

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 October-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
12/10/2013	02:10:29	10.877°N	62.278°W	79.4	6.1	Gueiria, Venezuela
12/10/2013	13:11:52	35.487°N	23.261°E	36.2	6.4	Platanos, Greece
15/10/2013	00:12:32	9.877°N	124.118°E	20.7	7.1	Sagbayan, Philippines
16/10/2013	10:31:00	6.487°S	154.928°E	54.1	6.8	Panguna, Papua New Guinea
19/10/2013	17:54:55	26.156°N	110.291°W	11.9	6.5	Etchoropo, Mexico
24/10/2013	19:25:12	58.208°S	12.950°W	26.1	6.7	South Sandwich Islands
25/10/2013	17:10:18	37.149°N	144.679°E	26.1	7.1	East coast of Honshu, Japan
30/10/2013	02:51:50	35.297°S	72.931°W	17.9	6.2	Constitucion, Chile
31/10/2013	12:02:09	23.591°N	121.443°E	12.0	6.3	Hualian, Taiwan
31/10/2013	23:03:59	30.298°S	71.557°W	29.0	6.6	Coquimbo, Chile

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
03/10/2013	06:12:40	27.4°N	88.5°E	10	5.0	Sikkim
07/10/2013	20:54:03	26.3°N	92.5°E	10	3.7	Nagaon, Assam
09/10/2013	05:25:20	27.1°N	92.5°E	10	3.4	West Kameng, Arunachal Pradesh
11/10/2013	18:05:34	28.8°N	76.7°E	10	3.3	Rohtak, Haryana
16/10/2013	07:02:44	27.6°N	92.7°E	10	3.5	West Kameng, Arunachal Pradesh
20/10/2013	19:45:05	35.8°N	77.5°E	80	5.5	India-China Border
21/10/2013	02:27:11	35.1°N	77.1°E	12	5.4	Eastern Kashmir
23/10/2013	14:47:24	35.5°N	77.2°E	14	3.5	Jammu & Kashmir
24/10/2013	09:12:41	35.5°N	77.4°E	23	4.0	India-China Border
26/10/2013	00:05:03	33.0°N	75.9°E	10	4.0	Bhadarwah, Jammu & Kashmir
26/10/2013	08:46:35	25.7°N	90.8°E	10	3.5	East Garo Hills, Meghalaya
29/10/2013	07:51:00	22.9°N	94.2°E	46	4.7	Myanmar Region

GROUND MOTION RECORDS:

In our centre around 403 ground motion records are available. Since 1973 the ground motions are available with N-S, E-W and U-D components. The updated ground motions are listed.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component
1	Bhutan	21 Sep 2009	Vihar	E-W
2	Bhutan	21 Sep 2009	Vihar	N-S
3	Bhutan	21 Sep 2009	Vihar	U-D
4	Bhutan	21 Sep 2009	Lakhimpur	E-W
5	Bhutan	21 Sep 2009	Lakhimpur	N-S
6	Bhutan	21 Sep 2009	Lakhimpur	U-D
7	Bhutan	21 Sep 2009	Khokhrajhar	E-W
8	Bhutan	21 Sep 2009	Khokhrajhar	N-S
9	Bhutan	21 Sep 2009	Khokhrajhar	U-D
10	Bhutan	21 Sep 2009	Tejpur	E-W
11	Bhutan	21 Sep 2009	Tejpur	N-S
12	Bhutan	21 Sep 2009	Tejpur	U-D
13	Bhutan	21 Sep 2009	Naogaon	E-W
14	Bhutan	21 Sep 2009	Naogaon	N-S
15	Bhutan	21 Sep 2009	Naogaon	U-D
16	Bhutan	21 Sep 2009	Siliguri	E-W
17	Bhutan	21 Sep 2009	Siliguri	N-S
18	Bhutan	21 Sep 2009	Siliguri	U-D

The records are available at server ([\\10.2.32.173](http://10.2.32.173))

EERC LIBRARY:

Publications:

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

- ❖ Archanaa Dongre and Pradeep K Ramancharla (2013), "Parametric study for displacement based analysis of unreinforced brick masonry walls subjected to lateral loads", Proc. of Urban Safety of Mega Cities in Asia (USMCA), Hanoi, Vietnam
- ❖ Ajay Kumar Sreerama and Pradeep K Ramancharla (2013), " Earthquake behavior of reinforced concrete framed buildings on hill slopes ", Proc. of Urban Safety of Mega Cities in Asia (USMCA), Hanoi, Vietnam
- ❖ Joseph Wieser, Gokhan Pekcan, Arash E. Zaghi, Ahmad Itani and Manos Maragakis., (2013), "Floor Accelerations in Yielding Special Moment Resisting Frame Structures", Earthquake Spectra, Vol. 29, No. 3, pp.987-1002.

- ❖ Chinmoy Kolay, Amit Prashant and Sudhir K.Jain., (2013), "Nonlinear Dynamic Analysis and Seismic Coefficient for Abutments and Retaining Walls", Earthquake Spectra, Vol. 29, No. 2, pp.427-451.
- ❖ Amin Karbassi and Marie-José Nollet., (2013), "Performance-Based Seismic Vulnerability Evaluation of Masonry Buildings Using Applied Element Method in a Nonlinear Dynamic-Based Analytical Procedure", Earthquake Spectra, Vol. 29, No. 2, pp.399-426.
- ❖ Jer-Fu Wang, Chi-Chang Lin, Ging-Long Lin and Chun-Hao., (2013), "Story Damage Identification of Irregular Buildings Based on Earthquake", Earthquake Spectra, Vol. 29, No. 3, pp.963-985.

Reports:

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

- ❖ Lee T H and Mosalam K (2006)., "Probabilistic Seismic Evaluation of Reinforced Concrete Structural Components and Systems", PEER Report 2006/04, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

The publications and reports are available at server ([\\10.2.32.173](#))