

Report on Real Time Earthquake Location

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Report of Earthquakes occurred in the month of January 2026

1) Introduction:

National Center for Seismology maintains a National Seismological Network of **169 stations** each having state of art equipment and spreading all across the country (**Figure:1**). Using these stations during the period 01st – 31st January 2026 a total number of 378 earthquakes have been located

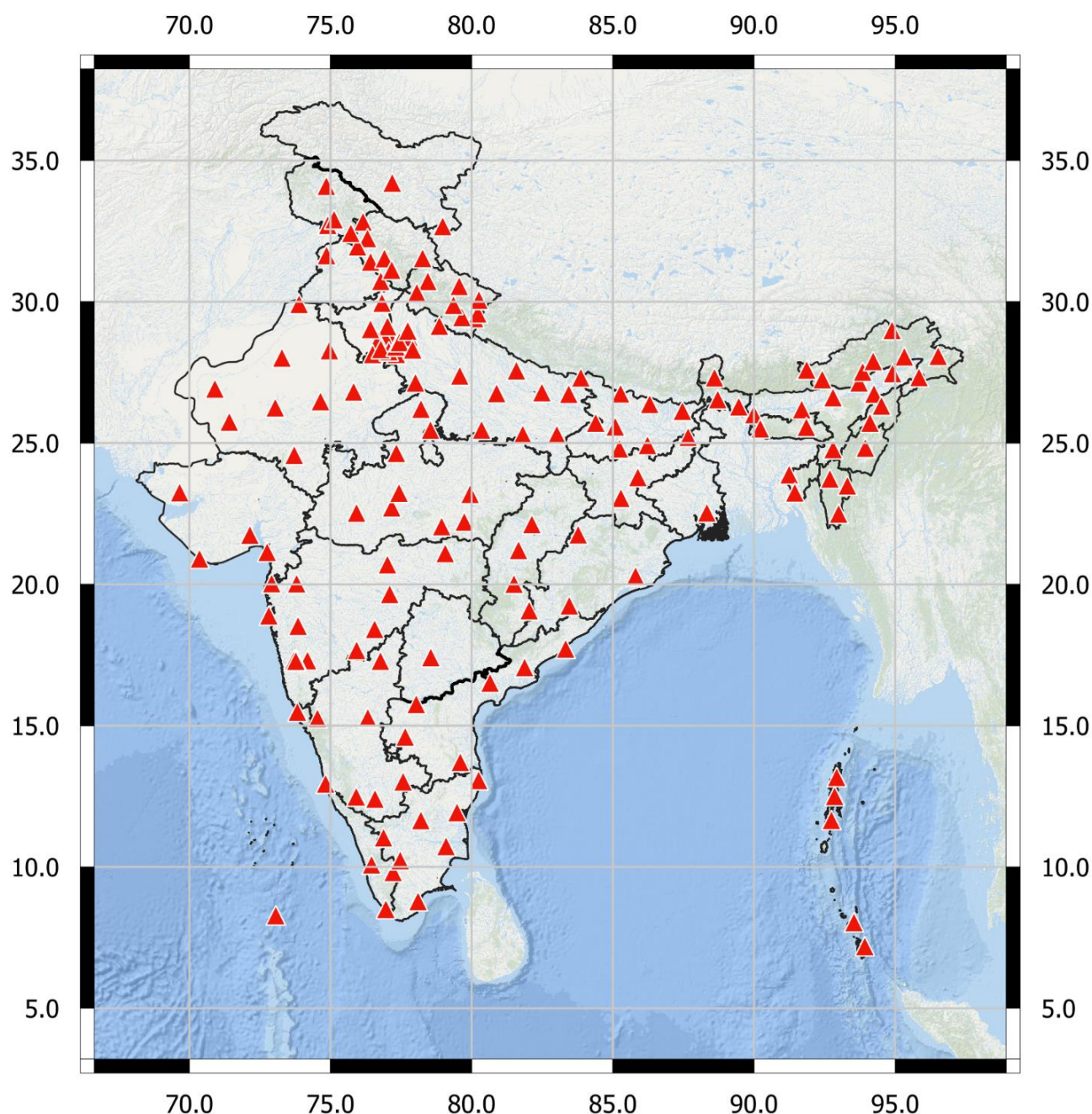


Figure 1: National Seismological Network (NSN) of 169 Stations

and disseminated from the center (**Figure:2**), out of which 158 earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0°- 40°N & 60°-100°E (**Figure:3**).

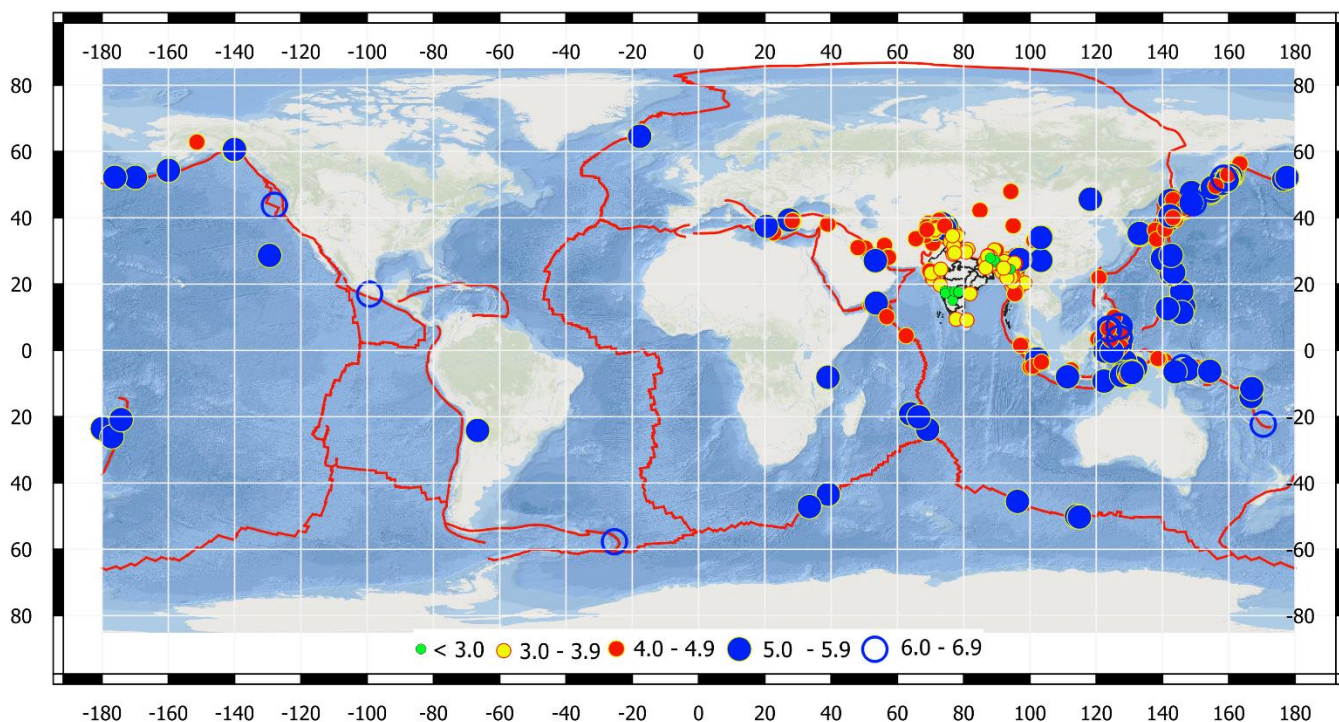


Figure 2: Earthquakes located and disseminated by NCS during 01st – 31st JAN 2026

2) Seismicity:

During the period, the majority of earthquakes within India and its neighbourhood region bounded by the coordinates 0-40°N & 60-100°E; were located in Hindu Kush region, North India (Ladakh, , Jammu-Kashmir, Himachal Pradesh and Uttarakhand), North East India (Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland, Tripura and Sikkim) as shown in **Figure 3**.

Few earthquakes of smaller magnitudes were also reported in northern (Shamali in Uttar Pradesh; Sonipat in Haryana and North Delhi and East Delhi in NCT Delhi); western (Udaipur in Rajasthan; Kachchh and Junagarh in Gujrat; Palghar, Satara, Sangali and Solapur in Maharashtra); eastern (Banka in Bihar and Alipurduar in West Bengal) and southern (Sangareddy, Medchal Malkajgiri in Telangana; East Godavari In Andhra Pradesh; Bidar, Ballari, Koppal and Vijayapura in Karnataka; Virudhunagar in Tamilnadu) part of country. **Twenty nine** earthquakes of smaller magnitude (**M < 3.0**) comprising **8%** of all earthquakes occurred during 01st to 31st January 2026. **Seven** earthquakes of magnitude **M:5.0 and above** occurred during the month in the region; as detailed in **Table:1**.

Out of total 378 earthquakes **21%**; **36%** and **33%** earthquakes occurred in the magnitude range **3.0-**

Table:1 Earthquakes of $M \geq 5.0$ occurred during January 2026 within India and its neighbourhood

SN	Date	Time (IST)	Lat($^{\circ}$ N)	Long($^{\circ}$ E)	D (KM)	M	Region
1	2026-01-05	04:17:40	26.37	92.29	50	5.1	Morigaon, Assam
2	2026-01-08	22:30:00	37.45	74.78	97	5.3	Tajikistan
3	2026-01-09	02:44:16	38.26	73.42	110	5.3	Tajikistan
4	2026-01-12	01:45:37	24.89	95.07	130	5.0	Myanmar
5	2026-01-13	14:10:22	36.58	71.33	158	5.0	Afghanistan
6	2026-01-19	11:51:14	36.71	74.32	171	5.7	Leh, Ladakh
7	2026-01-22	03:13:06	27.45	96.86	110	5.0	Changlang, Arunachal Pradesh

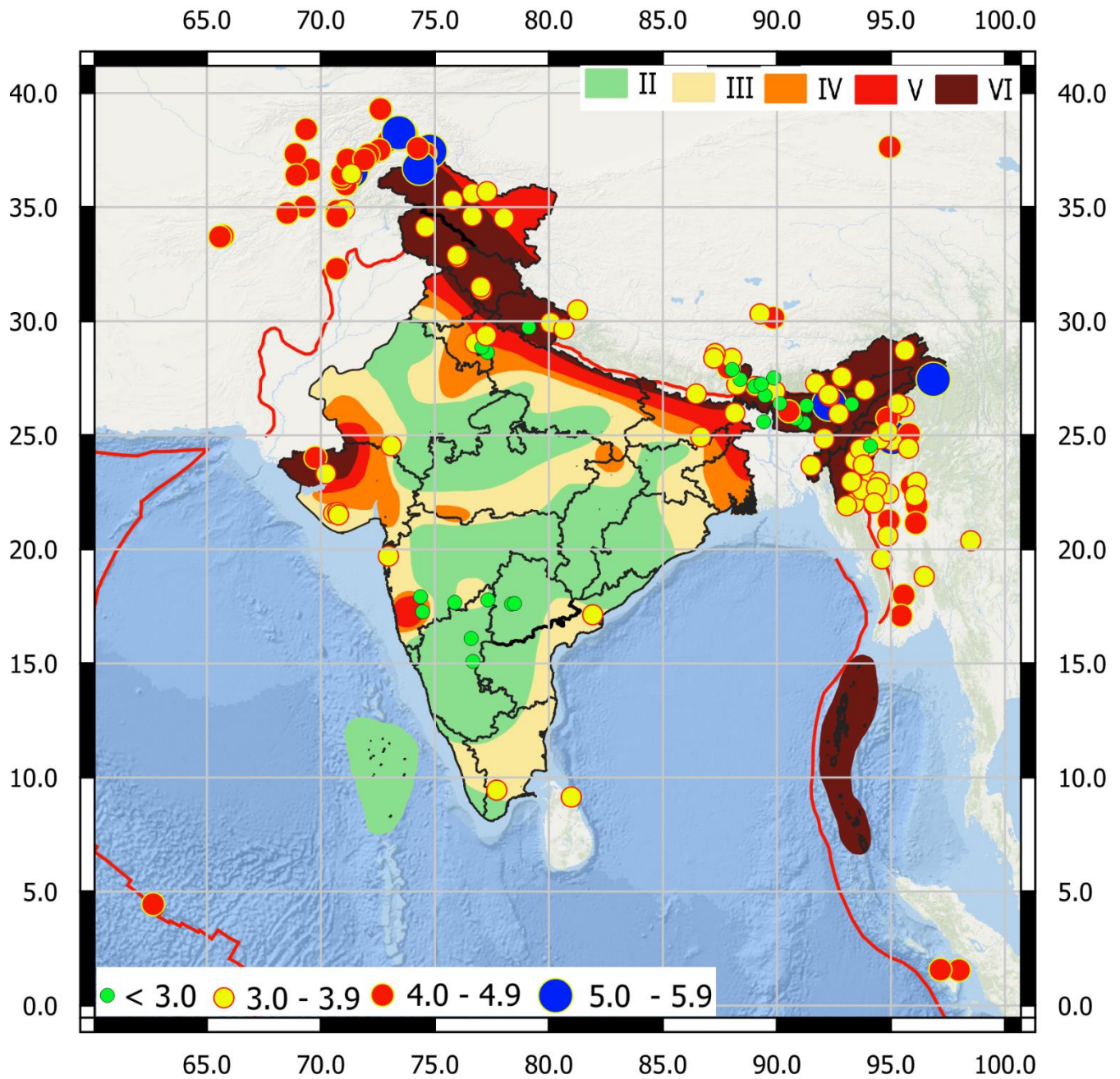


Figure 3: Map showing the seismicity during the period 01st – 31st JAN 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

3.9, 4.0-4.9 and 5.0-5.9 respectively. Ten earthquakes in the magnitude range 6.0-6.9 occurred during the period were outside the grid of 0- 40°N & 60-100°E as shown in **Figure 2** and **Figure 4(a)**. Details of earthquakes occurred during the month is available at www.seismo.gov.in

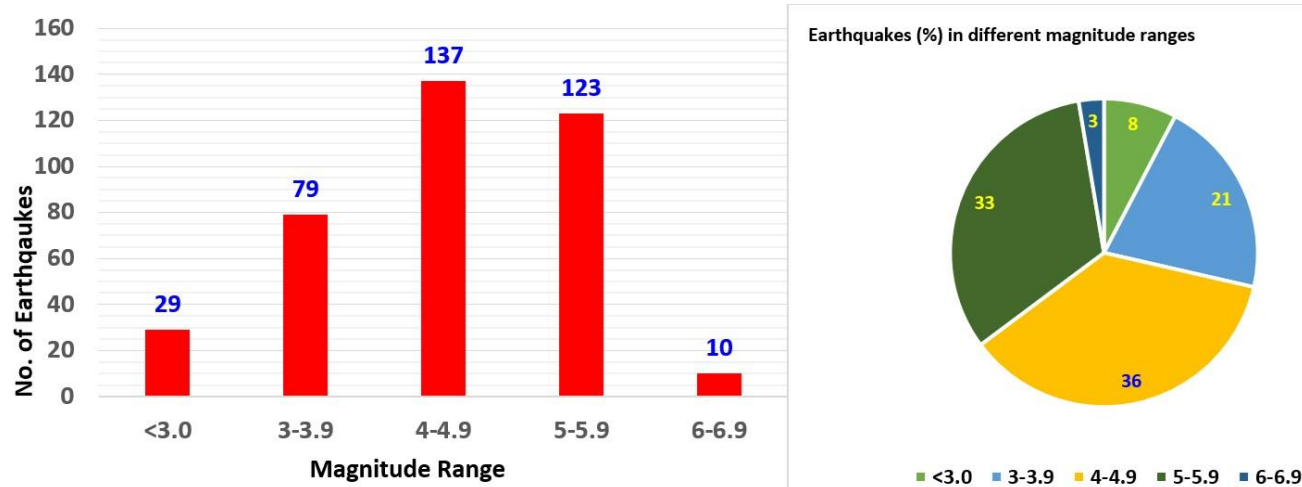


Figure 4 (a) : Distribution of earthquakes in the different magnitude range during 01st – 31st JAN 2026.

There is **negative change** in number of earthquakes in the magnitude ranges except of **3-3.9; 4 -4.9 and 7-7.9**. The change for different magnitude ranges with respect to previous month (December 2025) is shown in Figure 4 (b).

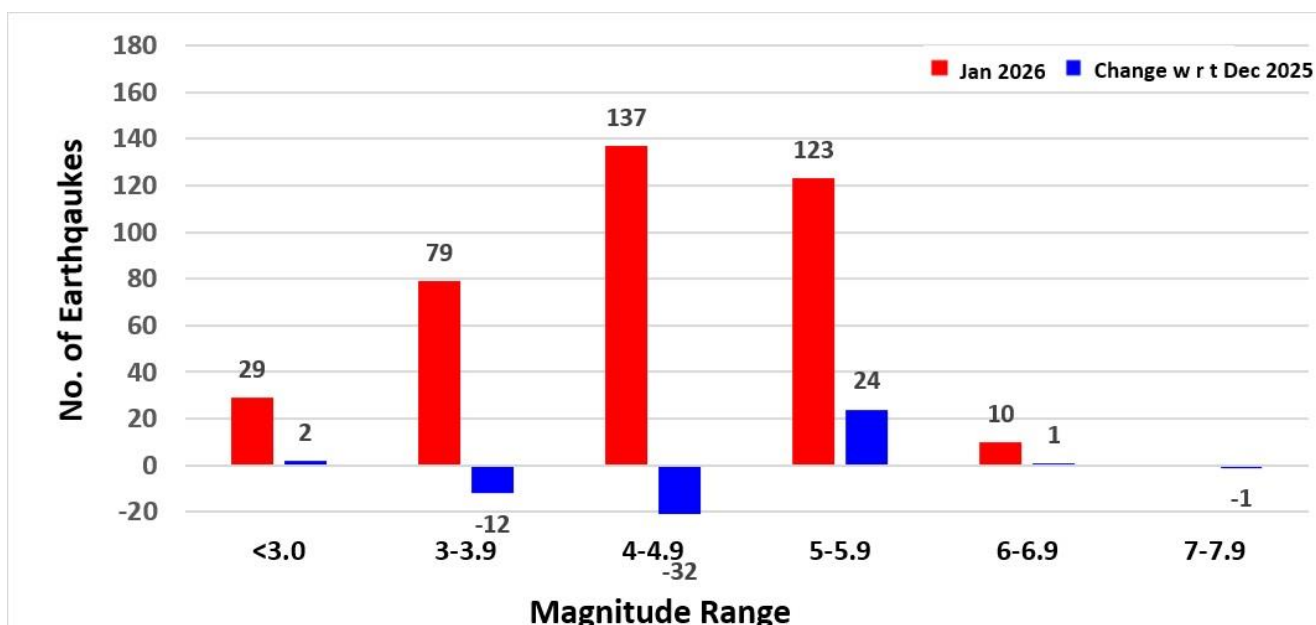


Figure 4 (b) : Change of occurrence of earthquakes in different magnitude ranges w r t previous month

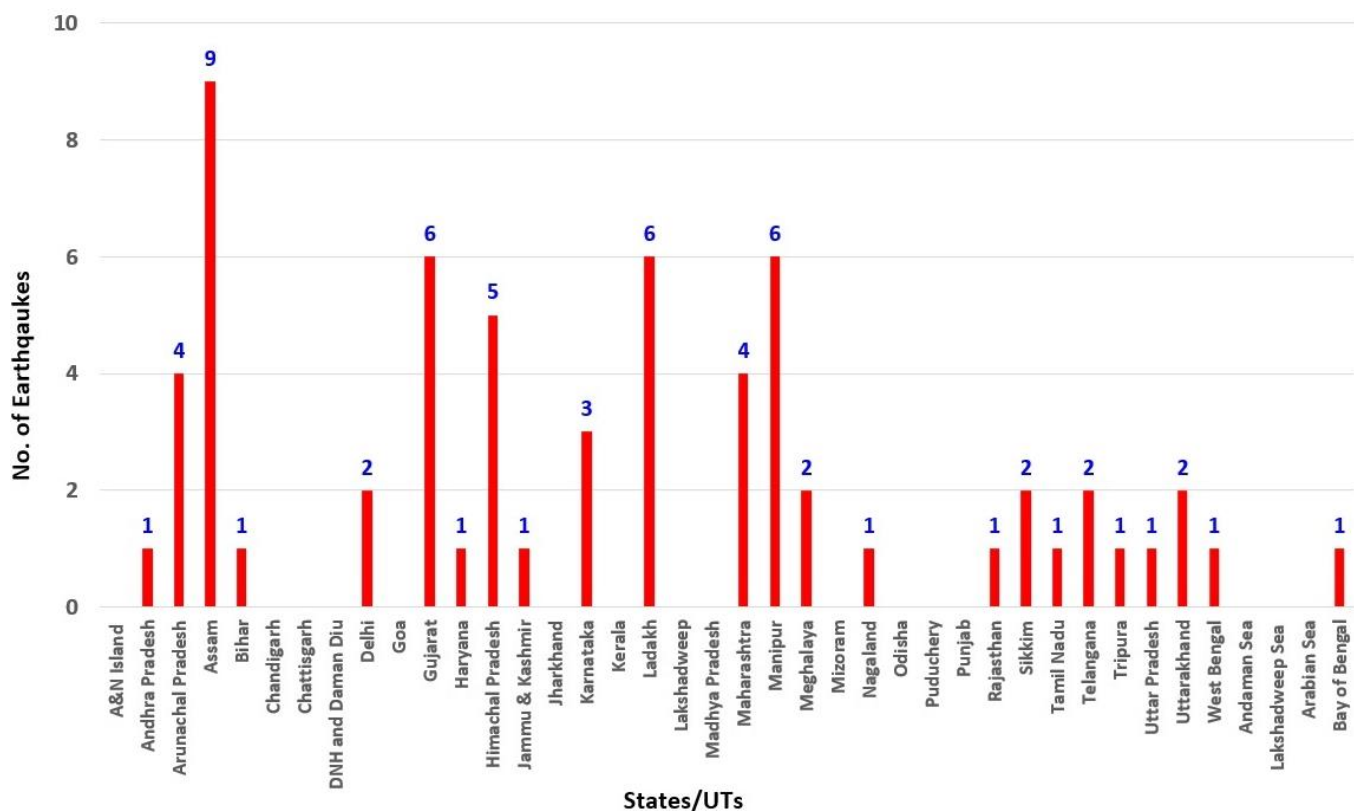


Figure 5: State wise distribution of earthquakes during the period 01st – 31st JAN 2026.

Total **64** earthquakes occurred within Indian territory; of which 9 earthquakes occurred in Assam, 6 each in Gujrat, Ladakh and Manipur during the period. Out of 64 earthquakes **18** and **25** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st – 31st January 2026 is shown in **Figure 5** and **Figure 7** respectively. There was no activity in central part of the country during 01st – 31st January 2026 (**Figure 3** and **Figure 6**).

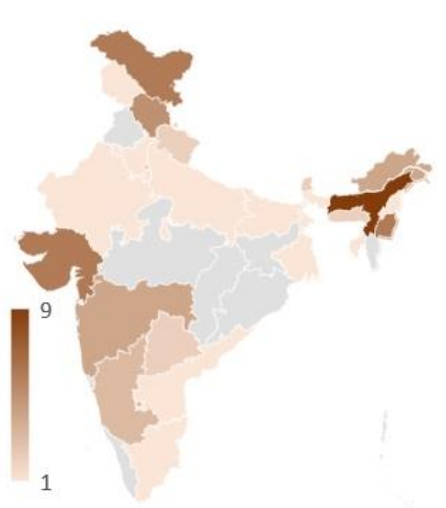


Figure: 6 Earthquake Density map

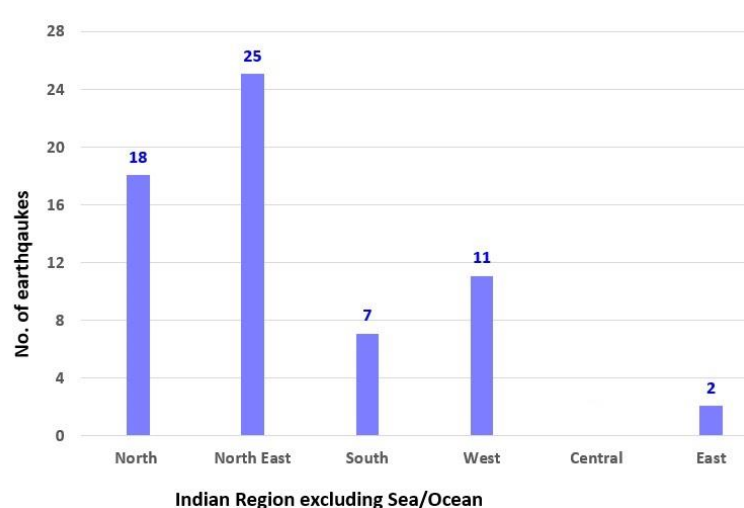


Figure: 7 Region wise distribution

3) Significant Activity:

A. Assam Earthquake: An earthquake of **M:5.1** occurred at **04:17:40 IST** of **05th JAN 2026** in Morigaon, Assam at 26.37° N and 92.29° E with focal depth of 50 km. The epicentre was approximately 40 Km W of Nagaon; 60 Km SW of Tezpur; 62 Km NE of Guwahati; 100 Km S of Bomdila and 105 Km E of Nalbari. This event occurred in the area which falls in Seismic Zone VI (Updated BIS map 2026) which is seismically active region and the event was widely felt in North-East region. The occurrence of earthquakes in the region is attributed mainly to the tectonic sources in the Himalaya such as Himalayan Frontal Thrust (HFT), Main Boundary Thrust (MBT) and main Central Thrust (MCT), Kopili Fault and Dhubari Fault. **Figure 8** depicts the expected intensity of this earthquake around the source zone. URL <https://riseq.seismo.gov.in/riseq/earthquake/event/ODYzYWp6Q0dvc1ZPQzRqL1hVTEJGQT09/Reviewed> may be visited for more details.

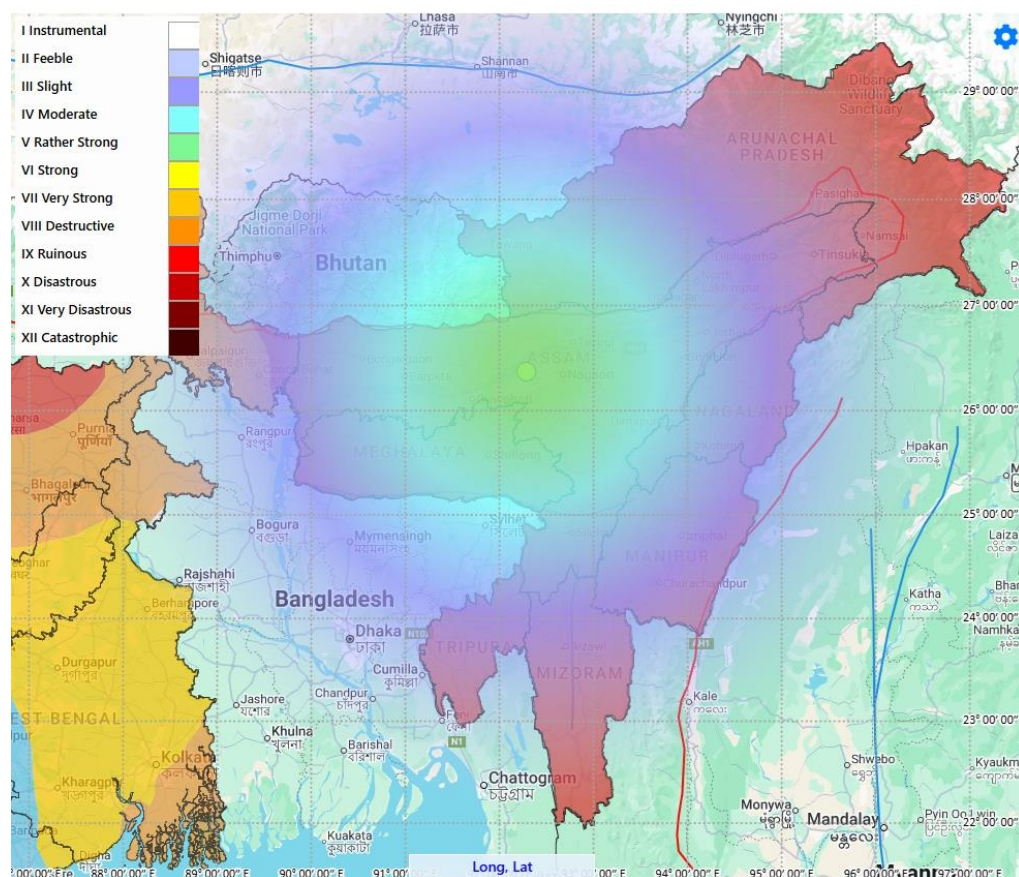


Figure 8: Intensity map of earthquake of M:5.1 occurred on 05th JAN 2026 in Assam

A. Ladakh Earthquake: An earthquake of magnitude **M 5.7** occurred at **11:51:14 IST** of **19th JAN 2026** in Leh, Ladakh at 36.71°N and 74.32°E with a focal depth of 171 km. The epicentre is about 88 km N of Gilgit; 190Km NNW of Skardu; 410 km NW of Leh; 520 Km NE of

Kabul(Afghanistan) and 530 Km SE of Dushanbe(Tajikistan). This earthquake was located in the collision zone of Indian and Eurasian plates. The occurrence of earthquakes in the region is attributed mainly to the tectonic sources in the Himalaya such as Himalayan Frontal Thrust (HFT), Main Boundary Thrust (MBT) and Main Central Thrust (MCT). This event occurred in the area which falls in Seismic Zone VI (Updated BIS map 2026) and is seismically active region. **Figure 9** depicts the expected intensity of this earthquake around the source zone. <https://riseq.seismo.gov.in/riseq/earthquake/event/c2pVejdUQ1IHLzdjMWg1SStieWVyQT09> /Reviewed URL may be visited for more details.

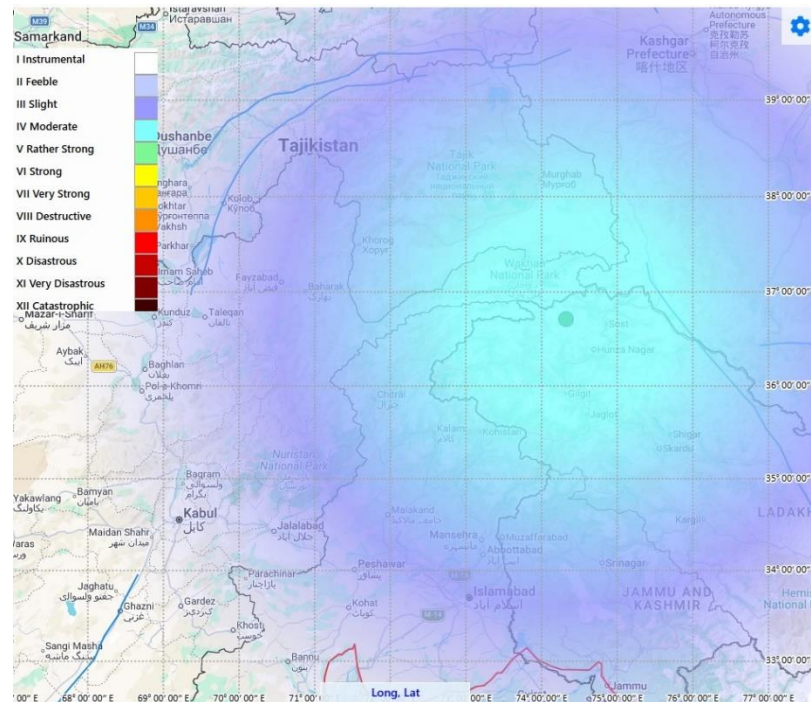
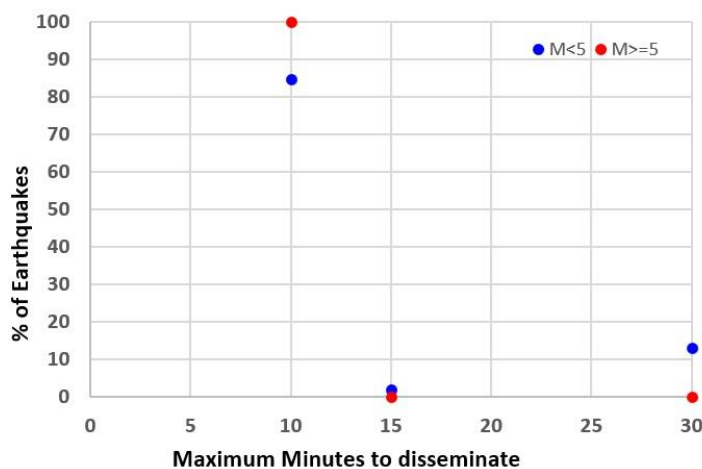


Figure 9: Intensity map of earthquake of M:5.7 occurred on 19th JAN 2026 in Ladakh

4) Dissemination Performance:



More than **80%** earthquakes of **M<5.0** and **100 %** earthquakes of **M>5.0** occurred within India and its neighbourhood region bounded by the coordinates 0-40°N & 60-100°E were disseminated within 10 minutes as shown in **Figure 11**.

Figure 10: Dissemination of earthquakes within different time ranges during 01st – 31st JAN 2026.