

QUAKE BULLETIN

Monthly Bulletin

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide in the month of April-2013. The list of the earthquakes is as follows:

Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
06/04/2013	04:32:35	3.513°S	138.477°E	66.0	7.0	Enarotali, Indonesia
09/04/2013	11:52:50	28.500°N	51.591°E	10.0	6.4	Bandar Bushehr, Iran
14/04/2013	01:32:22	6.475°S	154.607°E	31.0	6.6	Panguna, Papua New Guinea
16/04/2013	10:44:20	28.107°N	62.053°E	82.0	7.7	Khash, Iran
16/04/2013	22:55:27	3.218°S	142.543°E	13.0	6.6	Aitape, Papua New Guinea
19/04/2013	03:05:52	46.224°N	150.783°E	112.2	7.2	Kuril'sk, Russia
20/04/2013	00:02:47	30.277°N	102.937°E	14.0	6.6	Linqiong, China
23/04/2013	23:14:42	3.920°S	152.123°E	21.8	6.5	Rabaul, Papua New Guinea

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
03/04/2013	3:48:02	27.6°N	92.7°E	10	3.5	East kameng, Arunachal Pradesh
04/04/2013	09:51:31	24.7°N	94.3°E	50	3.5	Ukhrul, Manipur
05/04/2013	07:34:10	26.7°N	92.4°E	10	3.4	Sonitpur, Assam
06/04/2013	22:29:31	30.5°N	79.1°E	10	4.3	Rudraprayag, Uttarakhand
30/03/2013	06:33:54	23.5°N	70.4°E	05	4.0	Rann of Kachchh, Gujarat
09/04/2013	21:46:31	25.6°N	91.7°E	05	3.4	West Khasi Hills, Meghalaya
10/04/2013	20:10:01	29.0°N	76.6°E	10	3.5	Rohtak, Haryana
16/04/2013	01:23:19	26.3°N	92.0°E	16	4.6	Assam-Darrang
17/04/2013	03:01:37	33.0°N	76.5°E	10	3.9	Chamba, Himachal Pradesh
20/04/2013	14:24:58	27.3°N	88.5°E	2	3.2	Gangtok, Sikkim
21/04/2013	10:22:11	26.5°N	93.1°E	34	3.4	Nagaon, Assam
25/04/2013	14:52:27	32.4°N	76.0°E	5.0	3.0	Distt. Chamba, Himachal Pradesh
27/04/2013	02:48:07	27.4°N	92.5°E	5.0	3.6	West Kameng, Arunachal Pradesh
27/04/2013	05:16:53	27.5°N	92.5°E	10	4.7	West Kameng, Arunachal Pradesh
29/04/2013	00:57:05	29.0°N	77.2°E	5.0	3.0	Sonipat, Haryana

GROUND MOTION RECORDS:

In our centre around 310 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
1	Golpara	26 Jul 2009	Golpara	E-W
2	Golpara	26 Jul 2009	Golpara	N-S
3	Golpara	26 Jul 2009	Golpara	U-D
4	Gangtok	3 Aug 2009	Gangtok	E-W
5	Gangtok	3 Aug 2009	Gangtok	N-S
6	Gangtok	3 Aug 2009	Gangtok	U-D
7	Andaman	10 Aug 2009	Portblair	E-W
8	Andaman	10 Aug 2009	Portblair	N-S
9	Andaman	10 Aug 2009	Portblair	U-D
10	Kokhrajhar	11 Aug 2009	Kokhrajhar	E-W
11	Kokhrajhar	11 Aug 2009	Kokhrajhar	N-S
12	Kokhrajhar	11 Aug 2009	Kokhrajhar	U-D
13	Myanmar	11 Aug 2009	Boko	E-W
14	Myanmar	11 Aug 2009	Boko	N-S
15	Myanmar	11 Aug 2009	Boko	U-D

The records are available at server ([\\10.2.28.225](http://10.2.28.225))

EERC LIBRARY:

Publications:

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

- ❖ Sutat Leelataviwat, Subhash C Goel, and Bozidar Stojadinovik (1999)., "Toward Performance Based Seismic Design of Structures", Earthquake Spectra, Vol. 15, No. 3, pp. 435-461.
- ❖ Siro Casolo, Siegfried Neumair, Maria A Parisi, and Vincenzo Petrini (2000)., "Analysis of Seismic Damage Patterns in Old Masonry Church Facades", Earthquake Spectra, Vol. 16, No. 4, pp. 757-773.
- ❖ Hemanth B Koushik, Durgesh C Rai, and Sudhir K Jain (2006)., "Code Approaches to Seismic Design of Masonry-Infilled Reinforced Concrete Frames: A State-of-the-Art Review", Earthquake Spectra, Vol. 22, No. 4, pp. 961-983.
- ❖ Rakesh K Goel and Anil K Chopra (2004)., "Evaluation of Modal and FEMA Pushover Analysis: SAC Buildings", Earthquake Spectra, Vol. 20, No. 1, pp. 225-254.
- ❖ Goutam Mondal and Sudhir K Jain (2008)., "Lateral Stiffness of Masonry Infilled Reinforced Concrete (RC) Frames with Central Openings", Earthquake Spectra, Vol. 24, No. 3, pp. 701-723.

Reports:

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

- ❖ Mohammed M Talaat and Khalid M Mosalam (2007)., "Computational Modeling of Progressive Collapse in Reinforced Concrete Frame Structures", PEER Report 2007/10, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

The publications and reports are available at server ([\\10.2.28.225](#))