

*Technical Note*

**IRAN STRONG MOTION CATALOG  
(January to July 2006)**

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**ABSTRACT**

In the first half of the year 2006, 327 accelerograms (with PGA greater than the trigger level of 0.01g) were recorded by 108 accelerographs, which were triggered by 200 earthquakes with different magnitude. The Silakhor earthquake of 3/31/2006 in Lorestan province was the strongest earthquake in the studied period that triggered 29 accelerographs and the maximum PGA of about 0.524g was occurred in ChalanChoolan station. In this article the most important earthquakes and those with more than three or more accelerograms in the studied time period are discussed in brief and the detailed information is presented in the finale table.

**1. INTRUCTION**

The Iran Strong Motion Network (ISMN) started its activities in 1973. The network was consisted of 274 accelerographs until 1992. At the date of this study, the network was consisted of 1094 accelerographic stations (Figure 1) that are equipped with digital SSA-2 or analog SMA-1 accelerographs. The trigger level of all the instruments were set at 0.01g and more than 6200 accelelograms have been recorded from January 1973 to July 2006. The accelerograms of different earthquakes are downloaded, controlled, processed and then added to the comprehensive data bank, which is very useful for the experts, who works in the field of engineering seismology and earthquake engineering. In this catalog the most important earthquakes are briefly described. More information is presented in Table 1 and also available on the web page of BHRC <http://www.bhrc.ac.ir>.

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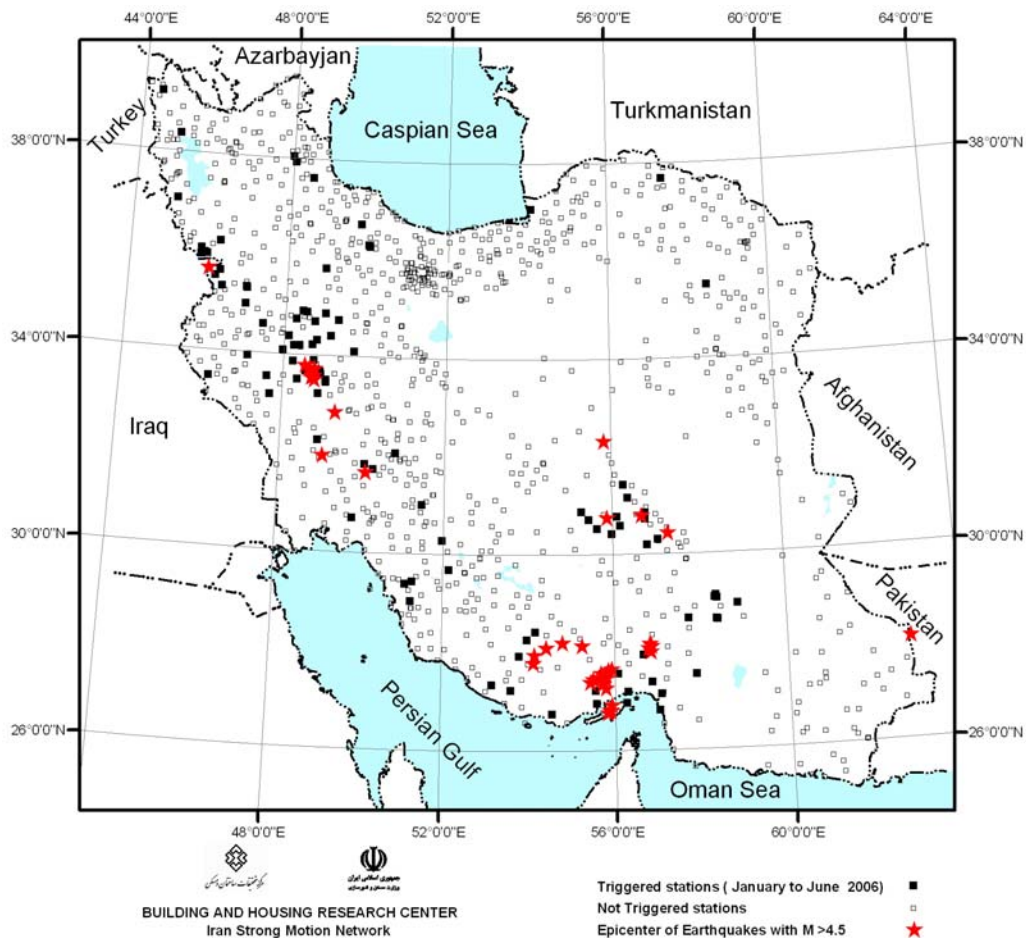


Figure 1. Accelerographs triggered and epicenter of important earthquakes

## 2. THE CATALOG OF ACCELEROGRAMS RECORDED BY ISMN

In the first half of the year 2006, 327 accelerograms (with PGA greater than the trigger level of 0.01g) were recorded by 108 accelerographs, which were triggered by 200 different earthquakes (Figure 2). The maximum PGA of about 0.524g was occurred in ChalanChoolan station (Lorestan province) due to the Silakhor earthquake of March 31<sup>th</sup>, 2006. The strong motion (With PGA more than 0.05g) and the seismological data of the major earthquakes are presented in Table 1. The most important events are described at the following briefly.

The catalog of events of 2006 (1 Jan / 30 June.)										
Strong Motion Data (BHRC)					Seismological Data					
Station	Record No.	Coordinate		U.P.G.A (cm/s/s)	Origin Time		Epicenter		M	Ref
		N	E		Y-M-D	h:m:s	N	E		
Kani Soor	3972/02	36.061	45.795	89	2006/01/03	11:29:12	36.06	46.25	M3.0	IGTU
Kani Soor	3972/03	36.061	45.795	76	2006/01/03	21:30:53	36.23	46.14	M2.5	IGTU
Suza	3977	26.782	56.070	18	2006/01/12	21:32:32	26.84	55.89	M4.0	IGTU
Tomban	4009/04	26.766	55.863	61			26.89	55.90	M14.1	IIEES
Tomban	4009/06	26.766	55.863	85	2006/01/24	16:07:35	26.68 26.97	55.79 55.75	M3.5 M13.4	IGTU IIEES
Tomban	4009/09	26.766	55.863	95	2006/02/01	12:17:54	26.81 26.76	55.79 55.86	M3.9 M14.0	IGTU IIEES
Bam	4080/02	29.079	58.353	55	2006/02/06	23:31:57	29.01	58.60	M4.4	IGTU
Barvat	4081	29.071	58.402	17			29.34	58.45	M14.2	IIEES
Posht Rood	4093/11	29.123	58.381	32						
Rezvan	3982/01	27.560	56.078	84	2006/02/16	23:00:37	27.51	55.55	M3.6	IGTU
Fin	3983/01	27.630	55.895	12		23:00:37	27.64	56.03	M13.6	IIEES
Kashkooyeh	3984	30.525	55.638	95	2006/02/18	11:03:36	30.72	55.86	M15.5	BHRC
Davaran	3985	30.582	56.189	24						
Anar	3986	30.866	55.271	13						
Rafsanjan	3987	30.411	55.993	64			30.74	55.84	M15.0	IIEES
Bayaz	3988	30.701	55.446	35						
Baghin	4040	30.191	56.815	11			30.80	55.67	M5.3	IGTU
Hosn	4085	30.769	56.119	24						
Rezvan	3993/01	27.560	56.078	366	2006/02/21	05:37:30	27.35	55.67	M4.1	IGTU
Siyahoo	3994	27.759	56.335	11			27.48	55.83	M14.1	IIEES
Qazvin 1	3992	36.281	50.011	34	2006/02/22	23:19:26	36.11	50.41	M4.1	IGTU
Zibashahr	3995	36.221	50.182	81			35.98	50.45	M13.9	IIEES
Qazvin 2	4008	36.249	50.036	20						
Ahmadi	3996/02	27.938	56.665	139	2006/02/28	07:31:03	28.22	56.98	M16.3	BHRC
Kuhestak	3997	26.802	57.023	19						
Soghan	3998	28.346	56.877	80						
Ziyarat Ali	3999	27.745	57.229	22			28.27	56.81	Mw5.9	NEIC
Siyahoo	4000	27.759	56.335	24						
Minab	4001	27.138	57.072	14						
Jiroft	4002	28.671	57.736	11			28.18	56.76	Ms5.9	IIEES
Hasan Langi	4003	27.386	56.862	32						
Nakhl Nakhoda	4004	27.191	56.340	14						
Fahraj	4082	28.948	58.885	21			28.18	56.54	M5.8	IGTU
Ghale Ganj	4083	27.523	57.881	12						
Nesa Dam 1	4091	28.634	58.411	12						
Nesa Dam 2	4092/02	28.650	58.389	16						
Abad	4057	29.022	51.256	113	2006/02/28	18:06:10	28.86 28.80	51.24 51.00	M4.1 M13.9	IGTU IIEES

The catalog of events of 2006 (1 Jan / 30 June.)										
Strong Motion Data (BHRC)					Seismological Data					
Station	Record No.	Coordinate		U.P.G.A (cm/s/s)	Origin Time		Epicenter		M	Ref
		N	E		Y-M-D	h:m:s	N	E		
Saed Abad	4049	29.379	51.116	235	2006/03/18	13:19:29	29.54	51.40	M13.3	IIEES
Kahooorestan	4010	27.216	55.564	31	2006/03/25	07:28:54	27.73	55.78	M16.0	BHRC
Siyahoo	4011	27.759	56.335	15			27.56	55.81	M6.0	IGTU
Rezvān	4012/01	27.560	56.078	121			27.52	55.77	M15.4	IIEES
Fin	4013/01	27.630	55.895	194			27.73	55.78	M16.0	BHRC
Rezvān	4014/02	27.560	56.078	380	2006/03/25	09:55:16	27.49	55.70	M5.3	IGTU
							27.54	56.01	M15.1	IIEES
Fin	4013/06	27.630	55.895	249	2006/03/25	10:00:41	27.70	55.79	M5.3	IGTU
Rezvān	4014/03	27.560	56.078	117			27.47	55.80	M15	IIEES
Chenareh	4112	35.634	46.304	111	2006/03/25	10:12:57	35.56	46.19	M4.2	IGTU
							35.70	46.44	M14.2	IIEES
							35.70	46.44	mb4.5	NEIC
Rezvān	4014/10	27.560	56.078	25	2006/03/25	12:13:48	27.51	55.53	M4.6	IGTU
Fin	4015/03	27.630	55.895	71			27.67	56.02	M14.6	IIEES
Rezvān	4014/11	27.560	56.078	39	2006/03/25	12:55:40	27.41	55.82	M4.0	IGTU
Fin	4015/05	27.630	55.895	85			27.59	56.18	M14.1	IIEES
Rezvān	4014/13	27.560	56.078	134	2006/03/25	14:58:13	27.67	55.54	M4.1	IGTU
Fin	4015/08	27.630	55.895	82			27.46	55.80	M14.4	IIEES
Rezvān	4014/14	27.560	56.078	54	2006/03/25	16:08:30	27.52	55.80	M3.9	IGTU
Fin	4015/12	27.630	55.895	61			27.60	56.35	M14.0	IIEES
Rezvān	4016	27.560	56.078	19	2006/03/26	07:21:34	27.52	55.59	M4.0	IGTU
Fin	4017/01	27.630	55.895	46			27.55	55.91	M13.9	IIEES
Kavaneh	4115/03	34.973	46.983	185	2006/03/26	08:17:20	35.06	46.97	M3.7	IGTU
Fin	4017/02	27.630	55.895	82	2006/03/26	09:38:01	27.51	55.75	M4.3	IGTU
							27.46	55.91	M14.2	IIEES
Chaghalvandi	4018/01	33.664	48.553	13	2006/03/30	16:17:06	33.55	48.85	M4.6	IGTU
Boroojerd	4023/01	33.891	48.754	29			33.75	48.90	M14.6	IIEES
Chalan Choolan	4027/02	33.659	48.913	169			33.52	48.73	M4.7	NEIC
Chaghalvandi	4018/02	33.664	48.553	32	2006/03/30	19:36:16	33.66	48.91	Mw5.3	BHRC
Khoram Abad	4019/01	33.491	48.359	19						
Boroojerd	4023/02	33.891	48.754	13			33.48	48.81	M5.1	IGTU
Chalan Choolan	4027/05	33.659	48.913	320						
Darreh-Asbar	4052/02	33.450	49.060	31			33.70	48.86	M15.1	IIEES
Dorood	4022/01	33.491	49.059	11						
Shool Abad	4055/02	33.184	49.192	12						
Tooshkabsard	4035/02	33.773	48.569	15						

The catalog of events of 2006 (1 Jan / 30 June.)

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Station	Record	Coordinate		U.P.G.A	Origin Time		Epicenter		M	Ref
	No.	N	E	(cm/s/s)	Y-M-D	h:m:s	N	E		
Chaghalvandi	4018/03	33.664	48.553	172	2006/03/31	01:17:02	33.69	49.04	M16.2	BHRC
Khoram Abad	4019/02	33.491	48.359	61						
Saaman	4020	34.210	48.708	58						
Toyserkan	4021	34.552	48.442	13						
Dorood	4022/02	33.491	49.059	37						
Aleshtar	4025	33.856	48.246	154						
Arak	4039	34.101	49.731	11						
Bahar	4064	34.889	48.442	12						
Chalan Choolan	4027/08	33.659	48.913	524						
Darreh-Asbar	4052/03	33.450	49.060	123						
Dinevar	4107	34.583	47.446	11						
Firoozan	4026	34.360	48.115	24						
Giyān	4033	34.172	48.241	59						
Gonbad	4066	34.682	48.746	25						
Hamedan5	4056	34.869	48.534	25						
Kaboodar Ahang	4051	35.205	48.721	12						
Khondab	4028/01	34.401	49.154	52						
Kohnnoosh	4050	34.718	48.278	14						
Komijan	4185	34.725	49.329	22						
Kouhestak	4045	33.524	47.612	12						
Malayer	4029	34.309	48.801	51						
Nahavand	4038	34.186	48.378	28						
Noor Abad	4024	34.072	47.972	49						
Pol Dokhtar	4137	33.153	47.707	18						
Qahavand	4065	34.857	49.002	20						
Sepid Dasht	4053	33.218	48.891	22						
Shazand	4054/01	33.931	49.406	27						
Shool Abad	4055/03	33.184	49.192	41						
Tooshkabsard	4035/03	33.773	48.569	394						
Chaghalvandi	4018/04	33.664	48.553	31	2006/03/31	01:31:33	33.71	48.75	M5.0	IGTU
Khoram Abad	4019/03	33.491	48.359	12			33.85	48.79	M14.9	IIEES
Boroojerd	4023/03	33.891	48.754	55			33.71	48.58	M4.7	NEIC
Chalan Choolan	4027/10	33.659	48.913	21						
Tooshkabsard	4035/04	33.773	48.569	26						
Boroojerd	4034	33.891	48.754	27	2006/03/31	11:54:02	33.65	48.75	M5.3	IGTU
Chaghalvandi	4044	33.664	48.553	35						

The catalog of events of 2006 (1 Jan / 30 June.)										
Strong Motion Data (BHRC)					Seismological Data					
Station	Record No.	Coordinate		U.P.G.A (cm/s/s)	Origin Time		Epicenter		M	Ref
		N	E		Y-M-D	h:m:s	N	E		
Chalan Choolan	4027/17	33.659	48.913	206						
Darreh-Asbar	4052/04	33.450	49.060	34						
Dorood	4032	33.491	49.059	14			33.89	48.79	MI5.3	IIEES
Khondab	4028/02	34.401	49.154	11						
Khoram Abad	4136	33.491	48.359	13						
Shazand	4054/02	33.931	49.406	38						
Shool Abad	4055/04	33.184	49.192	17			33.78	48.80	MI5.5	BHRC
Tooshk-e-Ab-e-Sard	4035/06	33.773	48.569	52						
Kavaneh	4115/05	34.973	46.983	52	2006/03/31	18:15:42	35.13	47.00	M2.9	IGTU
Chalan Choolan	4031/07	33.659	48.913	81	2006/04/02	19:26:00	33.55 33.78	48.85 48.88	M3.9 MI4.1	IGTU IIEES
Tooshkabsard	4138/02	33.773	48.569	102	2006/04/06	15:36:36	33.79	48.55	mb4.6	NEIC
Chalan Choolan	4058/02	33.659	48.913	98	2006/04/09	21:57:07	33.64 33.69	48.91 49.07	M3.1 MI3.0	IGTU IIEES
Zaram	4104	33.804	48.824	81						
Chalan Choolan	4060	33.659	48.913	60	2006/04/12	11:47:41	33.70	48.62	M4.7	IGTU
Darbastaneh	4061	33.701	48.817	17						
Deh Azna	4132/02	33.611	48.929	31			33.80	48.90	MI4.6	IIEES
Tomban	4147/02	26.766	55.863	74	2006/04/16	15:48:36	27.08 26.81 26.81	55.68 55.90 55.90	M4.7 MI4.8 mb4.8	IGTU IIEES NEIC
Suza	4067	26.782	56.070	20						
Tomban	4147/03	26.766	55.863	71			26.58 26.92 26.92	55.75 55.86 55.86	M4.3 MI4.1 mb4.3	IGTU IIEES NEIC
Deh Azna	4132/09	33.611	48.929	51	2006/04/24	00:28:06	33.62 33.77	48.84 48.89	M3.9 MI3.9	IGTU IIEES
Chalan Choolan	4076/03	33.659	48.913	58	2006/04/27	13:08:04	33.38 33.73	48.54 48.87	M3.2 MI3.0	IGTU IIEES
Khafr	4129	30.995	51.481	51	2006/04/28	15:23:21	31.03 30.87	51.38 51.04	M3.1 MI3.0	IGTU IIEES
Dah-dez	4139/01	31.708	50.289	81	2006/05/04	00:50:07	31.60 31.61 31.60	50.15 50.29 50.29	M4.1 MI4.1 mb4.4	IGTU IIEES NEIC

The catalog of events of 2006 (1 Jan / 30 June.)

Strong Motion Data (BHRC)					Seismological Data					
Station	Record No.	Coordinate		U.P.G.A (cm/s/s)	Origin Time		Epicenter		M	Ref
		N	E		Y-M-D	h:m:s	N	E		
Khanook	4070	30.717	56.776	21	2006/05/07	06:20:56	30.81	56.70	MI4.8	IIEES
Hotkan	4140/01	30.848	56.788	50			30.81	56.67	M5.2	IGTU
Dah-dez	4139/08	31.708	50.289	55	2006/05/12	12:14:44	31.67	50.10	M4.2	IGTU
							31.61	50.20	MI4.1	IIEES
Fin	4122	27.630	55.895	65	2006/05/12	16:05:32	27.42	55.66	M4.3	IGTU
							27.45	55.86	MI4.2	IIEES
Dah-dez	4139/09	31.708	50.289	186	2006/05/12	23:18:57	31.59	50.13	M4.4	IGTU
							31.58	50.11	MI4.3	IIEES
							31.64	50.12	mb4.6	NEIC
Chalan Choolan	4105	33.659	48.913	73	2006/05/13	03:20:18	33.36	48.65	M3.7	IGTU
Deh Azna	4132/15	33.611	48.929	82			33.66	48.96	MI3.4	IIEES
Tomban	4147/05	26.766	55.863	118	2006/06/03	07:15:35	26.93	55.72	M5.2	IGTU
Qeshm	4095	26.962	56.275	21			26.87	55.87	MI5.1	IIEES
Suza	4096/01	26.782	56.070	182			27.19	55.79	mb5.2	KHSN
Armordeh	4097	35.930	45.796	12	2006/06/06	17:03:02	35.74	46.18	MI5.3	BHRC
Baneh	4098/02	35.972	45.888	24						
Boein Sofla	4101/02	35.954	45.942	20			35.64	46.05	M4.9	NEIC
Marivan	4100/02	35.521	46.182	19						
Saqez	4102	36.224	46.261	42			35.59	45.85	MI4.8	IIEES
Shoeisheh	4099	35.359	46.676	13						
Koohbanan	4125	31.421	56.276	98	2006/06/07	21:31:52	31.21	56.25	M4.0	IGTU
							31.39	56.27	MI3.7	IIEES
							31.40	56.28	MI4.1	KHSN
Changoureh	4169/03	35.777	48.963	65	2006/06/28	14:11:11	35.89	49.12	M4.0	IGTU
							35.71	48.99	MI3.9	IIEES
							35.89	49.12	mb4.0	NEIC
Tomban	4147/13	26.766	55.863	518	2006/06/28	21:02:09	26.68	55.72	M5.6	IGTU
Bandar-e-Khamir	4152	26.952	55.582	12			26.82	55.90	MI5.6	IIEES
Qeshm	4128	26.962	56.275	27			27.05	55.56	Mw5.4	KHSN
Bandar Abas 2	4144	27.190	56.298	38			26.82	55.90	mb5.8	NEIC
Tomban	4147/19	26.766	55.863	90	2006/06/28	23:40:45	26.72	55.89	M3.8	IGTU
							26.86	55.77	MI3.5	IIEES
Tomban	4147/22	26.766	55.863	63	2006/06/29	16:41:49	26.79	55.74	M4.6	IGTU
							26.86	55.91	MI4.4	IIEES

### 2.1 Koshkuyeh Earthquake of 18th February, 2006

On Feb18, 2006 at 11:03:36 (UTC) an earthquake with M5.3 (IGTU), M15 (IIEES), mb4.8 (EMSC) occurred in the west of Rafsanjan city in Kerman Province, South-East of Iran (Figure 2). This earthquake was recorded by Iran Strong Motion Network of BHRC, in 5 accelerographic stations of Rafsanjan, Koshkooyeh, Davaran, Bayaz, and Anar. The maximum PGA as much as 94 gals were recorded at the Koshkooyeh station. The focal distance of Koshkooyeh was estimated to be 30 kilometer. The epicenter of the earthquake has been located at 30.72N, 55.86E (BHRC), 30.80N, 55.67E (IGTU) and 30.74N, 55.84E (IIEES), 30.84N, 55.75 (EMSC).

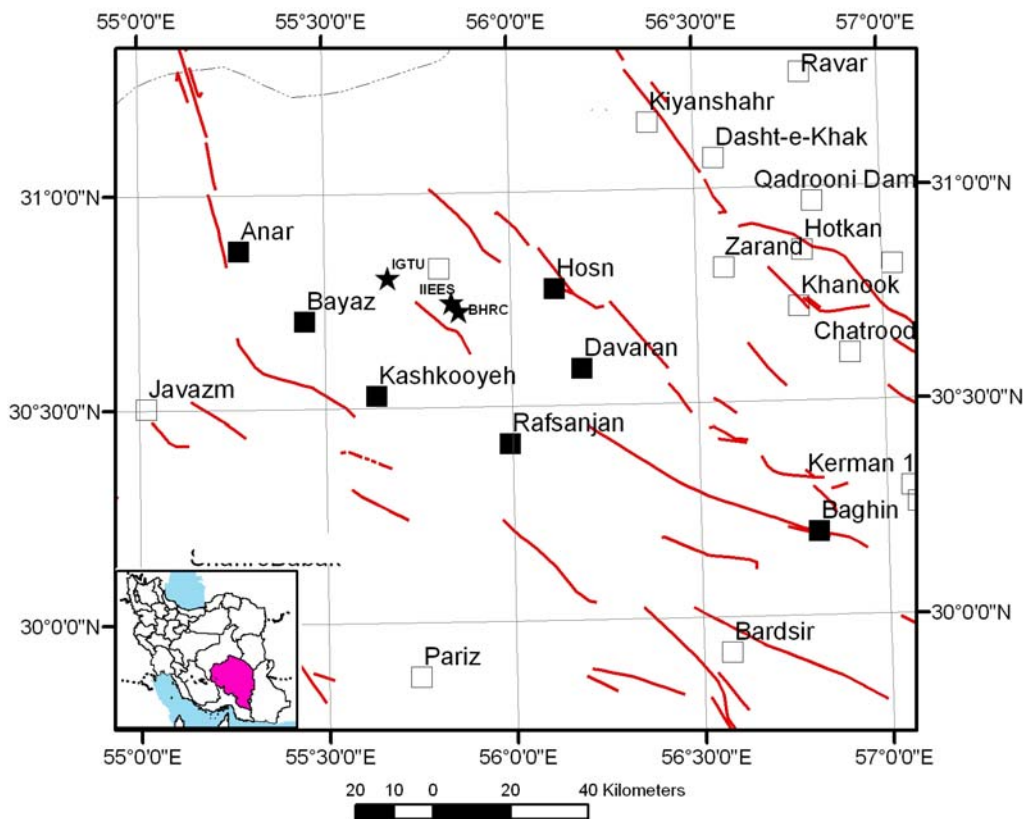


Figure 2. The location of Koshkuyeh Earthquake of February18th, 2006



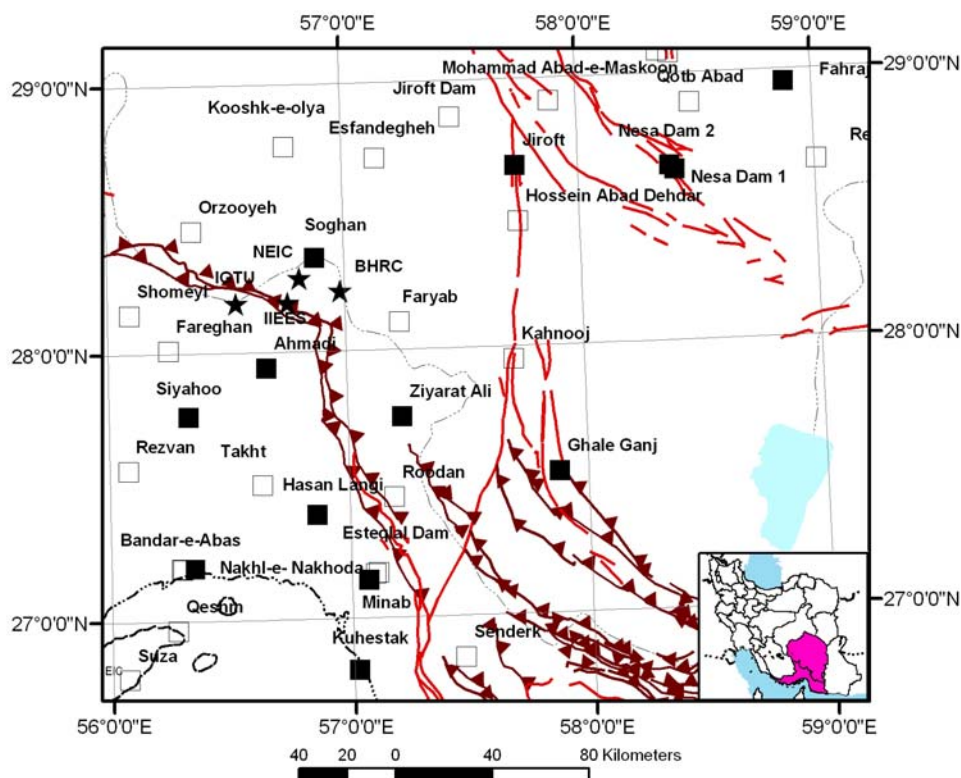


Figure 3. The location of Ahmadi Earthquake of February 28<sup>th</sup>, 2006

■ Triggered accelerographs   □ Not Triggered accelerographs   ★ Epicenter   — Fault

### 2.2 Ahmadi Earthquake of February 28<sup>th</sup>, 2006

On Tuesday, February 28, 2006 at 7:31:03(UTC), an earthquake with M5.9 (NEIC), 5.7 (IGTU), Ms5.9 (IIEES) Occurred in the south of Iran in Hormozgan and Kerman provinces (Figure 3). This event was recorded by 7 sets of digital accelerographs of Iran Strong Ground Motion Network (Figure 3). The maximum peak acceleration as much as 139 cm/s/s was recorded in Ahmadi station. The epicenter of this event has been located at 28.265 N, 56.812E (NEIC), 28.18 N, 56.76 E (IIEES), 28.18 N, 56.54 E (IGTU) and 28.22 N, 56.98 E (BHRC).

### 2.3 Fin Earthquake of March 25<sup>th</sup>, 2006

On Saturday, March 25, 2006 at 07:28:54 (UTC), an earthquake with the magnitude of M5.9 (NEIC), M6.0 (IGTU), and M5.4 (IIEES) occurred in Hormozgan province, south of Iran

(Figure 4). This event was recorded by 4 units of digital accelerograph of Iran Strong Motion Network (ISMN). The maximum acceleration is recorded in Fin station with the peak value of about 194 cm/s/s. The epicenter of this event has been located at 27.597 N, 55.669 E (NEIC), 27.52 N, 55.77 E (IIEES), 27.56 N, 55.81 E (IGTU) and 27.73 N, 55.78 E (BHRC).

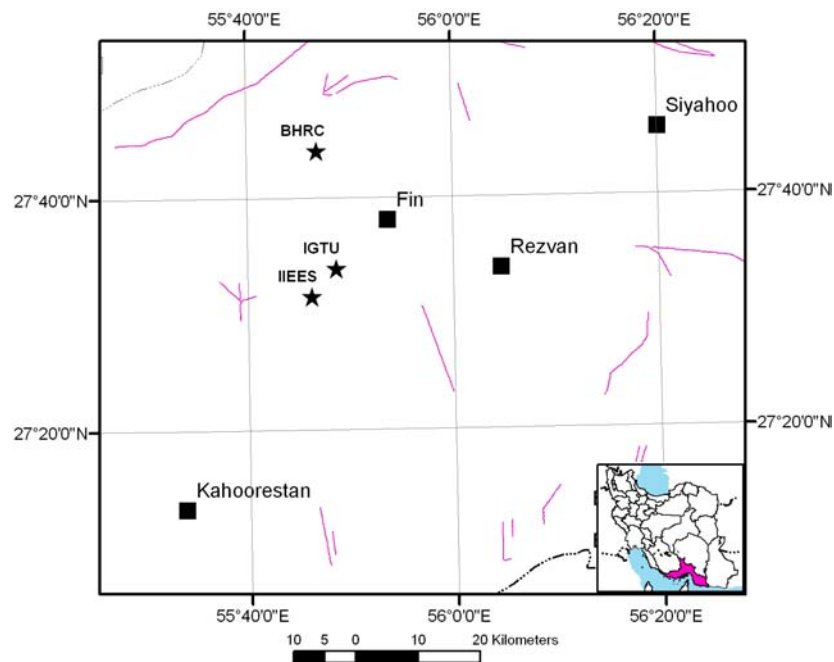


Figure 4. The location of Ahmadi Earthquake of March 25th, 2006

■ Triggered accelerographs   □ Not Triggered accelerographs   ★ Epicenter   — Fault

#### 2.4 The greatest foreshock of Silakhor earthquake (March 31st, 2006), of March 30<sup>th</sup>

This event was the greatest foreshock of Silakhor earthquake of March 31<sup>st</sup>, 2006 that occurred less than 7 hours, on Tuesday, March 30th, 2006 at 19:36:16 (UTC). This foreshock with the peak acceleration of about 320 cm/s/s in ChalanChoolan station is recorded by 8 accelerograph stations (Figure 5).

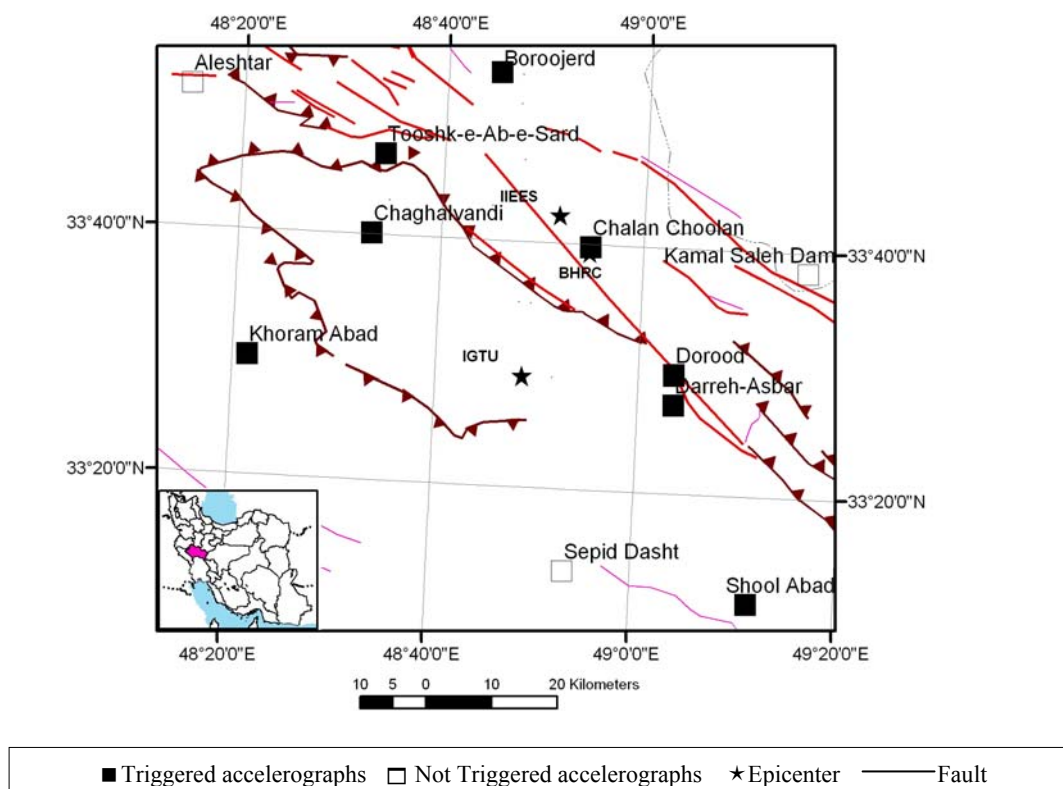


Figure 5. The location of foreshock Silakhor earthquake (March 31th, 2006), That occurred on March 30<sup>th</sup>, 2006.

### 2.5 Silakhor earthquake of March 31st, 2006

On Friday early morning of March 31, 2006 at 01:17:02(UTC), an earthquake with the magnitude of Mw6.1 (HRV), M6.0 (IGTU), and Ml6.1 (IIEES) occurred in Lorestan province, west of Iran (Figure 6). This earthquake caused heavy structural damages in the region (Figure 7.a). Due to this earthquake 66 people killed and 1,280 more injured at least and many buildings in 330 villages surrounding the epicenter destroyed or damaged. It is likely the death toll would have been much more if the residents had not been warned by a series of weaker foreshocks.

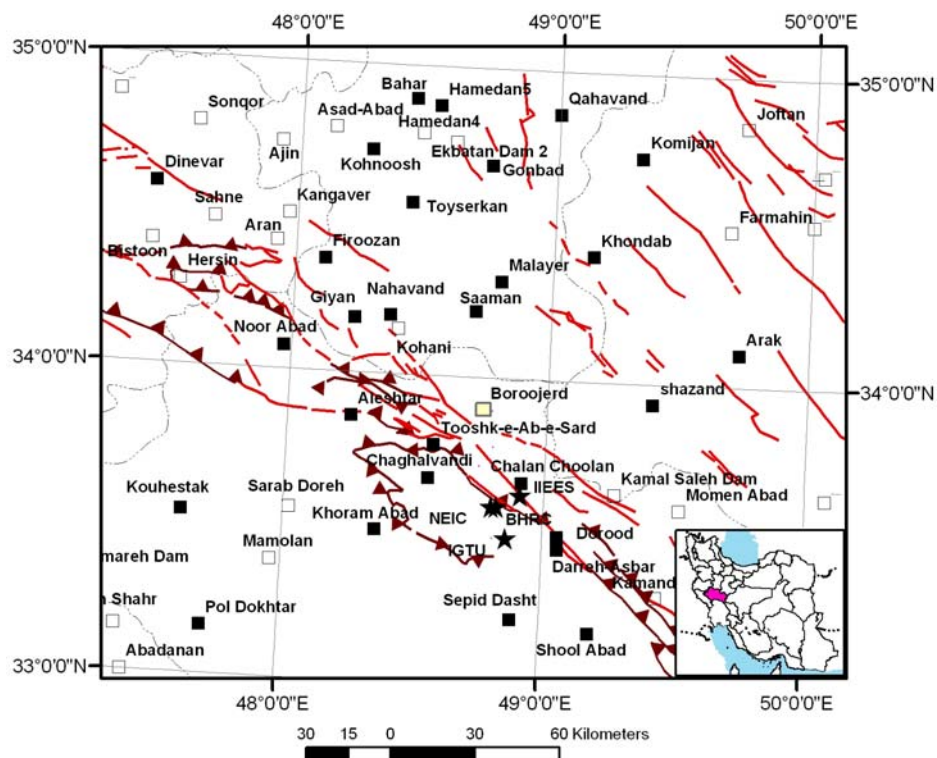
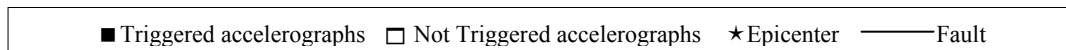


Figure 6. The location of Silakhor earthquake of March 31<sup>st</sup> 2006 and the triggered stations



The strong ground motions of this event were recorded by 29 set of SSA-2 digital accelerographs. The recorded accelerogram in the ChalanChoolan station (figure 7.b), with a  $T_s$ - $T_p$  of about 1.71 seconds is the closest obtained accelerogram, which suggests a focal distance of about 12 km. The maximum acceleration was recorded in ChalanChoolan station with the peak value of about 432 and 524 cm/s/s on horizontal and vertical components respectively. The epicenter of this event has been located at 33.583N, 48.800E (NEIC), 33.62N, 48.91E (IIEES).

This earthquake had Seven foreshocks that are recorded by ISMN. The strongest foreshock was that happened on Tuesday of March 30, 2006, at 19:36:16 (UTC) and described in detail before. It was followed by many aftershocks, and ISMN has recorded about 300 accelerograms in the go after 3 months as well.



Figure 7a. Structural heavy damage

Building and Housing Research Center (BHRC)  
Iran Strong Motion Network (ISMN)

Station: Chalan Choolan  
Rec.No: 4027/08

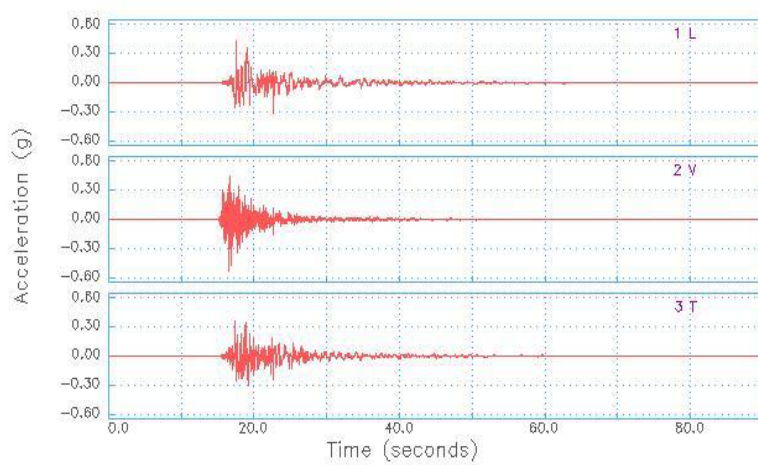


Figure 7b. recorded accelerogram in ChalanChoolan station

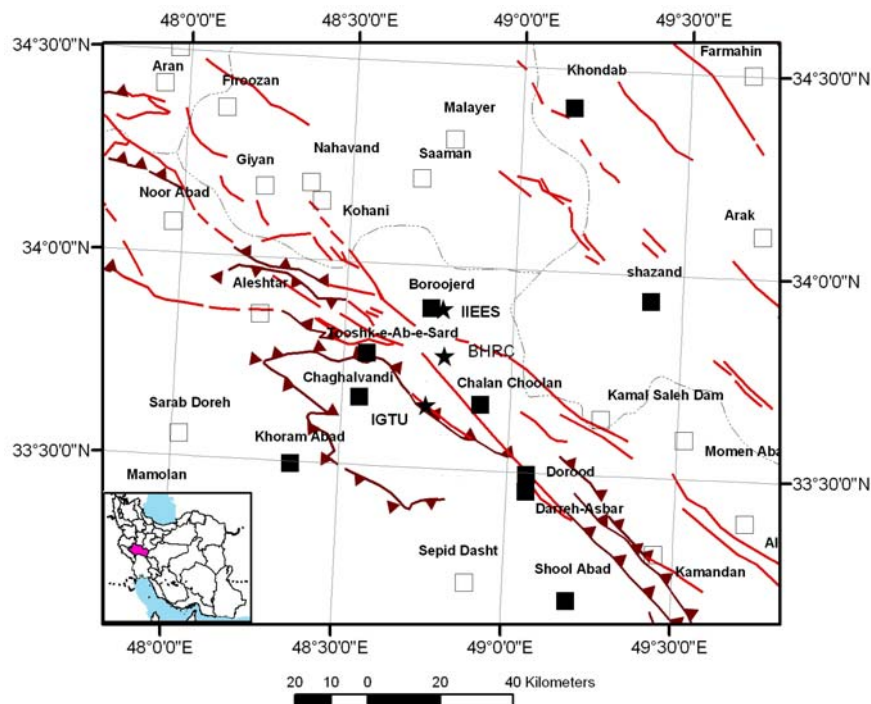


Figure 8. The location map of aftershock of March 31<sup>st</sup>, 2006 of Silakhor earthquake of March 31<sup>st</sup>, 2006

■ Triggered accelerographs   □ Not Triggered accelerographs   ★ Epicenter   — Fault

## 2.6 Aftershock of Silakhor earthquake (March 31<sup>st</sup>, 2006), of March 31<sup>st</sup>, 2006

The Silakhor earthquake of March 31<sup>st</sup>, 2006 was followed by hundreds of aftershocks, among them the event of Friday morning of March 31, 2006 at 11:54:02 (UTC), with the magnitude of M5.3 (IGTU) was the strongest one that occurred about 11 hour later. This earthquake recorded by 10 accelerograph stations (Figure 8) and the maximum PGA of about 206 gals obtained in ChalanChoolan station.

## 2.7 Saez earthquake of June 6<sup>th</sup>, 2006

On Tuesday, June 6<sup>th</sup>, 2006 at 17:03:02 (UTC), an earthquake with M15.3 (BHRC), M4.9 (NEIC), M14.8 (IIEES) occurred in west of Iran in the Kurdistan province. This event was recorded by 6 sets of digital accelerographs (Figure 9) of Iran Strong Ground Motion Network (ISMN). The maximum peak acceleration as much as 42 cm/s/s was recorded in Saez station. The epicenter of this event has been located at 35.74 N, 46.18E (BHRC), 35.641 N, 46.045E



(NEIC), 35.59 N, 45.85 E (IIEES). About 9 seconds before, a foreshock occurred in this area. This foreshock with  $M_L 4.2$  was recorded by Marivan, Baneh and Boein sofia accelerograph stations. The Epicenter of this foreshock has been located at 46.24E, 35.78N (BHRC).

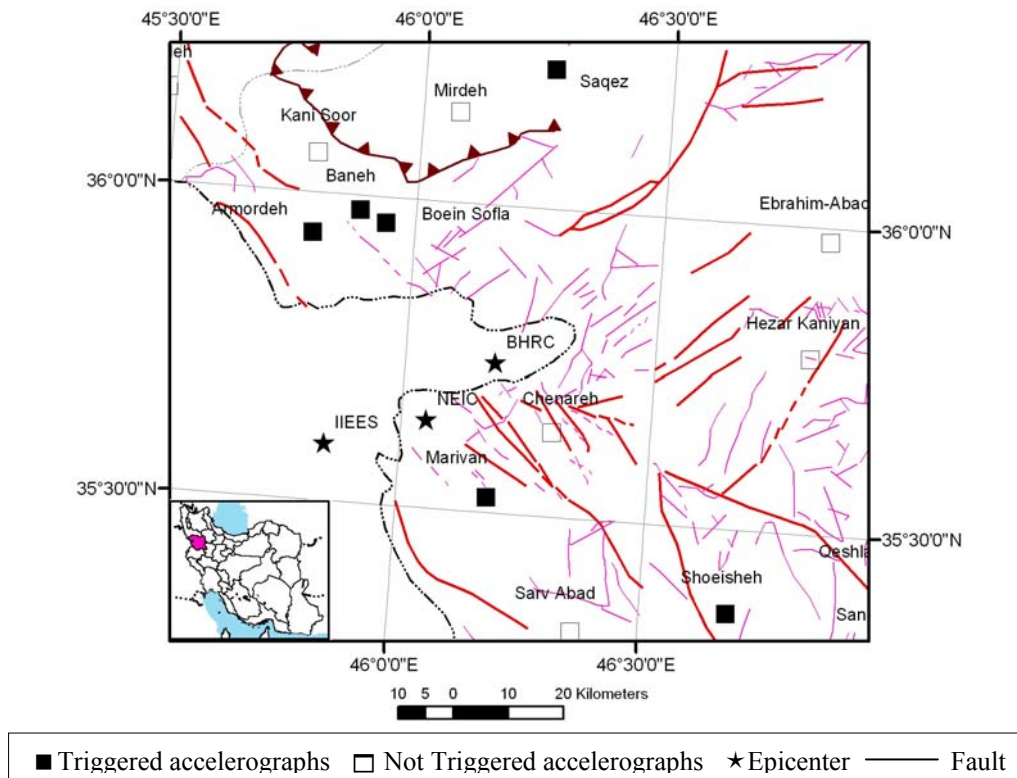


Figure 9. The location map of Saez earthquake of June 6<sup>th</sup>, 2006