

QUAKE BULLETIN

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from October 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
06-10-2017	7:59:33	37.50 N	144.02 E	9.00	6.2	259km ESE of Ishinomaki, Japan
08-10-2017	14:04:39	18.99 S	175.57 W	10.00	6.1	156km NW of Pangai, Tonga
08-10-2017	20:48:59	61.74 S	154.55 E	10.00	6.3	Balleny Islands region
08-10-2017	22:34:34	52.45 N	176.81 E	111.84	6.6	60km E of Buldir Island, Alaska
10-10-2017	6:32:21	18.52 S	69.64 W	82.43	6.3	36km SSW of Putre, Chile
10-10-2017	18:53:28	54.26 S	8.6363 E	9.00	6.7	Bouvet Island region
18-10-2017	12:01:00	20.6 S	173.90 W	10.00	6.0	100km SSE of Pangai, Tonga
24-10-2017	10:47:48	7.24 S	123.04 E	549.19	6.7	141km NNE of Palue, Indonesia
28-10-2017	19:11:02	86.89 N	55.14 E	10.00	6.0	North of Franz Josef Land
31-10-2017	0:42:07	21.66 S	169.20 E	11.06	6.8	137km E of Tadine, New Caledonia
31-10-2017	11:50:51	3.70 S	127.82 E	32.38	6.3	32km WSW of Hila, Indonesia

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
01-10-17	12:18:17	28.6 N	96.1 E	147	4.5	Dibang Valley, Arunachal Pradesh
01-10-17	12:49:01	13.0 N	92.0 E	10	4.7	Andaman Islands
01-10-17	14:35:32	13.0 N	92.0 E	10	4.5	Andaman Islands
02-10-17	11:02:29	32.5 N	76.7 E	5	3.1	Distt. Chamba, Himachal Pradesh
02-10-17	23:31:38	12.9 N	91.9 E	10	4.5	Andaman Islands
03-10-17	13:48:34	25.1 N	94.5 E	66	4.2	Ukhrul, Manipur
04-10-17	21:29:08	26.8 N	89.3 E	10	3.7	Distt. Jalpaiguri, West Bengal
05-10-17	10:25:38	26.8 N	95.5 E	66	3.9	Tirap, Arunachal Pradesh
06-10-17	2:10:20	27.7 N	96.0 E	10	3.7	Lohit, Arunachal Pradesh
06-10-17	4:36:44	27.8 N	96.0 E	10	4.2	Lohit, Arunachal Pradesh
06-10-17	14:00:29	12.3 N	95.2 E	10	4.9	North Andaman Sea
09-10-17	19:32:39	12.6 N	91.9 E	10	4.3	Andaman Islands Region

11-10-17	6:02:52	19.8 N	84.1 E	10	3.2	Phulabani (Kandhamal), Orissa
19-10-17	0:54:20	33.6 N	75.3 E	10	3.3	Jammu & Kashmir
19-10-17	1:10:22	33.5 N	76.1 E	10	4.7	Jammu & Kashmir
23-10-17	14:23:36	6.3 N	92.9 E	30	4.5	Nicobar Islands
25-10-17	18:20:49	14.1 N	92.7 E	10	4.7	Andaman Islands
27-10-17	2:37:43	31.3 N	77.2 E	10	4.4	Mandi, Himachal Pradesh
27-10-17	8:54:20	32.5 N	76.4 E	10	3.7	Distt. Chamba, Himachal Pradesh
28-10-17	16:53:50	28.4 N	76.2 E	5	3.5	Distt. Mahendragarh, Haryana
28-10-17	17:45:24	36.2 N	70.5 E	100	5.7	Hindukush Region, Afghanistan
31-10-17	6:53:07	18.1 N	76.6 E	10	3	Latur, Maharashtra

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
			Delhi College of Engineering	✓	✓	✓
			Delhi University	✓	✓	✓
			Kalkaji	✓	✓	✓
			Kashmiri Gate	✓	✓	✓

EERC LIBRARY:

Publications:

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

- ❖ Çelebi, M., Phan, L. T. and Marshall, R. D. (1993), "Dynamic characteristics of five tall buildings during strong and low-amplitude motions", The Structural Design of Tall Buildings, Vol 2, Issue 1, pp 1-15, March 1993. doi:10.1002/tal.4320020102
- ❖ Dhiman Basu , Michael C. Constantinou, and Andrew S. Whittaker (2014), "An equivalent accidental eccentricity to account for the effects of torsional ground motion on structures", Engineering Structures, Volume 69, pp 1-11, June 2014. DOI: 10.1016/j.engstruct.2014.02.038
- ❖ W. El-Sekelly, R. Dobry, T. Abdoun, and J. H. Steidl (2017), "Two Case Histories Demonstrating the Effect of Past Earthquakes on Liquefaction Resistance of Silty Sand", Journal of Geotechnical and Geoenvironmental Engineering, Vol. 143, Issue 6, June 2017.