

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 2017. The list of the earthquakes is as follows:

Worldwide:

(Source: United States Geological System, USGS, <http://earthquake.usgs.gov/earthquakes/>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
24/02/2017	17:28:44	178.80 S	414.80 E	415	6.9	287km S of Ndoi Island, Fiji
21/02/2017	14:09:04	63.90 S	597.91 E	598	6.5	42km E of Padilla, Bolivia
18/02/2017	12:10:15	66.69 S	200.59 E	201	6.3	50km NW of San Antonio de los Cobres, Argentina
10/02/2017	14:03:43	125.46 N	15.00 E	15	6.5	9km SSW of Basilisa, Philippines
07/02/2017	22:03:55	63.26 N	24.05 E	24	6.3	22km WSW of Pasni, Pakistan

India wide:

(Source: Indian Meteorological Department, IMD, http://www.imd.gov.in/pages/earthquake_prelim.php)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
03/02/2017	13:35:48	30.50 N	79.20 E	10	3.6	Chamoli, Uttarakhand
04/02/2017	7:05:17	32.60 N	76.60 E	10	3.5	Chamba, Himachal Pradesh
05/02/2017	12:54:59	27.90 N	93.80 E	10	3.8	Lower Subansiri , Arunachal Pradesh
06/02/2017	20:21:45	30.60 N	79.00 E	10	3.6	Distt. Rudraprayag, Uttarakhand.
06/02/2017	17:03:08	30.50 N	79.10 E	33	5.8	Distt. Rudraprayag, Uttarakhand
07/02/2017	22:03:54	25.20 N	63.40 E	10	6.2	Southwestern Pakistan
08/02/2017	8:14:28	26.90 N	92.90 E	15	3.6	Sonitpur, Assam
10/02/2017	14:03:43	9.90 N	125.50 E	10	6.3	Madanao , Philippines
11/02/2017	17:21:13	30.50 N	79.10 E	5	3.2	Rudraprayag, Uttarakhand
11/02/2017	18:12:51	23.90 N	91.80 E	10	3.5	Dhalai, Tripura
11/02/2017	17:21:13	30.50 N	79.10 E	5	3.2	Rudraprayag Uttarakhand
12/02/2017	4:05:30	25.60 N	90.80 E	10	4.5	East Garo Hills, Meghalaya
16/02/2017	15:13:10	26.20 N	92.80 E	20	3.6	Distt. Nagaon, Assam
17/02/2017	7:46:56	28.60 N	76.90 E	5	2.1	Delhi Haryana Border Region
18/02/2017	18:53:42	26.60 N	93.00 E	30	3.4	Distt. Nagaon, Assam
21/02/2017	14:09:04	19.20 S	63.90 W	578	6.3	Southern Bolivia
23/02/2017	21:39:16	27.30 N	88.10 E	150	3.5	Sikkim, West
23/02/2017	20:16:07	23.70 N	94.50 E	82	3.4	Myanmar-India(Manipur) Border Region

24/02/2017	21:00:44	28.70 N	96.00 E	36	3.2	Dibang Valley, Arunachal Pradesh
24/02/2017	17:27:38	24.40 S	178.80W	413	6.7	South Of Fiji Islands
24/02/2017	12:02:49	24.10 N	93.40 E	20	5.2	Distt. Churachandpur, Manipur
25/02/2017	7:02:19	24.10 N	92.10 E	33	4	North Tripura
25/02/2017	0:00:44	28.70 N	96.00 E	10	3.5	Dibang Valley, Arunachal Pradesh
25/02/2017	0:00:44	28.70 N	96.00 E	10	3.5	Dibang Valley, Arunachal Pradesh test
27/02/2017	16:23:23	34.00 N	75.80 E	10	2.8	Jammu & Kashmir
27/02/2017	4:21:45	27.30 N	85.90 E	10	4.7	NEPAL
27/02/2017	3:37:47	27.30 N	85.90 E	10	5	NEPAL
28/02/2017	13:42:16	37.60 N	72.10 E	115	5.4	TAJIKISTAN

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. Out of all the available ground motions few of them are listed below.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component		
				NS	EW	UD
1	Pithoragarh, Uttarakhand	15 June 2011	Munsiari	✓	✓	✓
2	Chamoli, Uttarakhand	20 June 2011	Almora	✓	✓	✓
			Barkot	✓	✓	✓
			Chakrata	✓	✓	✓
			Chamoli	✓	✓	✓
			Champawat	✓	✓	✓
			Dehradun	✓	✓	✓
			Dhanaulti	✓	✓	✓
			Gharsain	✓	✓	✓
			Rhishikesh	✓	✓	✓
			Roorkee	✓	✓	✓
			Tehri	✓	✓	✓
			Udham Singh Nagar	✓	✓	✓

EERC LIBRARY:

Publications:

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

- ❖ A. K. Sreerama, R. Chenna, S. Mishra, P. K. Ramancharla and A. Karnath (2017), "Rapid visual screening of different housing typologies in Himachal Pradesh, India", Natural hazard, February, Vol. 85 (3), pp 1851-1875.

- ❖ C. E. Ventura (2017), "Advances on Monitoring and Damage Detection in Earthquake Engineering", Proceedings of 16th World Conference on Earthquake Engineering (16WCEE), January, 9-13 2017, Santiago, Chile.
- ❖ F. Kumazawa, A. Mori, K. Soga, T. Sumitomo, and A. Ogawa (2017), "Earthquake Response Characteristics of a 30 Story RC Building Based on Observed Response Records", Proceedings of 16th World Conference on Earthquake Engineering (16WCEE), January, 9-13 2017, Santiago, Chile.
- ❖ S. Jayalakshmi, S. T. G. Raghukanth (2017), "Finite Element Models to Represent Seismic Activity of Indian Plate", Geoscience Frontiers, January, Vol. 8(1), pp. 81-91.
- ❖ A. M. Dixit, A. T. Ringler, D. F. Sunny, E.S. Cocharan, S. E. Hough, S. S. Martin, S. Gibbons, J. H. Luetgert, J. Galetzka, S. N. Shreshta, S. Rajaure, and D. E. McNamara (2015), "Strong Motion Observations of M7.8 Gorkha, Nepal, Earthquake Sequence and Development of the N-SHAKE Strong Motion Network", Seismological Research Letters, November/December 2015, Vol. 86(6), pp. 1533-1539.