

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-2013 and January-2014. The list of the earthquakes is as follows:

Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
20/01/2014	02:52:45	40.634°S	175.777°E	28.0	6.2	Palmerston North, New Zealand
13/01/2014	04:01:04	19.001°N	66.848°W	28.0	6.4	Hatillo, Puerto Rico
09/01/2014	20:57:43	23.189°N	80.677°W	10.0	5.1	Corralillo, Cuba
01/01/2014	16:03:28	13.878°S	167.243°E	187.0	6.5	Sola, Vanuatu

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
04/12/2013	13:05:20	26.6°N	89.5°E	10	4.7	India(West Bengal)-Bangladesh Border Region
05/12/2013	18:11:07	36.7°N	73.4°E	65	4.7	Northern Kashmir (J& K)
06/12/2013	18:58:42	35.5°N	77.0°E	35	3.8	India (J & K) - Tibet Border Region
07/12/2013	04:41:50	24.2°N	91.4°E	10	3.8	Bangladesh-India(Tripura) Border Region
08/12/2013	04:33:31	11.1°N	76.3°E	5	3.2	District Malappuram , Kerala
09/12/2013	08:38:58	35.4°N	77.4°E	10	3.8	Jammu & Kashmir Region
09/12/2013	10:54:18	11.0°N	76.3°E	5	3.4	District Malappuram , Kerala
13/12/2013	10:21:48	27.8°N	95.4°E	10	3.5	Dhemaji, Assam
16/12/2013	04:31:35	26.8°N	89.4°E	10	3.5	Jalpaiguri, West Bengal
17/12/2013	07:34:48	24.9°N	94.9°E	118	4.2	Myanmar-India (Manipur) Border Region
17/12/2013	08:56:28	24.1°N	91.1°E	20	3.8	Bangladesh-India (Tripura) Border Region
17/12/2013	14:45:52	31.5°N	78.0°E	10	3.3	Distt. Kinnaur, H.P.
25/12/2013	02:56:52	31.2°N	78.3°E	10	4.0	District Uttarkashi, Uttarakhand
30/12/2013	09:44:11	24.3°N	93.2°E	10	4.5	Churachandpur - Manipur
05/01/2014	13:30:46	33.3°N	75.9°E	10	3.6	Kishtwar , Jammu & Kashmir

07/01/2014	13:50:24	20.5°N	73.8°E	05	3.4	Distt Nashik, Maharashtra
20/01/2014	14:40:55	29.7°N	80.3°E	15	2.8	India(Uttrakhand,Distt Pithoragarh)- Nepal Border Region
26/01/2014	12:38:35	23.1°N	96.0°E	10	5.1	Myanmar

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	Golpara	04 Apr 2009	Golpara	E-W
2	Golpara	04 Apr 2009	Golpara	N-S
3	Golpara	04 Apr 2009	Golpara	U-D
4	Dhipu	17 Apr 2009	Dhipu	E-W
5	Dhipu	17 Apr 2009	Dhipu	N-S
6	Dhipu	17 Apr 2009	Dhipu	U-D
7	Kamrup	25 Apr 2009	Boko	E-W
8	Kamrup	25 Apr 2009	Boko	N-S
9	Kamrup	25 Apr 2009	Boko	U-D
10	Kamrup	25 Apr 2009	Guwahati	E-W
11	Kamrup	25 Apr 2009	Guwahati	N-S
12	Kamrup	25 Apr 2009	Guwahati	U-D
13	Bongaigaon	04 May 2009	Bomdila	E-W
14	Bongaigaon	04 May 2009	Bomdila	N-S
15	Bongaigaon	04 May 2009	Bomdila	U-D
16	Khokhrajhar	06 May 2009	Khokhrajhar	E-W
17	Khokhrajhar	06 May 2009	Khokhrajhar	N-S
18	Khokhrajhar	06 May 2009	Khokhrajhar	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

- ❖ Ravikanth Chittiprolu, and Ramancharla Pradeep Kumar (2014), "Significance of Shear Wall in Highrise Irregular Buildings", International Journal of Education and Applied Research, Vol.4, Special Issue No.2, pp.35-37.
- ❖ Patanala VS Neelima, and Ramancharla Pradeep Kumar (2014), "Seismic Behavior of RC Frame with URM Infill: A Case Study", International Journal of Education and Applied Research, Vol.4, Special Issue No.2, pp.20-26.

- ❖ Chenna Rajaram, and Ramancharla Pradeep Kumar (2014), "Vulnerability Assessment of Coastal Structure: A Study on Port Buildings", International Journal of Education and Applied Research, Vol.4, Special Issue No.2, pp.9-15.
- ❖ Rui Marques and Paulo B. Lourenço (2013)., "A model for pushover analysis of confined masonry structures: implementation and validation", Journal of Bulletin of Earthquake Engineering, Vol. 11, pp. 2133-2150.
- ❖ Nuray Aydinoglu (2003)., " An Incremental Response Spectrum Analysis Procedure Based on Inelastic Spectral Displacements for Multi-Mode Seismic Performance Evaluation", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 3-36.
- ❖ Yeudy F. Vargas, Luis G. Pujades, Alex H. Barbat and Jorge E. Hurtado (2013)., "Capacity, fragility and damage in reinforced concrete buildings: a probabilistic approach", Journal of Bulletin of Earthquake Engineering, Vol. 11, pp. 2007-2032.
- ❖ Robin Spence, Julian Bommer, Domenico Del Re, Juliet Bird, Nuray Aydinog Lu And Shigeo Tabuchi (2003)., "Comparing Loss Estimation with Observed Damage: A Study of the 1999 Kocaeli Earthquake in Turkey", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 83-113.
- ❖ Melina Bosco, Aurelio Ghersi, Edoardo M. Marino and Pier Paolo Rossi (2013)., "Comparison of nonlinear static methods for the assessment of asymmetric buildings", Journal of Bulletin of Earthquake Engineering, Vol. 11, pp. 2287-2308.
- ❖ George Mylonakis, Elia Voyagaki And Thomas Price (2003)., "Damage Potential of the 1999 Athens, Greece, Accelerograms", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 205-240.
- ❖ Silvia L. Dimova, and Ilia Alashki (2003)., "Seismic Design of Symmetric Structures for Accidental Torsion", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 303-320.
- ❖ Angelo Masi (2003)., "Seismic Vulnerability Assessment of Gravity Load Designed R/C Frames", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 371-395.
- ❖ Wei Zhou, Wenzhong Zheng and Santiago Pujol (2013)., "Seismic vulnerability of reinforced concrete structures affected by the 2008 wenchuan earthquake", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 2079-2104.
- ❖ Julian J. Bommer, John Douglas and Fleur O. Strasser (2013)., "Style-of-Faulting in Ground-Motion Prediction Equations", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 171-203.
- ❖ J. Douglas (2003)., "What is a Poor Quality Strong-Motion Record?", Journal of Bulletin of Earthquake Engineering, Vol. 1, pp. 141-156.

Reports:

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

- ❖ L. Ibarra and H. Krawinkler (2005)., "Global Collapse of Frame Structures under Seismic Excitations", PEER Report 2005/06, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

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