

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 from February 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
13/02/2015	18:59:12	52.635°N	31.884°W	16.4	7.1	Northern Mid Atlantic Ridge
16/02/2015	23:06:27	39.830°N	142.890°E	23.0	6.7	Miyako, Japan
27/02/2015	13:45:05	7.288°S	122.532°E	552.3	7.0	Nebe, 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
01/02/2015	16:00:47	26.4°N	93.2°E	10	4.1	KARBI ANGLONG, ASSAM
03/02/2015	09:28:11	25.9°N	91.2°E	11	3.5	KAMRUP, ASSAM
06/02/2015	13:13:09	26.9°N	91.9°E	10	3.5	DARRANG, ASSAM
06/02/2015	22:39:27	25.4°N	94.6°E	15	3.5	UKHRUL, MANIPUR
07/02/2015	23:35:59	36.7°N	73.3°E	70	4.5	NOTHWESTERN KASHMIR
09/02/2015	14:13:10	09.2°N	93.3°E	10	4.7	NICOBAR ISLANDS REGION,INDIA
12/02/2015	08:19:35	34.0°N	74.1°E	14	3.5	JAMMU & KASHMIR
12/02/2015	14:32:59	24.2°N	94.0°E	90	5.0	MANIPUR (CHANDEL)
14/02/2015	17:06:51	26.7°N	87.6°E	10	3.8	NEPAL-INDIA BORDER REGION
15/02/2015	14:14:16	34.1°N	75.2°E	10	4.2	JAMMU & KASHMIR
18/02/2015	04:07:49	24.1°N	93.7°E	30	3.6	CHURACHANDPUR, MANIPUR
19/02/2015	09:18:24	26.6°N	96.2°E	10	3.8	MYANMAR
21/02/2015	15:55:38	25.2°N	94.3°E	28	3.4	UKHRUL,MANIPUR
23/02/2015	06:31:59	10.2°N	92.1°E	10	4.8	ANDAMAN ISLANDS REGION, INDIA
23/02/2015	08:17:49	23.8°N	91.3°E	25	3.5	WEST TRIPURA
24/02/2015	12:54:45	25.8°N	91.7°E	10	3.0	MEGHALAYA, WEST KHASI HILLS
25/02/2015	00:39:24	16.7°N	80.1°E	10	4.0	DISTT.GUNTUR, ANDHRA PRADESH

GROUND MOTION RECORDS:

In our centre around 579 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	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	19 Aug 2009	Boko	E-W
5	Sonitpur	19 Aug 2009	Boko	N-S
6	Sonitpur	19 Aug 2009	Boko	U-D
7	Sonitpur	19 Aug 2009	Guwahati	E-W
8	Sonitpur	19 Aug 2009	Guwahati	N-S
9	Sonitpur	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

EERC LIBRARY:

Publications:

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

- ❖ Kyriakos Antoniou, Georgios Tsionis and Michael N. Fardis (2015), "Inelastic shears in ductile RC walls of mid-rise wall-frame buildings and comparison to Eurocode 8", Bulletin of Earthquake Engineering, Vol. 13, No. 3, pp. 841-869.
- ❖ Vitor Silva, Helen Crowley, Humberto Varum, Rui Pinho (2015), "Seismic risk assessment for mainland Portugal", Bulletin of Earthquake Engineering, Vol. 13, No. 2, pp. 429-457.
- ❖ Cédric Desprez, Panagiotis Kotronis, Jacky Mazars (2015), "Seismic vulnerability assessment of a RC structure before and after FRP retrofiting", Bulletin of Earthquake Engineering, Vol. 13, No. 2, pp. 539-564.
- ❖ Muhammad Masood Rafi, Sarosh H. Lodi, Muhammad Ahmed (2015), " Observed damages in Pakistan due to 16 April 2013 Iran earthquake", Bulletin of Earthquake Engineering, Vol. 13, No. 2, pp. 703-724.

❖ Dimitris Pitilakis, Anna Karatzetzou (2015), " Dynamic stiffness of monumental flexible masonry foundations", Bulletin of Earthquake Engineering, Vol. 13, No. 1, pp. 67-82.

❖ **Reports:**

The following reports are very useful for research

❖ Rodgers J and Mahin S. (2003)., "Effects of Connection Hysteretic Degradation on the Seismic Behavior of Steel Moment Resisting Frames", PEER Report 2003/13, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.