

# QUAKE BULLETIN

Monthly Bulletin

Vol.5 No.4 April 2016

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 February 2016. The list of the earthquakes is as follows:

### Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
02/03/2016	00/01/1900	4.91 S	94.28 E	24.0	7.8	Southwest of Sumatra, Indonesia
12/03/2016	00/01/1900	51.56 N	174.03 W	19.0	6.3	71km S of Atka, Alaska
19/03/2016	00/01/1900	51.51 N	174.23 W	17.0	6.0	76km S of Atka, Alaska
19/03/2016	00/01/1900	17.99 N	60.70 W	32.0	6.0	124km ENE of Codrington, Barbuda
20/03/2016	00/01/1900	54.33 N	162.80 E	31.3	6.4	211km S of Ust'-Kamchatsk Staryy, Russia

### 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
02/03/2016	6:35:14	29.90 N	70.1 E	10	5.0	Pakistan
06/03/2016	0:50:19	24.5 N	92.8 E	30	3.5	Cachar, assam
06/03/2016	8:51:18	24.7 N	92.9 E	10	3.3	Cachar, assam
10/03/2016	9:46:59	25.6 N	91.9 E	8	3.0	Shillong, meghalaya
10/03/2016	9:50:32	25.6 N	91.9 E	9	3.2	Shillong, meghalaya
12/03/2016	16:15:16	26.7 N	89.4 E	21	3.8	Jalpaiguri, west bengal
13/03/2016	5:15:36	27.8 N	84.9 E	25	3.8	Nepal-india border region
13/03/2016	10:30:04	26.5 N	92.3 E	10	4.3	Darrang, assam
14/03/2016	21:27:40	27.2 N	86.2 E	10	3.9	Nepal
17/03/2016	16:47:04	34.2 N	77.9 E	10	4.5	Jammu & kashmir
18/03/2016	3:37:33	25.4 N	73.4 E	33	3.5	Pali, rajasthan
21/03/2016	2:19:41	25.4 N	92.5 E	10	3.0	Jaintia hills, meghalaya
21/03/2016	14:49:00	27.8 N	66.3 E	16	5.3	Pakistan
22/03/2016	11:49:12	26.1 N	95.3 E	49	3.7	Myanmar-india(nagaland)

						border region
28/03/2016	15:42:42	24.1 N	93.1 E	5	3.7	Churachandpur,manipur
30/03/2015	2:04:11	32.5 N	76.0 E	15	3.8	Chamba, himachal pradesh
30/03/2016	12:26:42	28.0 N	85.7 E	10	4.4	Nepal

## **GROUND MOTION RECORDS:**

In our centre around 624 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		
				NS	EW	UD
1	Guwahati	11 June 2010	Guwahati	✓	✓	✓
2	Off Cost of Nicobar Islands	12 June 2010	Port Blair	✓	✓	✓
3	Tura	13 June 2010	Tura	✓	✓	✓

## **EERC LIBRARY:**

### **Publications:**

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

- ❖ C. Xiong, X. Lu, H. Guan and Z. Xu (2016), "A nonlinear computational model for regional seismic simulation of tall buildings", Bulletin of Earthquake Engineering, April, Vol. 14(4), pp. 1047-1069.
- ❖ K. AfifChaouch, B. Tiliouine, M. Hammoutene, R. Sigbjornsson and R. Rupakhety (2016), "Estimating ground motion incoherence through finite source simulation: a case study of the 1980 El-Asnam Earthquake", Bulletin of Earthquake Engineering, April, Vol. 14(4), pp. 1195-1217.
- ❖ A. Belleri, M. Torquati, A. Marini and P. Riva (2016), "Horizontal cladding panels: in-plane seismic performance in precast concrete buildings", Bulletin of Earthquake Engineering, April, Vol. 14(4), pp. 1103-1129.
- ❖ H. Shakib and V. Jahangiri (2016), "Intensity measures for the assessment of the seismic response of buried steel pipelines", Bulletin of Earthquake Engineering, April, Vol. 14(4), pp. 1265-1284.
- ❖ F. Mazza (2016), "Nonlinear seismic analysis of unsymmetric-plan structures retrofitted by hysteretic damped braces", Bulletin of Earthquake Engineering, April, Vol. 14(4), pp. 1311-1331.