

QUAKE BULLETIN

Monthly Bulletin

Vol.5 No.7 July 2016

Editor: *Ramancharla Pradeep Kumar*

Associate Editors: *Chenna Rajaram*

Pulkit Velani

Raju Sangam

EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and India wide from June 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
01/06/2016	22:56:00	2.10 S	100.67 E	50.00	6.6	79km W of Sungaipenuh, Indonesia
05/06/2016	16:25:33	4.58 S	125.63 E	429.62	6.3	133km SW of Leksula, Indonesia
06/06/2016	02:35:32	30.02 S	177.84 W	43.83	6.1	84km S of Raoul Island, New Zealand
07/06/2016	10:51:38	18.41 N	105.19 W	10.00	6.2	102km SSW of San Patricio, Mexico
07/06/2016	19:15:15	1.31 N	126.33 E	30.68	6.3	128km E of Bitung, Indonesia
09/06/2016	04:13:08	11.25 S	116.26 E	19.00	6.1	260km S of Kute, Indonesia
10/06/2016	03:25:23	12.83 N	86.97 W	10.00	6.1	21km E of Puerto Morazan, Nicaragua
101/06/2016	04:17:45	8.68 S	160.56 E	30.40	6.2	18km WNW of Auki, Solomon Islands
14/06/2016	13:49:23	18.77 S	168.82 E	111.00	6.2	98km NNW of Isangel, Vanuatu
19/06/2016	09:47:24	20.28 S	169.08 E	13.00	6.3	83km SSW of Isangel, Vanuatu
20/06/2016	03:50:55	20.21 S	168.76 E	15.00	6.0	90km SW of Isangel, Vanuatu
21/06/2016	16:26:34	22.66 N	45.13 W	10.00	6.1	Northern Mid-Atlantic Ridge
21/06/2016	17:12:08	3.46 S	151.85 E	365.31	6.3	68km WNW of Namatanai, 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
06/06/2016	12:17:53	27.8 N	94.1 E	10	3.5	Kamalabari, Arunachal Pradesh, India
07/06/2016	12:01:13	27.4 N	92.7 E	5	3.8	West Kameng, Arunachal Pradesh
07/06/2016	20:10:37	29.9 N	80.2 E	10	3.5	Pithoragarh, Uttarakhand
09/06/2016	16:17:32	27.5 N	92.7 E	10	3.5	West Kameng, Arunachal Pradesh
11/06/2016	18:12:22	25.8 N	95.0 E	75	4.5	Tuensang, Nagaland
12/06/2016	11:20:22	17.2 N	73.9 E	16	3.5	Koyna, Maharashtra
13/06/2016	19:22:42	27.6 N	92.7 E	10	3.5	East Kameng, Arunachal Pradesh
13/06/2016	23:27:44	27.7 N	84.6 E	10	4.2	Nepal-India Border Region
14/06/2016	12:54:24	25.1 N	92.3 E	10	3.2	India(Meghalaya)-Bangladesh Border Region
21/06/2016	16:47:11	35.7 N	74.0 E	33	4.5	Jammu & Kashmir
22/06/2016	21:55:23	24.5 N	94.4 E	11	3.9	Ukhrul, Manipur
23/06/2016	11:35:36	36.4 N	70.7 E	170	5.5	Hindu Kush Region, Afghanistan
24/06/2016	23:01:16	24.1 N	93.6 E	10	3.1	Churachandpur, Manipur
25/06/2016	4:04:51	27.3 N	95.2 E	5	3.5	Dibrugarh, Assam
27/06/2016	0:27:44	22.6 N	92.0 E	20	5.0	Bangladesh
27/06/2016	7:22:13	23.3 N	94.0 E	5	4.2	India (Mizoram) -Mayanmar Border Region
28/06/2016	14:15:38	24.7 N	92.3 E	10	3.3	Karimganj, Assam
29/06/2016	9:27:02	29.2 N	81.1 E	10	3.9	Nepal

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	Andaman Islands Region	3 August 2010	Port Blair	✓	✓	✓
2	Amritsar	8 August 2010	Amritsar	✓	✓	✓
3	Shimla	13 August 2010	Jubbal	✓	✓	✓

EERC LIBRARY:

Publications:

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

- ❖ S. D. Amico, F. Meroni, M. L. Sousa and G. Zonno (2016), "Building vulnerability and seismic risk analysis in the urban area of Mt. Etna volcano (Italy)", *Bulletin of Earthquake Engineering*, July, Vol. 14(7), pp. 2031-2045.
- ❖ R. Rupakhety, R. Sigbjornsson and S. Olafsson (2016), "Damage to residential buildings in Hveragerdi during the 2008 Olfus Earthquake: simulated and surveyed results", *Bulletin of Earthquake Engineering*, July, Vol. 14(7), pp. 1945-1955.
- ❖ D. Galluzzo, F. Bianco, M. L. Rocca and G. Zonno (2016), "Ground motion observations and simulation for local earthquakes in the Campi Flegrei volcanic area", *Bulletin of Earthquake Engineering*, July, Vol. 14(7), pp. 1903-1916.
- ❖ H. Langer, G. Tusa, L. Scarfi and R. Azzaro (2016), "Ground-motion scenarios on Mt. Etna inferred from empirical relations and synthetic simulations", *Bulletin of Earthquake Engineering*, July, Vol. 14(6), pp. 1917-1943.
- ❖ M. A. Ferreira, F. Mota de Sa and C. S. Oliveira (2016), "The Disruption Index (DI) as a tool to measure disaster mitigation strategies", *Bulletin of Earthquake Engineering*, October, Vol. 14(7), pp. 1957-1977.