

# QUAKE BULLETIN

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## EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from January 2016. The list of the earthquakes is as follows:

### Worldwide:

(Source: <http://earthquake.usgs.gov/earthquakes/>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
01/01/2016	2:00:39	50.58 S	139.45 E	10.00	6.3	Western Indian-Antarctic Ridge
03/01/2016	23:05:22	24.81 N	93.65 E	55.00	6.7	30km W of Imphal, India
05/01/2016	21:59:50	22.05 N	143.67 E	158.37	5.9	210km NW of Farallon de Pajaros, Northern Mariana Islands
11/01/2016	17:08:03	44.46 N	141.08 E	239.86	6.2	74km NW of Rumoi, Japan
11/01/2016	16:38:07	3.86 N	126.87 E	20.80	6.5	230km SE of Sarangani, Philippines
12/01/2016	9:45:11	31.27 S	58.13 E	10.00	5.9	Southwest Indian Ridge
14/01/2016	3:25:34	41.95 N	142.72 E	51.39	6.7	51km SE of Shizunai, Japan
14/01/2016	3:25:28	19.83 S	63.285 W	582.44	6.1	7km WSW of Charagua, Bolivia
20/01/2016	17:13:14	37.72 N	101.58 E	10.00	5.9	63km ESE of Hongtu, China
21/01/2016	18:06:59	18.84 N	106.95 W	10.00	6.6	215km SW of Tomatlan, Mexico
24/01/2016	10:30:30	59.66 N	153.45 W	127.84	7.1	83km E of Old Iliamna, Alaska
25/01/2016	4:22:02	35.65 N	3.68 W	12.00	6.3	50km NNE of Al Hoceima, Morocco
30/01/2016	3:25:10	54.01 N	158.51 E	160.97	7.2	91km N of Yelizovo, Russia
31/01/2016	17:39:00	63.29 S	169.15 E	10.00	6.0	Balleney Islands region

### India wide:

(Source: Indian Meteorological Department, IMD,

<http://www.imd.gov.in/section/seismo/dynamic/CMONTH.HTM>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
01/01/2016	12:54:35	29.7N	80.7E	10	3	India(Pithoragarh) Nepal Border
02/01/2016	8:37:19	36.5N	70.9E	170	5.8	Hindukush Region,

						Afghanistan
03/01/2016	23:05:16	24.8N	93.5E	17	6.7	Distt. Tamenglong, Manipur
04/01/2016	3:57:46	24.9N	93.4E	20	3.6	Distt. Tamenglong Manipur
04/01/2016	9:00:02	24.8N	93.5E	20	3.4	Distt. Tamenglong Manipur
06/01/2016	10:25:08	25.2N	93.2E	40	4	North Cachar Hills, Assam
07/01/2016	13:42:58	27.7N	93.3E	32	4.5	Kurung Kumey Arunachal Pradesh
08/01/2016	9:07:10	36.6N	71.0E	225	5.5	Hindikush Region, Afghanistan
12/01/2016	20:04:58	36.6N	71.1E	220	5.8	Hindikush Region, Afghanistan
13/01/2016	5:47:32	00.6N	92.3E	30	5.1	Northern Sumatra
15/01/2016	0:25:20	25.2N	92.7E	10	3	Jaintia Hills, Meghalaya
15/01/2016	19:25:00	11.9N	92.5E	10	4	South Andaman Islands
18/01/2016	0:52:40	26.2N	92.6E	10	3.5	Nagaon, Assam
21/01/2016	19:22:43	28.1N	85.1E	10	4.8	Nepal
24/01/2016	17:09:26	27.0N	92.2E	10	3.2	West Kameng, Arnachal Pradesh

### 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. All the available ground motions are listed.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component		
				NS	EW	UD
1	Dist. Bageshwar Uttarakhand	01 May 2010	Bageshwar	✓	✓	✓
			Barkot	✓	✓	✓
			Chamoli	✓	✓	✓
			Garsian	✓	✓	✓
			Kapkot	✓	✓	✓
			Munsiari	✓	✓	✓
			Roorkee	✓	✓	✓
2	Uttarakhand	03 May 2010	Barkot	✓	✓	✓
			Dhanaulti	✓	✓	✓
			Roorkee	✓	✓	✓
			Tehri	✓	✓	✓
3	Tinsukai	09 May 2010	Tinsukai	✓	✓	✓

## **EERC LIBRARY:**

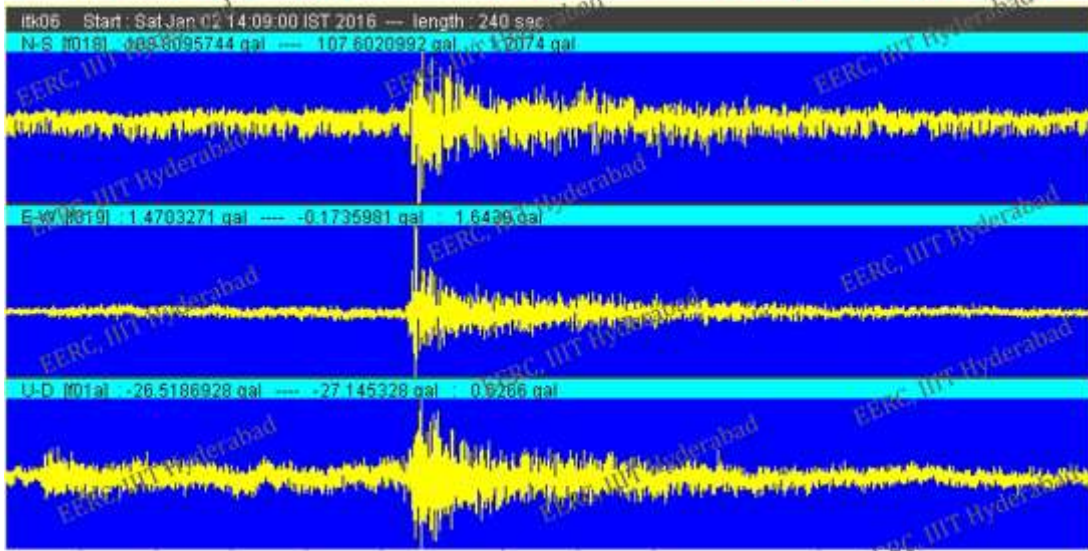
### **Publications:**

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

- ❖ Swajit Singh Goud, Chenna Rajaram and Ramancharla Pradeep Kumar (2016), "Comparative Study on Materials Used in Various Codes for Design of RC and Steel Structures", *The Master Builder*, Vol.18, No.1, pp.58-64.
- ❖ D. Basu and S. Giri (2015), "Accidental eccentricity in multistory buildings due to torsional ground motion", *Bulletin of Earthquake Engineering*, December, Vol. 13(12), pp. 3779-3808.
- ❖ C. Z. Chrysostomous N. Kyriakides, V. K. papanikolaou, A. J. Kappos, E. G. Dimtrakopoulos and A. I. Giouvanidis (2015), "Vulnerability assessment and feasibility analysis of seismic strengthening of school buildings", *Bulletin of Earthquake Engineering*, December, Vol. 13(12), pp. 3809-3840.
- ❖ W. Xiong, L. Z. Jiang and Y. Z. Li (2016), "Influence of soil-structure interaction (structure-to-soil relative stiffness and mass ratio) on the fundamental period of buildings: experimental observation and analytical verification", *Bulletin of Earthquake Engineering*, January, Vol. 14(1), pp. 139-160.
- ❖ J. Pejovic and S. Jankovic (2016), "Seismic fragility assessment for reinforced concrete high-rise buildings in Southern Euro-Mediterranean zone", *Bulletin of Earthquake Engineering*, January, Vol. 14(1), pp. 185-212.
- ❖ A. Sil, T. G. Sitharam and S. T. Haider (2015), "Probabilistic Models for Forecasting Earthquakes in the Northeast Region of India", *Bulletin of the Seismological Society of America*, December, Vol. 105(6), pp. \*\*.

❖ Latest Earthquake Records:

Hindukush Region Afganistan M 5.8 02Jan2016, 02:19 pm (IST)



Note : Make use of image for Education and Research purpose only and acknowledge EERC, IIT-Hyderabad while using it.