

QUAKE BULLETIN

Monthly Bulletin

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EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and in India in the month of January, 2012. The list of the earthquakes is as follows:

Worldwide:

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

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
15/1/2012	13:40:18	60.765°S	55.858°W	10	6.6	South Shetland Islands
10/1/2012	18:36:59	2.452°N	93.209°E	20.5	7.2	Off the West Coast of Northern Sumatra
9/1/2012	04:07:16	10.557°S	165.160°E	38.9	6.6	Santa Cruz Islands
1/1/2012	05:27:54	31.416°N	138.155°E	348.5	6.8	Izu Islands

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
27/1/2012	9:54:34	03.3°N	93.2°E	10	5.1	Off West Coast of Northern Sumatra
24/1/2012	0:52:06	24.8°S	178.5°E	582	6.2	South of the Fiji Islands
21/1/2012	18:47:14	15.0°N	93.0°W	56	6.3	Offshore Chiapas, Mexico
20/1/2012	21:28:42	09.7°N	92.5°E	10	4.3	Nicobar Islands Region
19/1/2012	6:48:51	45.7°S	165.5°E	36	6.1	Off West Coast of South Island, N.Z.
18/1/2012	14:12:52	27.3°N	88.5°E	5	3.4	Sikkim, India
16/1/2012	5:01:00	29.7°N	78.9°E	10	3.6	Pauri (Garhwal) Uttarakhand
15/1/2012	13:40:20	60.7°S	55.4°W	36	6.5	South Shetland Islands
13/1/2012	22:49:58	36.0°N	70.4°E	87	5	Hindu Kush Region, Afghanistan
13/1/2012	4:34:14	02.3°N	93.0°E	31	5	Off the West Coast of Northern Sumatra
11/1/2012	22:23:19	25.3°N	94.7°E	10	4	Manipur (India) Myanmar Border Region
10/1/2012	18:36:57	02.5°N	93.2°E	10	7.3	Off West Coast of Northern Sumatra
9/1/2012	4:07:17	10.6°S	165.1°E	35	6.6	Santa Cruz Islands
4/1/2012	16:31:24	33.7°N	75.0°E	10	4	Jammu & Kashmir
3/1/2012	17:32:28	07.8°N	92.2°E	26	4.4	Andaman Sea
1/1/2012	18:09:07	04.7°N	96.5°E	44	5.1	Northern Sumatra, Indonesia
1/1/2012	5:27:55	31.5°N	138.1°E	360	6.7	Izu Islands, Japan Region
1/1/2012	2:35:19	23.5°N	91.8°E	12	4.2	Southern Tripura

GROUND MOTION RECORDS:

In our centre nearly 80 ground motions 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. Very soon we will upload it in the server.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component
1	Chamoli	14 Dec 2005	Bageshwar	E-W
2	Chamoli	14 Dec 2005	Bageshwar	N-S
3	Chamoli	14 Dec 2005	Bageshwar	U-D
4	Chamoli	14 Dec 2005	Chamoli	E-W
5	Chamoli	14 Dec 2005	Chamoli	N-S
6	Chamoli	14 Dec 2005	Chamoli	U-D
7	Chamoli	14 Dec 2005	Champawat	E-W
8	Chamoli	14 Dec 2005	Champawat	N-S
9	Chamoli	14 Dec 2005	Champawat	U-D
10	Chamoli	14 Dec 2005	Pauri	E-W
11	Chamoli	14 Dec 2005	Pauri	N-S
12	Chamoli	14 Dec 2005	Pauri	U-D
13	Chamoli	14 Dec 2005	Roorkee	E-W
14	Chamoli	14 Dec 2005	Roorkee	N-S
15	Chamoli	14 Dec 2005	Roorkee	U-D
16	Chamoli	14 Dec 2005	Rudraprayag	E-W
17	Chamoli	14 Dec 2005	Rudraprayag	N-S
18	Chamoli	14 Dec 2005	Rudraprayag	U-D
19	Chamoli	14 Dec 2005	Tehri	E-W
20	Chamoli	14 Dec 2005	Tehri	N-S
21	Chamoli	14 Dec 2005	Tehri	U-D
22	Chamoli	14 Dec 2005	Uttarkashi	E-W
23	Chamoli	14 Dec 2005	Uttarkashi	N-S
24	Chamoli	14 Dec 2005	Uttarkashi	U-D

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

IIIT LIBRARY:

New Arrivals:

Budhu, Muni(2008), "Soil Mechanics and Foundations" Wiley Publishers, Delhi, 634 pp

Timoshenko Stephen P, "History of Strength of Materials" New York: Dover Pub., 1983. 452 p
ISBN:0-486-61187-6.

Jan L.M. Hensen and Roberto Lamberts(2011), "Building Performance Simulation for Design and Operation" London: Spon Press, 507 pp

EERC LIBRARY:

Proceedings:

- ❖ Proceedings on “International Conference on Structural Stability and Dynamics” on January 4th – 6th 2012.
- ❖ Proceedings on “Indo-US Workshop on Intraplate Seismicity” on January 15th - 18th 2012.

Publications:

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

- ❖ Young-Ji Park and Alfred H-S Ang., (1985), “Mechanistic Seismic Damage Model for Reinforced Concrete” Journal of Structural Engineering, ASCE, Vol.3 No.4.
- ❖ AJ Kappos., (1997), “Seismic Damage Indices for Reinforced Concrete Buildings” Construction Research Communications Limited
- ❖ Poljanseki and P Fajfar., (2008), “A New Damage Model for the Seismic Damage Assessment of Reinforced Concrete Frame Structures” Proc. of 14th World Conference on Earthquake Engineering.
- ❖ Siddhartha Ghosh, Debarati Datta and Abhinav A Katakdhond., (2011), “Estimation of Park-Ang Damage Index for Planar Multi Storey Frames Using Equivalent Single Degree of Freedom Systems”, Engineering Structures, Vol.33, Issue.9, pp-2509-2524.
- ❖ Matja Dolsek and P Fajfar., (2008), “The effect of Masonry Infills on the Seismic Response of a Four Storey Reinforced Concrete Frame - A Deterministic Assessment”, Engineering Structures 30.

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