

QUAKE BULLETIN

Monthly Bulletin

Vol.2 No.8 August-2013

Editor: Ramancharla Pradeep Kumar

Associate Editors: Chenna Rajaram
Raju Sangam

EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide in the month of July-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
02/07/2013	07:37:02	4.698°N	96.687°E	10.0	6.1	Bireun, Indonesia
07/07/2013	18:35:30	3.923°S	153.920°E	386.3	7.3	Taron, Papua New Guinea
07/07/2013	20:30:07	6.015°S	149.722°E	62.0	6.6	Kandrian, Papua New Guinea
15/07/2013	14:03:43	60.868°S	25.144°W	31.0	7.3	Bristol Island, South Sandwich Islands
21/07/2013	05:09:31	41.713°S	174.443°E	14.0	6.5	Blenheim, New Zeland

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
04/07/2013	23:42:06	25.1°N	93.8°E	10	3.8	Manipur- Senapati
05/07/2013	19:58:34	30.6°N	77.8°E	9	3.0	Chakrata, Uttarakhand
07/07/2013	15:41:30	26.4°N	93.3°E	30	3.5	Karbi Anglong, Assam
08/07/2013	03:44:25	24.1°N	91.4°E	10	4.2	West Tripura
09/07/2013	13:49:13	32.9°N	78.4°E	10	5.1	J&K, H.P Border Region
11/07/2013	07:49:09	26.5°N	93.5°E	19	3.2	Karbi Anglong, Assam
11/07/2013	16:01:34	30.4°N	79.1°E	05	3.2	Ukhimath, Uttarakhand
11/07/2013	18:48:11	28.8°N	95.9°E	10	4.0	Dibang Valley, Arunachal Pradesh
11/07/2013	19:39:49	33.2°N	75.7°E	10	3.9	doda, Jammu & Kashmir
12/07/2013	07:01:30	26.3°N	90.8°E	10	3.6	Goalpara, Assam
12/07/2013	09:43:14	26.2°N	92.0°E	10	3.5	Marigaon, Assam
13/07/2013	17:49:33	32.2°N	76.3°E	10	4.5	Kangra, H.P
13/07/2013	19:27:05	28.3°N	94.9°E	10	3.5	West Siang, Arunachal Pradesh
15/07/2013	17:49:11	32.6°N	76.7°E	30	4.4	Lahul & Spiti, Himachal Pradesh
18/07/2013	12:55:28	28.7°N	76.6°E	10	3.0	Jhajjar, Haryana
22/07/2013	09:07:19	33.0°N	75.5°E	10	3.7	Udhampur, Jammu & Kashmir

GROUND MOTION RECORDS:

In our centre around 380 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
1	Manipur-Meghalaya	30 Aug 2009	Boko	E-W
2	Manipur-Meghalaya	30 Aug 2009	Boko	N-S
3	Manipur-Meghalaya	30 Aug 2009	Boko	U-D
4	Manipur-Meghalaya	30 Aug 2009	Diphu	E-W
5	Manipur-Meghalaya	30 Aug 2009	Diphu	N-S
6	Manipur-Meghalaya	30 Aug 2009	Diphu	U-D
7	Manipur-Meghalaya	30 Aug 2009	Guwahati	E-W
8	Manipur-Meghalaya	30 Aug 2009	Guwahati	N-S
9	Manipur-Meghalaya	30 Aug 2009	Guwahati	U-D
10	Manipur-Meghalaya	30 Aug 2009	Lakhimpur	E-W
11	Manipur-Meghalaya	30 Aug 2009	Lakhimpur	N-S
12	Manipur-Meghalaya	30 Aug 2009	Lakhimpur	U-D
13	Manipur-Meghalaya	30 Aug 2009	Tura	E-W
14	Manipur-Meghalaya	30 Aug 2009	Tura	N-S
15	Manipur-Meghalaya	30 Aug 2009	Tura	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

- ❖ Ahmed Hussain and Ramancharla Pradeep Kumar (2013), "Modeling of buried faults using applied element method", International Journal of Earthquake Engineering and Science, JEES, Vol. 3, Issue No. 1, pp.1-16.
- ❖ Hima Chandan D, Narender B, Ramancharla Pradeep Kumar, Ito T, Takano K (2013), "Micro Tremor Response of Buildings in High Seismic Areas: A Case Study on RC Framed Building in Chandigarh, India, Part-I: Response of Building", Proc. 3rd International Engineering Symposium (IES), Kumamoto University, Japan.
- ❖ Narender B, Hima Chandan D, Ramancharla Pradeep Kumar, Ito T, Takano K (2013), "Micro Tremor Response of Buildings in High Seismic Areas: A Case Study on RC Framed Building in Chandigarh, India, Part-II: Response of Building", Proc.3rd International Engineering Symposium (IES), Kumamoto University, Japan.
- ❖ Ramancharla Pradeep Kumar (2012)., "18 September 2011 Sikkim Earthquake: The Mw 6.9 Sikkim-Nepal Border Earthquake", EERI Special Earthquake Report.

- ❖ Anand Joshi, Pushpa Kumari, Sandeep Singh and ML Sharma (2012)., "Near field and far field simulation of accelerograms of Sikkim earthquake of September 18, 2011 using modified semi-empirical approach" Natural Hazards, Vol. 64, pp. 1029-1054.

Reports:

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

- ❖ David M Boore and Gail M Atkinson (2007)., "Boore-Atkinson NGA ground motion relations for the geometric mean horizontal component of peak and spectral ground motion parameters", PEER Report 2007/01, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

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