

QUAKE BULLETIN

Monthly Bulletin

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Editor: Ramancharla Pradeep Kumar

Associate Editors: Chenna Rajaram

Pulkit Velani

Raju Sangam

EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from December 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
02/12/2014	05:11:31	6.094°N	123.125°E	614.0	6.6	Sangay, Philippines
07/12/2014	01:22:00	6.537°S	154.455°E	10.0	6.8	Panguna, Papua New Guinea
08/12/2014	08:54:52	7.969°N	82.694°W	20.0	6.6	Punta de Burica, Panama

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
02/12/2014	18:47:02	26.3°N	91.3°E	15	3.0	Distt.Nalbari, Assam
03/12/2014	06:28:11	24.0°N	92.7°E	46	3.6	Kolasib, Mizoram
04/12/2014	23:53:49	27.0°N	92.5°E	10	4.8	Distt. West Kameng, Arunachal Pradesh
10/12/2014	14:44:50	24.5°N	94.1°E	32	3.6	Chandel - Manipur
11/12/2014	19:27:38	24.6°N	94.2°E	72	3.7	Senapati, Manipur
18/12/2014	15:32:06	27.6°N	86.4°E	10	5.2	Nepal
21/12/2014	05:37:37	24.3°N	94.5°E	80	5.0	Myanmar-India (Manipur) Border Region
22/12/2014	23:24:43	22.3°N	92.9°E	10	4.1	Distt.Saiha, Mizoram
25/12/2014	07:40:49	26.4°N	89.9°E	10	4.1	Kokrajhar, Assam
26/12/2014	03:30:41	23.4°N	93.8°E	6	3.3	Myanmar-India Border Region
26/12/2014	07:08:09	28.1°N	87.0°E	12	5.0	Tibet- Nepal Border Region
27/12/2014	02:02:39	23.5°N	94.4°E	10	4.2	Myanmar-India Border Region
27/12/2014	15:25:50	24.8°N	94.0°E	10	3.6	Distt.Imphal East, Manipur
29/12/2014	17:26:57	26.4°N	92.0°E	10	4.0	Darrang, Assam

GROUND MOTION RECORDS:

In our centre around 561 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	Khokhrajhar	11 Aug 2009	Kokhrajhar	E-W
2	Khokhrajhar	11 Aug 2009	Kokhrajhar	N-S
3	Khokhrajhar	11 Aug 2009	Kokhrajhar	U-D
4	India Manipuir Border	11 Aug 2009	Boko	E-W
5	India Manipuir Border	11 Aug 2009	Boko	N-S
6	India Manipuir Border	11 Aug 2009	Boko	U-D
7	India Manipuir Border	11 Aug 2009	Bongaigaon	E-W
8	India Manipuir Border	11 Aug 2009	Bongaigaon	N-S
9	India Manipuir Border	11 Aug 2009	Bongaigaon	U-D
10	India Manipuir Border	11 Aug 2009	Diphu	E-W
11	India Manipuir Border	11 Aug 2009	Diphu	N-S
12	India Manipuir Border	11 Aug 2009	Diphu	U-D
13	India Manipuir Border	11 Aug 2009	Goalpara	E-W
14	India Manipuir Border	11 Aug 2009	Goalpara	N-S
15	India Manipuir Border	11 Aug 2009	Goalpara	U-D
16	India Manipuir Border	11 Aug 2009	Guwahati	E-W
17	India Manipuir Border	11 Aug 2009	Guwahati	N-S
18	India Manipuir Border	11 Aug 2009	Guwahati	U-D

EERC LIBRARY:

Publications:

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

- ❖ Jose Centeno, Carlos E. Ventura and Jason M. Ingham (2014), " Seismic Performance of a Six-Story Reinforced Concrete Masonry Building during the Canterbury Earthquake Sequence", Earthquake Spectra, Vol. 30, No. 1, pp. 363-381.
- ❖ Robert B. Fleischman, Jose I. Restrepo, Stefano Pampanin, Joseph R. Maffei, Kim Seeber and Franz A. Zahn (2014), " Damage Evaluations of Precast Concrete Structures in the 2010-2011 Canterbury Earthquake Sequence", Earthquake Spectra, Vol.30, No.1, pp. 277-306.
- ❖ Brendon A. Bradley, Mark C. Quigley, Russ J. Van Dissen and Nicola J. Litchfield (2014), "Ground Motion and Seismic Source Aspects of the Canterbury Earthquake Sequence", Earthquake Spectra, Vol.30, No.1, pp. 1-15.
- ❖ Gennaro Magliulo, Marianna Ercolino, Crescenzo Petrone, Orsola Coppola and Gaetano Manfredi (2014), "The Emilia Earthquake: Seismic Performance of Precast Reinforced Concrete Buildings", Earthquake Spectra, Vol.30, No.2, pp. 891-912.

- ❖ V. Akansel, G. Ameri, A. Askan, A. Caner, B. Erdil, Ö. Kale and D. Okuyucu (2014), "The 23 October 2011 MW7.0 Van (Eastern Turkey) Earthquake: Interpretations of Recorded Strong Ground Motions and Post-Earthquake Conditions of Nearby Structures", *Earthquake Spectra*, Vol.30, No.2, pp. 657–682.

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.