

QUAKE BULLETIN

Monthly 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 December-2012. The list of the earthquakes is as follows:

Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
21/12/2012	22:28:07	14.331°S	167.290°E	188	6.7	Vanuatu
14/12/2012	10:36:02	31.213°N	119.560°W	11.3	6.3	Avalon, California
10/12/2012	16:53:08	6.533°S	129.825°E	155	7.1	Saumlaki, Indonesia
07/12/2012	18:19:07	38.278°S	176.099°E	167.5	6.3	Rotorua, New Zealand
07/12/2012	8:18:23	37.891°N	143.946°E	31	7.3	Ofunato, Japan

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
5/12/2012	8:05:03	25.1°N	94.8°E	85	4.1	Myanmar-India (Manipur)Border Region
6/12/2012	14:33:58	27.8°N	94.1°E	10	3.4	Lower Subansiri, Arunachal Pradesh
8/12/2012	7:06:09	23.0°N	70.4°E	10	4.3	Rann of Kachchh, Gujarat
11/12/2012	7:19:05	23.5°N	93.4°E	23	3.8	India (Mizoram)-Myanmar Border Region
19/12/2012	22:32:00	28.6°N	76.8°E	10	2.9	Distt Jhajjar, Haryana
20/12/2012	13:00:56	27.5°N	76.2°E	5	3.6	Distt Jaipur, Rajasthan
21/12/2012	7:59:45	25.6°N	94.1°E	10	3.6	Distt Kohima, Nagaland
22/12/2012	16:41:44	22.5°N	94.8°E	115	5.7	Myanmar
26/12/2012	2:04:42	26.5°N	92.7°E	26	3.4	Nagaon, Assam
30/12/2012	8:16:45	24.2°N	91.6°E	30	4.2	India (Tripura)-Bangladesh Border Region

GROUND MOTION RECORDS:

In our centre around 250 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
1	India-Myanmar Border	24 Feb 2009	Diphu	E-W
2	India-Myanmar Border	24 Feb 2009	Diphu	N-S
3	India-Myanmar Border	24 Feb 2009	Diphu	U-D
4	India-Myanmar Border	24 Feb 2009	Golaghat	E-W
5	India-Myanmar Border	24 Feb 2009	Golaghat	N-S
6	India-Myanmar Border	24 Feb 2009	Golaghat	U-D
7	India-Myanmar Border	24 Feb 2009	Lakhimpur	E-W
8	India-Myanmar Border	24 Feb 2009	Lakhimpur	N-S
9	India-Myanmar Border	24 Feb 2009	Lakhimpur	U-D
10	Uttarakhand	25 Feb 2009	Chamoli	E-W
11	Uttarakhand	25 Feb 2009	Chamoli	N-S
12	Uttarakhand	25 Feb 2009	Chamoli	U-D
13	Uttarkashi	18 Mar 2009	Barkot	E-W
14	Uttarkashi	18 Mar 2009	Barkot	N-S
15	Uttarkashi	18 Mar 2009	Barkot	U-D

The records are available at server ([\\10.2.28.225](#))

EERC LIBRARY:

Publications:

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

- ❖ Kaustubh Das Gupta and CVR Murty (2004)., "Dependence of Ductility and Energy Dissipation on Limiting Strain States in Seismic Design of RC Columns ", Proceedings of 13th World Conference on Earthquake Engineering, Vancouver, Canada, Paper ID: 2415.
- ❖ Dhiman Basu and Sudhir K (2004)., "Seismic Analysis of Asymmetric Buildings with Flexible Floor Diaphragms", Journal of Structural Engineering, ASCE, Vol. 130, No. 8, pp. 1169-1176.
- ❖ Diptesh Das and C.V.R. Murty (2004)., "Brick Masonry Infills in Seismic Design of RC Frame Buildings", Indian Concrete Journal, Vol. 77, No. 8, pp. 31-38.
- ❖ Goutam Mondal and Sudhir K (2005)., "Design of Non-Structural Elements for Buildings: A Review of Codal Provisions", Indian Concrete Journal, Vol. 78, No. 8, pp. 22-28.
- ❖ Hemant B. Kaushik, Durgesh C. Rai, and Sudhir K. Jain (2006)., " Code Approaches to Seismic Design of Masonry-Infilled Reinforced Concrete Frames: A State-of-the-Art Review", Earthquake Spectra, Vol. 22, No. 4, pp. 961-983.

Reports:

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

❖ Jose A Ugalde, Bruce L Kutter and Boris Jeremic (2010)., "Rocking Response of Bridges on Shallow Foundations", PEER Report 2010/101, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

The publications and reports are available at server ([\\10.2.28.225](http://10.2.28.225))