

# *Seismological Bulletin*

*Broadband Iranian National Seismic Network Center  
(BIN)*

*January to March*

*2010*

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## 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).

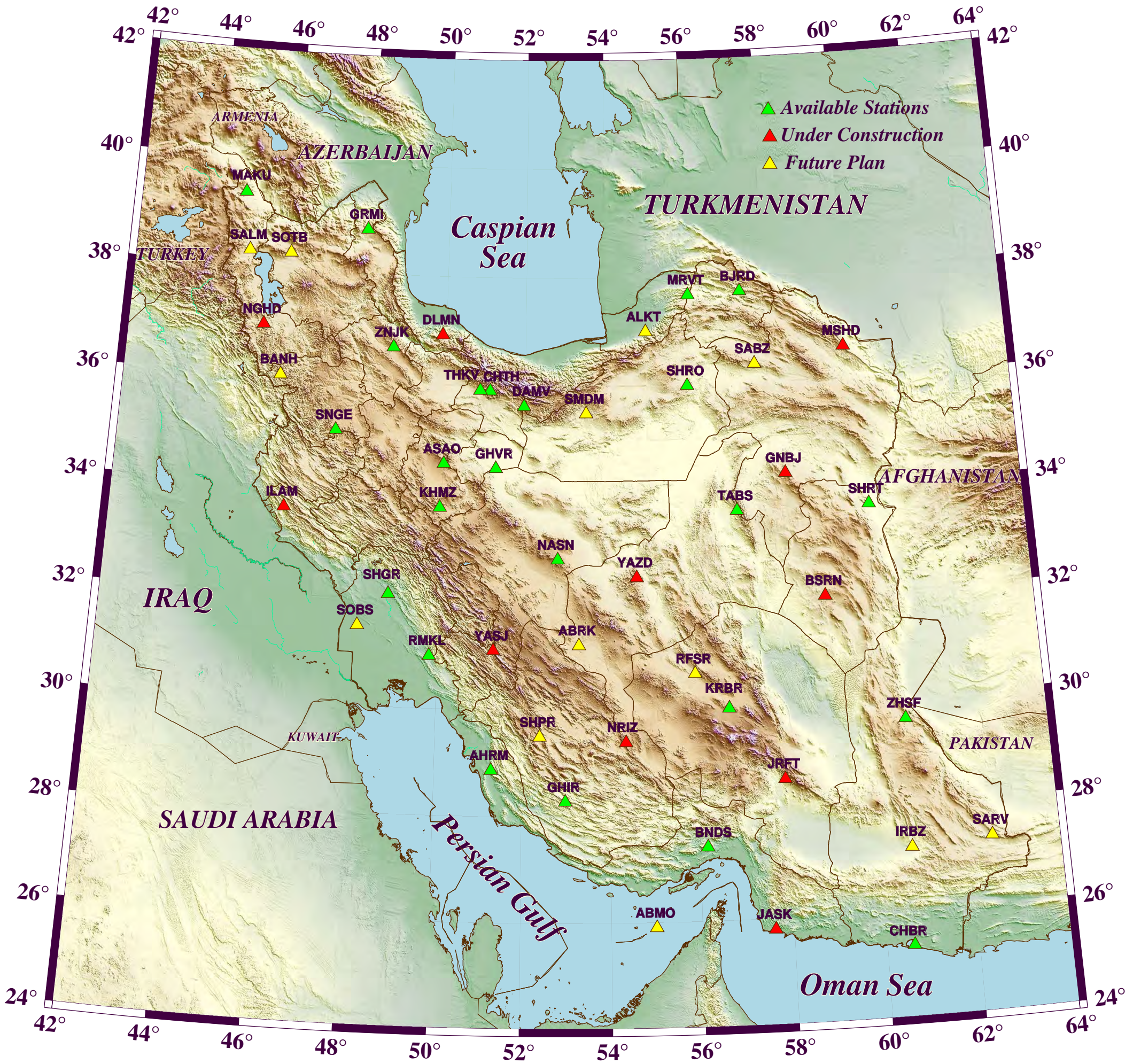
STATION	LATITUDE	LONGITUDE	ALTITUDE(m)	NAME
ASAO	3432.88N	5001.52E	2217	Ashtian
BJRD	3741.98N	5724.49E	1337	Bojnoord
BNDS	2723.96N	5610.28E	1500	Bandar Abbas
CHTH	3554.48N	5107.56E	2250	Charan
DAMV	3537.82N	5158.26E	2300	Damavand
GHIR	2817.13N	5259.20E	1200	Ghir
GHVR	3428.80N	5114.72E	0927	Qom
GRMI	3848.59N	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(mpulsive)  
P: Polarity ( C for compression, D for dilatation )  
HR: Hour  
MN: Minute  
SECON: Seconds  
TRES: Residual (seconds)  
CODA: Signal duration in seconds  
AMPL: Ground Amplitude (0.5\*(peak to peak)), (nm) at period PERI  
PERI: Period where amplitude is measured  
BAZ: Back azimuth (station to event)  
ARES: Back azimuth residual  
VELO: Apparent phase velocity (km/sec)  
WT: Weight of phase in the location  
\*: An 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)**

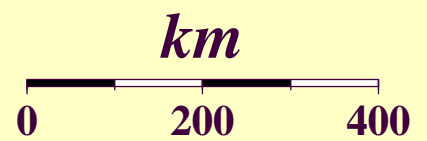
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|  Available Stations |  Under Construction |  Future Plan |
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More information available at :

[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)



**January 1 2010 Hour: 2:34 54.7 Lat: 40.58N Lon: 51.79E Depth: 15 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
GRMI	BZ	388	241	EPn		235	50.28	-0.3							1.0
MRVT	BZ	493	130	EPn		236	3.15	-0.4							0.9
MRVT	BN	493	130	AML		236	51.94			597	0.5				
MRVT	BE	493	130	AML		236	52.92			360	0.2				
CHTH	BZ	521	187	EPn		236	6.84	-0.4							0.9
DAMV	BZ	549	178	EPn		236	10.94	0.2							0.9
DAMV	BN	549	178	AML		237	9.05			709	0.3				
MAKU	BZ	622	260	EPn		236	20.08	0.3							0.8
SHRD	BZ	627	143	EPn		236	20.84	0.6							0.8
GHVR	BZ	678	184	EPn		236	26.96	0.4							0.8
ASAO	BZ	687	194	EPn		236	27.96	0.1							0.8
SNGE	BZ	723	214	EPn		236	32.27	-0.1							0.7
NASN	BZ	868	174	EPn		236	50.21	-0.1							0.6
TABS	BZ	902	147	EPn		236	54.15	-0.3							0.6

**January 2 2010 Hour: 22:13 12.8 Lat: 36.77N Lon: 59.56E Depth: 40F Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.6 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	217	299	EPg		2213	47.17	-0.8							1.0
BJRD	BN	217	299	ESg		2214	14.27	0.7							1.0
BJRD	BN	217	299	AML		2214	21.64			695	1.3				
BJRD	BE	217	299	AML		2214	24.76			1062	1.3				
MRVT	BZ	324	289	EPn		2213	58.72	0.3							0.9
MRVT	BN	324	289	AML		2214	51.51			172	0.7				
MRVT	BE	324	289	AML		2214	52.28			138	0.9				
SHRD	BZ	329	256	EPn		2213	58.47	-0.7							0.9
SHRT	BZ	353	169	EPn		2214	2.47	0.5							0.9
TABS	BZ	411	213	EPn		2214	9.39	0.1							0.9

**January 6 2010 Hour: 14:17 45.6 Lat: 27.49N Lon: 55.19E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.7ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	234	293	EPg		1418	23.90	0.0							1.0
GHIR	BN	234	293	ESg		1418	51.97	0.0							1.0
GHIR	BE	234	293	AML		1419	9.68			3649	0.6				
GHIR	BN	234	293	AML		1419	15.94			5922	0.6				
KRBR	BZ	316	29	EPn		1418	32.97	0.1							1.0
KRBR	BE	316	29	AML		1419	21.55			2975	0.5				
KRBR	BN	316	29	AML		1419	27.17			2080	0.6				
CHBR	BZ	567	110	EPn		1419	3.72	0.0							0.8
ZHSF	BZ	595	65	EPn		1419	7.29	-0.1							0.7
TABS	BZ	708	15	EPn		1419	20.99	-0.3							0.7
SHGR	BZ	802	311	EPn		1419	33.05	0.2							0.6
SHRT	BZ	840	34	EPn		1419	37.71	0.0							0.6

**January 7 2010 Hour: 3:17 5.4 Lat: 30.66N Lon: 50.32E Depth: 34 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
SHGR	BZ	216	318	EPg		317	40.16	0.0							1.0
SHGR	BN	216	318	ESg		318	5.58	0.0							1.0
SHGR	BN	216	318	AML		318	12.11			390	0.6				
SHGR	BE	216	318	AML		318	15.04			435	0.4				
NASN	BZ	334	44	EPn		317	53.10	0.0							0.9
GHIR	BZ	369	135	EPn		317	57.11	0.0							0.9
GHIR	BN	369	135	AML		318	41.12			98	0.4				
GHIR	BE	369	135	AML		318	49.04			63	0.6				
SNGE	BZ	565	331	EPN5		318	21.64	0.0							0.8
SNGE	BN	565	331	AML		319	22.30			50	0.6				
DAMV	BZ	572	15	EPn		318	22.53	-0.1							0.8

**January 9 2010 Hour: 8:27 30.8 Lat: 29.86N Lon: 51.14E Depth: 14 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
GHIR	BZ	251	134	EPn		828	9.64	-0.1							1.0
GHIR	BN	251	134	AML		829	1.08			157	0.7				
GHIR	BE	251	134	AML		829	5.36			244	0.7				
SHGR	BZ	335	319	EPn		828	20.16	0.1							0.9
SHGR	BE	335	319	AML		829	0.71			244	0.6				
SHGR	BN	335	319	AML		829	9.29			167	0.6				
NASN	BZ	363	26	EPn		828	23.43	-0.5							0.9
ASAO	BZ	531	349	EPn		828	44.60	0.0							0.8
TABS	BZ	705	52	EPn		829	7.07	0.9							0.7

**January 10 2010 Hour: 6:52 23.7 Lat: 35.70N Lon: 48.96E Depth: 14 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
ZNJK	BZ	110	347	EPg		652	42.54	0.1							1.0
ZNJK	BE	110	347	ESg		652	56.41	0.2							1.0
SNGE	BZ	161	246	EPg		652	50.05	-0.5							1.0
SNGE	BN	161	246	AML		653	11.28			4894	0.5				
CHTH	BZ	197	83	EPg		652	55.63	-0.6							1.0
GHVR	BZ	248	122	EPg		653	4.24	0.0							1.0
GHVR	BN	248	122	ESg		653	33.95	0.1							1.0
GHVR	BN	248	122	AML		653	45.25			505	0.8				
DAMV	BZ	273	91	EPn		653	5.36	-0.1							1.0
DAMV	BN	273	91	AML		653	42.39			739	0.4				
DAMV	BE	273	91	AML		653	43.41			839	0.5				
SHGR	BZ	399	182	EPn		653	21.56	0.7							0.9
SHGR	BN	399	182	AML		654	27.07			180	0.7				
MRVT	BZ	673	69	EPn		653	55.19	0.2							0.7
TABS	BZ	781	105	EPn		654	8.92	0.4							0.6
SHRT	BZ	1062	99	EPn		654	43.62	0.2							0.4

**January 10 2010 Hour: 15:20 33.3 Lat: 27.05N Lon: 55.50E Depth: 17 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
KRBR	BZ	348	20	EPn		1521	24.34	0.2							1.0
KRBR	BN	348	20	AML		1522	13.53			436	0.6				
KRBR	BE	348	20	AML		1522	19.59			303	0.5				
CHBR	BZ	523	107	EPn		1521	45.59	0.1							0.9
CHBR	BE	523	107	AML		1523	12.29			27	0.5				
ZHSF	BZ	590	60	EPn		1521	53.97	-0.2							0.8
ZHSF	BE	590	60	ESg		1523	17.54	0.0							0.8
TABS	BZ	749	12	EPn		1522	13.57	-0.2							0.7
SHGR	BZ	858	312	EPn		1522	27.09	-0.1							0.6

**January 10 2010 Hour: 17:17 48.4 Lat: 27.02N Lon: 55.46E Depth: 15 Agency: INS Local**  
**Magnitudes: 4.0ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	352	21	EPn		1718	40.12	0.1							1.0
KRBR	BE	352	21	AML		1719	18.45			670	0.7				
KRBR	BN	352	21	AML		1719	22.35			643	0.7				
CHBR	BZ	526	106	EPn		1719	1.30	0.0							0.9
ZHSF	BZ	595	60	EP		1719	10.09	0.0							0.8
ZHSF	BN	595	60	AML		1720	38.34			24	0.6				
NASN	BZ	689	339	EPn		1719	21.96	0.0							0.7
TABS	BZ	752	12	EPn		1719	29.48	0.0							0.7
SHGR	BZ	856	313	EPn		1719	42.75	0.4							0.6
SHRT	BZ	869	31	EPn		1719	43.93	-0.1							0.6
ASAO	BZ	983	329	EPn		1719	57.64	-0.7							0.5

**January 13 2010 Hour: 10:22 13.0 Lat: 26.67N Lon: 53.41E Depth: 39 Agency: INS Local**  
**Magnitudes: 4.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	184	347	EPg		1022	43.07	0.0							1.0
GHIR	BE	184	347	AML		1023	13.33			5389	0.7				
KRBR	BZ	493	41	EPn		1023	20.05	0.1							0.8
KRBR	BN	493	41	AML		1024	21.72			343	0.5				
NASN	BZ	682	355	EPn		1023	43.61	0.2							0.7
NASN	BN	682	355	AML		1024	53.99			133	0.5				
NASN	BE	682	355	AML		1024	54.13			151	0.7				
CHBR	BZ	717	98	EPn		1023	47.47	0.0							0.7
ZHSF	BZ	794	64	EPn		1023	57.03	-0.1							0.6
TABS	BZ	853	24	EPn		1024	3.95	-0.4							0.6
GHVR	BZ	891	347	EPn		1024	9.42	0.3							0.5
ASAO	BZ	932	340	EPn		1024	14.37	0.0							0.5
DAMV	BZ	1003	353	EPn		1024	23.12	-0.1							0.4
SHRT	BZ	1019	39	EPn		1024	24.88	-0.1							0.4
SNGE	BZ	1099	330	EPn		1024	34.55	-0.5							0.4

**January 13 2010 Hour: 15:52 26.3 Lat: 28.25N Lon: 56.37E Depth: 14 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
KRBR	BZ	196	11	EPg		1552	58.67	0.0							1.0
KRBR	BN	196	11	ESg		1553	22.26	0.0							1.0
KRBR	BN	196	11	AML		1553	28.79			1097	0.7				
KRBR	BE	196	11	AML		1553	30.77			924	0.5				
GHIR	BZ	332	271	EPn		1553	15.31	0.0							0.9
GHIR	BN	332	271	AML		1554	25.47			214	0.5				
CHBR	BZ	503	125	EPn		1553	36.43	0.0							0.8
CHBR	BE	503	125	AML		1554	29.01			70	0.4				
CHBR	BN	503	125	AML		1554	29.37			107	0.4				
TABS	BZ	603	7	EPn		1553	48.99	0.0							0.7
NASN	BZ	609	327	EPn		1553	50.08	0.1							0.7

**January 14 2010 Hour: 0:51 59.3 Lat: 29.73N Lon: 50.46E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	293	122	EPn		052	43.45	0.0							1.0
GHIR	BN	293	122	AML		053	34.71			321	0.4				
GHIR	BE	293	122	AML		053	39.25			499	0.6				
SHGR	BZ	308	329	EPn		052	45.03	-0.1							1.0
SHGR	BN	308	329	AML		053	42.84			480	0.5				
SHGR	BE	308	329	AML		053	52.64			475	0.6				
NASN	BZ	408	33	EPn		052	57.71	-0.2							0.9
ASAO	BZ	536	356	EPn		053	14.07	0.3							0.8
ASAO	BN	536	356	AML		054	12.48			37	0.5				
KRBR	BZ	609	86	EPn		053	22.96	0.1							0.8
KRBR	BE	609	86	AML		054	29.42			29	0.8				
KRBR	BN	609	86	AML		054	30.32			41	0.6				

**January 16 2010 Hour: 1:27 20.1 Lat: 37.34N Lon: 48.52E Depth: 14 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
ZNJK	BZ	76	169	EPg		127	32.94	-0.5							1.0
ZNJK	BE	76	169	ESg		127	43.27	0.1							1.0
SNGE	BZ	271	203	EPn		128	1.60	0.0							1.0
SNGE	BN	271	203	ESg		128	36.62	0.0							1.0
SNGE	BN	271	203	AML		128	44.50			726	1.0				
CHTH	BZ	282	124	EPn		128	2.73	-0.3							1.0
CHTH	BN	282	124	ESg		128	39.74	-0.1							1.0
CHTH	BN	282	124	AML		128	44.76			626	0.4				
ASAO	BZ	339	156	EPn		128	10.43	0.4							0.9
DAMV	BZ	363	121	EPn		128	13.19	0.1							0.9



DAMV	BN	363	121	AML	129	5.10			350	0.6					
DAMV	BE	363	121	AML	129	6.39			290	0.8					
GHVR	BZ	402	141	EPn	128	18.08	0.4							0.9	
GHVR	BN	402	141	AML	129	24.49			380	0.6					
GHVR	BE	402	141	AML	129	25.93			400	0.6					
NASN	BZ	638	141	EPn	128	47.35	0.0							0.7	

**January 16 2010 Hour: 20:23 38.7 Lat: 32.56N Lon: 48.44E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.9ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	61	145	EPg		2023	49.46	0.0							1.0
SHGR	BN	61	145	AML		2024	4.54		69956	0.3					
SHGR	BE	61	145	AML		2024	7.84		67017	0.8					
ASAO	BZ	265	33	EPn		2024	19.66	0.1							1.0
ASAO	BE	265	33	ESg		2024	53.76	0.0							1.0
ASAO	BE	265	33	AML		2025	2.93		5788	1.3					
SNGE	BZ	298	341	EPn		2024	23.74	0.2							1.0
GHVR	BZ	337	50	EPn		2024	28.44	0.2							0.9
GHVR	BE	337	50	AML		2025	24.48		3628	3.5					
GHVR	BN	337	50	AML		2025	29.00		3320	0.2					
NASN	BZ	411	85	EPn		2024	37.30	-0.4							0.9
ZNJK	BZ	456	3	EPn		2024	42.86	-0.4							0.8
KRBR	BZ	843	108	EPn		2025	31.88	0.6							0.6

**January 16 2010 Hour: 21:26 18.7 Lat: 32.35N Lon: 48.22E Depth: 38 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
SHGR	BZ	61	116	EPg		2126	30.20	-0.2							1.0
SHGR	BE	61	116	ESg		2126	39.20	0.2							1.0
SHGR	BN	61	116	AML		2126	49.67		6011	0.2					
SHGR	BE	61	116	AML		2126	53.17		5437	0.8					
ASAO	BZ	296	34	EPn		2127	1.02	-0.1							1.0
ASAO	BN	296	34	AML		2127	40.47		522	0.2					
ASAO	BE	296	34	AML		2127	42.13		400	0.2					
SNGE	BZ	315	345	EPn		2127	3.56	0.2							1.0
GHVR	BZ	368	49	EPn		2127	9.81	0.0							0.9
GHVR	BN	368	49	AML		2127	51.73		238	0.6					
NASN	BZ	434	82	EPn		2127	18.42	0.1							0.9
NASN	BN	434	82	AML		2128	5.15		129	0.5					

**January 17 2010 Hour: 9:34 21.5 Lat: 32.55N Lon: 48.43E Depth: 15 Agency: INS Local**  
**Magnitudes: 4.1ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	60	144	EPg		934	31.96	-0.1							1.0
SHGR	BE	60	144	AML		934	50.16		10783	0.5					
KHMZ	BZ	195	47	EPg		934	53.57	-0.1							1.0
KHMZ	BE	195	47	AML		935	20.95		2088	0.8					
KHMZ	BN	195	47	AML		935	21.58		2161	0.6					
ASAO	BZ	267	33	EPn		935	2.98	0.5							1.0
ASAO	BN	267	33	AML		935	44.98		1046	0.7					
ASAO	BE	267	33	AML		935	46.46		1103	0.4					
SNGE	BZ	300	341	EPn		935	6.78	0.3							1.0
GHVR	BZ	338	50	EPn		935	11.86	0.7							0.9
GHVR	BE	338	50	AML		936	9.06		636	0.5					
NASN	BZ	412	85	EPn		935	20.50	0.0							0.9
CHTH	BZ	448	33	EPn		935	24.17	-0.8							0.9
ZNJK	BZ	458	3	EPn		935	25.74	-0.5							0.8
DAMV	BZ	473	43	EPn		935	27.35	-0.7							0.8
MRVT	BZ	899	49	EPn		936	21.41	0.6							0.5

**January 18 2010 Hour: 3:13 41.1 Lat: 32.25N Lon: 46.94E Depth: 46 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
SHGR	BZ	177	95	EPg		314	10.03	0.0							1.0
SHGR	BE	177	95	ESg		314	31.23	0.0							1.0
SHGR	BE	177	95	AML		314	34.19			1799	0.8				
SHGR	BN	177	95	AML		314	35.93			1220	0.7				
SNGE	BZ	318	7	EPn		314	25.51	0.0							0.9
SNGE	BN	318	7	AML		315	9.27			446	0.5				
KHMZ	BZ	328	59	EPn		314	26.70	0.0							0.9
ASAO	BZ	384	48	EPn		314	33.68	-0.1							0.9
ASAO	BE	384	48	ESg		315	26.37	0.0							0.9
ASAO	BN	384	48	AML		315	30.39			386	0.6				
ASAO	BE	384	48	AML		315	32.51			285	0.6				
GHVR	BZ	471	57	EPn		314	44.49	0.1							0.8
GHVR	BE	471	57	AML		315	54.74			188	0.7				
ZNJK	BZ	516	18	EPn		314	50.23	0.1							0.8
NASN	BZ	555	82	EPn		314	55.10	0.0							0.8

**January 19 2010 Hour: 18:49 13.1 Lat: 29.65N Lon: 51.34E Depth: 14F 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
GHIR	BZ	221	133	EPg		1849	49.28	0.0							1.0
GHIR	BN	221	133	AML		1850	21.01			1269	0.4				
GHIR	BE	221	133	AML		1850	24.99			1775	0.1				
NASN	BZ	376	21	EPn		1850	7.84	0.0							0.9
NASN	BN	376	21	AML		1851	4.70			90	0.4				
KRBR	BZ	525	85	EPn		1850	26.52	0.1							0.8
KRBR	BN	525	85	AML		1851	25.15			259	0.8				
KRBR	BE	525	85	AML		1851	25.68			203	0.9				
DAMV	BZ	666	5	EPn		1850	43.62	-0.2							0.7
SNGE	BZ	711	329	EPn		1850	49.45	0.1							0.7

**January 20 2010 Hour: 5:20 5.2 Lat: 35.87N Lon: 52.87E Depth: 14 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
DAMV	BZ	85	252	EPg		520	19.90	-0.1							1.0
DAMV	BE	85	252	ESg		520	30.81	0.0							1.0
DAMV	BE	85	252	AML		520	35.36			11365	0.3				
DAMV	BN	85	252	AML		520	37.60			8398	0.5				
CHTH	BZ	157	272	EPg		520	31.45	0.0							1.0
GHVR	BZ	213	224	EPg		520	39.86	-0.4							1.0
GHVR	BE	213	224	ESg		521	5.89	0.1							1.0
NASN	BZ	341	181	EPn		520	55.57	0.0							0.9
KHMZ	BZ	355	229	EPn		520	57.57	0.3							0.9
KHMZ	BE	355	229	AML		521	48.33			691	0.4				
KHMZ	BN	355	229	AML		521	52.27			563	0.6				

**January 20 2010 Hour: 5:26 23.1 Lat: 35.88N Lon: 52.79E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DAMV	BZ	80	250	EPg		526	36.38	-0.6							1.0
DAMV	BN	80	250	ESg		526	47.29	0.2							1.0
DAMV	BN	80	250	AML		526	50.03			2681	0.3				
CHTH	BZ	151	272	EPg		526	48.39	0.1							1.0
GHVR	BZ	210	223	EPg		526	57.45	-0.1							1.0
GHVR	BN	210	223	AML		527	28.26			1920	0.3				
ASAO	BZ	292	240	EPn		527	7.41	0.2							1.0
KHMZ	BZ	352	228	EPn		527	14.81	0.3							0.9
KHMZ	BE	352	228	AML		528	4.76			203	0.4				
KHMZ	BN	352	228	AML		528	17.72			183	0.5				

**January 22 2010 Hour: 4:43 12.2 Lat: 35.59N Lon: 57.68E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHRD	BZ	158	288	EPg		443	38.36	0.0							1.0
TABS	BZ	221	194	EPg		443	48.41	-0.1							1.0
TABS	BN	221	194	AML		444	32.94			834	0.7				
MRVT	BZ	270	329	EPn		443	53.50	0.0							1.0
NASN	BZ	545	237	EPn		444	28.38	0.5							0.8
NASN	BN	545	237	AML		445	58.72			49	0.6				
NASN	BE	545	237	AML		446	7.96			50	0.6				
CHTH	BZ	594	275	EPn		444	33.87	0.0							0.7
GHVR	BZ	600	260	EPn		444	34.21	-0.2							0.7
GHVR	BN	600	260	AML		446	20.44			68	0.6				
GHVR	BE	600	260	AML		446	37.34			72	0.6				
KHMZ	BZ	736	256	EPn		444	51.43	-0.1							0.6

**January 26 2010 Hour: 1:52 25.6 Lat: 35.76N Lon: 52.65E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DAMV	BZ	63	257	EPg		152	36.53	-0.4							1.0
DAMV	BE	63	257	AML		152	49.26			3721	0.3				
DAMV	BN	63	257	AML		152	53.68			2748	0.4				
CHTH	BZ	139	277	EPg		152	48.47	-0.4							1.0
GHVR	BZ	191	222	EPg		152	57.09	0.0							1.0
GHVR	BE	191	222	AML		153	31.02			1869	0.5				
GHVR	BN	191	222	AML		153	31.70			1219	0.4				
SHRD	BZ	305	84	EPn		153	11.13	-0.1							1.0
SHRD	BZ	305	84	ESg		153	51.28	-0.1							1.0
KHMZ	BZ	333	228	EPn		153	15.24	0.4							0.9
KHMZ	BN	333	228	AML		154	1.44			120	0.5				
KHMZ	BE	333	228	AML		154	6.21			145	0.4				
ZNJK	BZ	371	287	EPn		153	20.21	0.7							0.9
MRVT	BZ	373	55	EPn		153	19.67	0.1							0.9

**January 26 2010 Hour: 3:17 0.3 Lat: 30.82N Lon: 57.14E Depth: 17 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	99	202	EPg		317	17.40	0.0							1.0
TABS	BZ	314	360	EPn		317	46.83	0.0							1.0
TABS	BN	314	360	ESg		318	28.65	0.0							1.0
TABS	BN	314	360	AML		318	38.91			1221	0.6				
TABS	BE	314	360	AML		318	42.68			747	0.6				
NASN	BZ	466	299	EPn		318	5.70	-0.2							0.8
NASN	BN	466	299	AML		319	12.76			184	0.4				
GHVR	BZ	686	308	EPn		318	33.28	0.3							0.7
GHVR	BN	686	308	AML		320	29.06			59	0.6				
GHVR	BE	686	308	AML		320	29.50			66	0.7				

**January 29 2010 Hour: 1:19 18.7 Lat: 28.02N Lon: 55.89E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	234	21	EPg		119	56.89	-0.2							1.0
KRBR	BN	234	21	ESg		120	25.32	0.2							1.0
KRBR	BN	234	21	AML		120	27.86			706	0.5				
KRBR	BE	234	21	AML		120	29.67			394	0.4				
GHIR	BZ	287	277	EPn		120	2.21	0.2							1.0
GHIR	BN	287	277	ESg		120	39.49	0.0							1.0
GHIR	BN	287	277	AML		120	57.14			284	0.5				
GHIR	BE	287	277	AML		121	1.00			230	0.6				
NASN	BZ	607	332	EPn		120	41.41	-0.6							0.7
TABS	BZ	635	10	EPn		120	45.77	0.4							0.7

**January 29 2010 Hour: 20:50 19.4 Lat: 28.07N Lon: 57.62E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.5 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	228	339	EPn		2050	55.03	-0.6							1.0
KRBR	BN	228	339	AML		2051	30.08			783	0.3				
KRBR	BE	228	339	AML		2051	30.71			730	0.5				
ZHSF	BZ	352	60	EPn		2051	11.46	0.6							0.9
CHBR	BZ	395	133	EPn		2051	15.59	-0.4							0.9
GHIR	BZ	456	274	EPn		2051	24.31	0.6							0.8
GHIR	BN	456	274	AML		2052	15.15			103	0.4				

**January 30 2010 Hour: 18:43 44.8 Lat: 31.86N Lon: 56.33E Depth: 16 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
KRBR	BZ	212	169	EPg		1844	19.48	-0.3							1.0
TABS	BZ	212	20	EPg		1844	19.70	0.1							1.0
KRBR	BE	212	169	AML		1844	47.82			7653	0.8				
TABS	BN	212	20	AML		1844	54.72			878	0.9				
KRBR	BN	212	169	ESg		1844	45.56	0.2							1.0
KRBR	BN	212	169	AML		1844	48.68			8318	1.0				
NASN	BZ	347	288	EPn		1844	35.58	-0.1							0.9
NASN	BN	347	288	AML		1845	31.41			300					
NASN	BE	347	288	AML		1845	34.66			272					
ZHSF	BZ	493	119	EPn		1844	53.62	-0.1							0.8
ZHSF	BE	493	119	AML		1846	17.00			97	0.2				
GHVR	BZ	556	303	EPn		1845	1.61	0.2							0.8
GHVR	BE	556	303	AML		1846	32.41			90	0.1				

**February 1 2010 Hour: 22:54 37.2 Lat: 28.22N Lon: 51.48E 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
GHIR	BZ	148	87	EPg		2255	1.89	0.0							1.0
GHIR	BN	148	87	ESg		2255	19.86	0.0							1.0
GHIR	BN	148	87	AML		2255	25.87			1860	0.6				
GHIR	BE	148	87	AML		2255	29.17			2266	0.7				
NASN	BZ	523	14	EPn		2255	50.23	0.1							0.8
KRBR	BZ	550	68	EPn		2255	53.42	0.0							0.8
KRBR	BE	550	68	AML		2256	56.43			69	0.6				
ASAO	BZ	715	349	EPn		2256	13.79	-0.1							0.7
TABS	BZ	807	40	EPn		2256	25.10	-0.1							0.6

**February 2 2010 Hour: 10: 5 39.8 Lat: 37.91N Lon: 46.98E 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
ZNJK	BZ	205	132	EPn		10 6	12.82	-0.3							1.0
ZNJK	BN	205	132	ESg		10 6	38.09	0.0							1.0
ZNJK	BN	205	132	AML		10 6	41.72			426	0.3				
ZNJK	BE	205	132	AML		10 6	44.61			444	0.6				
MAKU	BZ	256	309	EPn		10 6	19.38	0.0							1.0
MAKU	BN	256	309	AML		10 6	59.41			196	0.6				
SNGE	BZ	315	174	EPn		10 6	26.70	0.0							1.0
CHTH	BZ	431	120	EPn		10 6	41.43	0.2							0.9
ASAO	BZ	463	143	EPn		10 6	45.56	0.4							0.8

**February 2 2010 Hour: 10:16 29.1 Lat: 37.92N Lon: 46.98E Depth: 14 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
ZNJK	BZ	205	132	EPn		1017	2.28	-0.2							1.0
ZNJK	BN	205	132	ESg		1017	27.41	-0.2							1.0
ZNJK	BN	205	132	AML		1017	31.42			2611	0.5				
ZNJK	BE	205	132	AML		1017	33.70			2576	0.7				
MAKU	BZ	256	309	EPn		1017	8.56	-0.1							1.0
MAKU	BN	256	309	AML		1017	49.18			1811	0.6				

SNGE	BZ	316	174	EPn		1017	16.15	-0.1									1.0
CHTH	BZ	432	120	EPn		1017	30.93	0.3									0.9
CHTH	BN	432	120	AML		1018	35.67			316	0.7						
ASAO	BZ	464	143	EPn		1017	34.78	0.2									0.8
KHMZ	BZ	537	149	EPn		1017	44.05	0.4									0.8
GHVR	BZ	541	134	EPn		1017	44.16	0.1									0.8

**February 2 2010 Hour: 11:26 51.0 Lat: 38.00N Lon: 47.00E 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
ZNJK	BZ	210	134	EPg		1127	25.34	-0.2							1.0
ZNJK	BE	210	134	AML		1127	54.02			539	0.3				
ZNJK	BN	210	134	AML		1127	54.62			665	0.3				
MAKU	BZ	252	307	EPg		1127	32.10	0.0							1.0
MAKU	BN	252	307	AML		1128	11.05			168	0.5				
SNGE	BZ	324	174	EPn		1127	39.08	0.0							0.9
ASAO	BZ	470	144	EPn		1127	57.45	0.2							0.8
GHVR	BZ	546	134	EPn		1128	6.73	0.2							0.8

**February 2 2010 Hour: 13:46 24.0 Lat: 37.90N Lon: 46.90E Depth: 14 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZNJK	BZ	209	130	EPN5		1346	57.78	-0.1							1.0
ZNJK	BN	209	130	ESg		1347	23.40	-0.3							1.0
ZNJK	BN	209	130	AML		1347	27.69			1102	0.8				
ZNJK	BE	209	130	AML		1347	28.79			987	0.5				
MAKU	BZ	251	311	EPg		1347	5.10	0.0							1.0
MAKU	BN	251	311	ESg		1347	34.97	-0.1							1.0
MAKU	BE	251	311	AML		1347	42.25			227	0.5				
CHTH	BZ	437	119	EPn		1347	26.42	0.2							0.9
ASAO	BZ	466	142	EPn		1347	30.19	0.3							0.8
DAMV	BZ	518	118	EPn		1347	36.42	0.1							0.8

**February 3 2010 Hour: 22:39 45.2 Lat: 28.59N Lon: 57.01E Depth: 14 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
BNDS	BZ	155	212	EPg		2240	10.99	0.0							1.0
BNDS	BE	155	212	AML		2240	33.41			7350	0.6				
BNDS	BN	155	212	AML		2240	40.32			6189	0.9				
KRBR	BZ	156	351	EPg		2240	11.09	-0.2							1.0
KRBR	BE	156	351	AML		2240	42.79			2954	0.5				
KRBR	BN	156	351	AML		2240	43.48			4380	0.3				
GHIR	BZ	396	266	EPn		2240	42.09	0.0							0.9
GHIR	BN	396	266	AML		2241	52.92			414	0.3				
GHIR	BE	396	266	AML		2242	4.09			340	0.6				
TABS	BZ	561	1	EPn		2241	2.87	0.2							0.8
NASN	BZ	617	320	EPn		2241	9.94	0.2							0.7

**February 4 2010 Hour: 19:53 28.3 Lat: 36.69N Lon: 45.35E Depth: 16F Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SNGE	BZ	253	134	EPn		1954	7.17	-0.2							1.0
SNGE	BN	253	134	ESg		1954	39.87	0.0							1.0
SNGE	BN	253	134	AML		1954	45.54			898	0.6				
ZNJK	BZ	299	89	EPn		1954	12.88	-0.2							1.0
ZNJK	BN	299	89	AML		1954	57.78			143	0.6				
ZNJK	BE	299	89	AML		1955	3.93			133	0.7				
MAKU	BZ	302	349	EPn		1954	13.47	0.0							1.0
GRMI	BZ	326	43	EPn		1954	16.32	0.0							0.9
ASAO	BZ	486	118	EPn		1954	37.17	0.8							0.8
ASAO	BE	486	118	AML		1955	59.09			59	0.7				
ASAO	BN	486	118	AML		1956	11.33			44	0.7				
KHMZ	BZ	532	127	EPn		1954	41.87	-0.3							0.8
KHMZ	BE	532	127	AML		1956	12.20			47	0.6				

KHMZ BN 532 127 AML 1956 14.43 61 0.7

**February 5 2010 Hour: 2:22 50.9 Lat: 30.96N Lon: 50.19E Depth: 18 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	183	314	EPg		223	21.05	0.0							1.0
SHGR	BE	183	314	ESg		223	43.09	0.0							1.0
SHGR	BE	183	314	AML		223	50.42			1348	0.5				
SHGR	BN	183	314	AML		223	52.00			1598	0.8				
KHMZ	BZ	309	356	EPn		223	37.00	0.2							1.0
KHMZ	BE	309	356	AML		224	27.43			259	0.6				
KHMZ	BN	309	356	AML		224	32.14			178	0.5				
NASN	BZ	321	50	EPn		223	38.57	0.2							0.9
GHIR	BZ	402	137	EPn		223	48.20	0.0							0.9
GHIR	BN	402	137	AML		224	38.78			169	0.4				
GHIR	BE	402	137	AML		225	1.98			241	0.7				
DAMV	BZ	544	17	EPn		224	5.74	-0.3							0.8
CHTH	BZ	555	9	EPn		224	7.18	-0.3							0.8

**February 5 2010 Hour: 5:57 7.3 Lat: 27.55N Lon: 52.22E 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	111	42	EPg		557	25.95	-0.2							1.0
GHIR	BN	111	42	ESg		557	39.95	0.1							1.0
GHIR	BN	111	42	AML		557	43.84			3194	0.5				
GHIR	BE	111	42	AML		557	44.63			2985	0.6				
BNDS	BZ	391	92	EPn		558	3.82	0.1							0.9
KRBR	BZ	519	58	EPn		558	19.70	0.0							0.8
KRBR	BN	519	58	AML		559	21.15			61	0.4				
KRBR	BE	519	58	AML		559	49.19			69	0.7				
SHGR	BZ	604	328	EPn		558	30.02	0.0							0.7
SHGR	BN	604	328	Sn		559	30.49	0.1							0.7
SHGR	BN	604	328	AML		559	38.94			94	0.8				
SHGR	BE	604	328	AML		6 0	19.30			65	0.6				
SNGE	BZ	956	332	EPN5		559	13.58	-0.5							0.5

**February 7 2010 Hour: 18:40 6.1 Lat: 28.64N Lon: 51.46E 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	155	104	EPg		1840	31.67	-0.1							1.0
GHIR	BE	155	104	ESg		1840	50.61	0.1							1.0
GHIR	BN	155	104	AML		1840	54.32			1071	0.4				
GHIR	BE	155	104	AML		1840	54.93			1235	0.5				
NASN	BZ	479	15	EPn		1841	13.52	-0.1							0.8
NASN	BN	479	15	Sn		1842	2.84	0.0							0.8
KRBR	BZ	536	73	EPn		1841	20.59	0.0							0.8
KRBR	BN	536	73	AML		1842	19.91			23	0.5				
KRBR	BE	536	73	AML		1842	44.84			19	0.6				
ASAO	BZ	669	349	EPn		1841	37.26	0.1							0.7
SNGE	BZ	815	333	EPn		1841	55.25	0.1							0.6

**February 7 2010 Hour: 21:20 22.2 Lat: 28.38N Lon: 54.31E Depth: 26 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
GHIR	BZ	131	266	EPg		2120	43.86	0.0							1.0
GHIR	BE	131	266	AML		2121	7.96			1846	0.5				
GHIR	BN	131	266	AML		2121	11.47			2030	0.4				
BNDS	BZ	212	120	EPN5		2120	55.24	0.0							1.0
BNDS	BN	212	120	AML		2121	35.14			598	0.6				
BNDS	BE	212	120	AML		2121	38.95			610	0.5				
NASN	BZ	511	344	EPn		2121	32.62	0.1							0.8
ZHSF	BZ	644	76	EPn		2121	48.87	0.0							0.7
GHVR	BZ	737	337	EPn		2122	0.31	0.0							0.6
ASAO	BZ	797	330	EPn		2122	7.86	-0.1							0.6

**February 8 2010 Hour: 21:20 54.7 Lat: 28.30N Lon: 54.21E Depth: 15 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
GHIR	BZ	120	269	EPn		2121	17.52	0.2							1.0
GHIR	BE	120	269	AML		2121	37.69			2016	0.4				
GHIR	BN	120	269	AML		2121	38.69			3004	0.4				
BNDS	BZ	217	117	EPn		2121	29.12	-0.3							1.0
BNDS	BE	217	117	AML		2122	11.45			418	0.5				
KRBR	BZ	310	52	EPn		2121	41.76	0.6							1.0
KRBR	BE	310	52	AML		2122	29.24			339	0.6				
KRBR	BN	310	52	AML		2122	36.97			336	0.8				
NASN	BZ	517	345	EPn		2122	6.14	-0.6							0.8
TABS	BZ	655	24	EPn		2122	23.46	-0.2							0.7

**February 10 2010 Hour: 2:29 9.6 Lat: 39.54N Lon: 53.93E Depth: 28F Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MRVT	BZ	281	137	EPn		229	50.60	-0.3							1.0
MRVT	BN	281	137	AML		230	19.68			137	0.6				
SHRD	BZ	432	154	EPn		230	10.22	0.4							0.9
DAMV	BZ	467	202	EPn		230	14.20	0.0							0.9
DAMV	BN	467	202	AML		231	4.22			94	0.5				
DAMV	BE	467	202	AML		231	5.61			85	0.5				
GRMI	BZ	527	263	EPn		230	21.88	0.3							0.8
ZNJK	BZ	559	237	EPN5		230	25.14	-0.5							0.8
ZNJK	BN	559	237	Sn		231	21.07	0.0							0.8
ZNJK	BE	559	237	AML		231	25.91			34	0.4				

**February 11 2010 Hour: 8:9 57.2 Lat: 28.16N Lon: 51.42E 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
GHIR	BZ	154	84	EPg		810	22.84	0.0							1.0
GHIR	BE	154	84	ESg		810	41.57	0.0							1.0
GHIR	BE	154	84	AML		810	45.74			1373	0.7				
GHIR	BN	154	84	AML		810	55.46			1256	0.8				
NASN	BZ	532	14	EPn		811	10.72	-0.1							0.8
NASN	BN	532	14	AML		812	7.37			12	0.4				
KRBR	BZ	558	67	EPn		811	13.98	-0.1							0.8
TABS	BZ	817	40	EPn		811	46.03	0.0							0.6
DAMV	BZ	831	3	EPn		811	48.06	0.2							0.6

**February 11 2010 Hour: 16:29 40.8 Lat: 33.32N Lon: 47.13E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.3ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SNGE	BZ	198	6	EPg		1630	13.71	0.3							1.0
SNGE	BN	198	6	AML		1630	40.65			4041	0.4				
SHGR	BZ	206	130	EPg		1630	14.70	0.1							1.0
SHGR	BN	206	130	ESg		1630	39.36	0.1							1.0
SHGR	BE	206	130	AML		1630	48.13			2749	0.6				
SHGR	BN	206	130	AML		1631	4.29			3164	0.7				
KHMZ	BZ	267	79	EPn		1630	21.57	-0.2							1.0
KHMZ	BN	267	79	Sn		1630	52.11	0.4							1.0
KHMZ	BE	267	79	AML		1631	1.25			1336	0.6				
KHMZ	BN	267	79	AML		1631	3.38			1292	0.6				
ASAO	BZ	300	62	EPn		1630	25.86	-0.1							1.0
ZNJK	BZ	398	20	EPn		1630	38.55	0.5							0.9
ZNJK	BZ	398	20	EPg		1630	45.08	-0.2							0.9
GHVR	BZ	402	70	EPn		1630	38.31	0.0							0.9
GHVR	BN	402	70	AML		1631	41.55			664	0.6				
GHVR	BE	402	70	AML		1631	50.49			760	0.8				
CHTH	BZ	466	51	EPn		1630	45.36	-1.1							0.8
CHTH	BN	466	51	Sn		1631	34.67	0.2							0.8
DAMV	BZ	513	59	EPn		1630	51.66	-0.7							0.8

GRMI BZ 613 6 EPn 1631 5.26 0.6 0.7

**February 11 2010 Hour: 21: 7 52.6 Lat: 30.93N Lon: 50.12E Depth: 15 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
SHGR	BZ	181	317	EPg		21 8	22.31	0.0							1.0
SHGR	BN	181	317	AML		21 8	52.98			2460	0.9				
SHGR	BE	181	317	AML		21 8	53.98			2340	0.6				
KHMZ	BZ	312	357	EPn		21 8	39.10	0.0							1.0
KHMZ	BE	312	357	AML		21 9	33.09			252	0.8				
KHMZ	BN	312	357	AML		21 9	36.78			167	0.6				
NASN	BZ	328	50	EPn		21 8	41.36	0.1							0.9
ASAO	BZ	401	359	EPn		21 8	50.15	-0.1							0.9
GHIR	BZ	404	136	EPn		21 8	50.47	0.0							0.9
GHIR	BN	404	136	AML		2110	7.85			228	0.5				
GHIR	BE	404	136	AML		2110	11.66			255	0.6				
KRBR	BZ	647	98	EPn		21 9	20.58	-0.2							0.7
TABS	BZ	725	64	EPn		21 9	30.25	0.0							0.6

**February 12 2010 Hour: 8:29 17.1 Lat: 30.52N Lon: 49.90E Depth: 41 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	205	329	EPg		829	50.12	-0.1							1.0
SHGR	BE	205	329	ESg		830	14.42	0.1							1.0
SHGR	BE	205	329	AML		830	22.04			2207	0.8				
SHGR	BN	205	329	AML		830	22.28			2821	1.4				
KHMZ	BZ	357	1	EPn		830	6.69	0.0							0.9
NASN	BZ	374	47	EPn		830	9.05	0.1							0.9
ASAO	BZ	447	1	EPn		830	17.68	-0.2							0.9
SNGE	BZ	561	335	EPn		830	32.23	0.2							0.8
SNGE	BE	561	335	AML		831	0.67			89	0.7				

**February 14 2010 Hour: 3:26 47.2 Lat: 30.58N Lon: 49.91E Depth: 43 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.0 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	200	328	EPg		327	19.59	0.0							1.0
SHGR	BN	200	328	ESg		327	43.25	0.0							1.0
SHGR	BE	200	328	AML		327	51.18			3001	0.2				
SHGR	BN	200	328	AML		327	51.39			4085	0.4				
KHMZ	BZ	351	1	EPn		327	36.04	0.1							0.9
KHMZ	BE	351	1	AML		328	31.19			361	1.9				
NASN	BZ	369	47	EPn		327	38.40	0.0							0.9
ASAO	BZ	440	1	EPn		327	47.10	-0.1							0.9
ASAO	BN	440	1	AML		328	55.13			307	0.3				
GHVR	BZ	451	16	EPn		327	48.25	0.0							0.9
SNGE	BZ	555	335	EPn		328	1.40	0.0							0.8
SNGE	BE	555	335	AML		328	29.79			130	0.3				

**February 15 2010 Hour: 9:18 29.5 Lat: 28.63N Lon: 54.96E Depth: 17 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
BNDS	BZ	181	138	EPg		918	59.43	0.0							1.0
BNDS	BN	181	138	AML		919	33.27			388	0.3				
GHIR	BZ	197	259	EPg		919	1.94	0.0							1.0
GHIR	BN	197	259	AML		919	41.77			544	0.3				
GHIR	BE	197	259	AML		919	44.11			614	0.4				
KRBR	BZ	231	49	EPg		919	7.43	0.0							1.0
KRBR	BN	231	49	AML		919	40.95			757	0.6				
KRBR	BE	231	49	AML		919	42.94			447	0.7				
NASN	BZ	506	337	EPn		919	40.12	0.0							0.8
ZHSF	BZ	576	78	EPn		919	48.65	0.0							0.8
TABS	BZ	594	20	EPn		919	50.76	0.0							0.7
ASAO	BZ	806	326	EPn		920	17.18	-0.1							0.6
DAMV	BZ	826	341	EPn		920	19.95	0.2							0.6



**February 18 2010 Hour: 21: 8 10.8 Lat: 30.74N Lon: 50.24E Depth: 14F Agency: INS Local**  
**Magnitudes: 4.5ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	204	318	EPg		21	8	44.15	-0.1						1.0
SHGR	BN	204	318	AML		21	9	16.52		2247	0.6				
SHGR	BE	204	318	AML		21	9	22.41		2867	0.7				
NASN	BZ	333	46	EPn		21	9	0.26	0.1						0.9
GHIR	BZ	381	135	EPn		21	9	5.98	0.2						0.9
GHIR	BN	381	135	AML		2110		15.31		1448	0.5				
GHIR	BE	381	135	AML		2110		24.65		1280	0.6				
ASAO	BZ	423	357	EPn		21	9	11.41	0.2						0.9
GHVR	BZ	425	13	EPn		21	9	11.66	0.4						0.9
GHVR	BE	425	13	AML		2110		6.15		170	0.7				
DAMV	BZ	566	16	EPn		21	9	28.35	-0.6						0.8
KRBR	BZ	632	96	EPn		21	9	37.11	-0.1						0.7
KRBR	BE	632	96	AML		2110		45.91		266	0.5				
KRBR	BN	632	96	AML		2110		56.19		274	0.6				
BNDS	BZ	686	121	EPn		21	9	43.58	-0.2						0.7
BNDS	BE	686	121	AML		2110		55.47		262	0.6				
BNDS	BN	686	121	AML		2110		57.04		235	0.4				
TABS	BZ	724	62	EPn		21	9	48.23	-0.2						0.6

**February 19 2010 Hour: 11:25 45.6 Lat: 35.72N Lon: 57.59E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.3ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	220	356	EPg		1126		21.54	-0.2						1.0
TABS	BZ	234	191	EPg		1126		23.35	-0.5						1.0
TABS	BE	234	191	AML		1126		58.42		1303	0.5				
TABS	BN	234	191	AML		1127		2.53		2052	0.8				
SHRT	BZ	338	132	EP		1126		35.67	0.4						0.9
SHRT	BN	338	132	AML		1127		33.43		1231	0.5				
SHRT	BE	338	132	AML		1127		34.24		1208	0.5				
DAMV	BZ	509	271	EPn		1126		56.72	0.0						0.8
CHTH	BZ	585	274	EPn		1127		6.37	0.2						0.8
GHVR	BZ	595	258	EPn		1127		7.34	0.1						0.7
ASAO	BZ	702	262	EPN5		1127		20.87	0.2						0.7
KHMZ	BZ	732	255	EPN5		1127		24.72	0.3						0.6

**February 19 2010 Hour: 23:29 1.3 Lat: 32.09N Lon: 59.27E Depth: 18 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
SHRT	BZ	197	29	EPg		2329		34.12	0.3						1.0
TABS	BZ	265	311	EPn		2329		41.71	0.0						1.0
TABS	BE	265	311	ESg		2330		15.90	-0.3						1.0
TABS	BN	265	311	AML		2330		23.85		171	0.8				
ZHSF	BZ	310	152	EPn		2329		46.66	-0.6						1.0
KRBR	BZ	334	226	EPn		2329		51.05	0.6						0.9
KRBR	BN	334	226	ESg		2330		35.45	0.0						0.9
KRBR	BE	334	226	AML		2330		38.99		189	0.4				
KRBR	BN	334	226	AML		2330		41.75		193	0.6				

**February 20 2010 Hour: 7:49 19.3 Lat: 30.74N Lon: 50.25E 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
SHGR	BZ	205	318	EPg		749		52.82	0.0						1.0
NASN	BZ	333	46	EPn		750		8.56	-0.1						0.9
KHMZ	BZ	334	355	EPn		750		8.59	0.0						0.9
KHMZ	BE	334	355	AML		750		57.85		149	0.6				
KHMZ	BN	334	355	AML		751		1.48		102	0.4				
GHIR	BZ	380	135	EPn		750		14.29	0.0						0.9
ASAO	BZ	423	357	EPn		750		19.77	0.1						0.9
GHVR	BZ	425	12	EPn		750		19.98	0.2						0.9
GHVR	BE	425	12	AML		751		28.70		66	0.6				

GHVR BN	425	12	AML	751	38.39				90	0.7					
CHTH BZ	579	8	EPn	750	38.96	-0.1									0.8

**February 20 2010 Hour: 9:33 53.2 Lat: 30.78N Lon: 50.31E 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
SHGR	BZ	205	316	EPg		934	26.72	-0.1							1.0
SHGR	BE	205	316	ESg		934	51.50	0.1							1.0
NASN	BZ	325	46	EPn		934	41.59	0.1							0.9
KHMZ	BZ	329	354	EPn		934	41.88	-0.1							0.9
KHMZ	BN	329	354	AML		935	31.01			345	0.7				
KHMZ	BE	329	354	AML		935	40.39			495	0.6				
GHIR	BZ	379	136	EPn		934	48.08	0.0							0.9
GHIR	BE	379	136	AML		935	57.40			187	0.5				
ASAO	BZ	418	356	EPn		934	53.00	0.0							0.9
ASAO	BN	418	356	AML		936	0.00			342	0.6				

**February 20 2010 Hour: 9:36 43.2 Lat: 31.22N Lon: 50.34E Depth: 16 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
SHGR	BZ	176	304	EPg		937	12.26	0.0							1.0
SHGR	BN	176	304	AML		937	42.36			4950	0.6				
SHGR	BE	176	304	AML		937	54.30			5850	0.6				
KHMZ	BZ	281	353	EPn		937	25.86	0.1							1.0
KHMZ	BN	281	353	AML		938	30.40			1419	0.8				
NASN	BZ	291	52	EPn		937	27.01	-0.1							1.0
NASN	BN	291	52	AML		938	18.34			107	1.4				
ASAO	BZ	370	355	EPn		937	36.70	-0.1							0.9
GHVR	BZ	371	13	EPn		937	36.80	0.0							0.9
GHVR	BE	371	13	AML		938	49.09			169	0.7				
GHVR	BN	371	13	AML		938	54.82			169	0.9				
GHIR	BZ	414	141	EPn		937	42.17	0.0							0.9
SHRD	BZ	747	43	EPn		938	23.79	0.2							0.6

**February 20 2010 Hour: 16:48 9.7 Lat: 40.42N Lon: 46.96E 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
GRMI	BZ	196	156	EPg		1648	41.88	-0.1							1.0
GRMI	BE	196	156	ESg		1649	5.63	0.0							1.0
GRMI	BE	196	156	AML		1649	6.94			729	0.8				
MAKU	BZ	228	239	EPg		1648	47.07	0.0							1.0
MAKU	BN	228	239	AML		1649	19.31			708	0.1				
MAKU	BE	228	239	AML		1649	19.77			175	0.3				
ZNJK	BZ	443	160	EPn		1649	12.72	0.1							0.9
CHTH	BZ	620	143	EPn		1649	34.81	0.2							0.7
DAMV	BZ	690	139	EPn		1649	43.12	-0.2							0.7

**February 23 2010 Hour: 1:59 28.4 Lat: 35.94N Lon: 53.47E Depth: 15F Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DAMV	BZ	140	256	EPg		159	51.80	-0.1							1.0
DAMV	BN	140	256	ESg		2 0	9.30	0.3							1.0
DAMV	BN	140	256	AML		2 0	15.87			756	0.3				
CHTH	BZ	212	270	EPg		2 0	3.36	0.1							1.0
GHVR	BZ	259	232	EPg		2 0	10.20	-0.6							1.0
GHVR	BE	259	232	AML		2 0	49.10			388	1.0				
NASN	BZ	354	190	EPn		2 0	20.70	0.4							0.9

**February 23 2010 Hour: 7:28 2.3 Lat: 32.58N Lon: 48.42E Depth: 14 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
SHGR	BZ	64	146	EPg		728	13.30	-0.2							1.0
SHGR	BN	64	146	AML		728	33.14		92443	0.4					
SHGR	BE	64	146	AML		728	35.64		88033	0.7					
KHMZ	BZ	193	48	EPg		728	34.04	-0.1							1.0
GHVR	BZ	336	50	EPn		728	52.29	0.5							0.9
GHVR	BE	336	50	AML		729	44.23		2479						
NASN	BZ	412	85	EPn		729	1.61	0.1							0.9
NASN	BE	412	85	AML		730	5.01		1490						
CHTH	BZ	445	33	EPn		729	5.55	0.0							0.9
ZNJK	BZ	454	3	EPn		729	6.81	0.2							0.8
DAMV	BZ	471	43	EPn		729	8.56	-0.1							0.8
DAMV	BN	471	43	ESg		730	13.53	-0.2							0.8
GRMI	BZ	693	356	EPn		729	35.98	-0.2							0.7
MAKU	BZ	824	337	EPn		729	52.07	-0.4							0.6
MRVT	BZ	897	49	EPn		730	1.86	0.4							0.5

**February 23 2010 Hour: 10:25 55.0 Lat: 32.58N Lon: 48.37E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.7ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	66	142	EPg		1026	6.61	0.0							1.0
SHGR	BE	66	142	AML		1026	29.00		53653	0.8					
SHGR	BN	66	142	AML		1026	29.71		41324	0.6					
KHMZ	BZ	196	49	EPg		1026	27.40	0.0							1.0
SNGE	BZ	294	341	EPn		1026	39.29	-0.1							1.0
GHVR	BZ	340	51	EPn		1026	45.43	0.5							0.9
GHVR	BE	340	51	AML		1027	43.73		3113	0.9					
NASN	BZ	417	86	EPn		1026	54.71	-0.1							0.9
NASN	BE	417	86	AML		1027	57.55		962	0.9					
NASN	BN	417	86	AML		1027	59.12		608	0.5					
CHTH	BZ	448	34	EPn		1026	58.30	-0.2							0.9
ZNJK	BZ	454	4	EPn		1026	59.72	0.4							0.8
DAMV	BZ	474	44	EPn		1027	1.31	-0.5							0.8
DAMV	BE	474	44	AML		1028	22.99		871	0.6					
DAMV	BN	474	44	AML		1028	23.04		714	0.7					

**February 23 2010 Hour: 19:31 48.9 Lat: 32.56N Lon: 48.42E Depth: 14 Agency: INS Local**  
**Magnitudes: 4.1ML INS Rms: 0.4 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	61	144	EPg		1931	59.87	0.1							1.0
KHMZ	BZ	195	47	EPg		1932	20.59	-0.5							1.0
KHMZ	BN	195	47	ESg		1932	44.81	0.2							1.0
KHMZ	BE	195	47	AML		1932	48.21		1956	0.5					
KHMZ	BN	195	47	AML		1932	49.18		1666	0.4					
ASAO	BZ	267	34	EPn		1932	30.68	0.7							1.0
SNGE	BZ	298	341	EPn		1932	33.72	-0.1							1.0
NASN	BZ	413	85	EPn		1932	47.96	-0.2							0.9
CHTH	BZ	448	33	EPn		1932	52.26	-0.2							0.9
DAMV	BZ	473	43	EPn		1932	55.32	-0.3							0.8
DAMV	BN	473	43	AML		1934	7.80		187	0.7					

**February 24 2010 Hour: 4:51 44.5 Lat: 34.53N Lon: 52.09E 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
GHVR	BZ	78	266	EPg		451	58.20	0.1							1.0
GHVR	BN	78	266	AML		452	16.80		2795	0.8					
GHVR	BE	78	266	AML		452	27.78		3590	0.2					
DAMV	BZ	122	355	EPg		452	5.36	0.1							1.0
CHTH	BZ	176	330	EPg		452	13.54	-0.2							1.0
ASAO	BZ	190	271	EPg		452	15.94	0.0							1.0
NASN	BZ	203	161	EPg		452	18.13	0.0							1.0

KHMZ	BZ	215	246	EPg		452	19.86	-0.1								1.0
ZNJK	BZ	389	309	EPn		452	40.85	0.0								0.9
ZNJK	BN	389	309	AML		453	43.91			52	0.5					
SNGE	BZ	439	279	EPn		452	47.02	0.1								0.9

**February 26 2010 Hour: 3:33 15.7 Lat: 34.91N Lon: 46.19E 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
ZNJK	BZ	299	48	EPn		334	0.73	0.0							1.0
ASAO	BZ	354	95	EPn		334	7.90	0.4							1.0
KHMZ	BZ	371	109	EPn		334	9.43	-0.2							0.9
KHMZ	BN	371	109	AML		335	12.38			91	0.6				
KHMZ	BE	371	109	AML		335	15.56			100	0.6				
SHGR	BZ	394	141	EPn		334	12.29	0.0							0.9
SHGR	BE	394	141	AML		335	25.68			106	0.5				
SHGR	BN	394	141	AML		335	33.36			76	0.7				
GHVR	BZ	466	94	EPn		334	21.26	0.0							0.9
GHVR	BE	466	94	AML		335	37.42			50	0.6				
DAMV	BZ	532	80	EPn		334	29.45	-0.3							0.8

**March 1 2010 Hour: 21:17 31.9 Lat: 31.12N Lon: 56.93E Depth: 28 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
KRBR	BZ	127	187	EPg		2117	53.26	0.0							1.0
KRBR	BN	127	187	AML		2118	11.36			1455	0.5				
KRBR	BE	127	187	AML		2118	13.15			1198	0.2				
TABS	BZ	281	4	EPn		2118	13.03	-0.2							1.0
TABS	BN	281	4	AML		2119	4.54			531	0.6				
ZHSF	BZ	406	113	EPn		2118	28.95	0.2							0.9
BNDS	BZ	419	190	EPn		2118	30.28	-0.2							0.9
SHRT	BZ	422	48	EPn		2118	30.77	0.0							0.9
SHRT	BN	422	48	AML		2119	34.59			96	0.6				
SHRT	BE	422	48	AML		2119	35.10			66	0.6				
NASN	BZ	432	297	EPn		2118	32.42	0.2							0.9
NASN	BN	432	297	AML		2119	38.40			103	0.6				
NASN	BE	432	297	AML		2119	39.34			71	0.5				

**March 1 2010 Hour: 23:26 33.2 Lat: 32.55N Lon: 48.34E Depth: 15 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
SHGR	BZ	65	138	EPg		2326	44.68	0.1							1.0
KHMZ	BZ	201	48	EPg		2327	5.53	-0.8							1.0
KHMZ	BE	201	48	ESg		2327	30.72	0.2							1.0
KHMZ	BE	201	48	AML		2327	32.30			1389	0.7				
ASAO	BZ	271	35	EPn		2327	15.28	0.5							1.0
SNGE	BZ	297	342	EPn		2327	17.90	0.0							1.0
GHVR	BZ	344	51	EPn		2327	24.40	0.7							0.9
GHVR	BN	344	51	AML		2328	19.56			278	0.5				
NASN	BZ	420	85	EPn		2327	32.74	-0.5							0.9
NASN	BE	420	85	Sn		2328	17.47	0.4							0.9
CHTH	BZ	452	34	EPn		2327	36.71	-0.5							0.9
ZNJK	BZ	459	4	EPn		2327	38.53	0.5							0.8
DAMV	BZ	479	43	EPn		2327	39.85	-0.7							0.8

**March 4 2010 Hour: 1:13 29.2 Lat: 32.09N Lon: 56.18E Depth: 15F 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
TABS	BZ	194	27	EPg		114	0.75	-0.4							1.0
TABS	BN	194	27	AML		114	39.62			312	0.6				
KRBR	BZ	240	167	EPg		114	8.35	-0.2							1.0
KRBR	BE	240	167	AML		114	39.97			427	0.7				
KRBR	BN	240	167	AML		114	40.71			615	0.6				
NASN	BZ	327	285	EPn		114	17.88	0.1							0.9
NASN	BN	327	285	AML		115	2.19			166	0.4				

NASN	BE	327	285	AML		115	5.13			85	0.8			
SHRT	BZ	421	65	EPn		114	29.77	0.6						0.9
SHRT	BE	421	65	AML		115	37.21			52	0.6			
SHRT	BN	421	65	AML		115	38.05			61	0.6			

**March 4 2010 Hour: 3:24 23.0 Lat: 37.40N Lon: 54.28E Depth: 22 Agency: INS Local**  
**Magnitudes: 4.5ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MRVT	BZ	162	79	EPg		324	49.23	-0.2							1.0
MRVT	BN	162	79	ESg		325	8.76	0.1							1.0
MRVT	BN	162	79	AML		325	10.81			8957	0.7				
MRVT	BE	162	79	AML		325	11.81			7916	0.6				
SHRD	BZ	219	134	EPg		324	58.18	0.1							1.0
DAMV	BZ	286	227	EPn		325	5.31	-0.3							1.0
DAMV	BN	286	227	Sn		325	36.67	0.0							1.0
DAMV	BE	286	227	AML		326	6.15			1570	0.6				
DAMV	BN	286	227	AML		326	7.31			1393	0.6				
CHTH	BZ	327	240	EPn		325	11.09	0.3							0.9

**March 4 2010 Hour: 16:38 48.3 Lat: 35.75N Lon: 49.01E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.6 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZNJK	BZ	106	344	EPg		1639	6.78	0.3							1.0
ASAO	BZ	162	145	EPg		1639	14.43	-0.9							1.0
SNGE	BZ	167	245	EPg		1639	16.27	0.2							1.0
SNGE	BZ	167	245	ESg		1639	36.39	0.0							1.0
CHTH	BZ	192	84	EPg		1639	19.35	-0.8							1.0
CHTH	BN	192	84	AML		1639	43.39			355	0.3				
KHMZ	BZ	239	158	EPN5		1639	25.51	-0.3							1.0
KHMZ	BN	239	158	AML		1639	59.96			633	0.5				
KHMZ	BE	239	158	AML		1640	3.31			424	0.5				
GHVR	BZ	248	124	EPn		1639	27.36	0.6							1.0
GHVR	BE	248	124	ESg		1639	59.21	0.9							1.0
GHVR	BN	248	124	AML		1640	7.60			310	0.6				
GHVR	BE	248	124	AML		1640	12.50			417	0.6				
DAMV	BZ	269	92	EPn		1639	29.56	0.0							1.0
DAMV	BN	269	92	AML		1640	10.59			414	0.5				
DAMV	BE	269	92	AML		1640	14.79			435	0.7				

**March 8 2010 Hour: 16:39 35.4 Lat: 30.31N Lon: 57.71E Depth: 15F Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.6 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	98	249	EPg		1639	51.37	-0.8							1.0
ZHSF	BZ	306	104	EPn		1640	21.25	0.1							1.0
ZHSF	BN	306	104	ESg		1641	1.15	-0.4							1.0
ZHSF	BN	306	104	AML		1641	8.87			282	0.6				
ZHSF	BE	306	104	AML		1641	12.82			221	0.6				
BNDS	BZ	355	205	EPn		1640	28.20	1.0							0.9
TABS	BZ	375	352	EPn		1640	29.89	0.3							0.9
TABS	BN	375	352	AML		1641	29.36			511	0.5				
TABS	BE	375	352	AML		1641	29.74			306	0.5				
SHRT	BZ	444	33	EPn		1640	38.09	0.0							0.9
SHRT	BE	444	33	AML		1641	56.93			74	0.7				
SHRT	BN	444	33	AML		1642	0.94			91	0.6				

**March 9 2010 Hour: 3:22 15.3 Lat: 36.36N Lon: 51.81E Depth: 6 Agency: INS Local**  
**Magnitudes: 3.8ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
CHTH	BZ	79	231	EPg		322	29.55	0.3							1.0
DAMV	BZ	82	170	EPg		322	29.57	-0.2							1.0
GHVR	BZ	214	194	EPN5		322	51.04	0.5							1.0
GHVR	BN	214	194	ESg		323	18.82	-0.2							1.0
GHVR	BN	214	194	AML		323	22.32			559	0.7				
GHVR	BE	214	194	AML		323	27.16			767	0.5				

ASAO	BZ	258	219	EPn		322	56.25	0.1									1.0
ASAO	BE	258	219	AML		323	32.41			554	0.5						
ASAO	BN	258	219	AML		323	33.27			309	0.5						
ZNJK	BZ	282	278	EPn		322	58.79	-0.3									1.0
ZNJK	BN	282	278	AML		323	39.99			794	0.5						
ZNJK	BE	282	278	AML		323	42.75			441	0.4						
SNGE	BZ	427	252	EPn		323	16.99	-0.1									0.9

**March 14 2010 Hour: 12:135.7 Lat: 29.77N Lon: 51.39E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.2 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
GHIR	BZ	227	136	EPg		12	2	12.79	-0.1						1.0
GHIR	BN	227	136	ESg		12	2	39.97	0.0						1.0
GHIR	BN	227	136	AML		12	2	51.58		569	0.5				
GHIR	BE	227	136	AML		12	2	53.20		645	0.6				
SHGR	BZ	358	317	EPn		12	2	27.86	0.2						0.9
NASN	BZ	362	22	EPn		12	2	28.11	-0.4						0.9
KRBR	BZ	519	86	EPn		12	2	48.24	0.2						0.8
KRBR	BE	519	86	AML		12	3	47.29		44	1.1				
KRBR	BN	519	86	ESg		12	4	0.75	0.2						0.8
KRBR	BN	519	86	AML		12	4	18.09		49	0.7				

**March 17 2010 Hour: 13:32 30.7 Lat: 30.67N Lon: 50.26E 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
SHGR	BZ	211	319	EPg		1333	5.27	0.0							1.0
SHGR	BE	211	319	ESg		1333	30.50	0.0							1.0
SHGR	BE	211	319	AML		1333	36.14			907	0.4				
SHGR	BN	211	319	AML		1333	43.66			947	0.6				
NASN	BZ	338	45	EPn		1333	20.36	0.0							0.9
KHMZ	BZ	341	355	EPn		1333	20.55	-0.1							0.9
ASAO	BZ	430	357	EPn		1333	31.93	0.1							0.9
ASAO	BE	430	357	AML		1334	41.52			47	0.8				
ASAO	BN	430	357	AML		1334	46.37			40	0.7				
GHVR	BZ	432	12	EPn		1333	32.06	0.2							0.9
GHVR	BN	432	12	AML		1334	42.75			32	0.5				
GHVR	BE	432	12	AML		1334	46.34			43	0.8				
DAMV	BZ	573	16	EPn		1333	49.25	-0.2							0.8
TABS	BZ	726	61	EPn		1334	8.38	0.0							0.6

**March 18 2010 Hour: 23:39 9.9 Lat: 34.22N Lon: 54.42E 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
NASN	BZ	217	224	EPn		2339	44.46	0.0							1.0
NASN	BE	217	224	ESg		2340	11.83	0.0							1.0
NASN	BE	217	224	AML		2340	14.49			390	0.2				
NASN	BN	217	224	AML		2340	14.50			434	0.2				
TABS	BZ	258	104	EPn		2339	49.34	0.0							1.0
TABS	BN	258	104	AML		2340	33.32			313	0.9				
DAMV	BZ	272	306	EPn		2339	51.21	-0.1							1.0
DAMV	BN	272	306	AML		2340	35.91			176	0.6				
DAMV	BE	272	306	AML		2340	35.94			292	0.5				
GHVR	BZ	293	276	EPn		2339	53.70	0.1							1.0
GHVR	BN	293	276	AML		2340	37.42			198	0.3				
GHVR	BE	293	276	AML		2340	46.62			266	0.4				
ASAO	BZ	405	276	EPn		2340	7.98	0.2							0.9
KHMZ	BZ	415	264	EPn		2340	8.76	-0.2							0.9

**March 19 2010 Hour: 1:52 7.2 Lat: 38.63N Lon: 55.65E Depth: 33 Agency: INS Local**  
**Magnitudes: 4.2ML INS Rms: 0.1 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	186	123	EPg		152	37.32	0.0							1.0
BJRD	BN	186	123	AML		153	5.80			2840	0.5				
BJRD	BE	186	123	AML		153	13.41			2573	0.7				
DAMV	BZ	466	226	EPn		153	11.09	-0.2							0.8
DAMV	BE	466	226	AML		154	4.96			210	0.6				
CHTH	BE	502	234	EPn		153	15.59	-0.1							0.8
TABS	BZ	568	166	EPn		153	23.91	0.2							0.8
TABS	BN	568	166	AML		153	41.55			106	0.6				
GHVR	BZ	606	222	EPn		153	28.61	0.2							0.7
ZNJK	BZ	651	253	EPn		153	34.23	0.0							0.7
ZNJK	BE	651	253	AML		154	42.61			89	0.5				
ZNJK	BN	651	253	AML		154	43.08			141	0.6				
GRMI	BZ	674	274	EPn		153	37.08	0.1							0.7
SHRT	BZ	693	142	EPn		153	39.05	-0.1							0.7

**March 19 2010 Hour: 14:17 29.3 Lat: 35.69N Lon: 48.94E Depth: 15 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
SNGE	BZ	159	246	EPg		1417	55.94	0.1							1.0
SNGE	BE	159	246	AML		1418	17.47			401	0.5				
SNGE	BN	159	246	AML		1418	17.90			613	0.5				
ASAO	BZ	160	142	EPg		1417	56.68	0.6							1.0
ASAO	BE	160	142	ESg		1418	15.83	0.3							1.0
CHTH	BZ	199	82	EPg		1418	1.54	-0.6							1.0
CHTH	BE	199	82	AML		1418	31.39			279	0.5				
KHMZ	BZ	235	156	EPN5		1418	5.86	-0.5							1.0
KHMZ	BE	235	156	ESg		1418	35.69	-0.4							1.0
KHMZ	BN	235	156	AML		1418	41.88			281	0.4				
KHMZ	BE	235	156	AML		1418	43.07			274	0.4				
DAMV	BZ	274	90	EPn		1418	11.67	0.5							1.0
DAMV	BN	274	90	AML		1418	49.62			306	0.6				
DAMV	BE	274	90	AML		1418	55.11			377	0.5				

**March 23 2010 Hour: 2:20 24.2 Lat: 30.81N Lon: 56.75E Depth: 15F 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
KRBR	BZ	92	179	EPg		220	39.92	-0.2							1.0
KRBR	BN	92	179	AML		220	53.64			1886	0.3				
KRBR	BE	92	179	AML		220	54.60			2081	0.3				
TABS	BZ	317	6	EPn		221	11.86	0.6							1.0
TABS	BE	317	6	ESg		221	52.81	-0.4							1.0
TABS	BN	317	6	AML		222	7.26			151	0.8				
TABS	BE	317	6	AML		222	8.92			97	0.9				
NASN	BZ	433	302	EPn		221	25.90	0.0							0.9
NASN	BN	433	302	AML		222	30.02			66	0.5				

**March 24 2010 Hour: 21:54 35.0 Lat: 36.30N Lon: 56.89E Depth: 18 Agency: INS Local**  
**Magnitudes: 3.5ML INS Rms: 0.3 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BJRD	BZ	162	16	EPg		2155	2.04	0.1							1.0
TABS	BZ	295	176	EPn		2155	19.27	0.3							1.0
TABS	BN	295	176	ESg		2155	57.94	0.1							1.0
TABS	BN	295	176	AML		2156	10.49			244	0.6				
SHRT	BZ	428	132	EPn		2155	34.94	-0.5							0.9
SHRT	BN	428	132	Sn		2156	19.69	0.1							0.9
SHRT	BE	428	132	AML		2156	49.05			64	0.6				
DAMV	BZ	450	262	EPn		2155	38.44	0.0							0.9
NASN	BZ	539	225	EPn		2155	49.22	-0.4							0.8
ASAO	BZ	653	255	EPn		2156	3.68	0.1							0.7

**March 29 2010 Hour: 10:25 42.9 Lat: 35.58N Lon: 49.49E Depth: 46F Agency: INS Local**  
**Magnitudes: 3.6ML INS Rms: 0.7 secs**

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ASAO	BZ	124	157	EPg		1026	5.25	0.9							1.0
ZNJK	BZ	141	329	EPg		1026	6.52	-0.3							1.0
CHTH	BZ	153	76	EPg		1026	8.82	0.3							1.0
CHTH	BE	153	76	ESg		1026	27.60	0.4							1.0
CHTH	BE	153	76	AML		1026	28.80			904	0.4				
SNGE	BZ	202	255	EPg		1026	16.40	0.5							1.0
KHMZ	BZ	208	168	EPg		1026	15.91	-1.0							1.0
KHMZ	BE	208	168	AML		1026	45.64			449	0.4				
KHMZ	BN	208	168	AML		1026	46.15			420	0.4				
DAMV	BZ	225	88	EPg		1026	18.66	-0.8							1.0

**March 29 2010 Hour: 22:34 11.8 Lat: 35.81N Lon: 52.79E Depth: 15 Agency: INS Local**  
**Magnitudes: 3.7ML INS Rms: 0.2 secs**

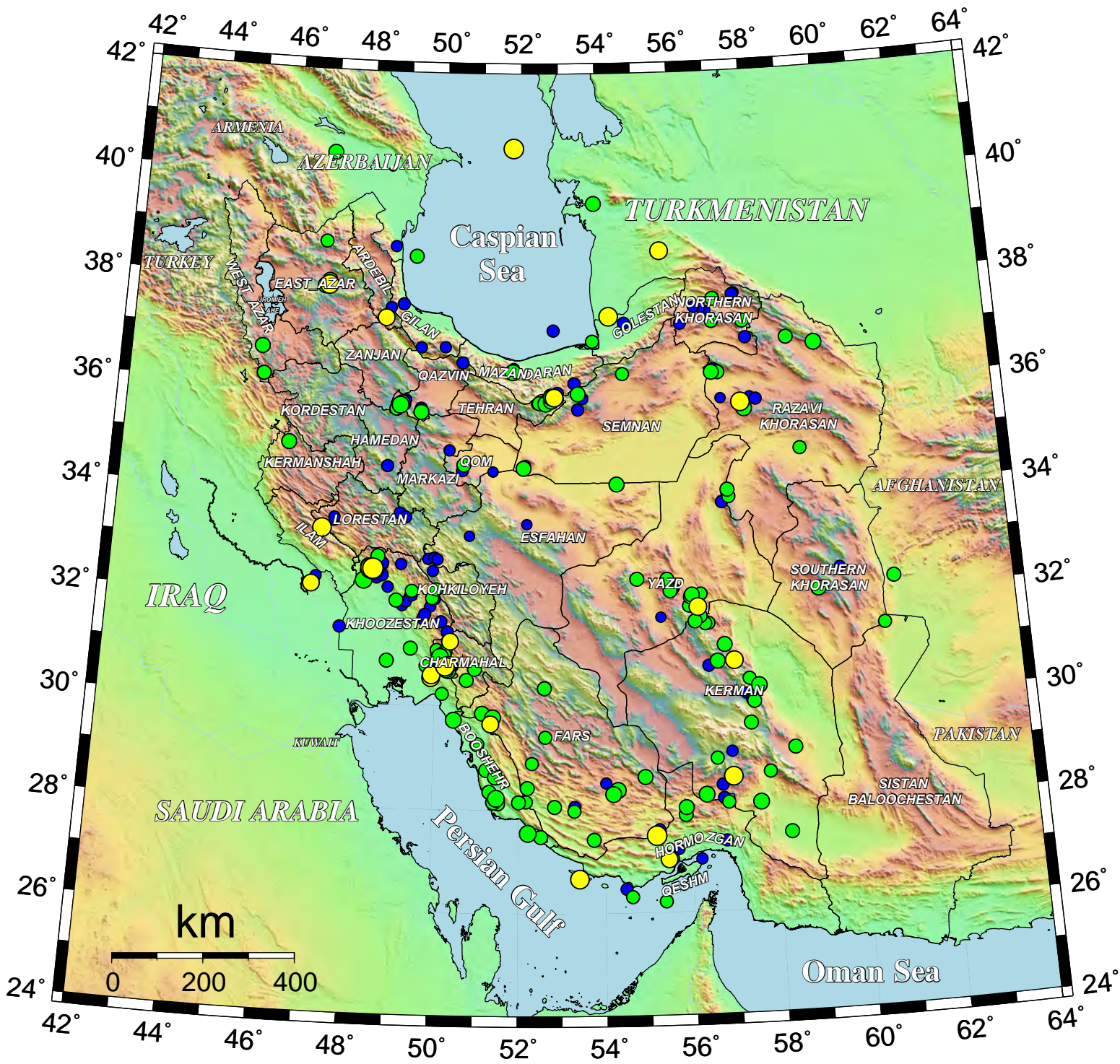
STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
DAMV	BZ	77	255	EPg		2234	24.85	-0.4							1.0
DAMV	BE	77	255	ESg		2234	35.25	0.1							1.0
CHTH	BZ	151	274	EPg		2234	37.10	0.1							1.0
GHVR	BZ	204	224	EPg		2234	45.47	0.1							1.0
GHVR	BN	204	224	AML		2235	15.96			1010	0.6				
GHVR	BE	204	224	AML		2235	17.39			1433	0.8				
ASAO	BZ	288	242	EPn		2234	55.38	0.0							1.0
ASAO	BN	288	242	AML		2235	37.20			254	0.5				
ASAO	BE	288	242	AML		2235	38.94			307	0.5				
NASN	BZ	334	180	EPn		2235	1.04	-0.1							0.9
NASN	BN	334	180	AML		2235	59.85			82	0.5				
NASN	BE	334	180	AML		2236	2.89			96	0.6				
TABS	BZ	463	120	EPn		2235	17.10	0.1							0.8
TABS	BN	463	120	AML		2236	38.27			135	0.5				
TABS	BE	463	120	AML		2236	44.21			86	0.6				



Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	Dmin	Rms	M <sub>L</sub>
2010	1	1	2	34	54.7	0.64	40.577	9.5	51.795	2.9	15.0	0.0	11	11	230	387.8	0.33	4.6
2010	1	2	22	13	12.8	1.49	36.768	16.8	59.562	24.8	40.0	0.0	5	6	230	217.3	0.57	3.7
2010	1	6	14	17	45.6	0.39	27.486	4.3	55.189	3.9	14.1	9.4	7	8	182	234.3	0.12	4.7
2010	1	7	3	17	5.4	0.30	30.658	2.3	50.324	4.0	34.3	5.5	5	6	184	216.4	0.03	3.5
2010	1	9	8	27	30.8	0.91	29.858	6.8	51.137	4.3	14.0	0.0	5	5	185	250.6	0.40	3.5
2010	1	10	6	52	23.7	1.06	35.701	3.2	48.961	4.2	14.2	8.0	9	11	101	110.4	0.37	4.0
2010	1	10	15	20	33.3	0.40	27.045	4.9	55.499	5.2	17.9	12.2	5	6	206	348.2	0.12	3.8
2010	1	10	17	17	48.4	0.42	27.024	5.0	55.458	2.0	15.0	0.0	8	8	206	351.8	0.25	4.0
2010	1	13	10	22	13.0	0.43	26.667	8.1	53.407	6.7	39.6	5.2	11	11	232	184.1	0.22	4.5
2010	1	13	15	52	26.3	0.31	28.251	2.2	56.372	2.5	14.2	5.4	5	6	147	195.6	0.04	3.8
2010	1	14	0	51	59.3	0.48	29.725	4.8	50.459	2.1	15.0	0.0	5	5	207	293.4	0.15	3.8
2010	1	16	1	27	20.1	0.83	37.344	9.3	48.519	5.1	14.1	12.1	7	10	277	76.1	0.26	4.0
2010	1	16	20	23	38.7	0.81	32.562	3.0	48.435	7.0	14.7	7.9	7	8	195	61.0	0.28	4.9
2010	1	16	21	26	18.7	0.60	32.350	12.8	48.215	9.2	38.8	8.5	5	6	230	61.4	0.16	3.9
2010	1	17	9	34	21.5	1.46	32.547	8.1	48.430	13.6	15.0	14.6	10	10	197	60.0	0.50	4.1
2010	1	18	3	13	41.1	0.29	32.249	1.9	46.935	3.3	46.0	3.3	7	9	272	176.7	0.05	4.0
2010	1	19	18	49	13.1	0.36	29.650	3.1	51.338	5.4	14.2	0.0	5	5	196	220.6	0.12	4.0
2010	1	20	5	20	5.2	0.66	35.871	4.3	52.865	6.4	14.1	9.0	5	7	269	85.2	0.19	4.2
2010	1	20	5	26	23.1	0.99	35.882	10.6	52.795	11.3	15.0	10.8	5	6	311	79.7	0.30	3.8
2010	1	22	4	43	12.2	0.58	35.591	3.5	57.681	8.6	14.2	5.8	7	7	225	157.7	0.19	3.8
2010	1	26	1	52	25.6	1.14	35.761	8.1	52.650	3.9	14.1	8.9	7	8	139	63.2	0.34	3.7
2010	1	26	3	17	0.3	0.46	30.815	1.9	57.141	7.9	17.2	5.0	4	5	202	99.3	0.12	4.2
2010	1	29	1	19	18.7	0.92	28.018	12.8	55.889	8.5	15.0	11.7	4	6	256	233.7	0.32	3.6
2010	1	29	20	50	19.4	1.32	28.072	10.1	57.623	5.4	15.0	0.0	4	4	141	227.8	0.55	3.8
2010	1	30	18	43	44.8	0.75	31.858	2.4	56.327	6.0	16.9	8.1	5	6	120	212.1	0.20	4.1
2010	2	1	22	54	37.2	0.33	28.224	8.2	51.481	4.0	14.9	6.9	5	6	262	147.9	0.07	3.9
2010	2	2	10	5	39.8	0.63	37.914	6.4	46.981	7.8	14.1	9.9	5	6	170	204.6	0.20	3.5
2010	2	2	10	16	29.1	0.68	37.924	6.7	46.983	8.1	14.1	9.9	7	8	171	205.2	0.22	4.3
2010	2	2	11	26	51.0	0.55	38.000	8.6	47.000	9.2	14.1	7.5	5	5	187	209.9	0.16	3.5
2010	2	2	13	46	24.0	0.61	37.904	13.2	46.898	14.2	14.1	5.7	5	7	169	209.4	0.20	3.7
2010	2	3	22	39	45.2	0.59	28.588	4.0	57.012	11.9	14.1	7.0	5	5	211	155.5	0.16	4.3
2010	2	4	19	53	28.3	0.90	36.686	6.4	45.346	13.0	16.2	0.0	6	7	215	252.8	0.33	3.6
2010	2	5	2	22	50.9	0.60	30.962	4.8	50.190	9.8	18.0	14.9	6	7	177	183.1	0.18	3.8
2010	2	5	5	57	7.3	0.53	27.549	4.2	52.223	4.5	14.1	7.2	5	7	236	111.0	0.18	3.9

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	Dmin	Rms	M <sub>L</sub>
2010	2	7	18	40	6.1	0.35	28.638	7.8	51.460	3.4	14.2	10.2	5	7	228	154.5	0.08	3.5
2010	2	7	21	20	22.2	0.30	28.375	4.8	54.315	5.5	26.8	11.2	6	6	146	130.6	0.03	3.7
2010	2	8	21	20	54.7	1.18	28.301	8.6	54.210	4.8	15.0	0.0	5	5	153	120.0	0.45	3.8
2010	2	10	2	29	9.6	0.75	39.536	11.0	53.927	5.0	28.7	0.0	5	6	234	280.8	0.31	3.6
2010	2	11	8	9	57.2	0.34	28.156	8.0	51.421	4.3	18.0	6.9	5	6	279	154.3	0.08	3.5
2010	2	11	16	29	40.8	1.29	33.317	7.9	47.131	14.9	14.9	10.2	9	13	236	198.0	0.44	4.3
2010	2	11	21	7	52.6	0.36	30.931	2.9	50.117	5.2	15.0	7.6	7	7	181	180.7	0.08	3.9
2010	2	12	8	29	17.1	0.46	30.523	8.5	49.904	7.3	41.6	6.4	5	6	283	204.8	0.13	4.2
2010	2	14	3	26	47.2	0.29	30.578	5.3	49.909	4.4	43.0	3.9	6	7	281	199.8	0.03	4.2
2010	2	15	9	18	29.5	0.29	28.626	1.7	54.959	1.3	17.1	3.1	8	8	121	180.8	0.06	3.6
2010	2	18	21	8	10.8	0.72	30.743	4.6	50.244	5.7	14.2	0.0	9	9	183	204.3	0.27	4.5
2010	2	19	11	25	45.6	0.85	35.718	3.7	57.593	6.1	14.1	8.1	8	8	136	220.5	0.30	4.3
2010	2	19	23	29	1.3	1.21	32.088	4.0	59.270	5.7	18.0	11.0	4	6	123	197.5	0.40	3.5
2010	2	20	7	49	19.3	0.37	30.741	3.0	50.249	6.6	14.2	8.4	7	7	183	204.7	0.09	3.5
2010	2	20	9	33	53.2	0.36	30.785	3.1	50.313	5.8	14.1	8.4	5	6	180	205.4	0.07	3.9
2010	2	20	9	36	43.2	0.41	31.224	2.9	50.344	5.7	16.8	9.0	7	7	163	176.2	0.10	4.0
2010	2	20	16	48	9.7	0.44	40.423	7.1	46.959	6.0	14.1	7.3	5	6	259	196.3	0.13	3.6
2010	2	23	1	59	28.4	0.82	35.942	10.1	53.470	6.9	15.0	0.0	4	5	280	139.9	0.33	3.6
2010	2	23	7	28	2.3	0.63	32.582	2.7	48.420	5.8	14.1	6.0	10	11	191	63.6	0.24	4.9
2010	2	23	10	25	55.0	0.91	32.583	5.2	48.371	8.8	14.2	9.6	8	8	199	66.4	0.28	4.7
2010	2	23	19	31	48.9	1.09	32.557	4.6	48.418	9.5	14.1	10.9	7	8	197	61.5	0.37	4.1
2010	2	24	4	51	44.5	0.43	34.533	1.6	52.094	2.7	14.1	4.0	8	8	166	78.1	0.12	3.5
2010	2	26	3	33	15.7	0.56	34.907	4.6	46.190	11.5	14.3	0.0	6	6	267	298.6	0.20	3.5
2010	3	1	21	17	31.9	0.57	31.122	3.1	56.931	4.2	28.8	7.8	6	6	106	127.5	0.15	3.6
2010	3	1	23	26	33.2	1.37	32.546	4.7	48.344	7.0	15.0	6.1	9	11	204	64.9	0.51	3.9
2010	3	4	1	13	29.2	1.14	32.087	5.4	56.184	8.3	15.0	0.0	4	4	118	194.1	0.37	3.5
2010	3	4	3	24	23.0	0.66	37.403	6.3	54.282	7.5	22.5	12.7	4	6	199	162.3	0.19	4.5
2010	3	4	16	38	48.3	1.93	35.747	6.2	49.006	4.9	15.0	10.1	7	9	100	106.5	0.55	3.6
2010	3	8	16	39	35.4	1.59	30.306	8.1	57.706	5.8	15.0	0.0	5	6	103	97.9	0.57	3.8
2010	3	9	3	22	15.3	0.99	36.357	6.6	51.806	9.9	6.1	9.3	6	7	252	78.9	0.28	3.8
2010	3	14	12	1	35.7	0.66	29.775	4.4	51.388	4.6	15.4	12.5	4	6	181	226.9	0.20	3.7
2010	3	17	13	32	30.7	0.45	30.672	12.3	50.259	10.5	16.9	11.0	7	8	258	211.1	0.12	3.5
2010	3	18	23	39	9.9	0.43	34.222	3.8	54.415	2.6	18.0	9.1	6	7	158	217.2	0.10	3.5
2010	3	19	1	52	7.2	0.42	38.629	7.5	55.647	5.3	33.0	8.2	8	8	209	185.6	0.13	4.2

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	Dmin	Rms	M <sub>L</sub>
2010	3	19	14	17	29.3	1.69	35.688	7.3	48.944	8.0	15.3	15.0	5	7	196	159.5	0.46	3.5
2010	3	23	2	20	24.2	1.07	30.811	3.6	56.746	13.5	15.0	0.0	3	4	173	91.8	0.38	3.5
2010	3	24	21	54	35.0	0.69	36.297	2.3	56.891	3.9	18.0	4.9	6	8	116	162.3	0.26	3.5
2010	3	29	10	25	42.9	1.72	35.578	6.9	49.489	6.3	46.0	0.0	6	7	106	124.3	0.67	3.6
2010	3	29	22	34	11.8	0.76	35.814	7.3	52.792	5.4	15.4	9.2	6	7	206	77.0	0.20	3.7



**260 events during 2010/01/01 to 2010/03/31**

**Magnitude**

● $2.5 \leq M < 3$	● $3 \leq M < 4$	● $4 \leq M < 5$	● $5 \leq M < 6$	● $6 \leq M < 7$
N = 110	N = 124	N = 26	N = 0	N = 0

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)*