

Seismological Bulletin

*Broadband Iranian National Seismic Network Center
(BIN)*

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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
SHRD	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 chaine de collision continentale du Zagros (Iran): structure litospherique par analyse de donnees 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.

April 2 2009 Hour: 7:17 36.7 Lat: 33.68N Lon: 48.80E 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	175	180	EPg		718	5.54	0.1							1.0
SHGR	BN	175	180	AML		718	32.63			693	0.5				
SNGE	BZ	205	320	EPg		718	10.19	-0.3							1.0
SNGE	BN	205	320	AML		718	46.99			381	0.6				
GHVR	BZ	243	68	EPg		718	15.60	-0.7							1.0
GHVR	BE	243	68	AML		718	46.90			316	0.5				
GHVR	BN	243	68	AML		718	54.87			251	0.5				
THKV	BZ	312	37	EPn		718	23.90	0.7							1.0
THKV	BN	312	37	AML		719	7.58			128	0.6				
CHTH	BZ	326	40	EPn		718	25.35	0.4							0.9
DAMV	BZ	362	53	EPn		718	29.45	0.0							0.9
TABS	BZ	772	88	EPn		719	19.96	-0.1							0.6

April 2 2009 Hour: 13:19 36.1 Lat: 37.07N Lon: 54.35E 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
MRVT	BZ	167	67	EPN5		1320	4.92	0.3							1.0
MRVT	BE	167	67	AML		1320	30.57			532	0.2				
MRVT	BN	167	67	AML		1320	31.02			539	0.2				
DAMV	BZ	267	234	EPn		1320	17.18	0.1							1.0
CHTH	BZ	316	247	EPn		1320	23.75	0.5							1.0
GHVR	BZ	402	225	EPn		1320	33.64	-0.1							0.9
GHVR	BE	402	225	AML		1321	37.77			112	0.8				
GHVR	BN	402	225	AML		1321	39.96			109	0.6				
TABS	BZ	456	146	EPn		1320	40.32	0.0							0.8
GRMI	BZ	599	291	EPn		1320	57.50	-0.8							0.7
SHRT	BZ	660	123	EPn		1321	5.01	-0.8							0.7

April 4 2009 Hour: 18:59 20.2 Lat: 31.76N Lon: 50.39E 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
SHGR	BZ	155	285	EPg		1859	46.19	0.2							1.0
SHGR	BN	155	285	AML		19 0	19.29			2324	0.9				
SHGR	BE	155	285	AML		19 0	19.51			2323	0.8				
NASN	BZ	255	63	EPn		19 0	0.13	0.3							1.0
NASN	BN	255	63	ESg		19 0	32.29	-0.2							1.0
GHVR	BZ	312	15	EPn		19 0	6.57	0.0							1.0
GHVR	BN	312	15	AML		19 0	56.50			553	0.1				
GHIR	BZ	459	146	EPn		19 0	24.50	-0.5							0.8
THKV	BZ	463	5	EPn		19 0	26.35	0.8							0.8
CHTH	BZ	465	8	EPn		19 0	25.08	-0.7							0.8
SNGE	BZ	466	323	EPn		19 0	25.26	-0.6							0.8
KRBR	BZ	640	106	EPn		19 0	47.92	0.3							0.7
TABS	BZ	664	70	EPn		19 0	50.69	0.4							0.7

April 6 2009 Hour: 19:45 16.8 Lat: 35.16N Lon: 58.57E Depth: 15 Agency: INS Local
Magnitudes: 3.5ML INS Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TABS	BZ	214	219	EPn		1945	51.69	0.7							1.0
TABS	BE	214	219	AML		1946	25.46			328	0.4				
TABS	BN	214	219	AML		1946	28.24			613	0.5				
SHRT	BZ	230	136	EPn		1945	52.80	-0.3							1.0
SHRT	BE	230	136	AML		1946	27.62			490	0.3				
SHRT	BN	230	136	AML		1946	31.69			466	0.7				
SHRD	BN	250	293	EPn		1945	55.41	-0.2							1.0
BJRD	BZ	301	340	EPn		1946	2.71	0.8							1.0
MRVT	BZ	356	322	EPn		1946	7.99	-0.7							0.9
NASN	BZ	593	245	EPn		1946	37.67	-0.8							0.7
NASN	BN	593	245	AML		1948	26.62			12	0.7				

April 7 2009 Hour: 6: 0 32.6 Lat: 37.20N Lon: 56.43E Depth: 6 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
MRVT	BZ	60	330	EPg		6 0	43.16	-0.1							1.0
BJRD	BZ	103	57	EPg		6 0	50.68	0.0							1.0
BJRD	BN	103	57	AML		6 1	11.27			1725	0.6				
SHRD	BZ	137	196	EPg		6 0	56.37	0.0							1.0
TABS	BZ	399	171	EPn		6 1	30.53	-0.1							0.9
THKV	BE	517	256	AML		6 3	19.17			81	0.5				
THKV	BN	517	256	AML		6 3	24.20			89	0.6				
NASN	BZ	589	215	EPn		6 1	54.91	0.2							0.7

April 7 2009 Hour: 11:10 37.0 Lat: 27.83N Lon: 56.64E 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
BNDS	BZ	66	224	EPg		1110	48.55	-0.1							1.0
BNDS	BN	66	224	AML		1111	5.98			4599	0.6				
BNDS	BE	66	224	AML		1111	6.50			4191	0.5				
KRBR	BZ	239	3	EPg		1111	15.99	-0.3							1.0
KRBR	BN	239	3	AML		1111	48.88			2156	0.4				
KRBR	BE	239	3	AML		1111	48.88			2211	0.6				
ZHSF	BZ	450	63	EPn		1111	40.83	0.1							0.9
ZHSF	BE	450	63	AML		1112	49.89			64	0.5				
ZHSF	BN	450	63	AML		1112	54.79			64	0.6				
NASN	BZ	663	327	EPn		1112	7.84	0.5							0.7

April 7 2009 Hour: 17:32 52.5 Lat: 32.71N Lon: 48.00E 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
SHGR	BZ	101	131	EPg		1733	9.58	0.0							1.0
SHGR	BE	101	131	AML		1733	45.33			11022	0.6				
SNGE	BZ	271	347	EPn		1733	33.85	-0.2							1.0
SNGE	BE	271	347	AML		1734	16.03			1238	0.7				
THKV	BZ	443	36	EPn		1733	55.78	0.3							0.9
NASN	BZ	451	87	EPN5		1733	56.43	-0.1							0.9
DAMV	BZ	489	47	EPN5		1734	1.35	0.2							0.8
DAMV	BN	489	47	ESg		1735	8.73	-0.2							0.8

April 8 2009 Hour: 13:36 21.7 Lat: 34.01N Lon: 47.05E Depth: 17 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	123	13	EPg		1336	42.50	0.0							1.0
SNGE	BE	123	13	ESg		1336	57.78	0.1							1.0
SHGR	BZ	267	142	EPn		1337	2.15	0.0							1.0
SHGR	BN	267	142	AML		1337	51.29			328	0.8				
SHGR	BE	267	142	AML		1337	53.60			256	0.5				
GHVR	BZ	390	81	EPn		1337	18.26	0.7							0.9
GHVR	BN	390	81	ESg		1338	10.79	0.0							0.9
GHVR	BN	390	81	AML		1338	15.91			126	0.5				
GHVR	BE	390	81	AML		1338	17.13			124	0.6				
THKV	BZ	409	58	EPn		1337	19.56	-0.4							0.9
DAMV	BZ	485	67	EPn		1337	29.07	-0.4							0.8

April 9 2009 Hour: 11:32 38.9 Lat: 27.81N Lon: 57.54E Depth: 18 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
BNDS	BZ	142	251	EPg		1133	2.77	0.1							1.0
BNDS	BE	142	251	AML		1133	22.74			5449	0.5				
BNDS	BN	142	251	AML		1133	29.58			3866	0.7				
KRBR	BZ	252	343	EPn		1133	17.84	0.1							1.0
KRBR	BE	252	343	ESg		1133	50.31	0.0							1.0
KRBR	BN	252	343	AML		1133	57.63			1392	0.5				
KRBR	BE	252	343	AML		1133	58.15			1832	0.4				

ZHSF	BZ	374	57	EPn		1133	32.77	0.0									0.9
GHIR	BZ	450	278	EPn		1133	42.04	-0.2									0.9
GHIR	BN	450	278	AML		1134	32.70			359	0.4						
GHIR	BE	450	278	AML		1134	37.22			340	0.4						

April 14 2009 Hour: 5:10 26.6 Lat: 26.87N Lon: 55.91E Depth: 8 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
BNDS	BZ	64	24	EPg		510	37.98	0.0							1.0
BNDS	BE	64	24	AML		510	49.94			7536	0.3				
GHIR	BZ	328	299	EPn		511	15.80	0.0							0.9
GHIR	BN	328	299	AML		512	8.98			220	0.6				
KRBR	BZ	354	13	EPn		511	19.28	0.0							0.9
KRBR	BN	354	13	AML		512	6.99			279	0.7				
ZHSF	BZ	566	56	EPn		511	45.41	0.0							0.8

April 15 2009 Hour: 7:40 20.5 Lat: 30.66N Lon: 50.01E Depth: 33 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	197	325	EPg		740	52.33	0.0							1.0
SHGR	BN	197	325	AML		741	21.26			6149	0.6				
KHMZ	BZ	341	359	EPn		741	9.33	0.3							0.9
NASN	BZ	356	48	EPn		741	10.53	-0.4							0.9
GHIR	BZ	391	132	EPn		741	15.28	0.2							0.9
GHIR	BN	391	132	AML		742	31.77			783	0.7				
GHVR	BZ	439	15	EPn		741	21.61	0.6							0.9
SNGE	BZ	551	334	EPn		741	34.52	-0.6							0.8
THKV	BZ	588	8	EPn		741	39.62	-0.1							0.7
KRBR	BZ	653	95	EPn		741	47.68	-0.2							0.7

April 15 2009 Hour: 7:54 2.0 Lat: 37.72N Lon: 55.90E 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
MRVT	BZ	18	112	EPg		754	5.96	-0.1							1.0
MRVT	BN	18	112	ESg		754	9.23	0.1							1.0
MRVT	BE	18	112	AML		754	9.74			52721	0.2				
SHRD	BZ	190	177	EPg		754	33.14	-0.2							1.0
DAMV	BZ	421	238	EPn		755	2.14	0.0							0.9
DAMV	BE	421	238	AML		756	4.52			113	0.5				
TABS	BZ	465	166	EPn		755	7.65	0.3							0.8

April 16 2009 Hour: 3: 2 27.3 Lat: 30.69N Lon: 50.10E Depth: 29 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
SHGR	BZ	200	322	EPg		3 2	59.29	-0.2							1.0
SHGR	BE	200	322	ESg		3 3	23.29	0.3							1.0
KHMZ	BZ	338	358	EPn		3 3	15.97	0.2							0.9
NASN	BZ	347	47	EPn		3 3	16.93	-0.1							0.9
GHIR	BZ	387	133	EPn		3 3	21.74	0.0							0.9
GHIR	BE	387	133	Sn		3 4	1.76	0.3							0.9
GHIR	BE	387	133	AML		3 4	28.06			499	0.5				
GHIR	BN	387	133	AML		3 4	38.12			443	0.7				
GHVR	BZ	434	14	EPn		3 3	28.17	0.6							0.9
GHVR	BE	434	14	AML		3 4	25.26			119	0.7				
GHVR	BN	434	14	AML		3 4	37.30			133	0.5				
SNGE	BZ	552	333	EPn		3 3	41.38	-1.0							0.8
SNGE	BN	552	333	Sn		3 4	37.15	0.0							0.8
DAMV	BZ	575	17	EPn		3 3	44.97	-0.3							0.8
DAMV	BN	575	17	AML		3 5	14.03			42	0.6				
DAMV	BE	575	17	AML		3 5	15.64			43	0.6				
THKV	BZ	584	7	EPn		3 3	46.36	0.0							0.8
THKV	BN	584	7	AML		3 5	25.13			52	0.6				
THKV	BE	584	7	AML		3 5	32.14			50	0.7				
KRBR	BZ	645	95	EPn		3 3	53.81	-0.2							0.7

ZNJK	BZ	676	349	EPn		3	3	57.90	0.1									0.7
BNDS	BZ	695	120	EPn		3	3	59.87	-0.1									0.7
TABS	BZ	739	62	EPn		3	4	5.15	-0.1									0.6
MRVT	BZ	950	34	EPn		3	4	31.40	-0.2									0.5
SHRT	BZ	1015	69	EPn		3	4	39.67	-0.1									0.4
ZHSF	BZ	1035	94	EPn		3	4	42.11	-0.2									0.4

April 21 2009 Hour: 12:26 23.3 Lat: 38.65N Lon: 48.71E 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
GRMI	BZ	74	285	EPg		1226	36.32	0.1							1.0
GRMI	BE	74	285	AML		1226	46.14			3661	0.6				
ZNJK	BZ	219	181	EPg		1226	59.08	-0.3							1.0
ZNJK	BE	219	181	ESg		1227	25.86	0.2							1.0
ZNJK	BE	219	181	AML		1227	31.04			227	0.5				
MAKU	BZ	358	284	EPn		1227	15.56	-0.1							0.9
MAKU	BN	358	284	AML		1228	10.34			98	0.4				
CHTH	BZ	371	144	EPn		1227	17.52	0.1							0.9

April 21 2009 Hour: 13:13 12.5 Lat: 27.26N Lon: 60.19E Depth: 15F 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
ZHSF	BZ	267	12	EPn		1313	53.35	0.0							1.0
BNDS	BZ	398	273	EPn		1314	9.81	0.0							0.9
BNDS	BN	398	273	AML		1314	58.63			242	0.8				
KRBR	BZ	451	313	EPn		1314	16.64	0.2							0.9
KRBR	BE	451	313	ESg		1315	18.69	0.0							0.9
KRBR	BE	451	313	AML		1315	21.51			150	0.3				
KRBR	BN	451	313	AML		1315	21.66			162	0.9				
GHIR	BZ	719	281	EPn		1314	49.36	-0.2							0.7

April 22 2009 Hour: 15:16 34.1 Lat: 30.56N Lon: 48.24E 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
SHGR	BZ	179	17	EPg		1517	3.59	0.0							1.0
SHGR	BN	179	17	ESg		1517	25.20	0.0							1.0
SHGR	BE	179	17	AML		1517	28.21			1362	0.6				
KHMZ	BZ	388	24	EPn		1517	30.11	0.0							0.9
NASN	BZ	499	59	EPn		1517	43.93	-0.1							0.8
GHVR	BZ	518	32	EPn		1517	46.15	0.0							0.8
GHVR	BE	518	32	AML		1519	9.97			26	0.5				
GHVR	BN	518	32	AML		1519	17.38			23	0.8				
GHIR	BZ	525	118	EPn		1517	47.10	0.1							0.8

April 24 2009 Hour: 18:28 48.5 Lat: 38.51N Lon: 45.22E 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
MAKU	BZ	104	334	EPg		1829	6.22	-0.1							1.0
MAKU	BE	104	334	ESg		1829	19.36	0.1							1.0
MAKU	BN	104	334	AML		1829	22.29			1856	0.2				
GRMI	BZ	235	81	EPg		1829	26.74	-0.3							1.0
GRMI	BE	235	81	ESg		1829	55.28	0.2							1.0
GRMI	BE	235	81	AML		1829	57.43			478	0.4				
ZNJK	BZ	368	123	EPn		1829	42.26	0.1							0.9

April 25 2009 Hour: 15:14 55.1 Lat: 33.14N Lon: 48.97E Depth: 15 Agency: INS Local
Magnitudes: 4.4ML INS Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KHMZ	BZ	114	54	EPg		1515	13.64	-0.8							1.0
KHMZ	BN	114	54	AML		1515	34.48			5114	1.6				
SHGR	BZ	115	188	EPg		1515	14.25	-0.2							1.0
SHGR	BN	115	188	AML		1515	35.23			16230	0.9				
THKV	BZ	355	29	EPn		1515	47.49	0.6							0.9
NASN	BZ	361	95	EPn		1515	48.43	0.6							0.9

CHTH	BZ	366	32	EPn		1515	48.61	0.2									0.9
DAMV	BZ	391	44	EPn		1515	51.65	0.2									0.9
DAMV	BN	391	44	AML		1516	55.50			849	1.1						
DAMV	BE	391	44	AML		1516	56.25			785	0.5						
ZNJK	BZ	393	356	EPn		1515	51.46	-0.3									0.9
TABS	BZ	761	83	EPn		1516	36.83	-0.2									0.6

April 30 2009 Hour: 10: 4 29.8 Lat: 27.89N Lon: 61.15E Depth: 41 Agency: INS Local
Magnitudes: 5.0ML INS Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
ZHSF	BZ	195	349	EPg		10	5	1.97	0.4						1.0
ZHSF	BN	195	349	ESg		10	5	24.47	-0.2						1.0
BNDS	BZ	494	265	EPn		10	5	36.65	0.1						0.8
BNDS	BN	494	265	AML		10	6	34.46		1452	0.4				
SHRT	BZ	644	353	EPn		10	5	54.04	-0.9						0.7
SHRT	BN	644	353	Sn		10	6	57.60	0.4						0.7
SHRT	BN	644	353	AML		10	7	35.26		488	0.6				
SHRT	BE	644	353	AML		10	7	52.06		550	0.7				
GHIR	BZ	804	275	EPn		10	6	14.42	-0.5						0.6
MRVT	BZ	1183	338	EPn		10	7	2.68	0.7						0.3
GHVR	BZ	1193	310	EPn		10	7	3.81	0.6						0.3
DAMV	BZ	1221	317	EPn		10	7	7.56	0.6						0.3
SHGR	BZ	1279	294	EPn		10	7	13.50	-0.3						0.2

May 1 2009 Hour: 22:30 11.8 Lat: 29.19N Lon: 51.57E Depth: 42 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
GHIR	BZ	170	126	EPg		2230	39.79	0.0							1.0
GHIR	BN	170	126	AML		2231	6.76			4456	0.4				
GHIR	BE	170	126	AML		2231	9.68			4484	0.5				
NASN	BZ	418	16	EPn		2231	8.79	-0.2							0.9
BNDS	BZ	493	113	EPn		2231	17.85	-0.3							0.8
BNDS	BN	493	113	AML		2232	54.20			203	0.6				
KRBR	BZ	510	79	EPn		2231	20.98	0.5							0.8
KRBR	BE	510	79	AML		2232	35.39			196	0.7				
KRBR	BN	510	79	AML		2233	3.53			172	0.6				
KHMZ	BZ	528	344	EPn		2231	22.86	0.3							0.8
GHVR	BZ	588	357	EPn		2231	30.19	0.3							0.7
GHVR	BE	588	357	AML		2232	33.89			128	0.3				
DAMV	BZ	716	3	EPn		2231	45.50	-0.4							0.7
TABS	BZ	723	45	EPn		2231	46.30	-0.2							0.6
CHTH	BZ	747	357	EPn		2231	49.50	-0.3							0.6
THKV	BZ	749	355	EPn		2231	50.29	0.3							0.6
ZNJK	BZ	873	343	EPn		2232	5.17	-0.3							0.5

May 4 2009 Hour: 1:10 47.0 Lat: 29.83N Lon: 56.85E Depth: 9 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	19	333	EPg		110	51.11	0.0							1.0
KRBR	BN	19	333	AML		110	55.29			20252	0.2				
KRBR	BE	19	333	AML		110	55.77			20995	0.2				
BNDS	BZ	277	194	EPn		111	29.79	-0.1							1.0
BNDS	BN	277	194	AML		112	10.70			197	0.3				
ZHSF	BZ	381	93	EPn		111	42.81	0.1							0.9
TABS	BZ	425	3	EPn		111	47.82	-0.2							0.9
TABS	BN	425	3	AML		112	52.86			85	0.6				
NASN	BZ	507	312	EPn		111	58.70	0.2							0.8

May 7 2009 Hour: 22:44 4.0 Lat: 25.73N Lon: 56.98E 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
BNDS	BZ	202	337	EPg		2244	36.83	-0.4							1.0
BNDS	BN	202	337	ESg		2245	1.66	0.2							1.0
BNDS	BN	202	337	AML		2245	18.46			6413	0.4				
KRBR	BZ	472	357	EPn		2245	10.82	0.2							0.8
KRBR	BE	472	357	AML		2246	8.34			976	0.6				
KRBR	BN	472	357	AML		2246	30.43			865	0.8				
GHIR	BZ	487	306	EPn		2245	12.62	0.3							0.8
GHIR	BN	487	306	Sn		2246	1.96	-0.2							0.8
GHIR	BE	487	306	AML		2246	9.76			2111	0.8				
GHIR	BN	487	306	AML		2246	15.14			1681	0.5				
ZHSF	BZ	570	40	EPn		2245	22.67	0.0							0.8
THKV	BZ	1271	334	EPn		2246	49.92	0.2							0.2

May 10 2009 Hour: 1: 7 34.0 Lat: 25.62N Lon: 56.97E Depth: 14 Agency: INS Local
Magnitudes: 4.1ML INS Rms: 0.0 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	213	338	EPg		1 8	8.97	0.0							1.0
BNDS	BN	213	338	AML		1 8	50.79			1115	0.3				
KRBR	BZ	484	358	EPn		1 8	42.10	0.0							0.8
KRBR	BN	484	358	AML		1 9	59.88			155	0.5				
KRBR	BE	484	358	AML		110	0.28			246	0.3				
GHIR	BZ	494	308	EPn		1 8	43.14	0.0							0.8
GHIR	BN	494	308	AML		1 9	39.44			167	0.2				
GHIR	BE	494	308	AML		1 9	40.82			180	0.4				
ZHSF	BZ	580	39	EPN5		1 8	53.88	0.0							0.8

May 11 2009 Hour: 2:14 5.1 Lat: 30.29N Lon: 57.50E Depth: 17 Agency: INS Local
Magnitudes: 4.7ML INS Rms: 0.2 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
KRBR	BZ	79	245	EPg		214	19.01	0.1							1.0
KRBR	BN	79	245	ESg		214	29.12	0.1							1.0
KRBR	BN	79	245	AML		214	29.79			41401	0.3				
ZHSF	BZ	325	103	EPn		214	52.99	0.1							0.9
BNDS	BZ	346	202	EPn		214	55.40	0.0							0.9
TABS	BZ	374	355	EPn		214	58.72	-0.1							0.9
TABS	BE	374	355	ESg		215	49.62	0.0							0.9
TABS	BN	374	355	AML		216	0.44			1686	0.6				
GHIR	BZ	492	244	EPn		215	13.03	-0.5							0.8
NASN	BZ	525	303	EPn		215	18.19	0.3							0.8

May 12 2009 Hour: 1:37 6.3 Lat: 32.38N Lon: 58.99E Depth: 15 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
SHRT	BZ	185	41	EPg		137	37.04	0.2							1.0
SHRT	BE	185	41	AML		138	3.75			5421	0.7				
TABS	BZ	224	309	EPg		137	42.40	-0.6							1.0
TABS	BN	224	309	ESg		138	9.98	0.3							1.0
TABS	BE	224	309	AML		138	16.00			1823	0.6				
TABS	BN	224	309	AML		138	21.37			3046	0.5				
KRBR	BZ	341	219	EPn		137	56.52	0.0							0.9
KRBR	BE	341	219	ESg		138	42.23	0.2							0.9
KRBR	BN	341	219	AML		138	55.12			2084	0.5				
KRBR	BE	341	219	AML		138	56.01			1550	0.5				
NASN	BZ	582	276	EPn		138	26.37	-0.2							0.8
NASN	BN	582	276	AML		139	57.10			218	0.6				
NASN	BE	582	276	AML		140	10.15			184	0.5				
BNDS	BZ	616	207	EPn		138	30.22	-0.3							0.7
DAMV	BZ	742	301	EPn		138	46.24	0.0							0.6
GHVR	BZ	757	290	EPn		138	48.53	0.6							0.6
CHTH	BZ	824	300	EPn		138	56.50	0.0							0.6

May 12 2009 Hour: 6:30 51.3 Lat: 30.19N Lon: 57.45E Depth: 7 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
KRBR	BZ	70	251	EPg		631	3.84	0.0							1.0
KRBR	BE	70	251	ESg		631	13.05	0.0							1.0
ZHSF	BE	327	100	AML		632	24.62			248	0.5				
ZHSF	BN	327	100	AML		632	27.33			240	0.7				
BNDS	BZ	333	202	EPn		631	41.38	0.1							0.9
TABS	BZ	385	355	EPn		631	47.48	-0.1							0.9
GHIR	BZ	482	245	EPn		631	59.66	-0.1							0.8
NASN	BZ	528	304	EPn		632	5.73	0.1							0.8
NASN	BN	528	304	AML		633	33.91			71	0.5				
NASN	BE	528	304	AML		633	44.95			62	0.5				
MRVT	BZ	838	352	EPn		632	44.15	0.2							0.6

May 12 2009 Hour: 9:35 19.0 Lat: 39.58N Lon: 52.81E Depth: 15 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
GRMI	BZ	433	260	EPn		936	20.65	0.2							1.0
CHTH	BZ	434	200	EPn		936	20.63	-0.1							1.0
THKV	BZ	441	203	EPn		936	21.48	0.0							1.0
THKV	BE	441	203	AML		937	15.34			102	0.2				
DAMV	BZ	445	190	EPn		936	22.37	0.3							1.0
BJRD	BZ	452	116	EPn		936	22.74	-0.1							1.0
ZNJK	BZ	485	229	EPn		936	26.58	-0.4							1.0
ZNJK	BE	485	229	AML		937	23.17			61	0.2				

May 13 2009 Hour: 23:39 51.4 Lat: 28.34N Lon: 55.38E Depth: 14 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
BNDS	BZ	130	143	EPg		2340	13.44	0.1							1.0
BNDS	BN	130	143	ESg		2340	29.31	0.0							1.0
BNDS	BN	130	143	AML		2340	35.11			2050	0.5				
KRBR	BZ	226	36	EPg		2340	27.71	-0.8							1.0
KRBR	BE	226	36	AML		2341	0.12			806	0.6				
KRBR	BN	226	36	AML		2341	7.04			860	0.5				
GHIR	BZ	235	269	EPg		2340	29.72	-0.2							1.0
GHIR	BE	235	269	AML		2341	10.02			517	0.7				
GHIR	BN	235	269	AML		2341	23.53			601	0.5				
ZHSF	BZ	544	74	EPn		2341	6.86	0.1							0.8
NASN	BZ	552	334	EPn		2341	8.31	0.3							0.8
TABS	BZ	611	15	EPn		2341	15.69	0.7							0.7
SHRT	BZ	752	37	EPn		2341	33.11	0.6							0.6

May 17 2009 Hour: 1: 5 11.2 Lat: 27.71N Lon: 52.21E Depth: 17 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	100	50	EPg		1 5	28.21	0.1							1.0
GHIR	BE	100	50	ESg		1 5	40.53	0.0							1.0
GHIR	BN	100	50	AML		1 5	46.53			6526	0.3				
GHIR	BE	100	50	AML		1 5	47.68			3979	0.4				
BNDS	BZ	393	94	EPn		1 6	7.51	0.0							0.9
BNDS	BN	393	94	Sn		1 6	48.71	0.1							0.9
BNDS	BN	393	94	AML		1 7	23.20			192	0.5				
KRBR	BZ	511	59	EPn		1 6	22.00	-0.2							0.8
KRBR	BE	511	59	AML		1 7	18.34			108	0.3				
KRBR	BN	511	59	AML		1 7	18.75			104	0.3				
DAMV	BZ	878	359	EPn		1 7	8.07	0.2							0.5

May 18 2009 Hour: 5:36 4.4 Lat: 40.66N Lon: 50.97E 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
GRMI	BZ	335	233	EPn		536	53.76	0.1							1.0
ZNJK	BZ	486	205	EPn		537	12.39	-0.2							0.9
CHTH	BZ	528	179	EPn		537	17.49	-0.3							0.8
MRVT	BZ	554	125	EPn		537	20.71	-0.1							0.8
MRVT	BE	554	125	AML		538	16.99			43	0.2				
DAMV	BZ	565	171	EPn		537	22.97	0.5							0.8
DAMV	BN	565	171	AML		538	21.29			28	0.3				
TABS	BZ	950	143	EPn		538	9.92	0.0							0.5

May 22 2009 Hour: 10:32 21.4 Lat: 27.10N Lon: 55.85E Depth: 14 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	46	44	EPg		1032	29.82	0.0							1.0
GHIR	BZ	311	296	EPn		1033	7.78	0.0							1.0
GHIR	BE	311	296	ESg		1033	48.75	0.0							1.0
GHIR	BE	311	296	AML		1034	22.34			307	0.4				
GHIR	BN	311	296	AML		1034	23.02			296					
KRBR	BZ	331	15	EPn		1033	10.57	0.1							0.9
KRBR	BE	331	15	AML		1034	7.32			121	0.5				

May 22 2009 Hour: 18:5 9.3 Lat: 28.81N Lon: 51.51E 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	155	112	EPg		18 5	35.09	0.0							1.0
GHIR	BE	155	112	AML		18 6	1.39			1529	0.5				
GHIR	BN	155	112	AML		18 6	1.75			1480	0.6				
BNDS	BZ	484	108	EPn		18 6	17.21	0.1							0.8
KRBR	BZ	525	74	EPn		18 6	22.33	-0.1							0.8
KRBR	BE	525	74	AML		18 7	53.48			51	0.7				
KRBR	BN	525	74	AML		18 7	54.17			38	0.9				
KHMZ	BZ	566	345	EPn		18 6	27.57	0.2							0.8
SNGE	BZ	800	332	EPn		18 6	56.12	-0.3							0.6

May 23 2009 Hour: 12:22 45.6 Lat: 30.90N Lon: 49.84E Depth: 39 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	167	324	EPg		1223	12.88	0.0							1.0
SHGR	BN	167	324	AML		1223	35.74			3059	0.4				
SHGR	BE	167	324	AML		1223	36.48			2141	0.6				
KHMZ	BZ	316	2	EPn		1223	30.49	0.2							1.0
KHMZ	BE	316	2	ESg		1224	12.42	0.0							1.0
KHMZ	BE	316	2	AML		1224	17.06			229	0.8				
GHVR	BZ	419	18	EPn		1223	43.07	0.1							0.9
SNGE	BZ	520	334	EPn		1223	55.56	-0.2							0.8
TABS	BZ	751	64	EPn		1224	23.97	-0.1							0.6

May 26 2009 Hour: 10:39 5.2 Lat: 27.32N Lon: 53.56E 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
GHIR	BZ	121	333	EPg		1039	25.84	0.2							1.0
GHIR	BN	121	333	ESg		1039	40.37	-0.2							1.0
GHIR	BN	121	333	AML		1039	46.10			3749	0.4				
BNDS	BZ	259	87	EPg		1039	47.30	-0.2							1.0
BNDS	BE	259	87	AML		1040	44.92			1214	0.5				
KRBR	BZ	431	46	EPn		1040	6.90	0.2							0.9
KRBR	BN	431	46	Sn		1040	51.61	0.1							0.9
KRBR	BE	431	46	AML		1041	19.61			480	0.6				

May 26 2009 Hour: 23:52 45.8 Lat: 34.01N Lon: 48.52E Depth: 15F Agency: INS Local
 Magnitudes: 4.7ML INS Rms: 0.6 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SNGE	BZ	161	318	EPg		2353	12.05	-0.6							1.0
SNGE	BE	161	318	AML		2353	40.92		6508	0.4					
SHGR	BZ	213	173	EPg		2353	20.55	-0.1							1.0
SHGR	BE	213	173	AML		2353	49.16		8192	0.6					
SHGR	BN	213	173	AML		2353	52.12		13641	0.6					
GHVR	BZ	256	78	EPn		2353	25.61	0.3							1.0
GHVR	BN	256	78	ESg		2353	57.33	-0.8							1.0
GHVR	BN	256	78	AML		2354	5.43		5378	0.7					
GHVR	BE	256	78	AML		2354	6.48		4773	0.6					
CHTH	BZ	317	48	EPn		2353	34.07	1.0							1.0
DAMV	BZ	363	59	EPn		2353	39.19	0.4							0.9
DAMV	BN	363	59	AML		2354	30.32		1328	0.5					

May 27 2009 Hour: 0:10 48.8 Lat: 34.00N Lon: 48.49E 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
SNGE	BZ	161	319	EPg		011	15.55	0.0							1.0
SNGE	BE	161	319	ESg		011	34.94	-0.2							1.0
SNGE	BN	161	319	AML		011	39.18		1654	1.0					
SHGR	BZ	211	172	EPg		011	23.10	-0.3							1.0
SHGR	BE	211	172	AML		011	52.21		1410	0.3					
SHGR	BN	211	172	AML		011	54.82		1851	0.4					
GHVR	BZ	259	77	EPn		011	28.88	0.2							1.0
GHVR	BN	259	77	AML		012	7.97		911	0.5					
GHVR	BE	259	77	AML		012	9.28		961	0.7					
ZNJK	BZ	297	3	EPn		011	34.03	0.4							1.0
THKV	BZ	305	45	EPn		011	34.90	0.4							1.0
THKV	BN	305	45	ESg		012	13.97	-0.6							1.0
CHTH	BZ	321	48	EPn		011	36.77	0.3							0.9
DAMV	BZ	366	59	EPn		011	41.93	-0.3							0.9

May 27 2009 Hour: 8:29 18.6 Lat: 33.98N Lon: 48.44E Depth: 15F 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
SNGE	BZ	159	321	EPg		829	45.05	0.0							1.0
SHGR	BZ	211	171	EPg		829	53.06	-0.1							1.0
SHGR	BE	211	171	AML		830	23.25		686	0.5					
SHGR	BN	211	171	AML		830	23.44		1764	0.6					
GHVR	BZ	265	77	EPn		829	59.09	0.0							1.0
GHVR	BE	265	77	AML		830	32.30		488	0.6					
GHVR	BN	265	77	AML		830	36.69		470	0.3					
CHTH	BZ	325	48	EPn		830	7.03	0.1							0.9
DAMV	BZ	371	60	EPn		830	12.33	-0.3							0.9
DAMV	BE	371	60	AML		831	5.17		149	0.6					
DAMV	BN	371	60	AML		831	11.73		137	0.6					
GHIR	BZ	766	144	EPn		831	1.63	0.2							0.6
TABS	BZ	804	90	EPn		831	6.42	0.3							0.6

May 28 2009 Hour: 12:44 9.9 Lat: 32.45N Lon: 48.21E 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
SHGR	BZ	67	124	EPg		1244	21.78	0.1							1.0
SNGE	BZ	304	345	EPn		1244	55.26	0.1							1.0
SNGE	BN	304	345	AML		1245	44.03		228	0.6					
SNGE	BE	304	345	AML		1245	44.33		155	0.6					
GHVR	BZ	361	51	EPn		1245	2.43	0.3							0.9
GHVR	BN	361	51	AML		1246	1.73		126	0.6					
GHVR	BE	361	51	AML		1246	4.79		96	0.8					
NASN	BZ	433	84	EPn		1245	11.06	-0.3							0.9
ZNJK	BZ	470	5	EPn		1245	15.89	0.0							0.8

DAMV BZ	495	44	EPn	1245	18.39	-0.5									0.8
DAMV BN	495	44	ESg	1246	28.10	0.1									0.8

May 29 2009 Hour: 16:17 16.0 Lat: 28.07N Lon: 57.47E 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
BNDS	BZ	148	240	EPg		1617	40.83	0.1							1.0
BNDS	BN	148	240	ESg		1617	58.75	0.0							1.0
KRBR	BZ	223	342	EP		1617	51.30	0.0							1.0
KRBR	BE	223	342	ESg		1618	19.59	0.1							1.0
KRBR	BE	223	342	AML		1618	26.72		814	0.6					
KRBR	BN	223	342	AML		1618	29.65		654	0.5					
ZHSF	BZ	365	61	EP		1618	8.86	0.0							0.9
ZHSF	BE	365	61	ESg		1618	58.35	0.0							0.9
GHIR	BZ	441	274	EP		1618	18.10	-0.1							0.9
TABS	BZ	620	357	EP		1618	40.11	-0.1							0.7
NASN	BZ	689	321	EP		1618	49.23	-0.1							0.7

May 30 2009 Hour: 12:21 20.3 Lat: 32.55N Lon: 48.29E Depth: 15 Agency: INS Local
Magnitudes: 3.6ML INS Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	69	136	EPg		1221	31.73	-0.6							1.0
SHGR	BE	69	136	ESg		1221	41.63	0.5							1.0
SHGR	BN	69	136	AML		1221	56.00		2891	0.7					
SHGR	BE	69	136	AML		1221	56.03		3178	0.3					
KHMZ	BZ	204	49	EPg		1221	53.95	0.0							1.0
KHMZ	BN	204	49	AML		1222	27.12		454	0.5					
NASN	BZ	424	85	EPn		1222	20.67	-0.3							0.9
ZNJK	BZ	458	4	EPn		1222	25.68	0.6							0.8
DAMV	BZ	481	44	EPn		1222	27.76	-0.2							0.8

May 30 2009 Hour: 16: 6 34.2 Lat: 32.58N Lon: 47.83E Depth: 29 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	105	119	EPg		16 6	51.99	0.0							1.0
SHGR	BE	105	119	AML		16 7	13.35		8162	1.4					
SHGR	BN	105	119	AML		16 7	13.64		6486	1.0					
KHMZ	BZ	237	57	EPg		16 7	12.37	0.0							1.0
KHMZ	BE	237	57	AML		16 7	56.82		316	0.9					
SNGE	BZ	283	351	EPn		16 7	15.76	0.0							1.0
NASN	BZ	468	86	EPn		16 7	38.94	0.1							0.8
NASN	BN	468	86	AML		16 9	9.12		46	0.7					
DAMV	BZ	511	47	EPn		16 7	44.25	0.1							0.8
TABS	BZ	875	80	EPn		16 8	28.81	-0.3							0.5

June 2 2009 Hour: 14:39 31.5 Lat: 40.28N Lon: 52.92E Depth: 15F Agency: INS Local
Magnitudes: 5.7ML INS Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
MRVT	BZ	400	136	EPn		1440	28.79	-0.1							1.0
MRVT	BE	400	136	AML		1441	7.71		9087	0.4					
MRVT	BN	400	136	AML		1441	9.01		9661	0.6					
GRMI	BZ	462	251	EPn		1440	36.45	-0.1							0.9
CHTH	BZ	510	198	EPn		1440	42.02	-0.7							0.9
THKV	BZ	517	201	EPn		1440	43.31	-0.1							0.9
THKV	BN	517	201	AML		1441	37.30		13644	0.6					
THKV	BE	517	201	AML		1441	39.27		8147	0.5					
DAMV	BZ	523	189	EPn		1440	44.34	0.0							0.9
DAMV	BE	523	189	AML		1441	39.72		5431	0.4					
DAMV	BN	523	189	AML		1441	43.32		6683	0.6					
SHRD	BZ	546	149	EPn		1440	47.22	0.2							0.9
GHVR	BZ	661	193	EPn		1441	1.68	0.5							0.8
ASAO	BZ	686	203	EPn		1441	4.51	0.0							0.8
SNGE	BZ	757	222	EPn		1441	13.79	0.5							0.7
KHMZ	BZ	772	201	EPn		1441	15.91	0.7							0.7

TABS BZ	825	152	EPn	1441	21.72	0.2									0.6
NASN BZ	830	181	EPn	1441	21.98	-0.6									0.6

June 2 2009 Hour: 22:34 33.7 Lat: 27.30N Lon: 54.05E Depth: 46 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	151	317	EPg		2234	59.12	0.2							1.0
GHIR	BN	151	317	ESg		2235	17.28	-0.1							1.0
GHIR	BE	151	317	AML		2235	22.17			1456	0.8				
GHIR	BN	151	317	AML		2235	29.59			1333	0.4				
BNDS	BZ	210	86	EPn		2235	4.51	-0.2							1.0
KRBR	BZ	398	41	EPn		2235	28.39	0.2							0.9
KRBR	BN	398	41	AML		2236	28.86			135	0.6				
KRBR	BE	398	41	AML		2236	33.48			125	0.5				
NASN	BZ	621	349	EPn		2235	55.91	0.0							0.7
ZHSF	BZ	707	67	EPn		2236	6.53	0.2							0.7
TABS	BZ	763	22	EPn		2236	12.96	-0.2							0.6
SHRT	BZ	924	39	EP		2236	33.26	0.0							0.5

June 4 2009 Hour: 14:20 1.2 Lat: 40.76N Lon: 50.59E Depth: 30 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
GRMI	BZ	317	228	EPn		1420	46.87	0.0							1.0
GRMI	BE	317	228	AML		1421	19.32			1209	0.5				
THKV	BZ	538	177	EPn		1421	14.49	0.0							0.8
CHTH	BZ	541	175	EPn		1421	14.50	-0.3							0.8
CHTH	BE	541	175	AML		1422	8.73			224	0.2				
MRVT	BZ	586	124	EPn		1421	20.28	0.0							0.8
MRVT	BE	586	124	AML		1422	19.54			394	0.3				
MRVT	BN	586	124	AML		1422	20.26			324	0.3				
ASAO	BZ	691	184	EPn		1421	33.61	0.1							0.7
GHVR	BZ	699	175	EPn		1421	34.56	0.2							0.7
GHVR	BN	699	175	Sn		1422	42.31	0.0							0.7
SHRD	BZ	709	136	EPn		1421	35.54	0.0							0.7
NASN	BZ	905	167	EPn		1422	0.29	0.1							0.5

June 7 2009 Hour: 12:43 32.9 Lat: 32.81N Lon: 56.38E 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
TABS	BZ	115	36	EPg		1243	52.16	-0.1							1.0
KRBR	BZ	316	173	EPn		1244	20.13	0.0							1.0
KRBR	BN	316	173	ESg		1245	1.93	0.0							1.0
KRBR	BN	316	173	AML		1245	3.84			256	0.6				
KRBR	BE	316	173	AML		1245	9.43			235	0.6				
NASN	BZ	335	271	EPn		1244	22.46	0.0							0.9
NASN	BN	335	271	AML		1245	5.71			94	0.3				
NASN	BE	335	271	AML		1245	8.83			94	0.5				
SHRD	BZ	356	355	EPN5		1244	24.95	0.1							0.9
SHRT	BZ	376	75	EPN5		1244	27.39	0.1							0.9

June 8 2009 Hour: 18:13 57.6 Lat: 25.83N Lon: 56.36E 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
BNDS	BZ	175	354	EPg		1814	26.56	0.1							1.0
BNDS	BN	175	354	ESg		1814	47.53	-0.1							1.0
BNDS	BE	175	354	AML		1814	53.23			900	0.5				
BNDS	BN	175	354	AML		1814	55.84			1229	0.6				
GHIR	BZ	431	310	EPn		1814	58.66	-0.1							0.9
GHIR	BN	431	310	AML		1815	58.39			91	0.7				
GHIR	BE	431	310	AML		1816	22.16			83	0.5				
KRBR	BZ	462	5	EPn		1815	3.08	0.3							0.8
KRBR	BN	462	5	Sn		1815	50.32	0.0							0.8
ZHSF	BN	604	45	EPn		1815	20.11	-0.2							0.7

June 9 2009 Hour: 22:55 15.1 Lat: 35.77N Lon: 52.60E 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
CHTH	BZ	134	277	EPg		2255	37.36	-0.3							1.0
THKV	BZ	156	276	EPg		2255	41.31	0.2							1.0
THKV	BN	156	276	AML		2256	13.71			1052	0.6				
THKV	BE	156	276	AML		2256	14.55			1014	0.8				
GHVR	BZ	189	221	EPg		2255	46.20	-0.1							1.0
GHVR	BN	189	221	AML		2256	22.64			996	0.4				
GHVR	BE	189	221	AML		2256	22.92			1138	0.6				
ASAO	BZ	271	241	EPn		2255	56.73	0.1							1.0
ASAO	BN	271	241	ESg		2256	31.75	0.0							1.0
ASAO	BN	271	241	AML		2256	41.22			460	0.5				
KHMZ	BZ	330	228	EPn		2256	3.94	-0.1							0.9
SNGE	BZ	483	263	EPn		2256	23.18	0.2							0.8

June 11 2009 Hour: 12:38 20.7 Lat: 29.82N Lon: 57.69E 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
KRBR	BZ	92	281	EPg		1238	36.25	-0.3							1.0
ZHSF	BZ	299	94	EPn		1239	6.44	0.8							1.0
ZHSF	BN	299	94	ESg		1239	44.36	-0.5							1.0
BNDS	BZ	307	209	EPn		1239	6.63	0.0							1.0
BNDS	BE	307	209	AML		1239	56.05			166	0.5				
BNDS	BN	307	209	AML		1240	3.87			137	0.6				
TABS	BZ	428	353	EPn		1239	21.24	-0.1							0.9
TABS	BN	428	353	Sn		1240	5.82	0.1							0.9
TABS	BN	428	353	AML		1240	27.89			135	0.7				
TABS	BE	428	353	AML		1240	31.24			74	0.7				

June 12 2009 Hour: 4:1 27.8 Lat: 31.83N Lon: 49.42E Depth: 15 Agency: INS Local
Magnitudes: 3.7ML INS Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	66	298	EPg		4 1	39.71	0.3							1.0
KHMZ	BZ	217	13	EPg		4 2	2.80	-0.7							1.0
KHMZ	BE	217	13	ESg		4 2	30.02	0.4							1.0
KHMZ	BN	217	13	AML		4 2	31.67			614	0.6				
KHMZ	BE	217	13	AML		4 2	39.19			665	0.6				
ASAO	BZ	306	10	EPn		4 2	13.95	0.3							1.0
ASAO	BE	306	10	AML		4 2	58.26			253	0.6				
ASAO	BN	306	10	AML		4 3	1.15			294	0.6				
NASN	BZ	336	71	EPn		4 2	17.65	0.2							0.9
GHVR	BZ	339	30	EPn		4 2	17.77	0.3							0.9
GHVR	BN	339	30	AML		4 3	14.62			297	0.7				
GHVR	BE	339	30	AML		4 3	16.26			201	0.8				
SNGE	BZ	410	332	EPn		4 2	26.08	-0.3							0.9
SNGE	BE	410	332	AML		4 3	12.12			115	0.6				
SNGE	BN	410	332	AML		4 3	31.59			152	0.4				
THKV	BZ	472	16	EPn		4 2	34.41	0.2							0.8
THKV	BE	472	16	AML		4 3	52.69			78	0.6				
THKV	BN	472	16	AML		4 3	58.92			64	0.6				
DAMV	BZ	483	29	EPn		4 2	35.09	-0.5							0.8
DAMV	BN	483	29	AML		4 3	52.78			69	0.5				
DAMV	BE	483	29	AML		4 3	55.30			82	0.5				
ZNJK	BZ	541	353	EPn		4 2	42.25	-0.5							0.8

June 14 2009 Hour: 10:32 49.9 Lat: 36.68N Lon: 61.49E Depth: 14 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
SHRT	BZ	354	198	EPn		1033	41.61	0.0							1.0
SHRT	BE	354	198	ESg		1034	29.04	-0.1							1.0
SHRT	BN	354	198	AML		1034	32.47			1148	0.4				
SHRT	BE	354	198	AML		1034	36.60			1436	0.6				

BJRD	BZ	380	288	EPn		1033	44.94	0.1									1.0
BJRD	BE	380	288	Sn		1034	25.04	0.1									1.0
BJRD	BN	380	288	AML		1034	48.28			662	0.4						
BJRD	BE	380	288	AML		1035	4.70			933	0.6						
MRVT	BZ	492	284	EPn		1033	58.44	-0.2									0.9
SHRD	BZ	498	263	EPn		1033	59.10	-0.3									0.9
TABS	BZ	522	231	EPn		1034	2.69	0.4									0.9
KRBR	BZ	864	212	EPn		1034	45.04	-0.1									0.6
KHMZ	BZ	1099	256	EPn		1035	14.22	0.0									0.4

June 16 2009 Hour: 16:21 18.6 Lat: 38.69N Lon: 48.27E Depth: 15 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
ZNJK	BZ	227	171	EPg		1621	55.91	0.0							1.0
ZNJK	BN	227	171	ESg		1622	23.16	0.0							1.0
ZNJK	BN	227	171	AML		1622	24.30			189	0.9				
THKV	BZ	385	142	EPn		1622	14.18	0.0							0.9
THKV	BE	385	142	AML		1622	55.92			326	0.2				
THKV	BN	385	142	AML		1622	56.01			170	0.3				
CHTH	BZ	399	140	EP		1622	15.78	-0.2							0.9
DAMV	BZ	473	135	EPn		1622	25.32	0.2							0.8
ASAO	BZ	486	161	EPn		1622	26.78	0.0							0.8

June 18 2009 Hour: 12:52 42.2 Lat: 32.02N Lon: 47.07E Depth: 42 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
SHGR	BZ	163	86	EPg		1253	9.25	0.2							1.0
SHGR	BE	163	86	ESg		1253	28.61	-0.1							1.0
SHGR	BN	163	86	AML		1253	31.56			3939	0.4				
SHGR	BE	163	86	AML		1253	31.88			3413	0.8				
KHMZ	BZ	331	54	EPn		1253	28.47	-0.1							0.9
KHMZ	BN	331	54	AML		1254	13.19			183	0.5				
KHMZ	BE	331	54	AML		1254	13.47			172	0.5				
SNGE	BZ	342	4	EPn		1253	30.09	0.2							0.9
SNGE	BN	342	4	AML		1254	22.26			243	0.6				
SNGE	BE	342	4	AML		1254	23.08			219	0.6				
ASAO	BZ	393	44	EPn		1253	36.19	-0.1							0.9
ASAO	BE	393	44	Sn		1254	15.98	0.2							0.9
ASAO	BE	393	44	AML		1254	28.40			142	0.6				
ASAO	BN	393	44	AML		1254	35.47			194	0.8				
GHVR	BZ	475	54	EPn		1253	46.23	-0.1							0.8
NASN	BZ	546	79	EPn		1253	55.75	0.3							0.8
DAMV	BZ	605	47	EPn		1254	2.00	-0.6							0.7

June 19 2009 Hour: 8:16 4.6 Lat: 27.57N Lon: 56.38E 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
BNDS	BZ	28	227	EPg		816	10.06	-0.2							1.0
BNDS	BN	28	227	AML		816	16.53			14097	0.5				
BNDS	BE	28	227	AML		816	16.83			13429	0.4				
KRBR	BZ	270	8	EPn		816	45.86	-0.2							1.0
KRBR	BN	270	8	ESg		817	20.74	-0.1							1.0
KRBR	BE	270	8	AML		817	24.24			402	0.5				
KRBR	BN	270	8	AML		817	27.08			374	0.5				
GHIR	BZ	343	284	EPn		816	55.34	0.3							0.9
ZHSF	BZ	485	61	EPn		817	12.92	0.2							0.8

June 19 2009 Hour: 8:48 47.9 Lat: 32.88N Lon: 48.46E 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	91	160	EPg		849	3.64	0.2							1.0
SHGR	BN	91	160	AML		849	22.22			1957	1.5				
KHMZ	BZ	169	55	EPg		849	16.15	0.2							1.0
KHMZ	BE	169	55	ESg		849	36.72	0.3							1.0

KHMZ	BN	169	55	AML	849	45.04			425	0.5				
ASAO	BZ	235	38	EPg	849	25.68	-0.7							1.0
ASAO	BN	235	38	AML	850	1.80			352	0.6				
ASAO	BE	235	38	AML	850	5.01			358	0.7				
SNGE	BZ	266	337	EPn	849	28.43	-0.2							1.0
SNGE	BE	266	337	AML	850	8.95			157	0.6				
GHVR	BZ	313	55	EPn	849	34.52	0.2							1.0
GHVR	BE	313	55	AML	850	37.19			149	0.9				
THKV	BZ	403	33	EPn	849	46.03	0.3							0.9
THKV	BE	403	33	AML	850	52.97			78	0.3				
NASN	BZ	407	90	EPN5	849	45.72	-0.6							0.9
ZNJK	BZ	421	3	EPn	849	48.72	0.8							0.9
DAMV	BZ	444	46	EPn	849	50.42	-0.4							0.9

June 20 2009 Hour: 2:28 54.0 Lat: 30.79N Lon: 49.56E Depth: 36 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
SHGR	BN	163	334	EPg		229	20.66	0.0							1.0
KHMZ	BZ	330	7	EPn		229	40.69	0.0							0.9
KHMZ	BE	330	7	AML		230	22.93			281	0.4				
KHMZ	BN	330	7	AML		230	27.22			149	0.4				
NASN	BZ	380	53	EPn		229	47.07	0.0							0.9
ASAO	BZ	420	6	EPn		229	51.91	0.0							0.9
ASAO	BN	420	6	Sn		230	34.18	0.0							0.9
ASAO	BE	420	6	AML		230	55.10			115	0.6				
ASAO	BN	420	6	AML		230	59.50			94	0.6				
GHVR	BZ	439	21	EPn		229	54.25	0.1							0.9
GHVR	BN	439	21	AML		230	50.07			64	0.6				
GHVR	BE	439	21	AML		230	59.51			76	0.6				
SNGE	BZ	520	337	EPn		230	4.39	0.0							0.8
SNGE	BE	520	337	AML		230	58.72			43	0.6				
SNGE	BN	520	337	AML		231	34.90			37	0.6				

June 23 2009 Hour: 5:24 1.7 Lat: 28.32N Lon: 56.47E Depth: 45 Agency: INS Local
Magnitudes: 4.4ML INS Rms: 0.5 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BNDS	BZ	106	196	EPg		5 3	0.48	0.2							1.0
KRBR	BZ	186	9	EPg		5 3	12.13	-0.2							1.0
KRBR	BE	186	9	AML		5 3	43.87			2765	0.6				
GHIR	BZ	342	270	EPn		5 3	28.35	-0.7							0.9
GHIR	BE	342	270	ESg		5 4	15.58	0.0							0.9
GHIR	BE	342	270	AML		5 4	29.34			1009	0.9				
NASN	BZ	608	326	EPn		5 4	3.33	1.0							0.7
KHMZ	BZ	864	316	EPn		5 4	34.20	0.2							0.5
ASAO	BZ	923	320	EPn		5 4	42.03	0.7							0.5
ASAO	BN	923	320	AML		5 6	21.19			36	0.8				
MRVT	BZ	1037	358	EPn		5 4	54.32	-0.9							0.4
ZNJK	BZ	1180	324	EPn		5 5	13.24	0.0							0.3

June 24 2009 Hour: 20:50 22.0 Lat: 29.96N Lon: 57.71E Depth: 18 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
KRBR	BZ	92	272	EPg		2050	38.17	0.3							1.0
KRBR	BN	92	272	ESg		2050	49.65	0.2							1.0
KRBR	BN	92	272	AML		2050	52.51			5590	0.4				
KRBR	BE	92	272	AML		2050	53.15			3913	0.3				
ZHSF	BZ	299	97	EPn		2051	6.81	0.2							1.0
ZHSF	BN	299	97	AML		2051	48.14			646	0.5				
ZHSF	BE	299	97	AML		2051	55.17			493	0.6				
BNDS	BZ	321	208	EPn		2051	9.14	-0.2							0.9
TABS	BZ	413	352	EPn		2051	20.35	-0.2							0.9
TABS	BN	413	352	AML		2052	28.06			303	0.7				
GHIR	BZ	496	249	EPn		2051	30.48	-0.5							0.8
NASN	BZ	562	305	EPn		2051	39.56	0.1							0.8

NASN BE 562 305 ESg 2052 58.53 -0.2 0.8

June 25 2009 Hour: 15: 4 49.0 Lat: 32.71N Lon: 45.88E Depth: 46 Agency: INS Local
Magnitudes: 4.5ML INS Rms: 0.4 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SHGR	BZ	283	103	EPg		15	5	34.14	-0.1						1.0
SHGR	BE	283	103	AML		15	6	18.75		2385	0.5				
SHGR	BN	283	103	AML		15	6	27.64		1637	0.2				
SNGE	BZ	298	27	EPn		15	5	30.27	-0.1						1.0
SNGE	BN	298	27	AML		15	6	3.01		1976	0.4				
SNGE	BE	298	27	AML		15	6	7.52		3048	0.7				
KHMZ	BZ	398	72	EPn		15	5	42.97	0.2						0.9
ASAO	BZ	436	61	EPn		15	5	47.52	0.0						0.9
GHVR	BZ	536	67	EP		15	5	59.91	0.1						0.8
GHVR	BZ	536	67	EPg		15	6	13.68	0.7						0.8
NASN	BZ	649	87	EPn		15	6	14.46	0.3						0.7
NASN	BN	649	87	Sn		15	7	16.03	-0.4						0.7
DAMV	BZ	649	58	EPn		15	6	13.28	-0.7						0.7

June 25 2009 Hour: 17: 8 42.9 Lat: 33.27N Lon: 46.53E Depth: 14 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
SNGE	BZ	216	20	EPg		17	9	18.36	0.0						1.0
SNGE	BE	216	20	ESg		17	9	44.20	-0.1						1.0
SNGE	BN	216	20	AML		17	9	51.36		948	1.3				
SNGE	BE	216	20	AML		17	9	56.22		1186	0.2				
SHGR	BZ	249	121	EPg		17	9	23.40	-0.2						1.0
SHGR	BE	249	121	AML		17	9	58.90		966	0.4				
KHMZ	BZ	324	80	EPn		17	9	31.18	0.2						0.9
ASAO	BZ	353	65	EPn		17	9	34.82	0.1						0.9

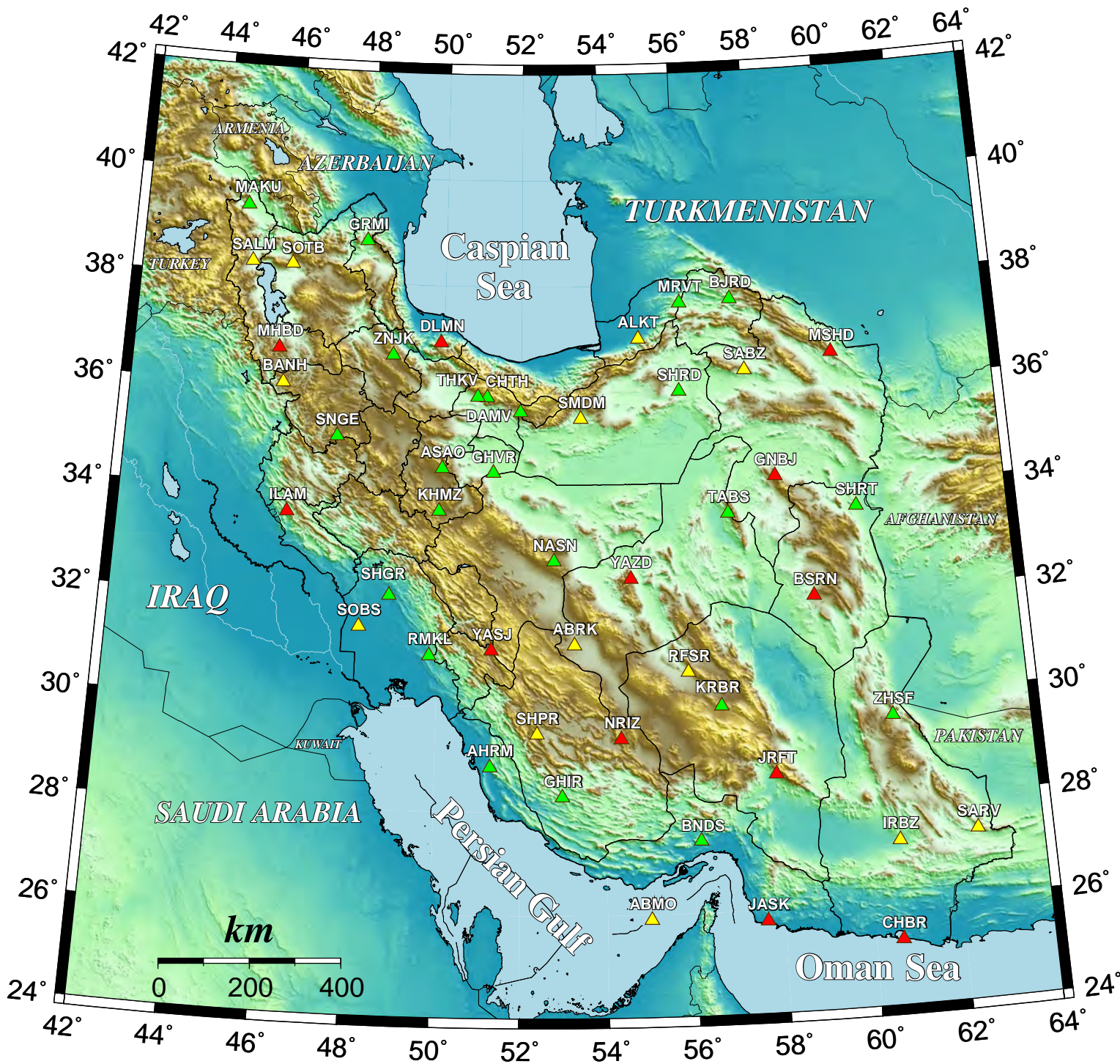
June 26 2009 Hour: 15:49 46.4 Lat: 31.14N Lon: 56.84E Depth: 15 Agency: INS Local
Magnitudes: 4.2ML INS Rms: 0.1 secs

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TABS	BZ	279	5	EPn		1550	28.68	0.0							1.0
TABS	BN	279	5	ESg		1551	4.85	-0.1							1.0
TABS	BN	279	5	AML		1551	15.39			1326	0.8				
BNDS	BZ	420	189	EPn		1550	46.09	-0.2							0.9
NASN	BZ	423	297	EPn		1550	46.93	0.1							0.9
NASN	BN	423	297	AML		1551	52.55			344	0.5				
SHRT	BZ	427	49	EPn		1550	47.39	0.2							0.9
GHIR	BZ	489	231	EPn		1550	54.76	-0.1							0.8
GHIR	BE	489	231	ESg		1552	2.78	0.1							0.8
GHVR	BZ	641	307	EPn		1551	13.73	0.0							0.7
DAMV	BZ	673	319	EPn		1551	17.64	-0.2							0.7
ASAO	BZ	741	302	EPn		1551	26.42	0.1							0.7
THKV	BZ	766	315	EPn		1551	29.30	0.0							0.6

IIEES EARTHQUAKES CATALOGUE (April to June 2009)

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	D _{min}	Rms	M _L
2009	4	2	7	17	36.7	1.36	33.684	6.4	48.798	9.2	15.0	13.6	7	7	140	174.7	0.42	3.5
2009	4	2	13	19	36.1	1.01	37.073	7.8	54.348	3.5	15.0	0.0	7	7	136	167.4	0.45	3.5
2009	4	4	18	59	20.2	1.23	31.761	6.3	50.394	4.6	15.1	10.2	9	10	138	155.5	0.47	4.0
2009	4	6	19	45	16.8	1.65	35.158	8.7	58.572	7.5	15.0	0.0	6	6	156	214.2	0.62	3.5
2009	4	7	6	0	32.6	0.41	37.197	1.8	56.429	2.9	6.1	4.3	6	5	115	59.5	0.10	3.7
2009	4	7	11	10	37.0	0.93	27.826	5.8	56.637	9.9	14.1	12.8	4	4	161	66.0	0.28	3.9
2009	4	7	17	32	52.5	0.57	32.714	2.8	47.999	5.7	14.1	7.6	5	6	216	101.0	0.19	4.3
2009	4	8	13	36	21.7	1.03	34.011	6.3	47.049	8.2	17.9	12.8	5	7	231	123.0	0.34	3.6
2009	4	9	11	32	38.9	0.44	27.814	2.0	57.536	3.5	18.0	5.1	4	5	194	142.3	0.09	4.2
2009	4	14	5	10	26.6	0.34	26.874	8.7	55.906	3.1	8.1	5.6	4	4	243	63.8	0.00	3.8
2009	4	15	7	40	20.5	0.89	30.663	7.2	50.010	11.5	33.0	13.7	8	8	193	197.3	0.35	4.5
2009	4	15	7	54	2.0	0.58	37.721	7.1	55.900	7.7	14.1	7.0	4	5	235	18.1	0.18	3.9
2009	4	16	3	2	27.3	0.87	30.691	4.7	50.099	6.5	29.2	7.0	15	18	189	199.8	0.33	3.9
2009	4	21	12	26	23.3	0.62	38.646	5.1	48.714	8.9	14.1	9.0	4	5	220	73.7	0.18	3.5
2009	4	21	13	13	12.5	0.35	27.261	2.9	60.195	2.6	15.0	0.0	4	5	261	266.5	0.12	3.9
2009	4	22	15	16	34.1	0.31	30.564	2.4	48.241	7.7	14.6	4.5	5	6	260	179.3	0.04	3.5
2009	4	24	18	28	48.5	0.55	38.513	7.2	45.218	5.0	14.1	13.3	3	5	211	104.4	0.16	3.6
2009	4	25	15	14	55.1	1.36	33.137	7.0	48.965	12.3	15.0	13.5	8	8	169	114.5	0.46	4.4
2009	4	30	10	4	29.8	0.97	27.887	8.1	61.152	19.4	41.8	7.6	8	10	272	194.6	0.51	5.0
2009	5	1	22	30	11.8	0.77	29.186	10.4	51.573	12.3	42.9	11.8	11	11	217	170.4	0.31	4.2
2009	5	4	1	10	47.0	0.44	29.826	2.6	56.850	3.7	9.1	3.4	5	5	118	19.3	0.11	3.6
2009	5	7	22	44	4.0	0.77	25.728	8.9	56.977	6.2	14.1	8.1	5	7	266	201.8	0.26	4.9
2009	5	10	1	7	34.0	0.34	25.621	13.4	56.973	4.3	14.1	8.7	4	4	268	212.7	0.01	4.1
2009	5	11	2	14	5.1	0.56	30.290	1.9	57.500	3.4	17.9	5.2	6	8	108	79.0	0.20	4.7
2009	5	12	1	37	6.3	0.88	32.382	2.8	58.991	4.3	15.0	7.1	8	10	166	185.5	0.30	4.5
2009	5	12	6	30	51.3	0.36	30.187	2.1	57.451	4.0	7.1	5.1	7	7	207	70.3	0.09	3.7
2009	5	12	9	35	19.0	0.53	39.581	6.8	52.806	3.0	15.0	0.0	6	6	216	433.7	0.23	3.6
2009	5	13	23	39	51.4	1.30	28.345	5.3	55.384	6.1	14.1	13.5	7	8	126	130.3	0.45	3.8
2009	5	17	1	5	11.2	0.44	27.714	5.4	52.206	3.9	17.4	5.5	4	6	264	99.6	0.12	3.9
2009	5	18	5	36	4.4	0.54	40.664	12.8	50.975	3.7	15.0	0.0	6	6	252	334.8	0.26	3.6
2009	5	22	10	32	21.4	0.36	27.104	8.4	55.846	1.6	14.1	4.5	3	4	251	46.0	0.04	3.6
2009	5	22	18	5	9.3	0.51	28.814	11.6	51.515	10.8	15.0	7.4	5	5	220	155.5	0.17	3.7

Year	Month	Day	Hour	Minute	Second	Error	Lat	Error	Long	Error	Depth	Error	NSt	NPh	Gap	D _{min}	Rms	M _L
2009	5	23	12	22	45.6	0.43	30.897	4.3	49.838	5.0	39.4	5.6	5	6	260	166.6	0.12	4.0
2009	5	26	10	39	5.2	0.62	27.316	10.6	53.557	9.6	14.2	9.6	3	5	245	121.3	0.18	4.2
2009	5	26	23	52	45.8	1.78	34.012	8.2	48.522	7.8	15.0	0.0	5	6	145	161.2	0.61	4.7
2009	5	27	0	10	48.8	1.03	33.996	3.5	48.495	4.4	14.1	8.1	7	9	147	160.9	0.32	4.0
2009	5	27	8	29	18.6	0.46	33.983	2.1	48.437	3.1	15.0	0.0	7	7	151	158.6	0.17	3.8
2009	5	28	12	44	9.9	0.78	32.450	4.1	48.209	7.4	18.0	9.0	6	7	221	67.4	0.26	3.5
2009	5	29	16	17	16.0	0.30	28.069	1.1	57.470	1.1	17.9	2.2	6	9	179	148.1	0.07	3.8
2009	5	30	12	21	20.3	1.29	32.554	4.7	48.292	18.2	15.0	11.3	5	6	229	68.9	0.44	3.6
2009	5	30	16	6	34.2	0.37	32.576	3.3	47.828	5.0	29.9	4.0	6	6	232	105.3	0.10	3.9
2009	6	2	14	39	31.5	0.77	40.284	13.0	52.919	6.7	15.0	0.0	12	12	245	400.4	0.38	5.7
2009	6	2	22	34	33.7	0.48	27.298	9.2	54.048	10.3	46.0	10.8	7	8	230	151.4	0.15	3.7
2009	6	4	14	20	1.2	0.39	40.761	8.8	50.593	4.0	30.4	17.3	8	9	256	316.8	0.14	4.5
2009	6	7	12	43	32.9	0.33	32.815	1.1	56.382	2.4	14.2	3.5	5	6	99	115.2	0.05	3.5
2009	6	8	18	13	57.6	0.53	25.833	3.8	56.358	5.6	15.5	4.3	4	6	265	174.5	0.16	3.7
2009	6	9	22	55	15.1	0.57	35.772	3.8	52.602	7.2	14.2	5.7	6	7	304	134.2	0.16	3.7
2009	6	11	12	38	20.7	1.31	29.824	6.4	57.693	4.7	14.2	10.6	4	6	116	91.8	0.42	3.5
2009	6	12	4	1	27.8	1.49	31.833	10.9	49.423	9.9	15.7	13.8	9	10	227	66.2	0.41	3.7
2009	6	14	10	32	49.9	0.59	36.684	4.9	61.493	8.8	14.1	10.2	7	9	270	354.4	0.22	4.5
2009	6	16	16	21	18.6	0.44	38.691	5.5	48.270	17.6	15.2	9.7	5	6	324	227.2	0.12	3.7
2009	6	18	12	52	42.2	0.80	32.022	11.4	47.073	6.7	42.4	8.9	7	9	278	163.5	0.25	3.8
2009	6	19	8	16	4.6	0.75	27.573	3.6	56.382	6.3	14.1	6.1	4	5	166	28.4	0.22	3.7
2009	6	19	8	48	47.9	1.42	32.881	5.7	48.464	9.4	15.3	11.4	9	10	178	91.4	0.44	3.5
2009	6	20	2	28	54.0	0.30	30.786	4.5	49.557	4.5	36.8	3.9	6	7	281	163.3	0.04	3.6
2009	6	23	5	2	41.7	1.16	28.319	5.9	56.473	6.6	45.7	9.0	8	9	188	106.2	0.54	4.4
2009	6	24	20	50	22.0	0.79	29.960	4.1	57.710	4.8	18.0	9.4	6	8	112	91.7	0.26	4.0
2009	6	25	15	4	49.0	0.89	32.706	14.2	45.878	17.1	46.1	7.9	7	9	284	297.6	0.35	4.5
2009	6	25	17	8	42.9	0.48	33.272	2.7	46.525	13.4	14.1	5.0	4	5	260	215.7	0.12	4.0
2009	6	26	15	49	46.4	0.38	31.142	1.4	56.837	2.5	15.0	3.6	9	11	140	279.3	0.13	4.2



Iranian National Broadband Seismic Network (INSN)

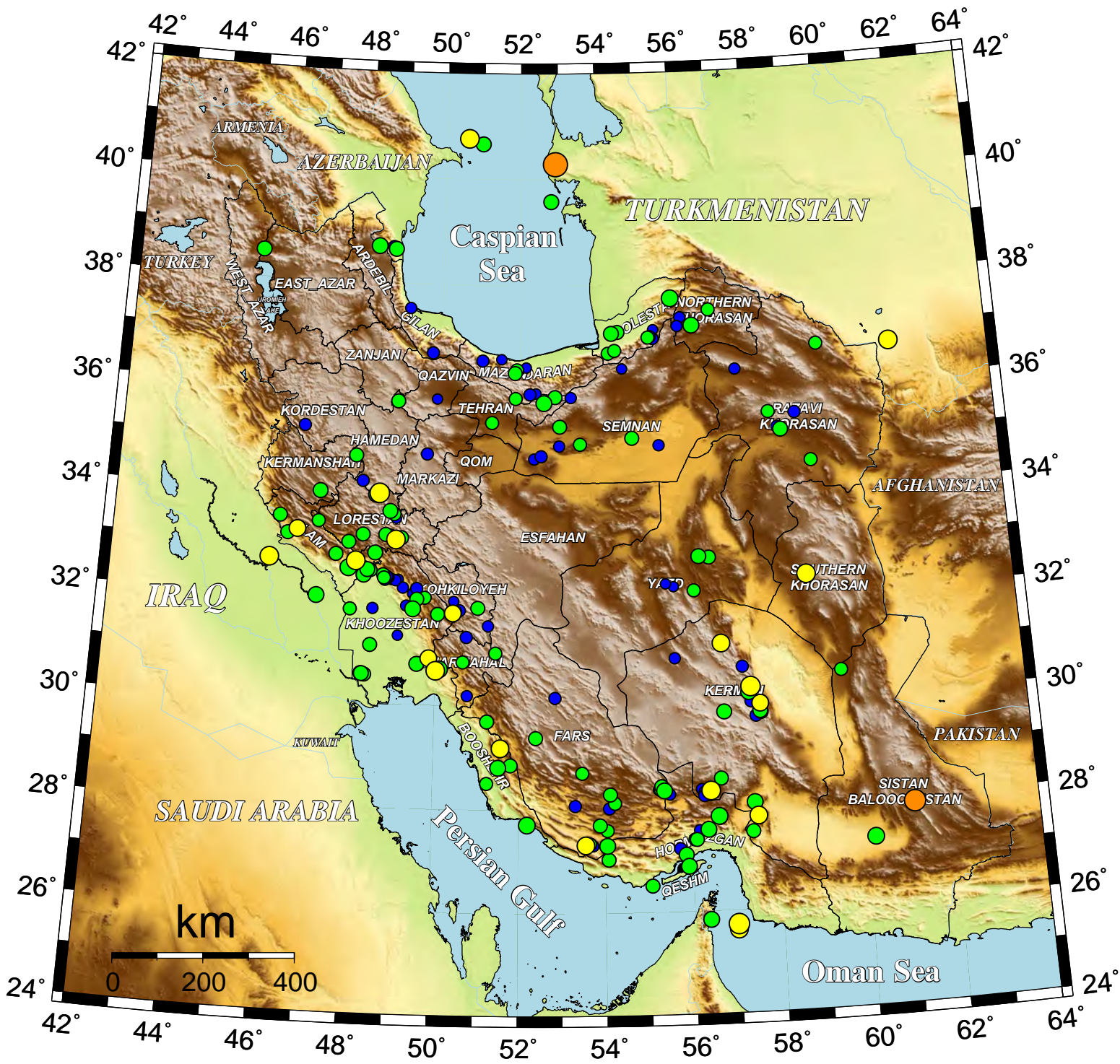
▲ Available Stations
 ▲ Under Construction
 ▲ Future Plan

More information available at :

http://www.iiees.ac.ir/Seismology/seis_stations.html/



International Institute of Earthquake Engineering and Seismology (IIEES)



196 events during 2009/04/02 to 2009/06/30

Magnitude

● $2.5 \leq M < 3$	● $3 \leq M < 4$	● $4 \leq M < 5$	● $5 \leq M < 6$	● $6 \leq M < 7$
N = 69	N = 104	N = 21	N = 2	N = 0

The events are located at:

Iranian National Broadband Seismic Network (INSN)

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



International Institute of Earthquake Engineering and Seismology (IIEES)