

# QUAKE BULLETIN

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## EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from June 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
02-06-17	22:24:47	54.03 N	170.92 E	5.00	6.8	200km NW of Attu Station, Alaska
12-06-17	12:28:39	38.93 N	26.37 E	12.00	6.3	5km S of Plomarion, Greece
14-06-17	7:29:05	14.91 N	92.08 W	93.00	6.9	3km WNW of Malacatan, Guatemala
15-06-17	0:26:18	30.52 S	178.06 W	34.00	6.0	129km NE of L'Esperance Rock, New Zealand
17-06-17	22:26:02	24.09 S	179.60 E	511.00	6.1	South of the Fiji Islands
22-06-17	12:31:03	13.72 N	90.97 W	38.12	6.8	28km SW of Puerto San Jose, Guatemala
25-06-17	17:42:24	19.55 S	176.23 W	10.00	6.0	198km W of Pangai, Tonga
28-06-17	18:20:55	0.31 S	177.66 W	19.00	6.0	117km S of Raoul Island, New Zealand
29-06-17	7:03:12	31.11 S	179.93 E	414.61	6.0	115km WNW of L'Esperance Rock, New Zealand
30-06-17	22:29:45	0.29 S	80.49 W	13.00	6.0	35km NNW of Bahia de Caraquez, Ecuador

### India wide:

(Source: Indian Meteorological Department, IMD, [http://www.imd.gov.in/pages/earthquake\\_prelim.php](http://www.imd.gov.in/pages/earthquake_prelim.php))

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
01-06-17	22:55:56	28.8 N	76.7 E	22	5.0	Rohtak
01-06-17	12:13:47	25.5 N	93.9 E	10	3.2	Manipur
02-06-17	18:31:48	27.9 N	76.5 E	10	2.9	Alwar
02-06-17	2:43:15	28.8 N	76.7 E	22	3.2	Rohtak
03-06-17	18:14:52	17.1 N	73.8 E	10	4.8	Koyana
03-06-17	2:42:59	17.1 N	73.8 E	10	4.8	India-Mayanmar Border
05-06-17	16:40:07	24.0 N	92.1 E	96	3.0	Tripura
08-06-17	22:19:21	32.7 N	74.7 E	10	3.2	J&K
09-06-17	17:38:23	27.8 N	95.7 E	91	3.2	Assam
12-06-17	9:11:21	30.7 N	78.4 E	10	3.0	Uttarkashi, Uttarakhand
14-06-17	17:56:17	32.9 N	76.5 E	5	3.1	Distt.Chamba, Himachal Pradesh

15-06-17	1:14:29	24.1 N	93.4 E	10	3.0	Distt. Churachandpur, Manipur.
16-06-17	5:14:18	27.0 N	94.4 E	31	3.1	Jorhat, Assam.
16-06-17	5:14:18	27.0 N	94.4 E	31	3.1	Jorhat, Assam.
18-06-17	22:35:44	24.7 N	93.9 E	10	4.4	Imphal, Manipur.
20-06-17	4:31:58	27.1 N	92.5 E	10	3.5	West Kameng, Arunachal Pradesh.
21-06-17	20:51:17	17.0 N	73.7 E	10	3.3	Ratnagiri, Maharashtra
21-06-17	18:36:11	25.7 N	87.1 E	50	4.5	Purnia, Bihar
24-06-17	20:17:01	24.4 N	94.2 E	82	3.5	Manipur-Chandel
27-06-17	15:16:54	24.2 N	93.6 E	10	3.0	Churachandpur, Manipur
27-06-17	14:02:55	25.1 N	93.9 E	10	3.0	Senapati, Manipur

## **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	Gangtok	18 September 2011, (22:25:14.554)	Gangtok	✓	✓	✓
2	India (Sikkim)- Nepal Border Region	18 September 2011 (13:12:xx)	Cooch Bihar	✓	✓	✓
	India (Sikkim)- Nepal Border Region		Gangtok	✓	✓	✓
3	India (Sikkim)- Nepal Border Region	18 September 2011 (21:52:26.429)	Gangtok	✓	✓	✓
4	Uttarkashi Dist., Uttarakhand	21 September 2011	Barkot	✓	✓	✓

## **EERC LIBRARY:**

### **Publications:**

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

- ❖ M.R. Gallipolli, M. Mucciarelli, F. Ponzio, M. Dolce, E. D'Alema and M. Maistrello (2006), "Buildings as a Seismic Source: Analysis of a Release Test at Bagnoli, Italy", Bulletin of Seismological Society of America, Vol. 96, No. 6, pp. 2457 - 2464, December, 2006.

- ❖ M. Mazza (2015), "Effect of Near Fault Ground Motions on the Nonlinear Behaviour of Reinforced Concrete Framed Buildings", *Earthquake Science*, Vol. 28, No. 4, pp. 285 - 302, July, 2015.
- ❖ A. Murugesan and A. Narayanan (2017) "Influence of a Longitudinal Circular Hole on Flexural Strength of Reinforced Concrete Beams", *Practice Periodical on Structural Design and Construction*, Vol. 22, Issue 2, May, 2017