

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 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
18/05/2016	07:57:05	0.43 N	79.77 W	32.42	6.7	34km WNW of Rosa Zarate, Ecuador
18/05/2016	16:46:44	0.47 N	79.64 W	31	6.8	24km NW of Rosa Zarate, Ecuador
20/05/2016	18:14:05	25.56 S	129.89 E	10	6	Northern Territory, Australia
27/05/2016	04:08:44	20.83 S	178.67 W	572.13	6.4	19km S of Ndoi Island, Fiji
28/05/2016	05:38:51	22.02 S	178.16 W	416.79	6.6	161km SSE of Ndoi Island, Fiji
28/05/2016	09:46:59	56.20 S	26.89 W	72.68	7.2	58km NNE of Visokoi Island, South Georgia and the South Sandwich Islands
31/05/2016	05:23:47	25.58 N	122.53 E	244.11	6.4	93km ENE of Keelung, Taiwan

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
03/04/2016	20:31:39	24.4 N	94.3 E	120	4.0	India(Chandel,Manipur)-Myanmar Border Region
05/05/2016	18:00:30	30.4 N	80.1 E	15	4.1	Pithoragarh,Uttarakhand
06/05/2016	6:55:40	26.3 N	92.6 E	10	3	Nagaon, Assam
06/05/2016	6:55:40	26.3 N	92.6 E	10	3	Nagaon, Assam
06/05/2016	8:36:18	28.1 N	92.3 E	20	3.8	China-India Border Region
06/05/2016	15:14:07	26.6 N	92.4 E	10	3	Sonitpur, Assam
07/05/2016	9:43:41	25.5 N	91.9 E	10	4	East Khasi Hills, Meghalaya
09/05/2016	6:12:02	26.2 N	92.8 E	24	3	Nagaon, Assam
09/05/2016	16:03:48	11.5 N	91.5 E	10	5.3	Andaman Islands
11/05/2016	1:15:51	32.0 N	95.0 E	10	5.5	Tibet
11/05/2016	8:53:46	27.9 N	84.6 E	23	4.5	Nepal

12/05/2016	7:54:13	24.3 N	94.2 E	60	4.9	Dist- Chandel, Manipur ,
12/05/2016	11:56:45	25.1 N	94.0 E	10	3.3	Senapati, Manipur
12/05/2016	16:59:46	24.5 N	72.2 E	5	3	Banas Kantha, Gujarat
13/05/2016	6:59:31	30.6 N	66.7 E	10	5.2	Pakistan
14/05/2016	22:46:56	27.7 N	85.3 E	10	4.3	Nepal
15/05/2016	6:56:04	23.2 N	70.1 E	10	3.4	Kachchh, Gujarat
16/05/2016	18:03:47	26.0 N	90.5 E	10	3.5	Goalpara, Assam
17/05/2016	10:12:32	26.2 N	88.8 E	8	3.5	India(West Bengal)- Bangladesh Border Region
18/05/2016	8:27:06	25.6 N	91.6 E	15	3	West Khasi Hills, Meghalaya
18/05/2016	13:23:24	17.3 N	73.7 E	5	3.9	Koyna Region, Maharashtra
18/05/2016	17:29:38	17.3 N	73.9 E	15	3.7	Koyna Region, Maharashtra
18/05/2016	19:17:42	17.3 N	73.7 E	5	4	Koyna Region, Maharashtra
19/05/2016	18:07:25	17.3 N	73.9 E	15	3.5	Koyna Region Maharashtra
20/05/2016	13:36:18	24.9 N	92.3 E	25	3.2	India(Assam)- Bangladesh Border Region
21/05/2016	11:30:23	17.3 N	73.8 E	3	3.6	Koyna Region Maharashtra
24/05/2016	12:35:15	26.2 N	92.4 E	10	3.2	Distt. Marigaon, Assam
28/05/2016	9:39:16	27.8 N	85.1 E	35	5	Nepal
30/05/2016	22:39:25	25.1 N	93.2 E	10	3.2	North Cachar Hills, Assam

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	Nepal India Border Region	6 July 2010	Champawat	✓	✓	✓
			Munsiari	✓	✓	✓
2	Almora, Utterkashi	10 July 2010	Bageshwar	✓	✓	✓
			Garsain	✓	✓	✓
			Kapkot	✓	✓	✓
			Roorkee	✓	✓	✓
3	Barpeta	26 July 2010	Guwahati	✓	✓	✓

EERC LIBRARY:

Publications:

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

- ❖ Linda Giresini (2016), "Energy-based method for identifying vulnerable macro-elements in historic masonry churches", Bulletin of Earthquake Engineering, March, Vol. 14(3), pp. 919-942.

- ❖ W. Pu, K. Kasai, E. K. Kabando and B. Huang (2016), "Evaluation of the damping modification factor for structures subjected to near-fault ground motions", *Bulletin of Earthquake Engineering*, June, Vol. 14(6), pp. 1519-1544.
- ❖ J. Dowling, W. D. L. Finn, C. E. Ventura and M. Taiebat (2016), "Load distribution in large pile groups under static and dynamic loading", *Bulletin of Earthquake Engineering*, June, Vol. 14(6), pp. 1461-1474.
- ❖ J. R. Abraham, C. Smerzini, R. Paolucci and C. G. Lai (2016), "Numerical study on basin-edge effects in the seismic response of the Gubbio valley, Central Italy", *Bulletin of Earthquake Engineering*, June, Vol. 14(6), pp. 1437-1459.
- ❖ A. L. Brusco, V. Mariani, M. Tanganelli, S. Viti and M. D. Stefano (2015), "Seismic assessment of a real RC asymmetric hospital building according to NTC 2008 analysis methods", *Bulletin of Earthquake Engineering*, October, Vol. 13(10), pp. 2973-2994.