

# QUAKE BULLETIN

Monthly Bulletin

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## EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and in India in the month of October, 2012. The list of the earthquakes is as follows:

### Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
9/10/2012	12:32:04	61.033°S	153.960°E	10.2	6.6	Balleny Island Region
12/10/2012	00:31:28	4.893°S	134.027°E	13.0	6.6	NNW of Dobo, Indonesia
24/10/2012	00:45:34	10.121°N	85.314°W	20.1	6.5	ENE of Hojanca, Costa Rica
28/10/2012	03:04:10	52.769°N	131.927°W	17.5	7.7	South of Masset, Canada
28/10/2012	18:54:21	52.633°N	132.701°W	8.2	6.3	SSW of Masset, Canada

### 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
02/10/2012	03:45:28	32.4°N	76.4°E	10	4.5	DISTT.(CHAMBA-LAHUL-SPITI BORDER REGION) H.P
02/10/2012	08:34:52	32.4°N	76.3°E	10	4.9	DISTT( CHAMBA--LAHUL SPITI) ,HIMACHAL PRADESH
02/10/2012	18:37:39	26.9°N	92.8°E	35	5.1	SONITPUR, ASSAM
03/10/2012	10:04:34	32.4°N	76.3°E	05	3.8	DIST( CHAMBA-LAHUL SPITI BORDER REGION) HIMACHAL PRADESH
03/10/2012	10:49:28	32.4°N	76.3°E	10	3.6	DISTT( CHAMBA-LAHUL SPITI BORDER REGION) HIMACHAL PRADESH
04/10/2012	15:00:44	32.4°N	76.3°E	05	3.0	DHARMSHALA, H.P
08/10/2012	17:46:21	32.0°N	78.6°E	10	4.7	INDIA ( H.P ) - TIBET BORDER REGION
11/10/2012	13:21:06	32.2°N	77.7°E	10	3.5	DISTT LAHUL & SPITI, BORDER REGION, H.P.
11/10/2012	13:56:04	28.0°N	88.2°E	15	3.3	INDIA (SIKKIM) - TIBET BORDER REGION
12/10/2012	23:16:15	24.7°N	93.6°E	10	4.2	TAMENGLONG, MANIPUR

13/10/2012	09:05:09	27.0°N	92.7°E	20	3.7	SONITPUR, ASSAM
14/10/2012	08:51:54	12.6°N	75.6°E	05	3.9	DAKSHIN KANNAD, KARNATAKA
16/10/2012	12:53:39	25.7°N	91.0°E	05	3.2	WEST KHASI HILLS, MEGHALAYA
17/10/2012	21:13:52	24.1°N	94.2°E	10	3.5	MANIPUR,CHANDEL
18/10/2012	02:33:27	23.8°N	81.4°E	27	5.0	DISTT. - SHAHDOL, MADHYA PRADESH
18/10/2012	05:32:18	25.7°N	91.8°E	10	3.2	DISTT WEST KHASI HILLS, MEGHALAYA
20/10/2012	01:31:55	24.1°N	94.2°E	98	3.7	DISTT CHANDEL,MANIPUR
22/10/2012	06:56:51	28.0°N	87.8°E	68	3.9	NEPAL-INDIA (SIKKIM) BORDER REGION
22/10/2012	15:43:50	24.8°N	94.1°E	79	3.5	IMPHAL-SENAPATI BORDER REGION, MANIPUR
24/10/2012	21:07:43	28.8°N	94.2°E	80	4.0	WEST SIANG, ARUNACHAL PRADESH
26/10/2012	01:50:25	24.1°N	92.9°E	10	3.8	AIZAWL, MIZORAM
26/10/2012	04:10:52	30.2°N	79.6°E	05	3.5	CHAMOLI DIST, UTTARANCHAL
28/10/2012	05:44:21	28.4°N	94.3°E	10	4.2	WEST SIANG, ARUNACHAL PRADESH
29/10/2012	06:23:06	16.2°N	79.7°E	10	3.9	DIST. ,GUNTUR, ANDHRA PRADESH
29/10/2012	00:34:56	25.7°N	91.8°E	05	3.4	WEST KHASI HILLS, MEGHALAYA
30/10/2012	01:40:24	26.2°N	92.4°E	15	3.9	MARIGAON, ASSAM

### GROUND MOTION RECORDS:

In our centre around 220 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	Nongstoin	24 Jan 2009	Nongstoin	E-W
2	Nongstoin	24 Jan 2009	Nongstoin	N-S
3	Nongstoin	24 Jan 2009	Nongstoin	U-D
4	Himachal	31 Jan 2009	Chamba	E-W
5	Himachal	31 Jan 2009	Chamba	N-S
6	Himachal	31 Jan 2009	Chamba	U-D
7	Himachal	31 Jan 2009	Dharmasala	E-W
8	Himachal	31 Jan 2009	Dharmasala	N-S
9	Himachal	31 Jan 2009	Dharmasala	U-D
10	Himachal	31 Jan 2009	Keylang	E-W
11	Himachal	31 Jan 2009	Keylang	N-S
12	Himachal	31 Jan 2009	Keylang	U-D
13	Munsiari	14 Feb 2009	Munsiari	E-W
14	Munsiari	14 Feb 2009	Munsiari	N-S

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

- ❖ CVR Murty, Durgesh C. Rai, Hari Kumar, Keya Mitra, Amit K. Bose, Hemant B. Kaushik, Arvind Jaiswal and R. Pradeep Kumar (2012)., "A Methodology for documenting Housing Typologies in the Moderate Severe Seismic Zones", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 81.
- ❖ A.R. Vijaya Narayanan, Rupen Goswami and CVR Murty (2012)., "Performance of RC Buildings along Hill Slope Himalayas during 2011 Sikkim Earthquake", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 621.
- ❖ Arun Menon, Rupen Goswami, A.R. Vijaya Narayanan, C.V.R. Murty, Arvind K. Jaiswal and Alpa R. Sheth (2012)., "Buddhist Monasteries in Grave Danger in Himalayan Region", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 623.
- ❖ C. V. R. Murty, Arun Menon, Rupen Goswami, A. R. Vijaya Narayanan, S. R. Gandhi, K. N. Satyanarayana, S. T. G. Raghukanth, Arvind K. Jaiswal and Alpa R. Sheth (2012)., "Observations from Damages Sustained in India During 2011 Sikkim Earthquake", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 625.
- ❖ Sudhir K. Jain and Shashank Pathak (2012)., "Intensity Based Casualty Models: Case Study of Bhuj and Latur Earthquake in India", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 4830.

### **Reports:**

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

- ❖ Takuya Nagae, Kenichi Tahara, Taizo Matsumori, Hitoshi Shiohara, Toshimi Kabeyasawa, Susumu Kono, Minehiro Nishiyama, John Wallace, Wassim Ghannoum, Jack Moehle, Richard Sause, Wesley Keller and Zeynep Tuna (2011)., " Design and Instrumentation of the 2010 E-Defense Four-Story Reinforced Concrete and Post-Tensioned Concrete Buildings", PEER Report 2011/104, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

The publications and reports are available at server ([\\10.2.28.225](http://10.2.28.225))