

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 June-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
13/06/2013	16:47:23	9.998°S	107.243°E	8.6	6.7	Christmas Island
15/06/2013	17:34:29	11.725°N	86.975°W	35.8	6.5	Masachapa, Nicaragua
24/06/2013	22:04:13	10.701°N	42.594°W	10	6.6	Northern Mid-Atlantic Ridge

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
01/06/2013	13:28:57	22.1°N	88.7°E	28	3.6	South 24 Parganas, West Bengal
03/06/2013	06:40:45	24.2°N	91.4°E	10	3.4	Bangladesh-India Border Region
04/06/2013	17:34:44	32.7°N	76.7°E	10	4.8	Lahul & Spiti, Himachal Pradesh
04/06/2013	23:56:28	32.4°N	76.0°E	30	3.7	Chamba, Himachal Pradesh
05/06/2013	22:04:00	32.8°N	76.3°E	10	4.5	Chamba, Himachal Pradesh
15/06/2013	00:10:34	24.5°N	93.5°E	20	3.5	Churachandpur, Manipur
16/06/2013	00:39:22	27.5°N	92.4°E	05	3.7	West Kameng, Arunachal Pradesh
18/06/2013	00:57:54	24.1°N	91.2°E	15	3.5	Bangladesh-India Border Region
26/06/2013	05:48:47	09.6°N	91.2°E	10	5.2	Nicobar Islands Region, India
27/06/2013	06:20:57	30.1°N	80.4°E	04	3.5	Pithoragarh, Uttarakhand
28/06/2013	11:40:48	28.7°N	82.2°E	10	5.0	Nepal
30/06/2013	02:44:21	21.9°N	74.9°E	09	3.3	Barwani, Madhya Pradesh

GROUND MOTION RECORDS:

In our centre around 355 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
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1	Gangtok	16 Aug 2009	Gangtok	E-W
2	Gangtok	16 Aug 2009	Gangtok	N-S
3	Gangtok	16 Aug 2009	Gangtok	U-D
4	Sonitpur-Assam	19 Aug 2009	Boko	E-W
5	Sonitpur-Assam	19 Aug 2009	Boko	N-S
6	Sonitpur-Assam	19 Aug 2009	Boko	U-D
7	Sonitpur-Assam	19 Aug 2009	Guwahati	E-W
8	Sonitpur-Assam	19 Aug 2009	Guwahati	N-S
9	Sonitpur-Assam	19 Aug 2009	Guwahati	U-D
10	Uttarakhand	27 Aug 2009	Bageshwar	E-W
11	Uttarakhand	27 Aug 2009	Bageshwar	N-S
12	Uttarakhand	27 Aug 2009	Bageshwar	U-D
13	Uttarakhand	27 Aug 2009	Kapkot	E-W
14	Uttarakhand	27 Aug 2009	Kapkot	N-S
15	Uttarakhand	27 Aug 2009	Kapkot	U-D
16	Uttarakhand	27 Aug 2009	Munsiari	E-W
17	Uttarakhand	27 Aug 2009	Munsiari	N-S
18	Uttarakhand	27 Aug 2009	Munsiari	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

- ❖ Murty CVR, Rupen Goswami, Vijayanarayanan, Pradeep Kumar R and Vipul Mehta (2013)., "Introduction to Earthquake Protection of Non-Structural Elements in Buildings", Gujarat State Disaster Management Authority, Government of Gujarat.
- ❖ Kyriazis Pitilakis, Evi Riga, and Anastasios Anastasiadis (2012)., "Design spectra and amplification factors for Eurocode 8", Bulletin of Earthquake Engineering, Vol. 10, pp. 1377-1400.
- ❖ Julian Bommer, Sinan Akkar, and Stéphane Drouet (2012)., "Extending ground-motion prediction equations for spectral accelerations to higher response frequencies", Bulletin of Earthquake Engineering, Vol. 10, pp. 379-399.
- ❖ D' Ayala, and Ansal (2012)., "Non linear push over assessment of heritage buildings in Istanbul to define seismic risk" Bulletin of Earthquake Engineering, Vol. 10, pp. 285-306.
- ❖ Alexandre Costa, António Arêde, Aníbal Costa, and Carlos Sousa Oliveira (2012)., "Out-of-plane behaviour of existing stone masonry buildings: experimental" Bulletin of Earthquake Engineering, Vol. 10, pp. 93-111.
- ❖ Günther Achs, and Christoph Adam (2012)., "Rapid seismic evaluation of historic brick-masonry buildings in Vienna (Austria) based on visual screening" Bulletin of Earthquake Engineering, Vol. 10, pp. 1833-1856.

Reports:

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

- ❖ Sivapalan Gajan, Tara Hutchinson, Bruce Kutter, Prishati Raychowdhury, José Ugalde, Jonathan Stewart (2007)., "Numerical Models for Analysis and Performance-Based Design of Shallow Foundations Subjected to Seismic Loading", PEER Report 2007/04, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

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