

# QUAKE BULLETIN

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Editor: Ramancharla Pradeep Kumar

Associate Editors: Pulkit Velani  
PVS Neelima

## EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from November 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
01/11/2017	0:09:30	21.73 S	168.93 E	10	6.1	110km E of Tadine, New Caledonia
01/11/2017	2:23:56	21.66 S	168.88 E	9.93	6.6	104km E of Tadine, New Caledonia
01/11/2017	5:09:01	21.79 S	168.91 E	10	6	110km ESE of Tadine, New Caledonia
04/11/2017	9:00:20	15.35 S	173.21 W	10	6.8	86km NE of Hihifo, Tonga
07/11/2017	21:26:38	4.22 S	143.47 E	107.37	6.5	67km WSW of Angoram, Papua New Guinea
09/11/2017	7:42:11	32.52 N	141.43 E	12	6	165km ESE of Hachijo-jima, Japan
11/11/2017	0:36:15	11.74 S	14.11 W	10	6.1	Ascension Island region
12/11/2017	18:18:17	34.90 N	45.95 E	19	7.3	30km S of Halabjah, Iraq
13/11/2017	2:28:24	9.51 N	84.48 W	19.36	6.5	18km W of Parrita, Costa Rica
17/11/2017	22:34:20	29.83 N	94.97 E	8	6.4	63km ENE of Nyingchi, China
19/11/2017	9:25:50	21.57 S	168.60 E	25.29	6.4	74km E of Tadine, New Caledonia
19/11/2017	15:09:03	21.51 S	168.57 E	16.51	6.6	71km E of Tadine, New Caledonia
19/11/2017	22:43:29	21.33 S	168.68 E	10	7	86km ENE of Tadine, New Caledonia
20/11/2017	0:09:24	21.48 S	168.82 E	10	6	97km E of Tadine, New Caledonia
20/11/2017	18:51:07	14.63 S	175.02 W	6	6	194km SE of Mata-Utu, Wallis and Futuna
27/11/2017	7:11:12	4.61 S	153.21 E	57.77	6	25km SE of Taron, Papua New Guinea
30/11/2017	6:32:51	1.10 S	23.41 W	10	6.7	Central Mid-Atlantic Ridge

### 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
06/11/2017	3:08:44	29.3 N	83.1 E	10	4.7	Nepal
07/11/2017	19:45:39	26.5 N	92.6 E	31	3.6	Nagaon, Assam
08/11/2017	21:22:28	29.9 N	77.7 E	10	3.5	Saharanpur, Uttar Pradesh
08/11/2017	4:50:52	24.1 N	91.2 E	33	4.8	Bangladesh-India (Tripura) Border Rregion

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
09/11/2017	23:49:12	17.6 N	73.6 E	10	3.8	District Ratnagiri, Maharashtra
12/11/2017	19:32:10	27.1 N	92.7 E	5	3.2	East Kameng, Arunachal Pradesh
12/11/2017	5:15:43	29.1 N	79.2 E	27	3.6	Distt. Udham Singh Nagar, Uttrrakhnad
14/11/2017	18:05:53	24.7 N	94.3 E	102	3	Ukhrul, Manipur
17/11/2017	22:34:14	30.1 N	95.1 E	10	6.4	China-India (Arunachal Pradesh) Border
18/11/2017	13:02:11	29.9 N	80.2 E	20	3.3	Distt. Pithoragarh Uttarakhand
18/11/2017	9:51:19	26.4 N	73.8 E	10	4.2	Jodhpur, Rajasthan
20/11/2017	8:48:00	23.7 N	94.5 E	82	5	Myanmar-India (Manipur) Border Region
22/11/2017	22:31:11	24.6 N	93.8 E	21	3.1	Bishunpur, 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	Chamoli	10 May 2012	Garsain	✓	✓	✓
2	Assam	11 May 2012	Golaghat	✓	✓	✓
			Jorhat	✓	✓	✓
			Kokhrajhar	✓	✓	✓
3	Dharchula	21 June 2012	Darchula	✓	✓	✓

### EERC LIBRARY:

#### **Publications:**

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

- ❖ A.S. Elnashai (2002), "Do We Really Need Inelastic Dynamic Analysis?", Journal of Earthquake Engineering, Vol. 6, Special Issue. 1, pp 123-130.
- ❖ R. Reitherman (2006), "Earthquakes that have Initiated the Development of Earthquake Engineering", Bulletin of the New Zealand Society for Earthquake Engineering, Vol.39, No.3, pp. 145-157, September.
- ❖ S. Pampanin (2012), "Reality Check and Renewed Challenges in Earthquake Engineering: Implementing Low-Damage Systems - From Theory to Practice", Bulletin of the New Zealand Society for Earthquake Engineering, Vol.45, No.4, pp. 137-160, September.