

# QUAKE BULLETIN

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## EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide in the month of February-2013. The list of the earthquakes is as follows:

### Worldwide:

(Source: <http://earthquake.usgs.gov/earthquakes/>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
02/02/2013	14:17:35	42.758°N	143.106°E	107.0	6.9	Obihiro, Japan
06/02/2013	01:12:27	10.738°S	165.138°E	28.7	8.0	Lata, Solomon Islands
09/02/2013	14:16:07	1.142°N	77.400°W	145.0	6.9	Yacuanquer, Columbia
28/02/2013	14:05:51	50.934°N	157.340°E	52.5	6.9	Ozernovskiy, Russia

### India wide:

(Source: Indian Meteorological Department, IMD,  
<http://www.imd.gov.in/section/seismo/dynamic/CMONTH.HTM>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
04/02/2013	01:19:28	11.7°N	92.7°E	10	4.8	Andaman Islands, India
06/02/2013	05:29:22	15.5°N	80.0°E	05	2.9	Ongole, Andhra Pradesh
06/02/2013	08:22:45	28.8°N	76.5°E	05	2.7	Rohtak, Haryana
11/02/2013	10:48:55	31.0°N	78.4°E	05	4.3	Uttarkashi, Uttarakhand
11/02/2013	21:40:26	29.2°N	95.9°E	10	4.0	Dibang Valley, Arunachal Pradesh
17/02/2013	16:27:07	30.9°N	78.4°E	10	3.2	Uttarkashi, Uttarakhand
19/02/2013	21:05:11	25.4°N	89.1°E	10	4.5	Bangladesh India Border
24/02/2013	00:57:17	26.3°N	75.6°E	05	4.1	Tonk, Rajasthan
25/02/2013	02:28:25	30.9°N	78.4°E	11	3.1	Uttarkashi, Uttarakhand
26/02/2013	17:26:35	11.2°N	75.8°E	15	3.0	Kozhikode, Kerala
27/02/2013	12:27:13	25.7°N	90.6°E	05	3.6	East Garo Hills, Meghalaya
28/02/2013	17:32:34	27.1°N	92.3°E	10	3.9	West Kameng, Arunachal Pradesh

## GROUND MOTION RECORDS:

In our centre around 280 ground motion records are available. Since 1973 the ground motions are available with N-S, E-W and U-D components. All the available ground motions are listed.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component
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1	Khokhrajhar	06 May 2009	Khokhrajhar	E-W
2	Khokhrajhar	06 May 2009	Khokhrajhar	N-S
3	Khokhrajhar	06 May 2009	Khokhrajhar	U-D
4	Chamoli	15 May 2009	Chamoli	E-W
5	Chamoli	15 May 2009	Chamoli	N-S
6	Chamoli	15 May 2009	Chamoli	U-D
7	Khokhrajhar	16 May 2009	Khokhrajhar	E-W
8	Khokhrajhar	16 May 2009	Khokhrajhar	N-S
9	Khokhrajhar	16 May 2009	Khokhrajhar	U-D
10	Chamba	04 Jun 2009	Chamba	E-W
11	Chamba	04 Jun 2009	Chamba	N-S
12	Chamba	04 Jun 2009	Chamba	U-D
13	Golpara	19 Jun 2009	Golpara	E-W
14	Golpara	19 Jun 2009	Golpara	N-S
15	Golpara	19 Jun 2009	Golpara	U-D

The records are available at server ([\\10.2.28.225](http://10.2.28.225))

### **EERC LIBRARY:**

#### **Publications:**

The following publications are very useful for research and are available in server

- ❖ Albanesi T, Nuti C, Vanzi I (2000)., "A Simplified Procedure to Assess the Seismic Response of Nonlinear Structures", Earthquake Spectra, Vol. 16, No. 4, pp. 715-734.
- ❖ Yuan-TaoWeng, Keh-Chyuan Tsai, and Ya-Ran Chan (2010)., "A Ground Motion Scaling Method Considering Higher-Mode Effects and Structural Characteristics", Earthquake Spectra, Vol. 26, No. 3, pp. 841-867.
- ❖ Taewan Kim, Douglas A. Foutch, James Wilcoski, and JamesM. LaFave (2009)., "Response Modification Factors for RC Case-Study Buildings with Structural Walls", Earthquake Spectra, Vol. 25, No. 4, pp. 803-819.
- ❖ Sergio Lagomarsino, and Sonia Resemini (2009)., "The Assessment of Damage Limitation State in the Seismic Analysis of Monumental Buildings", Earthquake Spectra, Vol. 25, No. 2, pp. 323-346.
- ❖ Mark Aschheim (2002)., "Seismic Design Based on the Yield Displacement", Earthquake Spectra, Vol. 18, No. 4, pp. 581-600.

## Reports:

The following reports are very useful for research and are available in server

- ❖ Alidad Hashemi and Khalid M. Mosalam (2007)., " Seismic Evaluation of Reinforced Concrete Buildings Including Effects of Masonry Infill Walls ", PEER Report 2007/100, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

The publications and reports are available at server ([\\10.2.28.225](#))