

QUAKE BULLETIN

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from July 2015. The list of the earthquakes is as follows:

Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
10/07/2015	04:12:42	9.303°S	158.396°E	12.0	6.7	Dadali, Soloman Islands
18/07/2015	02:27:33	10.444°S	165.172°E	10.0	7.0	Lata, Soloman Islands
27/07/2015	04:49:46	52.443°N	169.597°W	27.1	6.9	Nikolski, Alaska
27/07/2015	21:41:21	2.683°S	138.508°E	48.0	7.0	Abepura, Indonesia

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
02/07/2015	01:56:12	27.8°N	85.3°E	10	4.0	NEPAL
02/07/2015	07:18:24	34.4°N	73.8°E	10	5.1	INDIA (J & K) PAKISTAN BORDER REGION
03/07/2015	00:37:40	13.3°N	93.2°E	25	4.2	ANDAMAN ISLANDS REGION
03/07/2015	20:04:08	27.7°N	85.0°E	10	4.3	NEPAL
10/07/2015	12:53:22	26.8°N	90.4°E	10	4.5	KOKRAJHAR, ASSAM
10/07/2015	21:13:00	27.4°N	86.0°E	10	4.5	NEPAL
10/07/2015	22:27:33	25.6°N	90.6°E	10	4.2	EAST GARO HILLS, MEGHALAYA
18/07/2015	23:48:07	30.5°N	79.1°E	13	4.3	DISTT. RUDRAPRAYAG, UTTARAKHAND
23/07/2015	06:04:14	15.8°N	74.0°E	09	2.9	SINDHUDURG, MAHARASHTRA
23/07/2015	14:36:05	21.4°N	79.9°E	10	3.9	DISTRICT GONDIYA, MAHARASHTRA
26/07/2015	10:04:05	36.6°N	71.6°E	10	5.0	HINDUKUSH REGION
26/07/2015	16:59:08	30.0°N	80.4°E	10	3.4	DISTT.PITHORAGARH, UTTARAKHAND
27/07/2015	07:33:42	27.3°N	91.0°E	10	4.3	BHUTAN

GROUND MOTION RECORDS:

In our centre around 600 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		
				NS	EW	UD
1	Tisa	03 Dec 2009	Tisa	√	√	√
2	India China Border	06 Dec 2009	Rampur	√	√	√
3	Myamar India Border	29 Dec 2009	Bongaigaon	√	√	√
			Goalpara	√	√	√
			Guwahati	√	√	√
			Hailakandi	√	√	√
			Tejpur	√	√	√
			Tura	√	√	√

EERC LIBRARY:

Publications:

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

- ❖ Shivam Mishra, Vimala Anthugari and R. Pradeep Kumar (2015), "Effect of column cross section geometry on response modification factors", Indian Concrete Journal, Vol 89, No.8, pp.
- ❖ Shaohong Wu, Jing Jin, and Tao Pan, (2015), "Empirical seismic vulnerability curve for mortality: case study of China", Natural Hazards, Vol. 77, No. 2, pp. 645-662.
- ❖ Maosheng Gong, Shibin Lin, Jingjiang Sun, Shanyou Li, Junwu Dai, and Lili Xie (2015), "Seismic intensity map and typical structural damage of 2010 Ms 7.1 Yushu earthquake in China", Natural Hazards, Vol. 77, No. 2, pp. 847-866.
- ❖ Sandeep, A. Joshi, Kamal, Parveen Kumar, Ashvini Kumar, and Piu Dhibar (2015), "Modeling of strong motion generation areas of the Niigata, Japan, earthquake of 2007 using modified semi-empirical technique", Natural Hazards, Vol. 77, No. 2, pp. 933-957.
- ❖ Roy. P.N., Suparna Chowdhury, Partha Sarkar, and Saroj Kumar Mondal (2015), "Fractal study of seismicity in order to characterize the various tectonic blocks of North-east Himalaya, India", Natural Hazards, Vol. 77, No. 1, pp. 5-18.
- ❖ Miguel A. Jaimes, Mauro Niño, and Eduardo Reinoso (2015), "Regional map of earthquake-induced liquefaction hazard using the lateral spreading displacement index D_u ", Natural Hazards, Vol. 77, No. 3, pp. 1595-1618.

Reports:

The following reports are very useful for research

- ❖ Chopra A and Goel R. (2001)., "A Modal Pushover Analysis Procedure to Estimate Seismic Demands for Buildings: Theory and Preliminary Evaluation", PEER Report 2001/03, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.