

QUAKE BULLETIN

Monthly Bulletin

Vol.4 No.6 June 2015

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from May 2015. The list of the earthquakes is as follows:

Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
05/05/2015	01:44:03	5.489°S	151.874°E	41.5	7.5	Kokopo, Papua New Guinea
07/05/2015	07:10:22	7.226°S	154.551°E	23.2	7.1	Panguna, Papua New Guinea
12/05/2015	07:05:19	27.819°N	86.080°E	15	7.3	Kodari, Nepal
30/05/2015	11:23:02	27.831°N	140.493°E	677	7.8	Chichi-shima, Japan

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
01/05/2015	8:58:45	10.8°N	92.0°E	10	5.4	ANDAMAN ISLANDS REGION
02/05/2015	00:11:00	27.1°N	85.0°E	10	4.5	NEPAL
02/05/2015	05:35:44	28.0°N	84.7°E	10	4.5	NEPAL
02/05/2015	09:41:18	27.6°N	85.3°E	10	3.5	NEPAL
02/05/2015	15:16:20	27.6°N	86.0°E	10	3.5	NEPAL
02/05/2015	21:44:11	27.7°N	85.9°E	10	4.1	NEPAL
02/05/2015	14:13:10	28.0°N	85.0°E	10	3.2	NEPAL
03/05/2015	11:35:13	27.8°N	85.1°E	10	4.3	NEPAL
03/05/2015	23:14:17	27.7°N	85.8°E	10	3.6	NEPAL
04/05/2015	01:15:07	27.6°N	85.9°E	10	4.6	NEPAL
05/05/2015	00:54:06	28.0°N	85.0°E	20	3.2	NEPAL
06/05/2015	12:17:13	28.1°N	84.5°E	23	3.3	NEPAL
06/05/2015	15:13:20	27.4°N	85.5°E	10	3.7	NEPAL
06/05/2015	21:56:24	27.4°N	84.9°E	10	3.1	NEPAL
07/05/2015	11:00:44	27.3°N	92.2°E	10	3.2	WEST KAMENG, ARNACHAL PRADESH
07/05/2015	20:34:44	27.4°N	85.6°E	10	4.0	NEPAL

08/05/2015	00:32:33	27.5°N	85.9°E	10	4.8	NEPAL
08/05/2015	02:34:43	27.3°N	85.8°E	10	3.6	NEPAL
08/05/2015	07:47:54	27.5°N	85.7°E	12	4.0	NEPAL
08/05/2015	21:23:28	28.0°N	85.1°E	10	3.3	NEPAL
09/05/2015	01:01:41	23.3°N	70.4°E	10	3.4	KACHCHH, GUJARAT
10/05/2015	00:49:52	27.5°N	85.8°E	10	3.5	NEPAL
10/05/2015	09:38:34	27.7°N	85.5°E	10	3.5	NEPAL
11/05/2015	14:51:06	27.7°N	85.4°E	10	3.9	NEPAL
12/05/2015	07:05:19	27.7°N	86.0°E	10	7.3	NEPAL
12/05/2015	07:34:23	27.6°N	86.2°E	15	5.4	NEPAL
12/05/2015	07:36:54	27.6°N	86.1°E	10	6.2	NEPAL
12/05/2015	08:06:06	27.6°N	86.1°E	10	5.0	NEPAL
12/05/2015	08:13:55	27.6°N	86.0°E	10	4.8	NEPAL
12/05/2015	08:21:11	27.8°N	86.2°E	10	4.8	NEPAL
12/05/2015	08:34:23	27.8°N	85.9°E	10	4.2	NEPAL
12/05/2015	08:59:40	27.8°N	86.3°E	10	4.0	NEPAL
12/05/2015	10:04:05	27.7°N	86.0°E	10	3.3	NEPAL
12/05/2015	10:35:39	27.4°N	85.9°E	10	4.0	NEPAL
12/05/2015	10:41:31	27.4°N	86.2°E	10	3.9	NEPAL
12/05/2015	11:06:34	27.7°N	86.1°E	10	3.6	NEPAL
12/05/2015	11:21:31	27.6°N	86.1°E	10	3.7	NEPAL
12/05/2015	11:58:12	27.6°N	85.8°E	10	3.7	NEPAL
12/05/2015	12:28:23	27.7°N	85.9°E	10	3.9	NEPAL
12/05/2015	13:43:17	27.5°N	85.7°E	10	3.6	NEPAL
12/05/2015	15:28:20	27.6°N	86.2°E	15	3.7	NEPAL
12/05/2015	16:32:13	27.6°N	85.8°E	18	3.2	NEPAL
12/05/2015	16:55:23	27.6°N	85.8°E	10	3.5	NEPAL
12/05/2015	17:28:39	27.4°N	86.1°E	10	4.1	NEPAL
12/05/2015	18:51:45	27.7°N	86.2°E	16	3.3	NEPAL
12/05/2015	19:34:58	27.7°N	86.1°E	10	3.4	NEPAL
12/05/2015	19:37:44	27.5°N	86.0°E	48	3.8	NEPAL
12/05/2015	20:07:34	27.6°N	86.1°E	12	3.1	NEPAL
12/05/2015	20:22:15	27.6°N	85.2°E	10	3.4	NEPAL
12/05/2015	20:44:28	27.9°N	86.2°E	10	3.3	NEPAL
12/05/2015	21:25:12	27.7°N	84.6°E	10	5.1	NEPAL
12/05/2015	22:53:18	27.2°N	86.1°E	10	3.4	NEPAL
13/05/2015	02:23:13	27.5°N	86.2°E	10	3.7	NEPAL
13/05/2015	02:43:47	27.4°N	86.1°E	10	3.7	NEPAL
13/05/2015	04:48:09	27.5°N	86.0°E	10	3.3	NEPAL
13/05/2015	06:26:05	27.5°N	86.1°E	10	4.7	NEPAL
13/05/2015	06:37:30	27.6°N	86.1°E	10	4.2	NEPAL
13/05/2015	06:53:59	27.7°N	86.2°E	10	4.7	NEPAL
13/05/2015	08:45:56	27.7°N	86.2°E	10	3.3	NEPAL
13/05/2015	09:52:28	27.8°N	86.2°E	10	3.2	NEPAL
13/05/2015	10:59:44	27.5°N	86.1°E	10	3.6	NEPAL
13/05/2015	15:51:04	27.4°N	85.8°E	20	3.4	NEPAL
13/05/2015	18:31:01	27.7°N	86.1°E	10	3.6	NEPAL
13/05/2015	21:38:05	27.7°N	86.1°E	10	4.8	NEPAL
14/05/2015	03:07:10	27.4°N	86.0°E	10	3.8	NEPAL
14/05/2015	03:07:40	27.6°N	86.0°E	10	4.4	NEPAL

14/05/2015	09:35:31	27.6°N	85.2°E	10	3.2	NEPAL
14/05/2015	13:58:07	27.2°N	86.1°E	10	3.4	NEPAL
14/05/2015	14:36:39	27.9°N	85.2°E	15	3.7	NEPAL
14/05/2015	15:05:41	27.6°N	86.1°E	10	3.6	NEPAL
14/05/2015	15:55:08	27.9°N	86.0°E	10	3.5	NEPAL
14/05/2015	21:53:36	27.3°N	86.0°E	10	3.6	NEPAL
14/05/2015	22:21:16	27.5°N	86.0°E	10	4.0	NEPAL
15/05/2015	01:42:42	27.8°N	84.7°E	10	5.0	NEPAL
15/05/2015	05:06:02	27.8°N	84.8°E	10	3.4	NEPAL
15/05/2015	09:24:14	27.4°N	86.1°E	05	3.4	NEPAL
16/05/2015	03:39:26	27.5°N	85.7°E	10	4.2	NEPAL
16/05/2015	03:50:26	27.4°N	84.9°E	10	3.5	NEPAL
16/05/2015	11:34:10	27.5°N	86.0°E	10	5.7	NEPAL
16/05/2015	16:23:48	27.6°N	86.0°E	28	3.6	NEPAL
16/05/2015	20:02:55	28.1°N	84.8°E	10	3.0	NEPAL
16/05/2015	23:15:25	27.5°N	85.9°E	10	3.8	NEPAL
17/05/2015	05:45:37	27.2°N	85.9°E	08	3.9	NEPAL
17/05/2015	14:55:05	27.6°N	86.2°E	10	3.8	NEPAL
18/05/2015	12:42:12	28.0°N	84.7°E	30	3.5	NEPAL
18/05/2015	22:49:53	27.8°N	86.0°E	10	3.6	NEPAL
19/05/2015	10:59:32	27.8°N	85.8°E	10	3.7	NEPAL
20/05/2015	05:25:10	27.5°N	86.2°E	10	3.6	NEPAL
20/05/2015	09:02:37	27.6°N	85.1°E	10	3.9	NEPAL
21/05/2015	08:26:44	27.7°N	86.3°E	10	3.7	NEPAL
22/05/2015	10:59:37	28.1°N	85.0°E	10	4.2	NEPAL
22/05/2015	11:45:47	27.3°N	86.0°E	10	3.7	NEPAL
22/05/2015	19:07:42	29.9°N	81.9°E	10	4.2	NEPAL
22/05/2015	20:11:35	24.7°N	93.2°E	10	3.9	TAMENGLONG,MANIPUR
22/05/2015	20:52:36	24.5°N	93.4°E	63	3.2	CHURACHANDPUR,MANIPUR
23/05/2015	11:53:57	30.4°N	79.2°E	10	3.2	CHAMOLI, UTTARAKHAND
23/05/2015	16:41:19	27.4°N	85.9°E	10	3.7	NEPAL
24/05/2015	01:21:04	27.9°N	86.3°E	10	3.5	NEPAL
24/05/2015	17:30:36	27.0°N	85.9°E	20	3.5	NEPAL
24/05/2015	21:38:43	27.9°N	84.7°E	10	4.0	NEPAL
26/05/2015	17:07:15	27.9°N	85.1°E	10	4.5	NEPAL
26/05/2015	17:24:14	24.4°N	93.8°E	30	4.1	CHURACHANDPUR,MANIPUR
27/05/2015	07:30:44	27.9°N	85.6°E	10	4.0	NEPAL
27/05/2015	16:44:59	28.0°N	85.1°E	10	3.4	NEPAL
28/05/2015	11:46:28	28.1°N	93.4°E	10	4	INDIA (ARUNACHAL PRADESH) CHINA BORDER
28/05/2015	15:19:29	25.8°N	91.2°E	10	3.5	KAMRUP,ASSAM
29/05/2015	03:57:54	25.9°N	90.2°E	15	3.9	MEGHALAYA
29/05/2015	06:45:32	27.7°N	84.7°E	10	3.9	NEPAL
29/05/2015	10:00:00	28.0°N	84.7°E	10	4.7	NEPAL
30/05/2015	16:28:19	27.8°N	85.0°E	10	4.0	NEPAL

GROUND MOTION RECORDS:

In our centre around 588 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	Bhutan & Khokhrajhar	29 Oct 2009	Bongaigaon	√	√	√
			Goalpara	√	√	√
			Kokhrajhar	√	√	√
			Nongstoin	√	√	√
			Tura	√	√	√

EERC LIBRARY:

Publications:

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

- ❖ Shaohong Wu, Jing Jin, and Tao Pan, (2015), "Empirical seismic vulnerability curve for mortality: case study of China", *Natural Hazards*, Vol. 77, No. 2, pp. 645-662.
- ❖ Maosheng Gong, Shibin Lin, Jingjiang Sun, Shanyou Li, Junwu Dai, and Lili Xie (2015), "Seismic intensity map and typical structural damage of 2010 Ms 7.1 Yushu earthquake in China", *Natural Hazards*, Vol. 77, No. 2, pp. 847-866.
- ❖ Sandeep, A. Joshi, Kamal, Parveen Kumar, Ashvini Kumar, and Piu Dhibar (2015), "Modeling of strong motion generation areas of the Niigata, Japan, earthquake of 2007 using modified semi-empirical technique", *Natural Hazards*, Vol. 77, No. 2, pp. 933-957.
- ❖ Roy. P.N., Suparna Chowdhury, Partha Sarkar, and Saroj Kumar Mondal (2015), "Fractal study of seismicity in order to characterize the various tectonic blocks of North-east Himalaya, India", *Natural Hazards*, Vol. 77, No. 1, pp. 5-18.
- ❖ Miguel A. Jaimes, Mauro Niño, and Eduardo Reinoso (2015), "Regional map of earthquake-induced liquefaction hazard using the lateral spreading displacement index D_u ", *Natural Hazards*, Vol. 77, No. 3, pp. 1595-1618.

Reports:

The following reports are very useful for research

- ❖ Comerio M and Stallmeyer J. (2002)., "Nonstructural Loss Estimation: The UC Berkeley Case Study", PEER Report 2002/01, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

Latest Earthquake Recorded:

The following Ground motion was recorded at CDG00 station.

