

# 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 May 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
01/05/2017	12:31:56	59.83 N	136.68 W	8	6.2	87km WNW of Skagway, Alaska
01/05/2017	14:18:15	59.83 N	136.71 W	2	6.3	88km WNW of Skagway, Alaska
03/05/2017	4:47:13	39.49 N	71.45 E	10	6.0	29km NNW of Karakenja, Tajikistan
08/05/2017	17:00:47	51.76 N	178.63 W	10	6.2	37km WSW of Tanaga Volcano, Alaska
09/05/2017	1:54:14	24.45 N	126.32 E	10	6.0	111km ESE of Hirara, Japan
09/05/2017	13:52:11	14.59 S	167.38 E	169	6.8	62km NE of Port-Olry, Vanuatu
10/05/2017	23:23:37	56.43 S	25.78 W	18	6.5	92km ENE of Visokoi Island, South Georgia and the South Sandwich Islands
12/05/2017	10:41:26	12.91 N	90.06 W	10	6.2	79km SSW of Acajutla, El Salvador
15/05/2017	13:22:39	4.03 S	152.48 E	10	6.2	39km ENE of Rabaul, Papua New Guinea
20/05/2017	1:06:14	9.39 N	123.96 E	533	6.0	24km S of Alburquerque, Philippines
29/05/2017	14:35:21	1.29 S	120.45 E	12	6.6	26km WNW of Kasiguncu, Indonesia

### 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
01/05/2017	6:50:57	13.80 N	93.10 E	10	4.7	Andaman Islands
02/05/2017	17:47:33	27.60N	96.30 E	10	3.3	Lohit , Arunachal Pradesh
02/05/2017	17:43:50	27.60 N	96.30 E	10	3.4	Lohit, Arunachal Pradesh
02/05/2017	9:51:40	32.90 N	75.50 E	19	3.6	Jammu and Kashmir
03/05/2017	0:12:33	24.70 N	94.50 E	10	3.4	Ukhrul, Manipur
05/05/2017	17:58:35	13.90 N	92.70 E	10	5.0	Andaman Islands.
06/05/2017	17:57:11	36.40 N	75.30 E	10	4.2	Jammu & Kashmir
06/05/2017	14:48:50	23.80 N	93.80 E	65	4.7	Myanmar-India ( Manipur) Region
09/05/2017	3:26:54	26.60 N	93.20 E	28	3.4	Nagaon, Assam
09/05/2017	1:53:55	26.30 N	92.70 E	25	3.7	Nagaon, Assam
16/05/2017	22:13:19	27.30 N	88.20 E	10	4.0	West Sikkim
16/05/2017	14:04:41	11.40 N	94.80 E	10	4.4	Andaman Islands.
17/05/2017	17:45:50	13.00 N	93.90 E	10	5.0	Andaman Islands.
18/05/2017	21:53:09	32.80 N	76.20 E	5	2.8	Dist. Chamba, Himachal Pradesh

18/05/2017	8:43:42	24.90 N	94.50 E	75	4.0	Ukhrul, Manipur.
19/05/2017	0:02:29	32.80 N	76.30 E	5	4.5	Dist. Chamba, Himachal Pradesh
20/05/2017	5:48:43	32.80 N	76.20 E	5	4.1	Chamba, Himachal Pradesh
20/05/2017	3:41:46	32.80 N	76.20 E	10	3.6	Chamba, Himachal Pradesh
21/05/2017	21:23:47	28.10 N	95.10 E	30	3.3	Dist. East Siang, Arunachal Pradesh.
21/05/2017	17:38:36	13.60 N	94.00 E	10	4.6	Andaman Islands.
21/05/2017	4:27:07	32.50 N	76.80 E	10	3.5	Chamba, Himachal Pradesh
21/05/2017	0:41:31	32.80 N	76.00 E	10	2.8	Chamba, Himachal Pradesh
22/05/2017	19:41:43	33.90 N	75.80 E	5	3.3	Jammu & Kashmir
22/05/2017	19:41:43	33.90 N	75.80 E	5	3.3	Jammu & Kashmir
24/05/2017	13:54:54	23.90 N	94.30 E	95	3.7	Myanmar-India (Manipur) Border Region
26/05/2017	14:17:49	24.40 N	94.00 E	70	3.8	Chandel, Manipur
29/05/2017	15:19:25	33.40 N	73.90 E	10	3.5	Jammu & Kashmir,
29/05/2017	14:43:17	26.70 N	88.80 E	30	3.7	Dist. Jalpaiguri, West Bengal.
29/05/2017	13:53:27	32.90 N	75.50 E	10	4.4	Jammu & Kashmir
30/05/2017	22:25:08	12.20 N	92.60 E	107	4.6	Andaman Islands

### **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	Gangtok	✓	✓	✓
2	Sikkim-Nepal Border Region	18 September 2011	Chamoli	✓	✓	✓
			Champawat	✓	✓	✓
			Cooch Bihar	✓	✓	✓
			Gangtok	✓	✓	✓
			Karimganj	✓	✓	✓
			Kokhrajhar	✓	✓	✓
			Malda	✓	✓	✓
			Naugaon	✓	✓	✓
			Pithoragarh	✓	✓	✓
			Raxaul	✓	✓	✓
			Sibsagar	✓	✓	✓
			Siliguri	✓	✓	✓
Udham Singh Nagar	✓	✓	✓			

### **EERC LIBRARY:**

#### **Publications:**

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

- ❖ F.G. Gulay, K. Kaptan, E.L. Bal, and S.S. Tezcan (2011), "Scoring Method for The Collapse Vulnerability Assessment of R/C Buildings", Procedia Engineering, Vol. 14, pp. 1219 - 1228.

- ❖ G.R. Mahesh, S.T.G Raghukanth, (2017), "Simulation of Strong Ground Motion for a Mw 8.5 Hypothetical Earthquake in Central Seismic Gap Region, Himalaya", Bulletin of Earthquake Engineering, pp. 1-27, May 2017.
- ❖ S.K. Ajay, C. Rajaram and R.K. Pradeep (2017), "Correlation between rapid visual survey score and possible damage of a building", Indian Concrete Journal, April, 2017.
- ❖ R. Vicente, T.M. Ferreira and R. Maio (2017), "Vulnerability Assessment of Old City Centre of Horta, Portugal: Calibration and Application of a Scoring Method", 16th World Conference on Earthquake Engineering (16WCEE), Santiago, Chile 2017.