.0

**June 6 2004 Hour: 5:57 0.9 Agency: REL Regional**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 HWQ SZ EPN 559 15.94  
 BHL SE SN 6 0 49.61  
 HWQ SE SN 6 0 32.84  
 BHL SZ EPN 559 25.56

**June 6 2004 Hour: 9:57 0.1 Agency: REL Local**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 958 14.69  
 BHL SE ISG 958 22.53  
 HWQ SZ IPG 958 15.32  
 HWQ SE ISG 958 23.38

**June 6 2004 Hour: 17:26 33.2 Lat: 34.26N Lon: 35.47E Depth: 59 Agency: REL Local**  
**Magnitudes: 2.7MC REL Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ43.51	157	IPG			1726	43.82	0.2				337	0	28.2	1.0
BHL	SN43.51	157	ISG			1726	51.20	-0.1							1.0
HWQ	SZ44.07	88	IPG			1726	43.45	-0.2	36						1.0
HWQ	SE44.07	88	ISG			1726	51.57	0.1							1.0

**June 7 2004 Hour: 13:45 48.9 Lat: 33.84N Lon: 36.62E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.6MC REL Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ79.23	308	IPG			1346	1.94	0.2	136						1.0
HWQ	SE79.23	308	ISG			1346	11.74	0.6							1.0
BHL	SZ89.94	275	IPG			1346	3.59	0.2							1.0
BHL	SN89.94	275	ISG			1346	13.48	-0.7							1.0
MATL	SZ126.1	252	IPG			1346	9.36	0.1							1.0

**June 7 2004 Hour: 14: 5 50.7 Lat: 33.81N Lon: 36.74E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ89.95	305	IPG			14 6	4.91	0.0	45			74	-50	30.8	1.0
HWQ	SE89.95	305	ISG			14 6	15.56	0.1							1.0
BHL	SZ101.4	276	IPG			14 6	6.62	0.0							1.0
BHL	SN101.4	276	ISG			14 6	18.38	0.0							1.0

**June 7 2004 Hour: 14:54 48.3 Lat: 34.13N Lon: 35.61E Depth: 26 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	SZ25.71	171	IPG			1454	54.37	0.3	46			351	0	76.5	1.0
BHL	SN25.71	171	ISG			1454	58.26	-0.2							1.0
HWQ	SZ34.74	62	IPG			1454	54.89	-0.3							1.0
HWQ	SE34.74	62	ISG			1455	0.38	0.2							1.0

**June 7 2004 Hour: 15:31 42.3 Lat: 33.58N Lon: 36.00E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.5MC REL Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ47.58	318	IPG			1531	50.42	0.1	28			270	131	43.1	1.0
BHL	SN47.58	318	ISG			1531	56.07	-0.1							1.0
HWQ	SZ77.06	357	IPG			1531	54.67	0.1							1.0
HWQ	SE77.06	357	ISG			1532	3.68	-0.1							1.0

**June 8 2004 Hour: 10: 2 24.9 Lat: 34.28N Lon: 35.21E Depth: 15 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
BHL	SZ58.29	135	IPG			10 2	34.45	-0.1							1.0
BHL	SE58.29	135	ISG			10 2	41.38	-0.2							1.0
HWQ	SZ67.62	90	IPG			10 2	36.03	0.1	38			69	158	34.0	1.0
HWQ	SE67.62	90	ISG			10 2	44.10	0.1							1.0

**June 9 2004 Hour: 17:32 33.5 Lat: 34.40N Lon: 35.24E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.8MC REL Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ66.96	102	IPG			1732	44.33	0.0	40						1.0
HWQ	SE66.96	102	ISG			1732	52.37	0.0							1.0
BHL	SZ67.66	145	IPG			1732	44.44	0.0				353	27	20.4	1.0
BHL	SE67.66	145	ISG			1732	52.51	0.0							1.0

**June 9 2004 Hour: 21:38 14.1 Lat: 34.70N Lon: 35.24E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.6MC REL Rms: 0.8 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	79.72	125	IPG		2138	27.54	0.8	31			39	93	62.2	1.0
HWQ	SE	79.72	125	ISG		2138	37.06	0.9							1.0
BHL	SZ	95.74	156	IPG		2138	28.19	-0.9							1.0
BHL	SN	95.74	156	ISG		2138	39.60	-0.7							1.0

**June 10 2004 Hour: 15:27 37.0 Lat: 34.19N Lon: 35.51E Depth: 0 Agency: REL Local**  
**Magnitudes: 2.4MC REL Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	34.38	158	IPG		1527	42.71	0.1	25			338	0	11.7	1.0
BHL	SN	34.38	158	ISG		1527	46.61	-0.1							1.0
HWQ	SZ	41.09	76	IPG		1527	43.56	-0.1							1.0
HWQ	SE	41.09	76	ISG		1527	48.63	0.1							1.0

**June 10 2004 Hour: 23:17 43.4 Lat: 34.81N Lon: 35.42E Depth: 5 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	76.08	140	IPG		2317	55.77	0.0	52			302	-18	37.2	1.0
HWQ	SN	76.08	140	ISG		2318	4.66	-0.2							1.0
BHL	SZ	102.4	168	IPG		2317	59.42	-0.6							1.0
BHL	SN	102.4	168	ISG		2318	13.01	0.8							1.0

**June 11 2004 Hour: 9:0 1.6 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			IPG		9	0	29.35							
BHL	SN			ISG		9	0	31.36							
HWQ	SN			ISG		9	0	43.24							

**June 11 2004 Hour: 12:42 31.2 Lat: 33.60N Lon: 36.00E Depth: 0 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
BHL	SZ	46.07	317	IPG		1242	36.91	-1.7	40						1.0
BHL	SN	46.07	317	ISG		1242	44.88	0.8							1.0
MATL	SZ	63.15	259	IPG		1242	41.20	-0.2							1.0
HWQ	SZ	75.07	357	IPG		1242	42.42	-0.9							1.0
HWQ	SE	75.07	357	ISG		1242	53.26	1.0							1.0

**June 11 2004 Hour: 16:31 23.6 Lat: 34.12N Lon: 35.62E Depth: 18 Agency: REL Local**  
**Magnitudes: 2.6MC REL Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	24.10	172	IPG		1631	28.25	-0.2	32			352	0	10.4	1.0
BHL	SN	24.10	172	ISG		1631	32.24	0.1							1.0
HWQ	SZ	35.14	60	IPG		1631	30.21	0.2							1.0
HWQ	SN	35.14	60	ISG		1631	34.50	-0.1							1.0

**June 11 2004 Hour: 23:47 58.6 Lat: 33.29N Lon: 35.44E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.0MC REL Rms: 0.8 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	24.17	336	IPG		2348	1.18	-1.3							1.0
BHL	SZ	71.05	16	IPG		2348	8.89	-1.1	56						1.0
BHL	SE	71.05	16	ISG		2348	20.49	2.0							1.0
HWQ	SZ	119.3	23	IPG		2348	16.94	-0.9							1.0
HWQ	SE	119.3	23	ISG		2348	32.99	0.9							1.0

**June 12 2004 Hour: 12:28 37.7 Lat: 33.28N Lon: 35.43E Depth: 2 Agency: REL Local**  
**Magnitudes: 2.6MC REL Rms: 0.9 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	24.40	338	IPG		1228	39.68	-2.0	35						1.0
BHL	SZ	71.96	17	IPG		1228	48.61	-0.7							1.0
BHL	SN	71.96	17	ISG		1228	59.82	1.9							1.0
HWQ	SZ	120.3	23	IPG		1228	56.95	-0.2							1.0

HWQ	SE120.3	23	ISG			1229	12.05	0.6									1.0
<b>June 12 2004</b>	<b>Hour: 13:37 39.9</b>	<b>Lat: 39.64N</b>	<b>Lon: 40.61E</b>	<b>Depth: 15</b>	<b>Agency: REL</b>	<b>Regional</b>											
							<b>Rms: 1.6 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
HWQ	SZ725.6	216	EPN			1339	13.41	-1.2							1.0		
HWQ	SE725.6	216	SN			1340	24.24	-0.5							1.0		
BHL	SZ775.0	216	EPN			1339	19.76	-1.0							1.0		
BHL	SE775.0	216	SN			1340	37.57	2.2							1.0		
MATL	SZ830.1	216	EPN			1339	27.09	-0.4							1.0		
<b>June 12 2004</b>	<b>Hour: 18:42 36.1</b>	<b>Lat: 33.77N</b>	<b>Lon: 37.04E</b>	<b>Depth: 0</b>	<b>Agency: REL</b>	<b>Local</b>											
							<b>Magnitudes: 3.4MC REL</b>										
							<b>Rms: 0.7 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
HWQ	SZ115.3	299	IPG			1842	54.78	0.1	92						1.0		
HWQ	SE115.3	299	ISG			1843	8.81	0.4							1.0		
BHL	SZ128.8	277	IPG			1842	55.70	-1.1							1.0		
BHL	SE128.8	277	ISG			1843	12.44	0.2							1.0		
MATL	SZ161.5	259	IPG			1843	1.80	-0.3							1.0		
<b>June 12 2004</b>	<b>Hour: 22:49 29.4</b>	<b>Lat: 33.26N</b>	<b>Lon: 35.46E</b>	<b>Depth: 15</b>	<b>Agency: REL</b>	<b>Local</b>											
							<b>Magnitudes: 2.4MC REL</b>										
							<b>Rms: 0.9 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
MATL	SZ27.71	334	IPG			2249	34.57	0.1	25						1.0		
BHL	SZ73.10	14	IPG			2249	42.61	1.5							1.0		
BHL	SN73.10	14	ISG			2249	50.23	0.4							1.0		
HWQ	SE121.0	22	ISG			2250	1.06	-1.0							1.0		
<b>June 13 2004</b>	<b>Hour: 14:58 1.6</b>	<b>Lat: 33.69N</b>	<b>Lon: 36.81E</b>	<b>Depth: 15</b>	<b>Agency: REL</b>	<b>Local</b>											
							<b>Magnitudes: 3.4MC REL</b>										
							<b>Rms: 0.2 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
HWQ	SZ102.7	309	IPG			1458	17.48	-0.2	92			74	-54	44.5	1.0		
HWQ	SE102.7	309	ISG			1458	29.68	0.1							1.0		
BHL	SZ109.5	283	IPG			1458	18.94	0.3							1.0		
BHL	SE109.5	283	ISG			1458	31.17	-0.2							1.0		
<b>June 13 2004</b>	<b>Hour: 15:16 33.3</b>	<b>Lat: 33.70N</b>	<b>Lon: 36.90E</b>	<b>Depth: 15</b>	<b>Agency: REL</b>	<b>Local</b>											
							<b>Magnitudes: 3.3MC REL</b>										
							<b>Rms: 0.1 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
HWQ	SZ108.8	306	IPG			1516	50.19	-0.1	83			80	-45	24.3	1.0		
HWQ	SE108.8	306	ISG			1517	3.08	0.2							1.0		
BHL	SZ117.5	281	IPG			1516	51.58	0.0							1.0		
BHL	SE117.5	281	ISG			1517	4.89	-0.2							1.0		
<b>June 13 2004</b>	<b>Hour: 20:35 27.0</b>	<b>Lat: 33.23N</b>	<b>Lon: 35.13E</b>	<b>Depth: 14</b>	<b>Agency: REL</b>	<b>Local</b>											
							<b>Magnitudes: 2.6MC REL</b>										
							<b>Rms: 0.3 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
MATL	SZ34.59	32	IPG			2035	32.66	-0.4	34						1.0		
BHL	SZ89.62	33	IPG			2035	41.10	-0.1							1.0		
BHL	SE89.62	33	ISG			2035	52.01	0.3							1.0		
HWQ	SZ139.1	33	IPG			2035	48.98	0.5							1.0		
HWQ	SE139.1	33	ISG			2036	4.06	-0.3							1.0		
<b>June 13 2004</b>	<b>Hour: 22:48 42.3</b>	<b>Lat: 33.81N</b>	<b>Lon: 35.62E</b>	<b>Depth: 0</b>	<b>Agency: REL</b>	<b>Local</b>											
							<b>Magnitudes: 2.6MC REL</b>										
							<b>Rms: 0.7 secs</b>										
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT		
BHL	SZ11.18	19	IPG			2248	42.66	-1.4	33			199	0	42.6	1.0		
BHL	SE11.18	19	ISG			2248	46.14	0.7							1.0		
MATL	SZ44.28	217	IPG			2248	49.74	0.3							1.0		
HWQ	SZ60.38	30	IPG			2248	52.14	0.1							1.0		
HWQ	SE60.38	30	ISG			2248	59.39	0.2							1.0		

**June 14 2004 Hour: 7:12 23.8 Lat: 33.29N Lon: 35.27E 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
MATL	SZ	22.31	14	IPG		712	27.20	-0.2	49						1.0
MATL	SZ	22.31	14	ISG		712	30.16	0.1							1.0
BHL	SZ	76.44	27	IPG		712	35.79	-0.3							1.0
BHL	SN	76.44	27	ISG		712	44.93	-0.3							1.0
HWQ	SZ	125.8	30	IPG		712	44.48	0.4							1.0
HWQ	SE	125.8	30	ISG		712	59.19	0.1							1.0

**June 14 2004 Hour: 23:40 11.2 Lat: 33.82N Lon: 35.69E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.5MC REL Rms: 1.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	9.674	343	IPG		2340	12.54	-1.7	29						1.0
BHL	SE	9.674	343	ISG		2340	17.01	0.6							1.0
MATL	SZ	49.43	222	IPG		2340	20.20	0.8							1.0
HWQ	SZ	56.16	25	IPG		2340	19.65	-0.8							1.0
HWQ	SE	56.16	25	ISG		2340	28.37	1.1							1.0

**June 15 2004 Hour: 5:38 27.1 Lat: 33.65N Lon: 35.47E Depth: 0 Agency: REL Local**  
**Magnitudes: 2.6MC REL Rms: 1.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	22.46	217	IPG		538	31.06	0.4							1.0
BHL	SZ	32.66	30	IPG		538	31.10	-1.2	35			211	0	85.4	1.0
BHL	SE	32.66	30	ISG		538	35.55	-0.7							1.0
HWQ	SZ	82.11	32	IPG		538	40.14	-0.2							1.0
HWQ	SE	82.11	32	ISG		538	51.80	1.7							1.0

**June 15 2004 Hour: 12:26 36.6 Lat: 34.38N Lon: 35.16E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.7MC REL Rms: 0.6 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	69.61	139	IPG		1226	48.38	0.6							1.0
BHL	SN	69.61	139	ISG		1226	55.21	-0.9							1.0
HWQ	SZ	73.29	98	IPG		1226	48.51	0.1	38			42	123	44.3	1.0
HWQ	SE	73.29	98	ISG		1226	57.29	0.2							1.0

**June 15 2004 Hour: 14:43 0.7 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			IPG		1443	38.08								
BHL	SN			ISG		1443	42.36								
HWQ	SE			ISG		1443	44.06								
BHL	SZ			IPG		1443	35.93								

**June 15 2004 Hour: 21:53 24.9 Lat: 33.65N Lon: 35.38E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.5MC REL Rms: 1.6 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	18.78	195	IPG		2153	29.92	1.2							1.0
BHL	SZ	37.61	42	IPG		2153	29.80	-1.7	30			269	47	41.4	1.0
BHL	SE	37.61	42	ISG		2153	34.31	-2.0							1.0
HWQ	SZ	86.81	37	IPG		2153	39.22	0.5							1.0
HWQ	SE	86.81	37	ISG		2153	50.82	1.9							1.0

**June 16 2004 Hour: 9:7 47.1 Lat: 33.25N Lon: 35.10E Depth: 10 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
MATL	SZ	33.77	38	IPG		9	7	52.77	-0.1	44					1.0
BHL	SZ	88.72	35	IPG		9	8	1.41	-0.2						1.0
BHL	SE	88.72	35	ISG		9	8	12.54	0.3						1.0
HWQ	SZ	138.2	34	IPG		9	8	9.73	0.2						1.0
HWQ	SE	138.2	34	ISG		9	8	25.75	-0.3						1.0

**June 16 2004 Hour: 14:48 7.3 Lat: 34.47N Lon: 35.34E Depth: 15 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	60.19	111	IPG		1448	17.27	0.1	52			193	-97	35.2	1.0
HWQ	SE	60.19	111	ISG		1448	24.08	-0.4							1.0
BHL	SZ	69.62	155	IPG		1448	18.41	-0.1							1.0
BHL	SN	69.62	155	ISG		1448	27.26	0.4							1.0

**June 18 2004 Hour: 19:33 22.7 Lat: 33.35N Lon: 35.59E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.0MC REL Rms: 1.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	28.83	301	IPG		1933	27.99	0.6	57						1.0
BHL	SZ	61.34	5	IPG		1933	31.07	-1.6							1.0
BHL	SE	61.34	5	ISG		1933	39.26	-0.7							1.0
HWQ	SZ	107.6	18	IPG		1933	40.50	0.4							1.0
HWQ	SE	107.6	18	ISG		1933	54.16	1.2							1.0

**June 20 2004 Hour: 10:20 1.4 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			IPG		1020	38.37								
BHL	SN			ISG		1020	49.07								
HWQ	SE			ISG		1020	50.70								

**June 21 2004 Hour: 5:14 55.6 Lat: 34.07N Lon: 36.47E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.8MC REL Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	54.09	296	IPG		515	4.62	0.1	42			37	-78	31.5	1.0
HWQ	SE	54.09	296	ISG		515	10.82	-0.4							1.0
BHL	SZ	78.01	257	IPG		515	8.40	0.4							1.0
BHL	SN	78.01	257	ISG		515	17.19	-0.1							1.0

**June 21 2004 Hour: 10:0 0.4 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			IPG		10	0	49.77							
BHL	SN			ISG		10	0	59.52							
HWQ	SE			ISG		10	1	2.25							

**June 22 2004 Hour: 9:7 0.4 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			IPG		9	8	25.14							
BHL	SZ			IPG		9	8	30.67							
HWQ	SE			ISG		9	8	28.13							
BHL	SN			ISG		9	8	34.21							

**June 22 2004 Hour: 11:20 41.4 Lat: 33.97N Lon: 36.40E Depth: 21 Agency: REL Local**  
**Magnitudes: 2.7MC REL Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	54.29	309	IPG		1120	50.91	0.4	38			127	-1	36.7	1.0
HWQ	SE	54.29	309	ISG		1120	57.46	0.1							1.0
BHL	SN	69.84	264	ISG		1121	0.72	-0.5							1.0

**June 22 2004 Hour: 14:39 2.6 Lat: 28.01N Lon: 36.45E Depth: 0 Agency: REL Regional**  
**Magnitudes: 4.9MC REL Rms: 0.7 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	616.5	350	EPN		1440	26.32	1.1							1.0
BHL	SZ	657.6	354	EPN		1440	29.97	-0.4				169	-4	16.4	1.0
BHL	SN	657.6	354	SN		1441	35.39	0.0							1.0
HWQ	SZ	696.3	356	EPN		1440	34.48	-0.7	352			184	9	21.7	1.0

**June 22 2004 Hour: 15:15 0.5** **Agency: REL Local**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 1515 47.73  
 HWQ SN ISG 1515 53.25  
 BHL SN ISG 1515 52.40  
 HWQ SZ IPG 1515 48.67

**June 23 2004 Hour: 3: 5 0.0** **Agency: REL Regional**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ EPN 3 6 15.67  
 HWQ SZ EPN 3 6 21.11

**June 23 2004 Hour: 15: 6 25.0 Lat: 34.18N Lon: 35.52E Depth: 15 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  
 BHL SZ33.55 158 IPG 15 6 31.14 0.2 29 5 27 34.3 1.0  
 BHL SN33.55 158 ISG 15 6 35.14 -0.2 1.0  
 HWQ SZ40.94 75 IPG 15 6 32.26 0.2 1.0  
 HWQ SE40.94 75 ISG 15 6 37.17 -0.1 1.0

**June 23 2004 Hour: 21:20 29.0 Lat: 33.23N Lon: 35.41E Depth: 0 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 1.8 secs**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MATL SZ29.97 345 IPG 2120 33.94 0.1 50 1.0  
 BHL SZ78.39 17 IPG 2120 40.74 -0.9 1.0  
 BHL SE78.39 17 ISG 2120 51.47 0.5 1.0  
 HWQ SZ126.6 23 IPG 2120 49.10 -0.3 1.0  
 HWQ SE126.6 23 ISG 2121 5.88 1.3 1.0

**June 24 2004 Hour: 17:43 1.1** **Agency: REL Local**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ IPG 1744 12.10  
 HWQ SZ IPG 1744 11.51  
 HWQ SE ISG 1744 19.74  
 BHL SE ISG 1744 20.93

**June 24 2004 Hour: 21:42 53.5 Lat: 32.56N Lon: 34.63E Depth: 0 Agency: REL Local**  
**Magnitudes: 3.3MC REL Rms: 2.5 secs**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 MATL SZ121.5 32 IPG 2143 13.53 0.4 1.0  
 BHL SZ176.6 32 IPG 2143 19.16 -2.8 73 1.0  
 BHL SE176.6 32 ISG 2143 41.59 -1.4 1.0  
 HWQ SZ226.0 32 IPG 2143 34.37 4.4 1.0  
 HWQ SE226.0 32 ISG 2143 56.27 -0.6 1.0

**June 25 2004 Hour: 16:57 6.8 Lat: 33.88N Lon: 36.09E Depth: 15 Agency: REL Local**  
**Magnitudes: 2.6MC REL Rms: 0.3 secs**  
 STAT CO DIST AZI PHASE P HRMN SECON TRES CODA AMPL PERI BAZ ARES VELO WT  
 BHL SZ40.18 275 IPG 1657 13.98 0.2 33 211 117 41.8 1.0  
 BHL SE40.18 275 ISG 1657 18.76 -0.1 1.0  
 HWQ SZ46.44 344 IPG 1657 15.06 0.4 1.0  
 HWQ SN46.44 344 ISG 1657 19.97 -0.5 1.0

**June 26 2004 Hour: 13:43 19.6 Lat: 34.88N Lon: 36.46E Depth: 14 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  
 HWQ SZ81.83 215 IPG 1343 33.18 0.5 59 77 41 29.4 1.0  
 HWQ SE81.83 215 ISG 1343 41.68 -0.6 1.0  
 BHL SZ131.3 215 IPG 1343 39.42 -0.5 1.0  
 BHL SE131.3 215 ISG 1343 55.45 0.5 1.0

**June 26 2004 Hour: 14:41 9.9 Lat: 34.34N Lon: 36.27E Depth: 13 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 1.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	30.48	257	IPG		1441	13.91	-1.4	52			77	0	13.3	1.0
HWQ	SE	30.48	257	ISG		1441	20.24	0.8							1.0
BHL	SZ	74.56	230	IPG		1441	23.58	1.4							1.0
BHL	SN	74.56	230	ISG		1441	30.38	-0.8							1.0

**June 27 2004 Hour: 16: 5 47.2 Lat: 34.19N Lon: 35.56E Depth: 15 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	33.34	165	IPG		16 5	53.32	0.2	43			306	-38	22.4	1.0
BHL	SE	33.34	165	ISG		16 5	57.34	-0.2							1.0
HWQ	SZ	36.96	75	IPG		16 5	53.89	0.2							1.0
HWQ	SN	36.96	75	ISG		16 5	58.15	-0.3							1.0

**June 27 2004 Hour: 19:29 0.1 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ			IPG		1930	16.30								
BHL	SE			ISG		1930	44.21								
HWQ	SE			ISG		1930	33.59								
BHL	SZ			IPG		1930	25.21								

**June 27 2004 Hour: 20:25 39.4 Lat: 33.38N Lon: 35.45E Depth: 21 Agency: REL Local**  
**Magnitudes: 2.8MC REL Rms: 1.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MATL	SZ	16.43	316	IPG		2025	44.19	0.6							1.0
BHL	SZ	60.78	18	IPG		2025	48.33	-1.1	46						1.0
BHL	SE	60.78	18	ISG		2025	55.75	-1.1							1.0
HWQ	SZ	109.3	25	IPG		2025	56.54	0.1							1.0
HWQ	SE	109.3	25	ISG		2026	10.80	1.6							1.0

**June 30 2004 Hour: 16:18 36.1 Lat: 34.70N Lon: 36.73E Depth: 7 Agency: REL Local**  
**Magnitudes: 2.9MC REL Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SZ	85.78	237	IPG		1618	50.58	0.6	51			57	0	44.2	1.0
HWQ	SE	85.78	237	ISG		1618	59.96	-0.3							1.0
BHL	SZ	132.6	229	IPG		1618	56.95	-0.6							1.0
BHL	SE	132.6	229	ISG		1619	13.71	0.3							1.0

**June 30 2004 Hour: 16:46 41.2 Lat: 33.79N Lon: 35.98E Depth: 5 Agency: REL Local**  
**Magnitudes: 2.8MC REL Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ	32.77	292	IPG		1646	46.17	-0.4	42			112	0	15.2	1.0
BHL	SN	32.77	292	ISG		1646	50.78	0.2							1.0
HWQ	SZ	53.70	356	IPG		1646	50.25	0.3							1.0
HWQ	SE	53.70	356	ISG		1646	56.24	-0.1							1.0
MATL	SZ	69.48	241	IPG		1646	52.50	0.0							1.0

**June 30 2004 Hour: 17:29 1.5 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BHL	SZ			IPG		1729	55.00								
HWQ	SZ			IPG		1729	56.19								
BHL	SN			ISG		1729	59.74								
HWQ	SE			ISG		1730	2.29								

**June 30 2004 Hour: 20:29 1.3 Agency: REL Local**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
HWQ	SE			ISG		2029	44.88								
BHL	SN			ISG		2029	48.24								



# Seismic Events of June 2004 as recorded by the GRAL network

