

# *Seismological Bulletin*

*Broadband Iranian National Seismic Network Center  
(BIN)*

*July to September*

*2010*

*Seismology Department  
International Institute of Earthquake Engineering and Seismology (IIEES)  
No. 21, Arghavan St., North Dibajee, Farmanieh  
Tehran  
Islamic Republic of Iran*

*Tel: +98-21-22830830  
Fax: +98-21-22299479*

## GENERAL BULLETIN INFORMATION

### *LOCATION PROGRAM AND VELOCITY MODEL*

The location program used for locating earthquakes is Hypocenter (Lienert et al.,1986). As a general policy, neither depths nor epicenters are fixed unless stated. No station corrections are used for travel time calculations.

Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events (Epicentral distance larger than 15 degrees).The model used for all local and regional events, is:  
(Doloei and Roberts, 2003; Kaviani, 2004;Tatar, 2001):

P-wave velocity (km/sec)	depth to top of layer (km)
5.4	0.0
5.9	6.0
6.3	14.0
6.5	18.0
8.05	46.0 (Moho)
8.1	80.0

The Vp/Vs velocity ratio used in layered models above is 1.73 (Tatar, 2001).

### *MAGNITUDE RELATION*

After instrumental correction the maximum ground amplitudes A(nm) is used to calculate local magnitude Ml applying the following formula (Hutton and Boore, 1987):

$$Ml = \log(A) + 1.1 \cdot \log(D) + 0.00189 \cdot D - 2.09$$

where D is the hypocentral distance in km.This relation is valid for hypocentral distances between 10 and 700 km. All available amplitudes are used for magnitude calculations. No station corrections are used for magnitude calculations.

### STATION COORDINATES

The stations listed below are those operated by Seismology Department of the International Institute of Earthquake Engineering and Seismology (IIEES).

STATION	LATITUDE	LONGITUDE	ALTITUDE(m)	NAME
ASAO	3432.88N	5001.52E	2217	Ashtian
BJRD	3741.98N	5724.49E	1337	Bojnoord
BNDS	2723.96N	5610.28E	1500	Bandar Abbas
CHTH	3554.48N	5107.56E	2250	Charan
DAMV	3537.82N	5158.26E	2300	Damavand
GHIR	2817.13N	5259.20E	1200	Ghir
GHVR	3428.80N	5114.72E	0927	Qom
GRMI	3848.59N	4753.63E	1300	Germi
KHMZ	3344.38N	4957.85E	1985	Khomein
KRBA	2958.93N	5645.63E	2576	Bardsir
MAKU	3921.29N	4441.00E	1730	Maku
MRVT	3739.56N	5605.36E	0870	Maraveh tapeh
NASN	3247.95N	5248.50E	2800	Naein
SHGR	3206.50N	4848.08E	0150	Shushtar
SHRO	3600.51N	5600.78E	1264	Shahrud
SHRT	3338.77N	6017.46E	0837	Shah-rakht
SNGE	3505.55N	4720.82E	1940	Sanandaj
TABS	3338.94N	5707.14E	0000	Tabas
THKV	3554.94N	5052.73E	1795	Kavosh
ZHSF	2936.66N	6046.52E	1575	Zahedan
ZNJK	3640.25N	4841.11E	2200	Zanjan

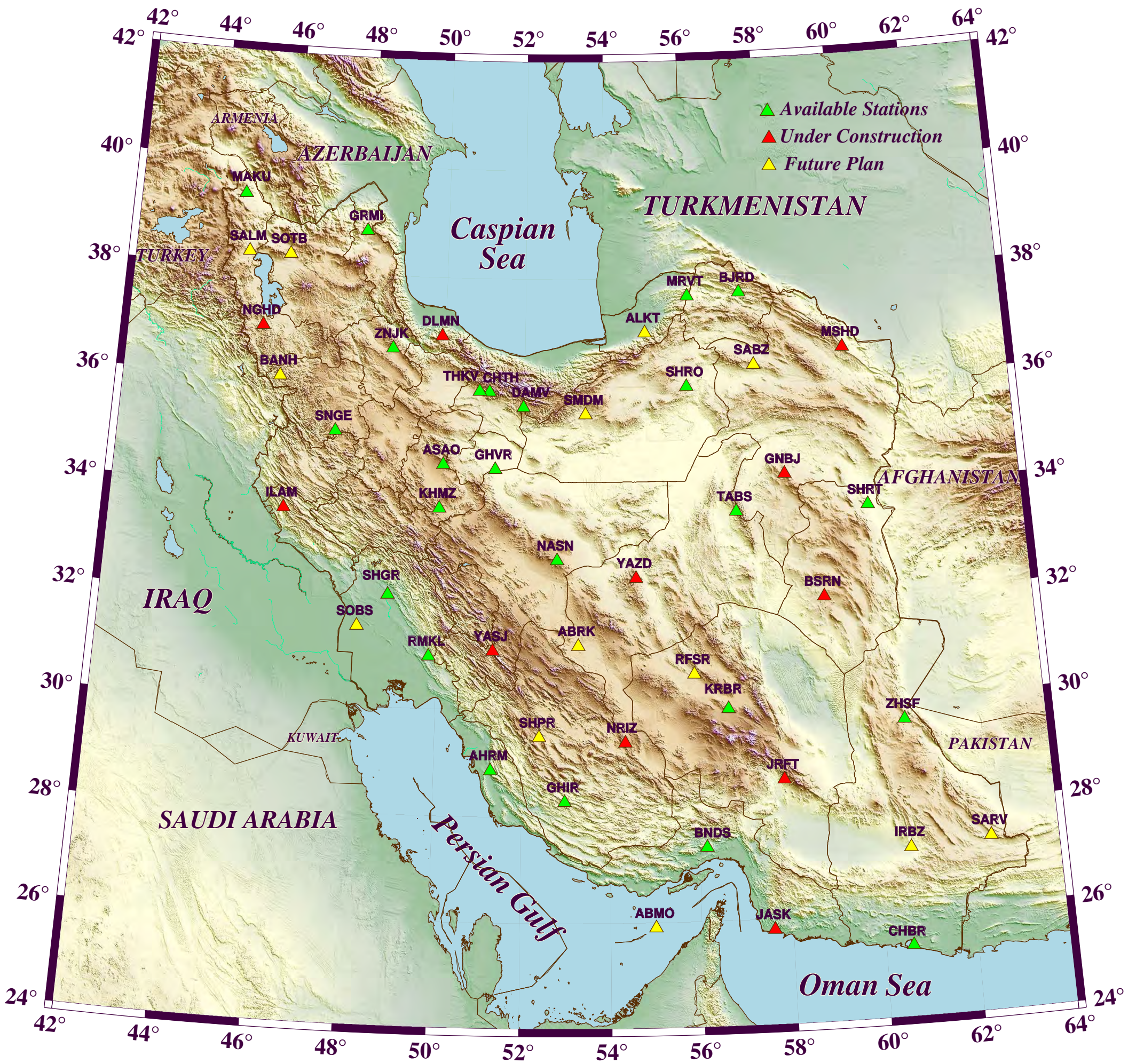
## ABBREVIATIONS

TIME: Origin time in UTC (hour, minute, and seconds)  
LAT: Latitude of epicenter (degree-minute)  
LON: Longitude of epicenter (degree-minute)  
DEPTH: Focal depth in kilometer (F indicates fixed depth)  
AGENCY: Hypocenter reporting agency  
MAGNITUDES: Up to 3 different magnitudes can be given followed by type and reporting agency  
RMS: Root mean square value of travel time residuals (seconds)  
STAT: Station code  
CO: Component, S: short period, L: long period, B: broadband,  
DIST: Epicentral distance (km)  
AZI: Azimuth from source to station  
PHAS: Phase; The first letter characterizes onset E(mergent) or I(impulsive)  
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 asterix 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.

## REFERENCES

- Doloei, J. and R. Roberts (2003). Crustal and uppermost mantle structure of Tehran region from teleseismic P-waveform receiver function analysis, *Tectonophysics*, 364, 115-133.
- Hutton, L. K. and D. M. Boore (1987). The ML scale in Southern California, *Bull. Seism. Soc. Am.*, 77, No. 6, pp. 2074-2094.
- Kaviani, A. (2004). La chaîne de collision continentale du Zagros (Iran): structure lithosphérique par analyse de données sismologiques. Ph.D. Thesis, University of Joseph Fourier-Grenoble I.
- Lienert, B.R., E. Berg, and L.N. Frazer (1986). Hypocenter: An earthquake location method using centered, scaled, and adaptively least squares, *Bull. Seism. Soc. Am.*, 76., pp 771-783.
- Tatar M. (2001). Etude sismotectonique de deux zones de collision continentale: le Zagros Central et l'Alborz, Ph.D. thesis, University of Joseph Fourier-Grenoble I.





**Broadband Iranian National Seismic Network (BIN)**

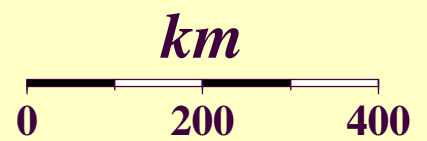
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|--------------------|--------------------|-------------|
| Available Stations | Under Construction | Future Plan |
|--------------------|--------------------|-------------|

More information available at :

[http://www.iiees.ac.ir/Seismology/seis\\_stations.html/](http://www.iiees.ac.ir/Seismology/seis_stations.html/)



International Institute of Earthquake Engineering and Seismology(IIEES)





**July 2 2010 Hour: 22:34 45.8 Lat: 28.09N Lon: 52.43E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	59	69	EPg		2234	55.97	-0.4							1.0
GHIR	BN	59	69	ESg		2235	4.19	0.1							1.0
GHIR	BE	59	69	AML		2235	8.23			9017	0.3				
GHIR	BN	59	69	AML		2235	14.90			13964	0.6				
AHRM	BZ	140	308	EPg		2235	9.19	0.1							1.0
AHRM	BN	140	308	ESg		2235	26.01	-0.1							1.0
KRBR	BZ	471	63	EPn		2235	52.72	0.4							0.8
KRBR	BE	471	63	AML		2237	4.67			94	1.1				

**July 6 2010 Hour: 2:57 0.5 Lat: 22.07N Lon: 61.88E Depth: 8F Agency: INS Local**  
**Magnitudes: 4.4ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
CHBR	BZ	416	340	EPn		258	0.28	-0.2							1.0
CHBR	BE	416	340	AML		258	47.86			669	0.3				
CHBR	BN	416	340	AML		258	48.78			570	0.4				
ZHSF	BZ	843	353	EPn		258	53.95	0.2							0.6
KRBR	BZ	1015	331	EPn		259	15.70	0.4							0.5
GHIR	BZ	1130	309	EPn		259	29.34	0.0							0.4
GHIR	BE	1130	309	ES		3 1	18.03	0.0							0.4
SHRT	BZ	1293	353	EPn		259	49.51	0.0							0.3
AHRM	BZ	1303	307	EPn		259	50.59	-0.1							0.3
SHRO	BN	1647	341	EPn		3 0	33.21	-0.4							0.0
ASAO	BZ	1804	323	EPn		3 0	53.03	-0.2							0.0

**July 11 2010 Hour: 5:25 47.8 Lat: 28.47N Lon: 57.48E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	175	228	EPg		526	16.57	-0.1							1.0
BNDS	BE	175	228	ESg		526	37.76	0.0							1.0
BNDS	BE	175	228	AML		526	39.03			409	0.4				
BNDS	BN	175	228	AML		526	41.22			631	0.3				
KRBR	BZ	182	338	EPg		526	17.93	0.0							1.0
KRBR	BN	182	338	ESg		526	39.90	-0.1							1.0
KRBR	BN	182	338	AML		526	41.10			510	0.3				
GHIR	BZ	441	268	EPn		526	50.65	0.4							0.9
GHIR	BE	441	268	AML		527	34.94			82	0.2				

**July 14 2010 Hour: 14:12 49.4 Lat: 26.93N Lon: 56.31E Depth: 8 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	54	346	EPg		1412	59.09	0.0							1.0
BNDS	BE	54	346	ESg		1413	6.19	0.0							1.0
BNDS	BE	54	346	AML		1413	9.78			3890	0.2				
BNDS	BN	54	346	AML		1413	10.11			3511	0.6				
KRBR	BZ	341	7	EP		1413	40.33	-0.1							0.9
KRBR	BE	341	7	AML		1414	33.59			108	0.7				
GHIR	BZ	361	295	EPn		1413	42.72	0.0							0.9
CHBR	BZ	442	109	EPn		1413	52.63	-0.1							0.9
ZHSF	BZ	530	55	EP		1414	3.90	0.2							0.8

**July 18 2010 Hour: 11:46 16.8 Lat: 33.77N Lon: 48.05E Depth: 15 Agency: INS Local**  
**Magnitudes: 4.0ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SNGR	BZ	160	336	EPn		1146	44.14	-0.3							1.0
SHGR	BZ	197	159	EPn		1146	48.92	0.1							1.0
SHGR	BE	197	159	AML		1147	16.78			2629	0.6				
SHGR	BN	197	159	AML		1147	22.66			2789	0.5				
GHVR	BZ	305	74	EPn		1147	2.46	0.1							1.0
GHVR	BE	305	74	AML		1147	49.02			599	0.5				
GHVR	BN	305	74	AML		1147	55.09			368	0.6				

ZNJK	BZ	327	10	EPn	1147	5.77	0.6										0.9
THKV	BZ	351	47	EPN5	1147	8.92	0.7										0.9
CHTH	BZ	368	49	EPN5	1147	9.53	-0.8										0.9
DAMV	BZ	414	59	EPN5	1147	15.57	-0.5										0.9
DAMV	BN	414	59	AML	1148	31.45				131	0.7						
DAMV	BE	414	59	AML	1148	37.54				120	0.6						

**July 19 2010 Hour: 17:45 44.9 Lat: 27.43N Lon: 62.63E Depth: 47 Agency: INS Local**  
**Magnitudes: 4.6ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
CHBR	BZ	295	227	EP		1746	26.35	0.1							1.0
CHBR	BN	295	227	ES		1746	56.25	-0.2							1.0
CHBR	BE	295	227	AML		1746	58.98			2950	0.2				
ZHSF	BZ	302	324	EP		1746	27.13	-0.1							1.0
ZHSF	BN	302	324	ES		1746	58.02	-0.2							1.0
BNDS	BZ	638	271	EP		1747	9.74	0.7							0.7
BNDS	BN	638	271	AML		1748	16.01			188	0.3				
KRBR	BZ	639	298	EPn		1747	9.40								

**July 20 2010 Hour: 19:38 10.7 Lat: 26.99N Lon: 53.84E Depth: 35 Agency: INS Local**  
**Magnitudes: 5.5ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	166	330	EPg		1938	37.97	0.0							1.0
GHIR	BE	166	330	AML		1939	9.95			79956	0.8				
GHIR	BN	166	330	AML		1939	14.79			71955	0.6				
BNDS	BZ	236	78	EPn		1938	45.85	0.0							1.0
BNDS	BN	236	78	AML		1939	31.02			19282	0.7				
AHRM	BZ	325	310	EPn		1938	56.95	0.2							0.9
KRBR	BZ	438	40	EPn		1939	11.78	0.6							0.9
CHBR	BZ	681	102	EPn		1939	40.76	-0.3							0.7
CHBR	BE	681	102	Sn		1940	46.92	0.0							0.7
SHGR	BZ	748	321	EPn		1939	49.68	0.3							0.6
TABS	BZ	803	22	EPn		1939	55.29	-1.0							0.6
SHRT	BZ	964	38	EPn		1940	16.59	0.4							0.5
THKV	BZ	1029	345	EPn		1940	23.31	-1.1							0.4
SNGE	BZ	1091	327	EPn		1940	31.34	-0.8							0.4
MRVT	BZ	1202	10	EPn		1940	45.33	-0.5							0.3
BJRD	BZ	1234	15	EPn		1940	50.22	0.3							0.3

**July 20 2010 Hour: 19:50 6.9 Lat: 26.63N Lon: 53.88E Depth: 16 Agency: INS Local**  
**Magnitudes: 5.2ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	204	334	EPg		1950	39.64	-0.8							1.0
GHIR	BN	204	334	AML		1951	5.30			30620	0.7				
GHIR	BE	204	334	AML		1951	6.00			30250	0.6				
BNDS	BZ	243	69	EPg		1950	46.86	0.2							1.0
AHRM	BZ	356	315	EPn		1950	58.45	-0.1							0.9
AHRM	BE	356	315	ESg		1951	47.04	0.6							0.9
KRBR	BZ	467	37	EPn		1951	12.95	0.3							0.8
KRBR	BN	467	37	Sn		1952	0.57	-0.1							0.8
KRBR	BN	467	37	AML		1952	21.93			1672	0.6				
KRBR	BE	467	37	AML		1952	32.02			1785	0.7				

**July 20 2010 Hour: 20: 1 26.7 Lat: 27.08N Lon: 53.90E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	161	326	EPg		20 1	53.50	0.0							1.0
GHIR	BN	161	326	ESg		20 2	12.92	-0.1							1.0
BNDS	BZ	227	81	EPg		20 2	3.92	-0.1							1.0
BNDS	BE	227	81	AML		20 2	47.70			631	0.6				
BNDS	BN	227	81	AML		20 2	58.08			644	0.6				
KRBR	BZ	426	40	EPn		20 2	27.72	0.1							0.9
KRBR	BE	426	40	AML		20 3	48.82			111	0.6				
KRBR	BN	426	40	AML		20 3	51.63			91	0.6				

**July 20 2010 Hour: 20: 4 44.3 Lat: 26.86N Lon: 53.87E Depth: 18 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	180	331	EPg		20	5	14.00							1.0
GHIR	BN	180	331	ESg		20	5	35.72							1.0
GHIR	BN	180	331	AML		20	5	45.33		2111	0.6				
GHIR	BE	180	331	AML		20	5	47.58		1997	0.5				
BNDS	BZ	236	75	EPg		20	5	22.94	0.0						1.0
KRBR	BZ	447	39	EPn		20	5	47.36	0.0						0.9
KRBR	BE	447	39	AML		20	6	56.54		74	0.6				
KRBR	BN	447	39	AML		20	7	8.27		70	0.6				

**July 20 2010 Hour: 20:24 53.0 Lat: 26.96N Lon: 54.03E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	179	325	EPg		2025	22.63	0.0							1.0
GHIR	BN	179	325	ESg		2025	44.18	0.0							1.0
GHIR	BE	179	325	AML		2025	47.40			1256	0.5				
GHIR	BN	179	325	AML		2025	51.27			1125	0.4				
BNDS	BZ	218	77	EPg		2025	28.66	-0.1							1.0
BNDS	BE	218	77	AML		2026	10.09			269	0.5				
BNDS	BN	218	77	AML		2026	14.46			414	0.5				
KRBR	BZ	429	38	EPn		2025	54.32	0.1							0.9
KRBR	BN	429	38	AML		2026	58.24			87	0.5				
KRBR	BE	429	38	AML		2027	7.76			101	0.6				

**July 20 2010 Hour: 21:36 6.0 Lat: 27.02N Lon: 54.01E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	173	324	EPg		2136	34.67	0.1							1.0
GHIR	BE	173	324	ESg		2136	55.28	-0.1							1.0
GHIR	BN	173	324	AML		2136	59.42			834	0.5				
GHIR	BE	173	324	AML		2136	59.95			1346	0.4				
BNDS	BZ	218	78	EPg		2136	41.59	-0.2							1.0
KRBR	BZ	424	39	EPn		2137	7.00	0.3							0.9
KRBR	BE	424	39	AML		2138	1.99			30	0.6				
KRBR	BN	424	39	AML		2138	22.67			37	0.6				

**July 21 2010 Hour: 16: 1 21.4 Lat: 26.76N Lon: 53.90E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	192	332	EPg		16	1	52.73	-0.3						1.0
GHIR	BN	192	332	ESg		16	2	16.26	0.1						1.0
GHIR	BE	192	332	AML		16	2	23.17		1216	1.5				
GHIR	BN	192	332	AML		16	2	25.36		791	0.7				
BNDS	BZ	236	72	EPg		16	2	0.25	0.2						1.0
BNDS	BN	236	72	ESg		16	2	28.16	-0.2						1.0
BNDS	BE	236	72	AML		16	2	42.41		630	0.1				
BNDS	BN	236	72	AML		16	2	43.55		902	0.7				
KRBR	BZ	454	37	EPn		16	2	26.03	0.2						0.8
KRBR	BN	454	37	AML		16	3	30.85		239	0.2				
KRBR	BE	454	37	AML		16	3	39.76		273	1.0				

**July 21 2010 Hour: 18:18 38.3 Lat: 26.80N Lon: 53.66E Depth: 18 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	177	338	EPg		1819	7.63	0.0							1.0
GHIR	BE	177	338	AML		1819	33.68			437	0.7				
GHIR	BN	177	338	AML		1819	40.10			438	0.8				
BNDS	BZ	258	75	EPn		1819	17.78	0.0							1.0
BNDS	BN	258	75	ESg		1819	51.15	0.0							1.0
BNDS	BN	258	75	AML		1820	2.92			366					
BNDS	BE	258	75	AML		1820	12.60			437	1.0				



KRBR	BZ	465	40	EPn		1819	43.70	0.0									0.8
KRBR	BN	465	40	AML		1820	49.16			67	1.0						
KRBR	BE	465	40	AML		1820	58.20			90	0.3						

**July 22 2010 Hour: 3:18 19.2 Lat: 27.09N Lon: 54.03E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	168	322	EPg		318	47.09	0.1							1.0
GHIR	BN	168	322	ESg		319	7.33	0.0							1.0
GHIR	BN	168	322	AML		319	10.38			1465	1.0				
GHIR	BE	168	322	AML		319	17.47			1257	0.1				
BNDS	BZ	214	80	EPg		318	54.32	-0.1							1.0
BNDS	BE	214	80	AML		319	41.68			416	1.0				
KRBR	BZ	417	39	EPn		319	19.01	0.1							0.9
KRBR	BE	417	39	AML		320	31.49			60	1.0				

**July 23 2010 Hour: 0:56 40.9 Lat: 37.72N Lon: 56.98E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	38	93	EPg		056	48.25	0.2							1.0
MRVT	BZ	79	266	EPg		056	54.26	-0.3							1.0
MRVT	BN	79	266	ESg		057	4.83	0.2							1.0
MRVT	BE	79	266	AML		057	10.12			13700	0.3				
MRVT	BN	79	266	AML		057	10.45			16086	0.6				
SHRO	BZ	209	205	EPg		057	14.60	-0.6							1.0
SHRO	BE	209	205	ESg		057	40.33	0.1							1.0
TABS	BZ	452	178	EPn		057	45.29	0.5							0.9
TABS	BN	452	178	AML		058	59.57			338	0.8				
TABS	BE	452	178	AML		059	12.19			150	0.8				
DAMV	BZ	504	244	EPn		057	51.95	0.5							0.8
DAMV	BE	504	244	AML		059	15.90			201	0.5				
DAMV	BN	504	244	AML		059	25.56			239	0.7				
SHRT	BZ	542	145	EPn		057	55.45	-0.5							0.8
CHTH	BZ	560	251	EPn		057	58.48	0.1							0.8
THKV	BZ	580	252	EPn		058	1.05	0.2							0.8
THKV	BE	580	252	AML		059	41.17			171	0.6				
THKV	BN	580	252	AML		059	48.56			148	0.7				
GHVR	BZ	629	237	EPn		058	7.13	0.3							0.7
GHVR	BE	629	237	AML		059	56.63			105	0.7				
GHVR	BN	629	237	AML		1 0	2.99			61	0.7				
ASAO	BZ	718	243	EPn		058	17.85	-0.2							0.7
ZNJK	BZ	746	264	EPn		058	20.50	-0.9							0.6
KRBR	BZ	858	181	EPn		058	35.72	0.2							0.5

**July 23 2010 Hour: 18:22 7.2 Lat: 27.10N Lon: 53.96E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	163	324	EPg		1822	34.36	0.1							1.0
GHIR	BN	163	324	ESg		1822	53.92	-0.1							1.0
GHIR	BN	163	324	AML		1823	3.23			1281	0.6				
GHIR	BE	163	324	AML		1823	9.81			1116	0.8				
BNDS	BZ	222	81	EPg		1822	43.46	-0.1							1.0
BNDS	BE	222	81	AML		1823	25.02			288	0.6				
BNDS	BN	222	81	AML		1823	27.40			325	0.6				
KRBR	BZ	421	40	EPn		1823	7.76	0.2							0.9

**July 24 2010 Hour: 12:34 11.9 Lat: 26.93N Lon: 53.72E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	167	335	EPg		1234	39.62	0.0							1.0
GHIR	BN	167	335	ESg		1234	59.71	-0.1							1.0
GHIR	BN	167	335	AML		1235	5.80			11191	0.6				
GHIR	BE	167	335	AML		1235	7.14			10387	0.9				
BNDS	BZ	249	77	EPg		1234	52.48	-0.1							1.0

BNDS	BN	249	77	AML		1235	39.51			1306	0.1			
KRBR	BZ	451	41	EPn		1235	16.07	0.2						0.9
KRBR	BE	451	41	AML		1236	21.88			371	1.0			
CHBR	BZ	691	101	EPn		1235	45.34	-0.1						0.7

**July 24 2010 Hour: 16: 5 20.9 Lat: 27.88N Lon: 56.88E Depth: 40 Agency: INS Local**  
**Magnitudes: 4.0ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	88	233	EPg		16	5	36.98	0.4						1.0
BNDS	BE	88	233	ESg		16	5	47.84	-0.2						1.0
BNDS	BN	88	233	AML		16	5	53.51		4862	0.1				
BNDS	BE	88	233	AML		16	5	56.96		4370	0.3				
KRBR	BZ	234	357	EPg		16	5	58.35	-0.4						1.0
KRBR	BN	234	357	ESg		16	6	26.50	0.2						1.0
KRBR	BE	234	357	AML		16	6	28.19		931	0.8				
KRBR	BN	234	357	AML		16	6	31.37		1231	0.5				
GHIR	BZ	385	278	EPn		16	6	14.14	0.0						0.9
GHIR	BE	385	278	AML		16	7	33.16		229	0.1				

**July 24 2010 Hour: 22:57 36.5 Lat: 26.94N Lon: 53.54E Depth: 15F Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	159	340	EPg		2258	2.86	0.0							1.0
GHIR	BN	159	340	ESg		2258	22.05	0.0							1.0
GHIR	BN	159	340	AML		2258	24.82			1092	0.1				
GHIR	BE	159	340	AML		2258	27.94			1795	0.8				
BNDS	BZ	266	78	EPn		2258	17.25	0.0							1.0
BNDS	BN	266	78	AML		2259	26.18			107	0.5				
KRBR	BZ	462	42	EPn		2258	41.81	0.1							0.8
KRBR	BE	462	42	AML		23	0	0.36		36	0.6				

**July 27 2010 Hour: 18:43 53.1 Lat: 28.08N Lon: 56.99E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	111	227	EPg		1844	11.81	0.0							1.0
BNDS	BE	111	227	AML		1844	29.17			2451	0.4				
BNDS	BN	111	227	AML		1844	29.63			1545	0.2				
KRBR	BZ	212	354	EPg		1844	28.00	0.0							1.0
KRBR	BE	212	354	AML		1845	6.98			420	1.7				
GHIR	BZ	394	274	EPn		1844	49.68	0.0							0.9
GHIR	BE	394	274	AML		1845	53.44			60	0.6				

**July 28 2010 Hour: 15:39 27.0 Lat: 27.86N Lon: 57.63E Depth: 16 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	153	251	EPg		1539	52.25	-0.2							1.0
BNDS	BE	153	251	ESg		1540	11.25	0.2							1.0
BNDS	BE	153	251	AML		1540	13.56			423	0.4				
KRBR	BZ	250	340	EPn		1540	5.98	0.1							1.0
KRBR	BN	250	340	ESg		1540	37.96	0.0							1.0
KRBR	BN	250	340	AML		1540	44.50			453	0.7				
KRBR	BE	250	340	AML		1540	48.59			326	0.6				
ZHSF	BZ	363	57	EPn		1540	19.86	0.1							0.9
GHIR	BZ	459	277	EPn		1540	31.36	-0.2							0.8

**July 28 2010 Hour: 19:14 59.1 Lat: 30.90N Lon: 50.10E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	182	318	EPg		1915	28.99	0.0							1.0
SHGR	BE	182	318	AML		1915	55.35			939	0.6				
SHGR	BN	182	318	AML		1915	58.88			889	0.7				
AHRM	BZ	254	153	EPn		1915	38.15	0.0							1.0
AHRM	BE	254	153	ESg		1916	10.54	0.0							1.0
KHMZ	BZ	315	358	EPn		1915	45.96	0.0							1.0

GHIR BZ	403	135	EPn	1915	56.73	-0.1									0.9
ASAO BZ	405	359	EPn	1915	57.25	0.1									0.9
ASAO BN	405	359	AML	1916	58.72				59	0.7					

**July 29 2010 Hour: 0:55 19.7 Lat: 33.86N Lon: 54.22E Depth: 18 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TABS	BZ	269	94	EPn		056	0.46	-0.1							1.0
TABS	BN	269	94	ESg		056	35.68	0.0							1.0
TABS	BN	269	94	AML		056	40.82			196	1.0				
GHVR	BZ	283	285	EPn		056	2.09	-0.1							1.0
GHVR	BN	283	285	AML		056	42.16			254	0.4				
GHVR	BE	283	285	AML		056	54.85			235	0.6				
DAMV	BZ	284	314	EPn		056	2.51	0.0							1.0
DAMV	BE	284	314	AML		056	42.85			214	0.4				
DAMV	BN	284	314	AML		056	54.19			200	0.6				
SHRO	BZ	289	34	EPn		056	2.96	0.0							1.0
CHTH	BZ	363	310	EPn		056	12.23	0.0							0.9
CHTH	BN	363	310	AML		057	13.11			99	0.5				
CHTH	BE	363	310	AML		057	17.81			96	0.5				
ASAO	BZ	394	282	EPn		056	16.13	0.0							0.9
ASAO	BN	394	282	AML		057	19.70			66	0.5				
KHMZ	BZ	394	269	EPn		056	16.31	0.1							0.9
ASAO	BE	394	282	AML		057	19.77			69	0.8				
MRVT	BZ	454	21	EPn		056	23.47	0.1							0.9

**July 30 2010 Hour: 13:50 12.8 Lat: 35.20N Lon: 59.23E Depth: 18 Agency: INS Local**  
**Magnitudes: 5.8ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRT	BZ	198	150	EPg		1350	45.48	0.1							1.0
SHRT	BE	198	150	AML		1351	11.90			151000	1.2				
SHRT	BN	198	150	AML		1351	12.37			193000	0.5				
TABS	BZ	259	229	EPn		1350	52.36	0.0							1.0
TABS	BE	259	229	AML		1351	36.91			38466	0.2				
TABS	BN	259	229	AML		1351	37.77			84669	0.5				
SHRO	BZ	305	288	EPn		1350	58.23	0.1							1.0
BJRD	BE	322	330	AML		1351	59.60			5387	1.4				
MRVT	BZ	392	315	EPn		1351	8.86	0.0							0.9
KRBR	BZ	623	203	EPn		1351	38.01	0.2							0.7
KRBR	BN	623	203	ESg		1353	6.14	0.0							0.7
KRBR	BN	623	203	AML		1353	27.69			6608	1.8				
KRBR	BE	623	203	AML		1353	31.50			6442	0.8				
ZHSF	BZ	636	166	EPn		1351	38.93	-0.4							0.7
ZHSF	BE	636	166	AML		1353	43.50			1493	0.7				
BNDS	BZ	912	199	EPn		1352	13.18	-0.4							0.5

**July 31 2010 Hour: 6:52 56.0 Lat: 29.63N Lon: 56.75E Depth: 14 Agency: INS Local**  
**Magnitudes: 5.6ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	39	1	EPg		653	2.89	-0.6							1.0
KRBR	BN	39	1	ESg		653	8.62	-0.3							1.0
KRBR	BE	39	1	AML		653	9.38			604000	0.3				
BNDS	BZ	254	193	EPn		653	35.41	0.1							1.0
BNDS	BN	254	193	ESg		654	7.79	0.0							1.0
BNDS	BE	254	193	AML		654	9.85			35613	0.5				
GHIR	BZ	396	249	EPn		653	52.77	-0.2							0.9
TABS	BZ	447	4	EP		653	59.69	0.4							0.9
AHRM	BZ	537	262	EPn		654	9.98	-0.3							0.8
SHRT	BZ	558	36	EP		654	13.48	0.5							0.8
CHBR	BZ	579	140	EP		654	14.90	-0.7							0.8
CHBR	BN	579	140	Sn		655	13.90	0.2							0.8
GHVR	BZ	748	317	EP		654	37.54	0.9							0.6
DAMV	BZ	802	327	EP		654	44.18	0.6							0.6
SHGR	BZ	808	292	EP		654	43.92	-0.1							0.6

MRVT BZ	893	356	EP		654	55.21	0.6								0.5
SNGE BZ	1072	307	EP		655	16.97	0.0								0.4

**July 31 2010 Hour: 14:38 41.2 Lat: 29.62N Lon: 56.87E Depth: 16 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	42	345	EPg		1438	49.32	0.1							1.0
KRBR	BE	42	345	ESg		1438	54.98	-0.1							1.0
KRBR	BN	42	345	AML		1438	55.19			4046	0.0				
KRBR	BE	42	345	AML		1438	55.30			8330	0.2				
BNDS	BZ	255	196	EPn		1439	20.48	0.0							1.0
BNDS	BE	255	196	ESg		1439	53.30	0.0							1.0
BNDS	BE	255	196	AML		1439	54.80			139	0.4				
GHIR	BZ	406	250	EPn		1439	39.24	0.0							0.9
TABS	BZ	448	3	EPn		1439	44.28	-0.1							0.9

**August 1 2010 Hour: 15:33 19.1 Lat: 26.83N Lon: 53.87E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	184	332	EPg		1533	49.42	0.0							1.0
GHIR	BE	184	332	ESg		1534	11.54	0.0							1.0
GHIR	BE	184	332	AML		1534	21.77			772	0.6				
BNDS	BZ	237	74	EPg		1533	57.77	-0.1							1.0
BNDS	BN	237	74	AML		1534	41.55			181	0.5				
KRBR	BZ	450	38	EPn		1534	23.06	0.1							0.9

**August 5 2010 Hour: 1:40 26.0 Lat: 26.80N Lon: 53.85E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	185	333	EPg		140	56.69	0.1							1.0
GHIR	BE	185	333	ESg		141	18.82	-0.1							1.0
GHIR	BE	185	333	AML		141	28.89			1419	0.4				
GHIR	BN	185	333	AML		141	32.90			1235	0.6				
BNDS	BZ	239	73	EPg		141	4.96	-0.2							1.0
BNDS	BN	239	73	ESg		141	33.87	0.1							1.0
BNDS	BE	239	73	AML		141	40.19			183	0.6				
BNDS	BN	239	73	AML		141	48.58			283	0.6				
KRBR	BZ	453	38	EPn		141	30.52	0.2							0.8
KRBR	BE	453	38	AML		142	43.29			83	0.6				
KRBR	BN	453	38	AML		142	50.11			63	0.6				

**August 5 2010 Hour: 15:16 48.3 Lat: 29.45N Lon: 51.23E Depth: 15F Agency: INS Local**  
**Magnitudes: 4.0ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	65	174	EPg		1516	59.12	-0.6							1.0
AHRM	BE	65	174	ESg		1517	8.51	0.5							1.0
GHIR	BZ	214	127	EPg		1517	23.26	-0.2							1.0
GHIR	BE	214	127	AML		1518	2.75			1080	0.6				
GHIR	BN	214	127	AML		1518	7.32			1478	0.5				
NASN	BZ	401	22	EPn		1517	46.41	0.5							0.9
ASAO	BZ	577	349	EPn		1518	7.72	0.0							0.8
ASAO	BE	577	349	AML		1519	10.85			50	0.6				
DAMV	BZ	689	6	EPn		1518	21.67	0.0							0.7
DAMV	BE	689	6	AML		1519	32.97			50	0.4				
DAMV	BN	689	6	AML		1519	34.41			36	0.5				
SNGE	BZ	725	331	EPn		1518	25.90	-0.2							0.6

**August 6 2010 Hour: 6:59 53.9 Lat: 26.73N Lon: 53.81E Depth: 15 Agency: INS Local**  
**Magnitudes: 4.1ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	191	335	EPg		7	0	25.26							1.0
GHIR	BE	191	335	ESg		7	0	48.27							1.0
GHIR	BE	191	335	AML		7	0	51.74		3516	0.6				
GHIR	BN	191	335	AML		7	0	54.35		2830	0.4				



BNDS	BZ	246	72	EPn		7	0	32.15	0.1								1.0
BNDS	BN	246	72	ESg		7	1	3.40	0.0								1.0
BNDS	BN	246	72	AML		7	1	25.84			565	0.6					
KRBR	BZ	462	38	EPn		7	0	59.00	-0.1								0.8
KRBR	BN	462	38	AML		7	2	6.14			151	0.5					

**August 6 2010 Hour: 19:15 47.2 Lat: 29.38N Lon: 51.08E Depth: 15F Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	61	160	EPg		1915	58.17	0.3							1.0
GHIR	BZ	222	123	EPg		1916	23.10	-0.5							1.0
GHIR	BE	222	123	AML		1917	10.79			419	0.6				
NASN	BZ	413	23	EPn		1916	46.54	0.1							0.9
KHMZ	BZ	495	348	EPn		1916	56.55	0.0							0.8
KHMZ	BE	495	348	AML		1917	53.52			91	0.4				
KRBR	BZ	554	82	EPn		1917	4.26	0.4							0.8
KRBR	BE	554	82	AML		1918	9.01			56	0.6				
KRBR	BN	554	82	AML		1918	9.04			63	0.5				
GHVR	BZ	566	2	EPn		1917	5.57	0.4							0.8
GHVR	BN	566	2	AML		1918	7.32			67	0.4				
GHVR	BE	566	2	AML		1918	8.29			72	0.4				
ASAO	BZ	582	350	EPn		1917	7.10	-0.2							0.8
ASAO	BE	582	350	AML		1918	10.37			93	0.5				
ASAO	BN	582	350	AML		1918	11.33			52	0.6				
SNGE	BZ	725	332	EPn		1917	24.50	-0.5							0.6
SNGE	BE	725	332	AML		1918	47.60			33	0.7				
SNGE	BN	725	332	AML		1918	51.89			45	0.6				

**August 7 2010 Hour: 3:34 12.9 Lat: 28.03N Lon: 54.76E Depth: 17 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	155	116	EPg		334	38.68	-0.1							1.0
BNDS	BE	155	116	AML		335	12.36			616	0.5				
BNDS	BN	155	116	AML		335	15.42			545	0.3				
GHIR	BZ	177	280	EPg		334	42.27	0.1							1.0
GHIR	BN	177	280	AML		335	9.65			831	0.5				
GHIR	BE	177	280	AML		335	12.97			778	0.5				
KRBR	BZ	291	41	EPn		334	56.98	0.3							1.0
KRBR	BN	291	41	ESg		335	35.09	0.0							1.0
NASN	BZ	561	341	EPn		335	29.76	-0.5							0.8
ZHSF	BZ	612	72	EPn		335	36.54	0.1							0.7

**August 8 2010 Hour: 9:39 2.2 Lat: 37.96N Lon: 57.72E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	39	223	EPg		939	9.56	-0.1							1.0
BJRD	BN	39	223	ESg		939	15.13	0.0							1.0
BJRD	BE	39	223	AML		939	16.25			12391	0.5				
MRVT	BZ	147	257	EPg		939	26.53	-0.2							1.0
MRVT	BE	147	257	ESg		939	44.66	0.1							1.0
MRVT	BN	147	257	AML		939	50.45			1358	0.5				
MRVT	BE	147	257	AML		939	50.53			973	0.5				
SHRO	BZ	264	216	EPn		939	42.99	0.2							1.0
SHRO	BN	264	216	ESg		940	16.73	-0.1							1.0

**August 8 2010 Hour: 17:35 17.0 Lat: 36.83N Lon: 45.04E Depth: 17 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MAKU	BZ	282	354	EPn		1735	59.62	0.1							1.0
SNGE	BZ	284	132	EPn		1735	59.80	0.1							1.0
SNGE	BN	284	132	AML		1736	47.07			855	0.6				
SNGE	BE	284	132	AML		1736	49.00			1074	0.6				
ZNJK	BZ	326	92	EPn		1736	4.76	-0.3							1.0
GRMI	BZ	334	48	EPn		1736	5.94	0.0							1.0

ASAO	BZ	517	118	EPn		1736	28.89	0.1								0.8
KHMZ	BZ	564	126	EPn		1736	34.00	-0.5								0.8
KHMZ	BE	564	126	ESg		1737	54.17	0.2								0.8
GHVR	BZ	619	113	EPn		1736	41.31	0.1								0.7

**August 8 2010 Hour: 22:54 15.7 Lat: 29.71N Lon: 56.89E Depth: 18 Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	33	337	EPg		2254	22.13	-0.3							1.0
KRBR	BN	33	337	ESg		2254	27.44	0.2							1.0
KRBR	BE	33	337	AML		2254	29.48		13606		0.5				
BNDS	BZ	266	196	EPn		2254	56.55	0.4							1.0
BNDS	BE	266	196	AML		2255	31.03		977		0.5				
BNDS	BN	266	196	AML		2255	37.45		834		0.5				
GHIR	BZ	412	248	EPn		2255	13.94	-0.3							0.9
NASN	BZ	518	312	EPn		2255	27.40	-0.3							0.8
NASN	BE	518	312	ESg		2256	40.63	0.4							0.8
NASN	BE	518	312	AML		2256	52.63		74		0.7				
AHRM	BZ	552	262	EPn		2255	31.16	-0.3							0.8

**August 9 2010 Hour: 1: 2 6.6 Lat: 26.83N Lon: 53.97E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	188	329	EPg		1 2	37.73	0.0							1.0
GHIR	BE	188	329	ESg		1 3	0.29	-0.1							1.0
GHIR	BN	188	329	AML		1 3	8.29		547		0.6				
GHIR	BE	188	329	AML		1 3	8.29		614		0.5				
BNDS	BZ	227	73	EPg		1 2	43.69	-0.2							1.0
BNDS	BE	227	73	AML		1 3	21.28		231		0.5				
KRBR	BZ	444	37	EPn		1 3	10.06	0.3							0.9
KRBR	BN	444	37	AML		1 4	16.75		44		0.6				
KRBR	BE	444	37	AML		1 4	23.38		75		0.7				

**August 9 2010 Hour: 19:49 22.6 Lat: 33.41N Lon: 48.28E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	152	161	EPg		1949	47.77	0.0							1.0
SHGR	BE	152	161	AML		1950	15.87		920		0.7				
SHGR	BN	152	161	AML		1950	18.93		615		0.6				
KHMZ	BZ	161	76	EPg		1949	49.42	0.0							1.0
ASAO	BZ	205	51	EPg		1949	56.15	-0.3							1.0
ASAO	BN	205	51	AML		1950	30.42		348		0.7				
ASAO	BE	205	51	AML		1950	31.16		498		0.7				
SNGE	BZ	206	336	EPg		1949	56.33	-0.1							1.0
SNGE	BE	206	336	AML		1950	26.63		740		0.5				
SNGE	BN	206	336	AML		1950	32.11		854		0.6				
ZNJK	BZ	364	6	EPn		1950	15.92	0.2							0.9
CHTH	BZ	381	42	EPn		1950	18.03	0.2							0.9
DAMV	BZ	419	53	EPn		1950	22.66	0.1							0.9
DAMV	BN	419	53	AML		1951	36.70		56		0.6				
DAMV	BE	419	53	AML		1951	39.64		55		0.6				

**August 9 2010 Hour: 21:39 36.7 Lat: 31.58N Lon: 49.47E Depth: 32 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	87	313	EPg		2139	51.74	0.0							1.0
KHMZ	BZ	244	11	EPn		2140	13.13	-0.1							1.0
KHMZ	BE	244	11	AML		2140	43.06		611		0.5				
KHMZ	BN	244	11	AML		2140	43.08		593		0.5				
ASAO	BZ	334	9	EPn		2140	24.41	0.1							0.9
ASAO	BN	334	9	AML		2141	9.81		165		0.8				
ASAO	BE	334	9	AML		2141	12.40		213		0.5				
NASN	BZ	342	66	EPn		2140	25.42	-0.1							0.9
GHVR	BZ	362	27	EPn		2140	27.78	0.1							0.9

GHVR	BE	362	27	AML	2141	27.77			171	0.7				
SNGE	BZ	437	334	EPn	2140	37.15	0.0							0.9
GHIR	BZ	498	136	EPn	2140	44.64	0.0							0.8
GHIR	BN	498	136	AML	2141	44.00			64	0.4				
GHIR	BE	498	136	AML	2141	46.74			65	0.7				

**August 10 2010 Hour: 23:11 46.0 Lat: 30.88N Lon: 56.45E Depth: 15F Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	104	163	EPg		2312	3.00	-0.7							1.0
KRBR	BN	104	163	AML		2312	17.88			1538	0.1				
KRBR	BE	104	163	AML		2312	19.22			1625	0.4				
TABS	BZ	314	11	EPn		2312	32.39	-0.2							1.0
TABS	BN	314	11	AML		2313	30.24			155	0.2				
BNDS	BZ	386	184	EPn		2312	42.40	0.7							0.9
BNDS	BE	386	184	AML		2313	46.21			87	0.5				
BNDS	BN	386	184	AML		2313	49.54			62	0.5				
NASN	BZ	405	303	EPn		2312	44.25	0.0							0.9
NASN	BE	405	303	ESg		2313	39.60	0.0							0.9
ZHSF	BZ	439	108	EPn		2312	48.79	0.5							0.9

**August 11 2010 Hour: 9: 6 45.0 Lat: 27.07N Lon: 55.71E Depth: 6F Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	59	51	EPg		9 6	55.63	-0.4							1.0
BNDS	BE	59	51	AML		9 7	19.84			6535	0.5				
BNDS	BN	59	51	AML		9 7	23.16			6552	0.5				
GHIR	BZ	301	297	EPn		9 7	31.12	0.0							1.0
GHIR	BE	301	297	AML		9 8	31.49			556	0.4				
KRBR	BZ	339	17	EPN5		9 7	36.99	0.9							0.9
KRBR	BE	339	17	AML		9 8	30.16			595	0.6				
CHBR	BZ	504	108	EPn		9 7	56.18	0.0							0.8
NASN	BZ	694	337	EPn		9 8	19.38	-0.9							0.7
NASN	BE	694	337	AML		9 9	38.37			22	0.6				
GHVR	BZ	926	334	EPn		9 8	48.58	-0.2							0.5
DAMV	BZ	1014	340	EPn		9 8	59.61	-0.2							0.4

**August 11 2010 Hour: 17:26 19.5 Lat: 37.80N Lon: 57.02E Depth: 14 Agency: INS Local**  
**Magnitudes: 5.0ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	36	107	EPg		1726	26.47	0.1							1.0
MRVT	BZ	83	260	EPg		1726	34.08	0.2							1.0
MRVT	BE	83	260	AML		1726	48.71			49744	0.2				
MRVT	BN	83	260	AML		1726	50.75			74395	0.4				
SHRO	BZ	218	205	EPg		1726	54.47	-0.8							1.0
SHRO	BN	218	205	ESg		1727	21.57	0.3							1.0
TABS	BZ	460	179	EPN5		1727	24.66	0.2							0.8
TABS	BN	460	179	AML		1728	39.68			1409	0.7				
GHVR	BZ	636	236	EPn		1727	46.71	0.4							0.7
ZNJK	BZ	750	263	EPn		1727	59.98	-0.6							0.6
KHMZ	BZ	780	237	EPn		1728	4.46	0.1							0.6

**August 12 2010 Hour: 20:26 25.0 Lat: 39.66N Lon: 51.81E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRMI	BZ	351	256	EPn		2027	16.46	0.1							1.0
CHTH	BZ	420	188	EPn		2027	25.32	0.2							0.9
THKV	BZ	423	191	EPn		2027	25.23	-0.1							0.9
THKV	BN	423	191	AML		2028	11.88			68	0.5				
THKV	BE	423	191	AML		2028	15.57			63	0.4				
ZNJK	BZ	430	221	EPn		2027	25.95	-0.3							0.9
ZNJK	BE	430	221	AML		2028	11.97			125	0.3				
ZNJK	BN	430	221	AML		2028	12.08			85	0.3				
MRVT	BZ	433	119	EPn		2027	26.33	-0.2							0.9

MRVT	BE	433	119	AML	2028	13.68			26	0.2						
MRVT	BN	433	119	AML	2028	14.93			24	0.4						
DAMV	BZ	447	178	EPn	2027	28.48	0.1								0.9	
DAMV	BN	447	178	AML	2028	17.71			250	0.3						
DAMV	BE	447	178	AML	2028	17.72			96	0.3						
SHRO	BZ	548	136	EPn	2027	41.10	0.2								0.8	

**August 13 2010 Hour: 7:25 21.4 Lat: 39.56N Lon: 50.09E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GRMI	BZ	207	247	EPg		725	55.40	0.0							1.0
ZNJK	BZ	344	201	EPn		726	12.10	0.1							0.9
ZNJK	BE	344	201	ESg		726	57.91	0.0							0.9
ZNJK	BN	344	201	AML		726	59.07			136	0.6				
ZNJK	BE	344	201	AML		727	1.55			119	0.3				
CHTH	BZ	416	167	EPn		726	20.85	-0.1							0.9
DAMV	BZ	467	159	EPn		726	27.22	-0.1							0.8
DAMV	BN	467	159	AML		727	22.36			77					
DAMV	BE	467	159	AML		727	23.73			89	0.4				

**August 20 2010 Hour: 10:57 30.4 Lat: 33.08N Lon: 49.67E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	135	217	EPg		1057	52.65	-0.3							1.0
SHGR	BE	135	217	AML		1058	15.01			913	0.4				
SHGR	BN	135	217	AML		1058	15.39			985	0.6				
ASAO	BZ	166	11	EPg		1057	57.26	-0.7							1.0
ASAO	BN	166	11	AML		1058	23.98			598	0.6				
GHVR	BZ	213	43	EPg		1058	5.07	-0.3							1.0
GHVR	BE	213	43	AML		1058	39.94			283	0.8				
NASN	BZ	295	95	EPn		1058	15.31	0.3							1.0
SNGE	BZ	309	317	EPn		1058	17.04	0.4							1.0
DAMV	BZ	353	36	EPn		1058	22.65	0.5							0.9
ZNJK	BZ	408	348	EPn		1058	29.23	0.3							0.9

**August 27 2010 Hour: 3:17 20.9 Lat: 33.99N Lon: 59.35E Depth: 15F Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRT	BZ	95	114	EPg		317	37.06	0.0							1.0
SHRT	BN	95	114	ESg		317	48.91	0.0							1.0
SHRT	BE	95	114	AML		317	52.44			3213	0.5				
SHRT	BN	95	114	AML		317	52.98			2965	0.4				
TABS	BZ	210	260	EPg		317	55.41	0.0							1.0
TABS	BN	210	260	AML		318	28.23			507	0.8				
BJRD	BZ	447	337	EPn		318	24.17	0.0							0.9
MRVT	BZ	503	325	EPn		318	30.95	0.0							0.8

**August 27 2010 Hour: 19:23 48.0 Lat: 35.46N Lon: 54.49E Depth: 14 Agency: INS Local**  
**Magnitudes: 5.9ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRO	BN	151	66	EPg		1924	12.76	-0.4							1.0
SHRO	BE	151	66	ESg		1924	31.57	0.0							1.0
DAMV	BZ	229	275	EPg		1924	24.47	-1.1							1.0
DAMV	BE	229	275	ESg		1924	53.15	0.1							1.0
DAMV	BN	229	275	AML		1925	0.90			93392	0.6				
MRVT	BZ	283	30	EPn		1924	31.75	0.8							1.0
MRVT	BE	283	30	AML		1925	9.87			63322	0.4				
CHTH	BZ	308	280	EPn		1924	34.36	0.1							1.0
TABS	BZ	314	129	EPn		1924	34.94	0.1							1.0
GHVR	BZ	315	251	EPn		1924	34.95	0.0							1.0
GHVR	BE	315	251	ESg		1925	16.88	0.3							1.0
GHVR	BN	315	251	AML		1925	21.28			34737	0.5				
THKV	BZ	330	280	EPn		1924	37.58	0.7							0.9
NASN	BZ	333	208	EPn		1924	36.78	-0.6							0.9



ASAO	BZ	419	257	EPn		1924	47.86	-0.2							0.9
KHMZ	BZ	456	247	EPn		1924	52.89	0.3							0.8
ZNJK	BZ	539	286	EPn		1925	2.93	0.0							0.8
SHRT	BZ	570	109	EPn		1925	6.33	-0.2							0.8
KRBR	BZ	644	160	EPn		1925	16.04	0.1							0.7
SNGE	BZ	651	268	EPn		1925	17.13	0.4							0.7
GRMI	BZ	693	304	EPn		1925	21.26	-0.7							0.7
GRMI	BE	693	304	Sn		1926	30.35	-0.2							0.7
AHRM	BZ	790	203	EPn		1925	34.32	0.5							0.6
GHIR	BZ	808	191	EPn		1925	36.55	0.4							0.6
GHIR	BN	808	191	Sn		1926	55.20	0.1							0.6
MAKU	BZ	969	299	EPn		1925	56.92	0.7							0.5

**August 28 2010 Hour: 0:29 3.9 Lat: 35.47N Lon: 54.47E Depth: 15 Agency: INS Local**  
**Magnitudes: 5.2ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRO	BN	152	66	EPg		029	28.38	-0.8							1.0
DAMV	BZ	228	275	EPg		029	40.54	-0.8							1.0
DAMV	BE	228	275	ESg		030	8.59	0.0							1.0
DAMV	BN	228	275	AML		030	15.07		19111	0.6					
MRVT	BZ	283	30	EPn		029	47.34	0.6							1.0
CHTH	BZ	307	280	EPn		029	50.18	0.3							1.0
GHVR	BZ	314	251	EPn		029	50.60	0.0							1.0
TABS	BZ	316	129	EPn		029	50.98	0.2							1.0
THKV	BZ	329	280	EPn		029	53.30	0.7							0.9
NASN	BZ	333	208	EPn		029	52.57	-0.7							0.9
ASAO	BZ	418	257	EP		030	3.35	-0.4							0.9
KHMZ	BZ	456	246	EPn		030	8.87	0.5							0.8
ZNJK	BZ	538	286	EPn		030	19.04	0.4							0.8
SHRT	BZ	571	109	EPn		030	22.30	-0.2							0.8
SHRT	BN	571	109	Sn		031	20.13	0.3							0.8
KRBR	BZ	645	160	EPn		030	32.42	0.5							0.7
KRBR	BE	645	160	AML		032	33.39		730	0.7					
SNGE	BZ	649	268	EPn		030	32.97	0.6							0.7
GRMI	BZ	692	304	EPn		030	37.18	-0.5							0.7
AHRM	BZ	790	203	EPn		030	49.68	0.0							0.6
MAKU	BZ	968	299	EPn		031	11.75	-0.1							0.5

**August 28 2010 Hour: 0:46 54.0 Lat: 39.59N Lon: 54.39E Depth: 21 Agency: INS Local**  
**Magnitudes: 4.8ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MRVT	BZ	260	145	EPn		047	33.41	0.0							1.0
DAMV	BZ	489	207	EPn		048	2.01	0.1							0.8
DAMV	BN	489	207	AML		048	54.11		602	0.5					
DAMV	BE	489	207	AML		048	54.39		593	0.5					
CHTH	BZ	500	216	EPn		048	3.18	-0.1							0.8
THKV	BZ	512	218	EPn		048	4.67	-0.1							0.8
THKV	BN	512	218	AML		048	57.97		1263	0.5					
THKV	BE	512	218	AML		048	58.82		1135	0.4					
GRMI	BZ	568	263	EPn		048	11.60	0.0							0.8
GHVR	BZ	632	207	EPn		048	20.14	0.6							0.7
NASN	BZ	767	191	EPn		048	35.92	-0.6							0.6

**September 1 2010 Hour: 19:28 3.0 Lat: 36.36N Lon: 57.27E Depth: 22 Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRO	BZ	120	251	EPg		1928	22.84	-0.1							1.0
BJRD	BZ	149	5	EPg		1928	27.98	0.5							1.0
MRVT	BZ	179	324	EPg		1928	31.51	-0.4							1.0
TABS	BZ	301	183	EPn		1928	48.06	0.7							1.0
TABS	BE	301	183	AML		1929	36.91		371	0.6					
TABS	BN	301	183	AML		1929	38.56		706	0.7					
SHRT	BZ	408	137	EPn		1928	59.80	-0.8							0.9
SHRT	BN	408	137	Sn		1929	42.52	-0.1							0.9

SHRT	BE	408	137	AML	1930	10.15				219	0.8				
DAMV	BZ	485	262	EPn	1929	10.22	-0.1								0.8
DAMV	BE	485	262	AML	1930	39.55				150	0.7				
NASN	BZ	569	227	EPn	1929	21.07	0.2								0.8
GHVR	BZ	586	251	EPn	1929	22.63	0.0								0.8

**September 2 2010 Hour: 0:32 45.9 Lat: 32.15N Lon: 55.98E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TABS	BZ	197	32	EPg		033	18.33	-0.1							1.0
TABS	BN	197	32	AML		033	45.79			337	0.4				
KRBR	BZ	252	163	EPn		033	25.22	0.1							1.0
KRBR	BE	252	163	ESg		033	57.22	-0.1							1.0
KRBR	BN	252	163	AML		033	59.34			1059	0.8				
KRBR	BE	252	163	AML		034	0.68			1006	0.6				
NASN	BZ	307	284	EPn		033	32.15	0.1							1.0
NASN	BN	307	284	AML		034	13.31			151	0.6				
NASN	BE	307	284	AML		034	15.21			134	0.4				
SHRO	BZ	428	0	EPn		033	46.66	-0.2							0.9
SHRT	BZ	436	66	EPn		033	48.07	0.2							0.9
GHIR	BZ	516	215	EPn		033	57.69	-0.1							0.8

**September 4 2010 Hour: 16:52 39.9 Lat: 30.89N Lon: 60.56E Depth: 15 Agency: INS Local**  
**Magnitudes: 4.0ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZHSF	BZ	144	172	EPg		1653	3.95	0.0							1.0
ZHSF	BE	144	172	AML		1653	26.20			1886	0.7				
ZHSF	BN	144	172	AML		1653	27.08			1677	0.9				
SHRT	BZ	306	355	EPn		1653	25.50	-0.1							1.0
SHRT	BE	306	355	AML		1654	20.94			254	0.2				
KRBR	BZ	379	255	EPn		1653	34.78	0.0							0.9
KRBR	BN	379	255	AML		1654	31.63			665	1.2				
KRBR	BE	379	255	AML		1654	36.33			630	0.5				
TABS	BZ	445	314	EPn		1653	43.10	0.2							0.9
TABS	BE	445	314	ESg		1654	44.22	0.0							0.9
TABS	BN	445	314	AML		1654	56.28			212	0.2				
BNDS	BZ	576	229	EPn		1653	59.17	-0.1							0.8

**September 4 2010 Hour: 21:15 13.9 Lat: 35.43N Lon: 54.48E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRO	BZ	153	65	EPg		2115	38.75	-0.6							1.0
SHRO	BE	153	65	ESg		2115	58.03	0.1							1.0
DAMV	BZ	229	276	EPg		2115	50.91	-0.6							1.0
DAMV	BN	229	276	ESg		2116	19.06	0.1							1.0
DAMV	BN	229	276	AML		2116	22.51			614	1.0				
DAMV	BE	229	276	AML		2116	27.92			727	0.7				
MRVT	BZ	286	30	EPn		2115	57.46	0.2							1.0
MRVT	BE	286	30	AML		2116	38.31			397	0.1				
CHTH	BZ	308	281	EPn		2116	0.77	0.6							1.0
TABS	BZ	313	128	EPn		2116	0.93	0.4							1.0
TABS	BN	313	128	AML		2116	57.00			574	0.4				
NASN	BZ	330	208	EPn		2116	2.75	-0.2							0.9

**September 7 2010 Hour: 2:11 3.7 Lat: 27.06N Lon: 54.48E Depth: 15F Agency: INS Local**  
**Magnitudes: 4.9ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	172	77	EPg		211	32.09	0.0							1.0
BNDS	BN	172	77	ESg		211	52.95	0.1							1.0
BNDS	BE	172	77	AML		211	58.69			17986	0.4				
BNDS	BN	172	77	AML		212	3.06			18726	0.5				
AHRM	BZ	372	303	EPn		211	57.53	0.1							0.9
AHRM	BN	372	303	AML		213	7.23			1883	0.6				
KRBR	BZ	394	34	EPn		212	0.48	0.1							0.9

KRBR	BE	394	34	AML		213	6.13			1923	0.9			
KRBR	BN	394	34	AML		213	7.93			1723	0.6			
NASN	BZ	657	346	EPn		212	32.77	-0.4						0.7
NASN	BE	657	346	Sn		213	38.65	0.2						0.7
TABS	BZ	774	18	EPn		212	47.16	-0.3						0.6
GHVR	BZ	879	340	EPn		213	0.50	0.0						0.5
SHRT	BZ	919	36	EPn		213	5.45	0.0						0.5

**September 8 2010 Hour: 5:30 29.7 Lat: 36.98N Lon: 49.53E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZNJK	BZ	83	246	EPg		530	43.66	-0.4							1.0
THKV	BZ	169	134	EPg		530	57.86	0.1							1.0
THKV	BE	169	134	AML		531	25.08			3300	0.5				
CHTH	BZ	186	129	EPg		531	0.19	-0.3							1.0
CHTH	BN	186	129	AML		531	23.99			2238	0.3				
GRMI	BZ	249	325	EPn		531	8.42	0.1							1.0
DAMV	BZ	266	124	EPg		531	12.87	-0.2							1.0
DAMV	BN	266	124	AML		531	46.57			1734	0.5				
SNGE	BZ	287	224	EPn		531	13.56	0.3							1.0
SNGE	BN	287	224	AML		531	54.19			523	0.7				
NASN	BZ	552	146	EPn		531	46.78	0.5							0.8

**September 8 2010 Hour: 12:33 29.7 Lat: 27.78N Lon: 53.08E Depth: 14F Agency: INS Local**  
**Magnitudes: 4.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	56	351	EPg		1233	39.60	-0.2							1.0
GHIR	BE	56	351	ESg		1233	47.28	0.1							1.0
GHIR	BE	56	351	AML		1233	52.29			44798	0.8				
GHIR	BN	56	351	AML		1233	54.21			54863	0.4				
AHRM	BZ	212	305	EPg		1234	4.49	0.1							1.0
BNDS	BZ	308	97	EPn		1234	15.77	0.0							1.0
BNDS	BN	308	97	AML		1235	26.66			670	0.8				
KRBR	BZ	434	55	EPn		1234	31.74	0.2							0.9

**September 14 2010 Hour: 12:40 6.7 Lat: 30.31N Lon: 50.69E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	171	160	EPg		1240	34.87	-0.1							1.0
AHRM	BN	171	160	ESg		1240	55.47	-0.1							1.0
SHGR	BZ	268	318	EPn		1240	47.58	-0.1							1.0
SHGR	BE	268	318	AML		1241	19.59			652	1.1				
SHGR	BN	268	318	AML		1241	25.44			514	0.6				
GHIR	BZ	317	135	EPn		1240	54.20	0.3							1.0
GHIR	BE	317	135	AML		1242	2.82			94	0.5				
GHIR	BN	317	135	AML		1242	4.08			99	1.4				
NASN	BZ	341	36	EPn		1240	56.81	-0.3							0.9
KHMZ	BZ	386	350	EPn		1241	2.76	0.2							0.9
KHMZ	BN	386	350	AML		1242	9.15			54	0.2				
KHMZ	BE	386	350	AML		1242	13.15			65	1.3				

**September 15 2010 Hour: 19:57 58.7 Lat: 30.81N Lon: 56.83E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	92	184	IPg		1958	14.28	-0.3							1.0
KRBR	BE	92	184	AML		1958	28.96			7238	0.4				
KRBR	BN	92	184	AML		1958	29.30			9863	0.6				
TABS	BZ	316	5	EPn		1958	45.55	-0.1							1.0
TABS	BN	316	5	ESg		1959	27.71	0.3							1.0
TABS	BN	316	5	AML		1959	37.21			1117	0.5				
TABS	BE	316	5	AML		1959	40.30			466	0.6				
BNDS	BZ	384	190	EPn		1958	55.09	0.9							0.9
BNDS	BN	384	190	AML		1959	46.59			402	0.6				
BNDS	BE	384	190	AML		1959	58.21			510	0.6				

NASN	BZ	440	301	EPn		1959	1.16	-0.2									0.9
NASN	BN	440	301	AML		20	0	4.10		302	0.4						
NASN	BE	440	301	AML		20	0	12.95		313	0.6						
SHRT	BZ	453	45	EPn		1959	2.37	-0.3									0.8
GHIR	BZ	466	234	EPn		1959	4.09	-0.2									0.8

**September 16 2010 Hour: 12:57 6.5 Lat: 30.76N Lon: 59.69E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZHSF	BZ	165	140	EPg		1257	33.68	-0.1							1.0
ZHSF	BN	165	140	ESg		1257	53.78	0.0							1.0
KRBR	BZ	295	254	EPn		1257	51.41	0.4							1.0
KRBR	BN	295	254	ESg		1258	29.41	-0.2							1.0
KRBR	BN	295	254	AML		1258	31.40			316	0.4				
KRBR	BE	295	254	AML		1258	33.59			193	0.4				
SHRT	BZ	325	10	EPn		1257	54.43	-0.1							0.9
TABS	BZ	402	324	EPn		1258	4.22	0.1							0.9
TABS	BN	402	324	AML		1259	12.99			105	0.7				

**September 18 2010 Hour: 13:17 7.8 Lat: 29.95N Lon: 51.94E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	135	208	EPg		1317	30.25	0.0							1.0
GHIR	BZ	210	151	EPg		1317	42.34	0.0							1.0
GHIR	BE	210	151	AML		1318	20.92			320	0.9				
GHIR	BN	210	151	AML		1318	28.44			309	1.6				
NASN	BZ	327	14	EPn		1317	56.39	0.0							0.9
SHGR	BN	384	309	AML		1318	58.81			162	0.6				
SHGR	BE	384	309	AML		1319	4.70			205	0.3				
KRBR	BZ	465	88	EPn		1318	13.56	0.0							0.8
KRBR	BE	465	88	AML		1319	36.83			39	1.9				
KRBR	BN	465	88	AML		1319	42.93			46	0.2				

**September 25 2010 Hour: 22:55 29.8 Lat: 35.89N Lon: 53.37E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DAMV	BZ	129	258	EPg		2255	51.73	0.1							1.0
DAMV	BE	129	258	AML		2256	9.31			698	0.4				
CHTH	BZ	202	271	EPg		2256	2.88	-0.3							1.0
THKV	BZ	225	272	EPg		2256	6.85	0.1							1.0
THKV	BN	225	272	AML		2256	46.82			345	0.5				
THKV	BE	225	272	AML		2256	47.78			479	1.2				
SHRO	BN	239	86	EPg		2256	8.76	-0.2							1.0
GHVR	BZ	248	232	EPg		2256	10.50	0.1							1.0
GHVR	BE	248	232	AML		2256	44.26			666	0.9				
GHVR	BN	248	232	AML		2256	50.57			510	0.4				
MRVT	BZ	313	50	EPn		2256	16.68	0.3							1.0
NASN	BE	346	189	AML		2257	21.97			236	1.0				
NASN	BN	346	189	AML		2257	22.65			204	0.6				
KHMZ	BN	392	234	AML		2257	35.70			76	0.8				
KHMZ	BE	392	234	AML		2257	36.58			67	0.5				
ZNJK	BZ	429	283	EPn		2256	30.97	-0.1							0.9
SNGE	BZ	553	263	EPn		2256	46.55	0.1							0.8

**September 26 2010 Hour: 7:28 38.6 Lat: 28.28N Lon: 57.55E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.9ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	167	234	EPg		729	6.10	-0.2							1.0
BNDS	BE	167	234	ESg		729	26.66	0.2							1.0
BNDS	BN	167	234	AML		729	37.36			973	0.6				
BNDS	BE	167	234	AML		729	41.39			1552	0.5				
KRBR	BZ	203	338	EPg		729	12.19	0.0							1.0
KRBR	BN	203	338	AML		729	48.13			1289	0.4				
KRBR	BE	203	338	AML		729	49.85			1110	0.4				



ZHSF	BZ	348	64	EPn		729	29.59	0.1								0.9
GHIR	BZ	447	271	EPn		729	41.83	0.0								0.9
AHRM	BZ	615	278	EPn		730	2.48	0.0								0.7

**September 27 2010 Hour: 4:26 6.6 Lat: 37.72N Lon: 43.47E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MAKU	BZ	210	30	EPg		426	41.23	0.0							1.0
MAKU	BE	210	30	ESg		427	6.40	-0.1							1.0
MAKU	BE	210	30	AML		427	10.78			89	0.3				
GRMI	BZ	406	71	EPn		427	4.93	0.2							0.9
GRMI	BN	406	71	ESg		428	0.06	0.0							0.9
SNGE	BZ	454	129	EPn		427	10.86	0.1							0.8
SNGE	BE	454	129	AML		428	21.13			143	0.6				
SNGE	BN	454	129	AML		428	22.54			157	0.6				
ZNJK	BZ	478	102	EPn		427	13.99	0.2							0.8
ASAO	BZ	687	119	EPn		427	39.81	0.0							0.7
CHTH	BZ	712	104	EPn		427	42.83	-0.1							0.7
KHMZ	BZ	735	125	EPn		427	45.27	-0.4							0.6
SHGR	BZ	790	140	EPn		427	52.18	-0.1							0.6

**September 27 2010 Hour: 5:53 42.5 Lat: 26.70N Lon: 53.53E Depth: 45 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	184	343	EPg		554	12.58	0.0							1.0
GHIR	BN	184	343	ESg		554	34.61	0.0							1.0
GHIR	BN	184	343	AML		554	39.17			1063	0.4				
BNDS	BZ	273	73	EPn		554	21.42	0.1							1.0
BNDS	BN	273	73	AML		555	10.54			131	0.7				
AHRM	BN	326	318	AML		555	45.34			115	0.7				
KRBR	BZ	482	40	EPn		554	47.45	0.0							0.8
KRBR	BN	482	40	AML		555	57.20			34	0.4				
NASN	BZ	680	354	EPn		555	12.07	0.0							0.7
NASN	BN	680	354	AML		556	20.24			36	0.6				
NASN	BE	680	354	AML		556	21.07			14	0.9				
SHRT	BZ	1008	39	EPn		555	52.32	-0.2							0.4

**September 27 2010 Hour: 11:22 44.6 Lat: 29.75N Lon: 51.75E Depth: 15 Agency: INS Local**  
**Magnitudes: 6.0ML INS 5.9MB INS Rms: 0.7 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	108	204	EPg		1123	3.28	0.5							1.0
AHRM	BN	108	204	ESg		1123	16.24	0.2							1.0
GHIR	BZ	202	143	EPg		1123	17.36	-0.5							1.0
NASN	BZ	352	16	EPn		1123	36.80	0.5							0.9
SHGR	BZ	384	314	EPn		1123	39.46	-0.4							0.9
SHGR	BN	384	314	Sn		1124	20.97	0.7							0.9
SHGR	BN	384	314	AML		1124	23.49			28349	1.0				
KHMZ	BZ	473	340	EPn		1123	50.78	-0.4							0.8
KHMZ	BE	473	340	Sn		1124	39.93	0.1							0.8
KRBR	BZ	485	86	EPn		1123	53.92	1.2							0.8
KRBR	BE	485	86	Sn		1124	42.61	0.2							0.8
BNDS	BZ	505	120	EPn		1123	53.96	-1.1							0.8
BNDS	BE	505	120	Sn		1124	46.27	-0.2							0.8
BNDS	BN	505	120	AML		1124	49.95			12048	0.6				
GHVR	BZ	526	355	EPn		1123	58.15	0.5							0.8
DAMV	BZ	652	2	EPn		1124	12.87	-0.6							0.7
DAMV	BN	652	2	Sn		1125	18.43	0.1							0.7
TABS	BZ	667	48	EPn		1124	16.18	1.0							0.7
CHTH	BZ	685	355	EPn		1124	16.63	-0.9							0.7
THKV	BZ	688	353	EPn		1124	17.37	-0.5							0.7
SNGE	BZ	722	326	EPn		1124	21.52	-0.6							0.7
SNGE	BN	722	326	Sn		1125	33.44	0.1							0.7
SHRO	BN	800	29	EPn		1124	31.88	0.2							0.6
ZNJK	BZ	819	340	EPn		1124	32.57	-1.6							0.6

SHRT	BZ	917	60	EPn		1124	46.80	0.6									0.5
MRVT	BZ	965	23	EPn		1124	52.62	0.5									0.5
GRMI	BZ	1066	342	EPn		1125	3.76	-0.9									0.4
MAKU	BZ	1246	331	EPn		1125	26.28	-0.9									0.3
MAKU	BZ	1246	331	AMb		1125	28.96				389	1.3					

**September 27 2010 Hour: 15: 5 48.1 Lat: 29.73N Lon: 51.59E Depth: 35 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	100	197	EPg		15	6	5.20	0.0						1.0
AHRM	BN	100	197	AML		15	6	21.19		2947	0.5				
GHIR	BZ	210	139	EPN5		15	6	19.99	0.0						1.0
GHIR	BE	210	139	ESg		15	6	46.76	0.0						1.0
GHIR	BE	210	139	AML		15	6	57.56		916	0.6				
GHIR	BN	210	139	AML		15	7	1.76		709	0.5				
NASN	BZ	360	18	EPn		15	6	38.76	-0.1						0.9
KHMZ	BN	471	341	EPn		15	6	52.66	0.1						0.8
KRBR	BN	500	85	AML		15	8	17.96		59	0.5				
KRBR	BE	500	85	AML		15	8	27.98		68	0.6				
BNDS	BN	517	119	AML		15	7	52.19		77	0.5				
BNDS	BE	517	119	AML		15	7	53.33		82	0.6				
SNGE	BZ	716	327	EPn		15	7	23.00	0.0						0.7

**September 28 2010 Hour: 9:29 1.8 Lat: 29.10N Lon: 60.10E Depth: 37 Agency: INS Local**  
**Magnitudes: 4.3ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZHSF	BZ	87	49	EPg		929	17.24	0.0							1.0
KRBR	BZ	338	288	EPn		929	49.30	-0.3							0.9
KRBR	BN	338	288	ESg		930	34.88	0.1							0.9
BNDS	BZ	429	245	EPn		930	0.92	0.2							0.9
BNDS	BE	429	245	AML		931	10.71			401	0.6				
BNDS	BN	429	245	AML		931	11.43			365	0.6				
SHRT	BZ	505	2	EPn		930	10.19	0.1							0.8
TABS	BZ	579	331	EPn		930	19.51	0.2							0.8
TABS	BE	579	331	AML		931	58.90			160	0.6				
TABS	BN	579	331	AML		932	1.42			329	0.8				
GHIR	BZ	701	264	EPn		930	34.56	0.1							0.7
SHRO	BZ	857	334	EPn		930	53.76	-0.1							0.6
AHRM	BZ	858	270	EPn		930	53.64	-0.2							0.5

**September 28 2010 Hour: 22:53 27.8 Lat: 29.77N Lon: 51.84E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	113	208	EPg		2253	46.66	-0.1							1.0
AHRM	BN	113	208	ESg		2254	0.74	0.1							1.0
GHIR	BZ	199	145	EPg		2254	0.42	-0.1							1.0
GHIR	BN	199	145	AML		2254	36.94			400	0.7				
NASN	BZ	349	15	EPn		2254	19.16	0.0							0.9
BNDS	BZ	499	121	EPn		2254	37.78	0.2							0.8
BNDS	BE	499	121	AML		2255	36.95			48	0.3				

**September 29 2010 Hour: 5:48 15.8 Lat: 29.75N Lon: 51.71E Depth: 33 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AHRM	BZ	106	202	EPg		548	33.69	0.0							1.0
AHRM	BN	106	202	AML		548	50.50			1251	0.6				
GHIR	BZ	204	142	EPn		548	47.22	0.0							1.0
GHIR	BN	204	142	AML		549	21.33			502	0.5				
NASN	BZ	354	17	EPn		549	6.30	0.3							0.9
ASAO	BZ	555	344	EPn		549	30.95	0.0							0.8
DAMV	BZ	653	2	EPn		549	42.94	-0.1							0.7
TABS	BZ	671	48	EPn		549	45.18	0.0							0.7
CHTH	BZ	685	356	EPn		549	47.08	0.0							0.7
SHRO	BZ	803	29	EPn		550	1.09	-0.4							0.6

September 30 2010 Hour: 15:11 59.5 Lat: 35.78N Lon: 62.42E Depth: 14 Agency: INS Local  
 Magnitudes: 4.1ML INS Rms: 0.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRT	BN	306	220	EPn		1512	45.62	-0.2							1.0
SHRT	BN	306	220	AML		1513	24.92			863	0.5				
SHRT	BE	306	220	AML		1513	31.29			672	0.6				
TABS	BE	540	246	EPn		1513	15.04	0.2							0.8
TABS	BE	540	246	AML		1514	50.42			94	0.8				
TABS	BN	540	246	AML		1514	53.69			200	0.7				
MRVT	BZ	603	292	EPn		1513	22.59	-0.1							0.8
ZHSF	BZ	701	193	EPn		1513	35.02	0.1							0.7
ZHSF	BN	701	193	AML		1515	13.75			57	0.5				
ZHSF	BE	701	193	AML		1515	16.03			46	0.7				

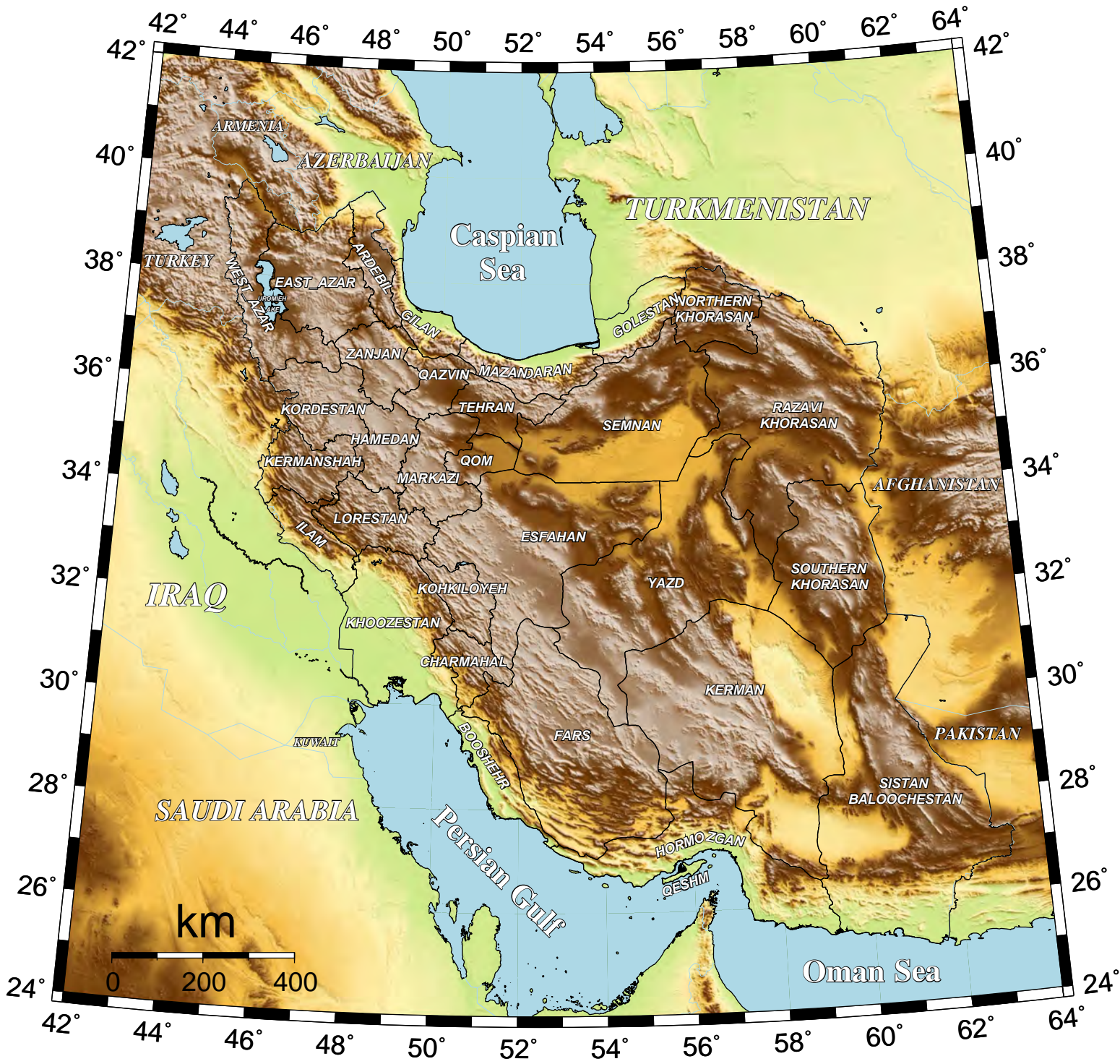
### IIIES EARTHQUAKE CATALOGUE (July - September 2010)

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	Dmin	Rms	M <sub>L</sub>	M <sub>b</sub>
2010	7	2	22	34	45.8	0.81	28.093	14	52.426	3.3	14.1	11.8	3	5	239	59.1	0.25	3.9	
2010	7	6	2	57	0.5	0.36	22.069	20	61.881	7.8	8	0	8	7	314	415.7	0.21	4.4	
2010	7	11	5	25	47.8	0.59	28.467	2.5	57.477	9.9	14.1	7.6	3	5	250	174.6	0.17	3.5	
2010	7	14	14	12	49.4	0.38	26.929	3.2	56.307	2.8	8.1	4.8	5	6	187	53.8	0.09	3.5	
2010	7	18	11	46	16.8	1.38	33.772	7.2	48.05	7.6	15	0	7	7	177	160.1	0.5	4	
2010	7	19	17	45	44.9	0.85	27.435	4.1	62.625	31.6	47	23.5	4	5	263	295.2	0.31	4.6	
2010	7	20	19	38	10.7	0.88	26.989	10.9	53.837	6.3	35.3	10.3	12	13	209	166.4	0.49	5.5	
2010	7	20	19	50	6.9	1.43	26.628	16.3	53.884	7.5	16	10.9	4	6	246	203.9	0.46	5.2	
2010	7	20	20	1	26.7	0.42	27.084	10	53.905	6.9	14.1	6.5	3	4	245	161	0.08	3.7	
2010	7	20	20	4	44.3	0.34	26.863	6.9	53.867	5.1	18	4.6	3	4	256	180	0.01	3.8	
2010	7	20	20	24	53	0.44	26.961	10.3	54.029	6.7	14.1	6.7	3	4	249	179.3	0.08	3.6	
2010	7	20	21	36	6	0.75	27.023	18.1	54.011	11.7	14.2	11.6	3	4	246	172.6	0.21	3.5	
2010	7	21	16	1	21.4	0.8	26.757	10	53.901	5.1	14.1	10.6	3	5	260	191.9	0.21	3.9	
2010	7	21	18	18	38.3	0.34	26.804	9.9	53.66	3.2	18	6	3	4	263	177.1	0	3.6	
2010	7	22	3	18	19.2	0.38	27.087	9.9	54.035	6.2	14.1	6.3	3	4	242	168.3	0.06	3.6	
2010	7	23	0	56	40.9	1.17	37.718	5.2	56.983	4.2	14.1	7.6	12	14	188	37.6	0.41	4.2	
2010	7	23	18	22	7.2	0.58	27.097	14.4	53.96	9.5	14.1	9.3	3	4	243	163	0.15	3.6	
2010	7	24	12	34	11.9	0.43	26.926	6.2	53.719	5.5	14.1	5.3	4	5	234	167	0.1	4.5	
2010	7	24	16	5	20.9	0.98	27.876	8	56.878	18.7	40.4	8	3	5	236	87.5	0.27	4	
2010	7	24	22	57	36.5	0.29	26.941	5	53.536	5.4	15	0	3	4	262	158.6	0.03	3.5	
2010	7	27	18	43	53.1	0.3	28.08	3.4	56.992	8.7	15	0	3	3	233	110.6	0	3.6	
2010	7	28	15	39	27	0.56	27.858	2.5	57.632	4.1	16	6.9	4	6	194	152.8	0.17	3.5	
2010	7	28	19	14	59.1	0.33	30.901	3.1	50.099	6.6	14.8	4.6	5	6	165	181.9	0.05	3.6	
2010	7	29	0	55	19.7	0.33	33.863	2.8	54.221	1.6	18	5.7	8	9	175	269.5	0.06	3.5	
2010	7	30	13	50	12.8	0.58	35.199	3.2	59.23	5	18	7.7	8	8	195	197.9	0.19	5.8	
2010	7	31	6	52	56	0.97	29.632	2.1	56.75	5.1	14.1	6.1	12	15	104	38.8	0.44	5.6	
2010	7	31	14	38	41.2	0.34	29.617	0.9	56.871	5.1	16.7	2.4	4	6	193	41.9	0.06	3.5	
2010	8	1	15	33	19.1	0.39	26.826	7.9	53.872	5.8	14.1	5.5	3	4	258	183.8	0.07	3.5	
2010	8	5	1	40	26	0.64	26.801	8	53.852	4.2	14.1	8.4	3	5	259	185.3	0.16	3.6	
2010	8	5	15	16	48.3	0.98	29.451	2.9	51.232	9.5	15	0	6	7	156	65.1	0.37	4	
2010	8	6	6	59	53.9	0.36	26.73	5.3	53.81	2.5	15.5	5.1	3	5	263	190.6	0.06	4.1	
2010	8	6	19	15	47.2	0.96	29.378	4.8	51.083	9.6	15	0	8	8	172	60.6	0.35	3.9	

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	Dmin	Rms	M <sub>L</sub>	Mb
2010	8	7	3	34	12.9	0.74	28.029	3.8	54.763	3.1	17.7	6.6	5	6	163	155.5	0.24	3.5	
2010	8	8	9	39	2.2	0.46	37.958	2.8	57.715	5	14.1	6.6	3	6	318	39.4	0.12	3.7	
2010	8	8	17	35	17	0.6	36.825	4.6	45.036	9.8	17.9	11.1	7	8	222	282.5	0.22	4.2	
2010	8	8	22	54	15.7	0.92	29.71	8.8	56.892	13.3	18	11.5	5	7	218	32.7	0.31	3.9	
2010	8	9	1	2	6.6	0.74	26.829	15.7	53.97	10.8	14.1	10.6	3	4	256	188.3	0.2	3.5	
2010	8	9	19	49	22.6	0.64	33.407	2.9	48.276	4.4	14.2	5.6	7	7	175	152.2	0.16	3.5	
2010	8	9	21	39	36.7	0.35	31.577	2.7	49.475	4.2	32.6	4.8	7	7	177	86.9	0.07	3.7	
2010	8	10	23	11	46	1.26	30.877	5.9	56.452	7.4	15	0	5	6	119	103.5	0.47	3.5	
2010	8	11	9	6	45	1.2	27.067	10.5	55.71	6.6	6	0	7	7	189	58.7	0.53	3.9	
2010	8	11	17	26	19.5	1.07	37.796	5.9	57.019	5.6	14.1	9.6	7	8	204	35.9	0.4	5	
2010	8	12	20	26	25	0.59	39.657	7.7	51.809	2.8	15	0	7	7	224	350.8	0.2	3.5	
2010	8	13	7	25	21.4	0.38	39.562	3.2	50.09	8	14.1	9.6	4	5	272	207.3	0.07	3.6	
2010	8	20	10	57	30.4	1.39	33.084	6	49.667	8.1	15	9.5	7	7	122	135.3	0.44	3.5	
2010	8	27	3	17	20.9	0.26	33.991	1.9	59.353	1.3	15	0	4	5	147	94.9	0.01	3.7	
2010	8	27	19	23	48	1.16	35.46	3.9	54.485	2.6	14.1	6	18	23	86	151.1	0.46	5.9	
2010	8	28	0	29	3.9	1.23	35.465	5.7	54.473	3.4	15	8.3	17	19	86	151.8	0.49	5.2	
2010	8	28	0	46	54	0.62	39.59	10.7	54.392	3.5	21.1	0	7	7	242	260.4	0.3	4.8	
2010	9	1	19	28	3	1.29	36.359	7.5	57.274	7.5	22.9	15.7	8	9	132	119.9	0.44	3.9	
2010	9	2	0	32	45.9	0.52	32.151	1.5	55.979	3.7	14.2	5.5	6	7	96	197.4	0.15	3.7	
2010	9	4	16	52	39.9	0.4	30.894	1.8	60.561	3.4	15.2	3.9	5	6	176	143.7	0.09	4	
2010	9	4	21	15	13.9	1.31	35.432	7.8	54.481	3.8	14.1	11.1	6	8	109	152.7	0.42	3.8	
2010	9	7	2	11	3.7	0.4	27.058	4.2	54.48	1.8	15	0	7	9	226	171.7	0.17	4.9	
2010	9	8	5	30	29.7	0.96	36.981	6.4	49.529	5	14.1	9.3	7	7	158	82.7	0.31	4.2	
2010	9	8	12	33	29.7	0.42	27.784	2.4	53.079	2.8	14.2	0	4	5	208	56.4	0.13	4.5	
2010	9	14	12	40	6.7	0.75	30.314	5.4	50.688	8	14.1	13.7	5	6	159	171.1	0.21	3.5	
2010	9	15	19	57	58.7	1.48	30.812	4.5	56.827	13	14.1	13.5	6	7	139	92.2	0.43	4.2	
2010	9	16	12	57	6.5	0.64	30.76	4.6	59.692	2.3	14.1	10.3	4	6	131	164.6	0.19	3.6	
2010	9	18	13	17	7.8	0.34	29.946	5.2	51.938	3.6	14.2	12.6	5	4	167	134.9	0	3.5	
2010	9	25	22	55	29.8	0.75	35.887	7.8	53.367	3.3	14.1	7.4	10	8	146	129.4	0.19	3.6	
2010	9	26	7	28	38.6	0.44	28.282	2.5	57.546	3.1	14.6	4.6	5	6	170	167	0.11	3.9	
2010	9	27	4	26	6.6	0.42	37.717	3.2	43.467	4.4	14.1	7.7	8	10	250	210.5	0.16	3.5	
2010	9	27	5	53	42.5	0.34	26.702	5.6	53.532	6.8	45.5	5.6	6	6	270	183.6	0.07	3.5	
2010	9	27	11	22	44.6	1.4	29.753	4.4	51.75	4.5	15	8.5	19	26	109	107.8	0.67	6	5.9
2010	9	27	15	5	48.1	0.35	29.729	2.5	51.594	2.8	35.4	4.7	7	6	130	99.9	0.06	3.8	

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	Dmin	Rms	M <sub>L</sub>	Mb
2010	9	28	9	29	1.8	0.5	29.097	4	60.1	2.3	37.9	3.7	8	9	196	86.9	0.17	4.3	
2010	9	28	22	53	27.8	0.46	29.766	3.3	51.837	3.3	14.1	8.4	4	5	167	112.8	0.13	3.5	
2010	9	29	5	48	15.8	0.46	29.748	3.1	51.707	7.5	33.4	9.9	8	8	142	105.6	0.17	3.5	
2010	9	30	15	11	59.5	0.48	35.776	7.8	62.421	6.3	14.1	0	4	4	261	306.4	0.16	4.1	





**286 events during 2010/07/01 to 2010/09/30**

**Magnitude**

● $2.5 \leq M < 3$	● $3 \leq M < 4$	● $4 \leq M < 5$	● $5 \leq M < 6$	● $6 \leq M < 7$
N = 96	N = 165	N = 17	N = 7	N = 1

The events are located at:

*Broadband Iranian National Seismic Network Center (BIN)*

More information available at: <http://www.iiees.ac.ir/EQsearch/EventQuery.aspx>



*International Institute of Earthquake Engineering and Seismology (IIEES)*