

QUAKE BULLETIN

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from March 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
04/03/2017	02:58:20	7.33 S	155.75 E	17.00	6.1	115km SSE of Panguna, Papua New Guinea
05/03/2017	22:47:53	5.99 S	149.35 E	31.00	6.3	32km NW of Kandrian, Papua New Guinea
14/03/2017	02:51:17	6.13 N	92.32 E	10.00	6.0	231km SSW of Mohean, India
19/03/2017	15:43:25	8.15 S	160.74 E	4.00	6.0	68km N of Auki, Solomon Islands
27/03/2017	10:50:19	52.81 N	172.21 E	10.00	6.1	66km W of Attu Station, Alaska
29/03/2017	04:09:25	56.92 N	162.73 E	22.83	6.6	78km NNE of Ust'-Kamchatsk Staryy, Russia

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
01-03-2017	23:06:31	27.3 N	75.8 E	10	2.7	Jaipur District, Rajasthan
01-03-2017	20:09:31	32.3 N	76.6 E	10	3.8	Chamba, Himachal Pradesh
03-03-2017	23:38:13	24.3 N	94.2 E	70	3.5	Chandel, Manipur
04-03-2017	06:50:44	25.5 N	90.9 E	10	3.3	West Khasi Hills, Meghalaya
04-03-2017	02:11:52	25.2 N	94.6 E	70	5	Myanmar- India(Manipur) Border Region
06-03-2017	02:44:16	35.7 N	74.0 E	50	4.8	Northwestern Jammu Kashmir
07-03-2017	09:59:16	26.8 N	90.5 E	30	4.1	Kokrajhar, Assam
09-03-2017	08:39:56	32.5 N	76.6 E	5	3.5	Chamba, Himachal Pradesh
09-03-2017	06:18:25	35.9 N	71.7 E	160	5	Pakistan
09-03-2017	02:55:15	25.0 N	94.2 E	36	4.1	Ukhrul , Manipur
10-03-2017	12:39:33	8.5 N	91.9 E	10	4.7	Nicobar Islands
13-03-2017	10:22:17	24.6 N	72.1 E	10	4.5	Distt. Banas Kantha, Gujarat
14-03-2017	02:51:19	6.4 N	92.2 E	10	5.9	Nicobar Islands Region

14-03-2017	00:18:01	32.7 N	75.6 E	10	3.6	Kathua, Jammu & Kashmir
17-03-2017	14:01:49	11.5 N	92.7 E	60	4.9	Andaman Islands
17-03-2017	10:24:17	28.1 N	76.3 E	5	2.6	Distt. Mahendragarh-Alwar Border region, Rajasthan.
19-03-2017	08:57:09	9.9 N	94.0 E	10	4.7	Nicobar Islands
21-03-2017	15:40:44	24.9 N	92.1 E	37	3.9	Bangladesh-India Border Region
24-03-2017	07:12:25	27.6 N	75.4 E	5	2.9	Sikar, Rajasthan
25-03-2017	02:05:55	25.0 N	95.1 E	82	5	Myanmar-India Border
26-03-2017	21:42:09	27.3 N	88.6 E	10	4.6	East Sikkim
28-03-2017	10:18:49	26.5 N	93.5 E	10	3	Distt Karbi Anglong, Assam
29-03-2017	19:14:33	26.1 N	91.3 E	18	3.5	Kamrup, Assam
30-03-2017	03:40:23	26.5 N	93.0 E	24	3.5	Nagaon, 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. 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	Uttrakhand (India) - Nepal Border Region	23 June 2011	Dharchula	✓	✓	✓
2	Delhi	23 August 2011	Delhi Jal Board	✓	✓	✓
			Delhi University	✓	✓	✓
			Kalka Ji	✓	✓	✓
3	Uttarkashi	28 August 2011	Uttarkashi	✓	✓	✓

EERC LIBRARY:

Publications:

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

- ❖ T. Tsuji1 and H. Nakamura (2016), "Improving Active Preview Control System of Structures Using Online Prediction of Seismic Waves", Journal of Engineering Mechanics, February, Vol. 142(2).
- ❖ R. Bilham, D. Mencin, R. Bendick, and R. Burgmann (2017), "Implications for Elastic Energy Storage in the Himalaya from the Gorkha 2015 Earthquake and other Incomplete Ruptures of the Main Himalayan Thrust", Quaternary International, pp. 1-19.
- ❖ B. Belletti, A. Gasperi, A. Spagnoli and R. Valentino (2017), "Role of Soil-Structure Interaction on the Response of Precast RC Structures under Seismic Loading: Case Study", Practice Periodical on Structural Design and Construction, February, Vol. 22(1).

- ❖ A. R. Vijayanarayanan, R. Goswami, and C. V. R. Murty (2017), “Simple Linear Elastic Static Analysis Procedure to Attain Desired Collapse Mechanism for Moment Resisting Frames”, Paper No - 1400, Proceedings of 16th World Conference on Earthquake Engineering (16WCEE), 9-13 January 2017, Santiago, Chile.
- ❖ S. Shiradhonkar and R. Sinha (2017), “Capacity-Based Seismic Damage Index for Reinforced Concrete Structural Members”, Paper No - 160, Proceedings of 16th World Conference on Earthquake Engineering (16WCEE), 9-13 January 2017, Santiago, Chile.