

Report on Real Time Earthquake Location

**From: Earthquake Monitoring Center (EMC) of NCS
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National Center for Seismology
Ministry of Earth Sciences
Government of India

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Report of Earthquakes occurred in the month of September 2026

1) Introduction:

National Center for Seismology maintains a National Seismological Network of **177 stations** each having state of art equipment and spreading all across the country (**Figure:1**). Using these stations during the period 01st – 30th September 2026 a total number of **349** earthquakes have been located

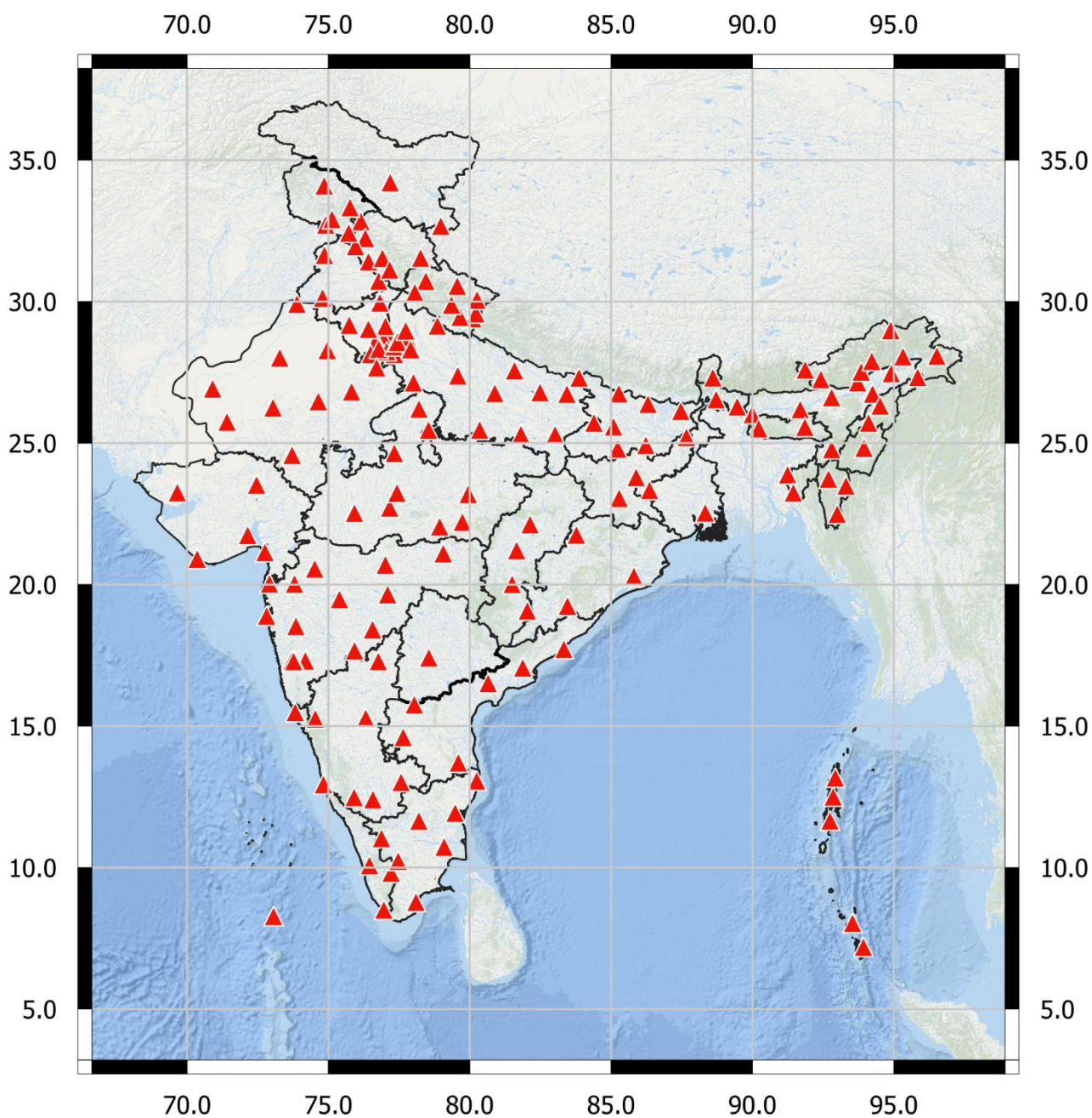


Figure 1: National Seismological Network (NSN) of 177 Stations

and disseminated from the center (**Figure:2**), out of which **237** earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0° - 40°N & 60°-100°E (**Figure:3**).

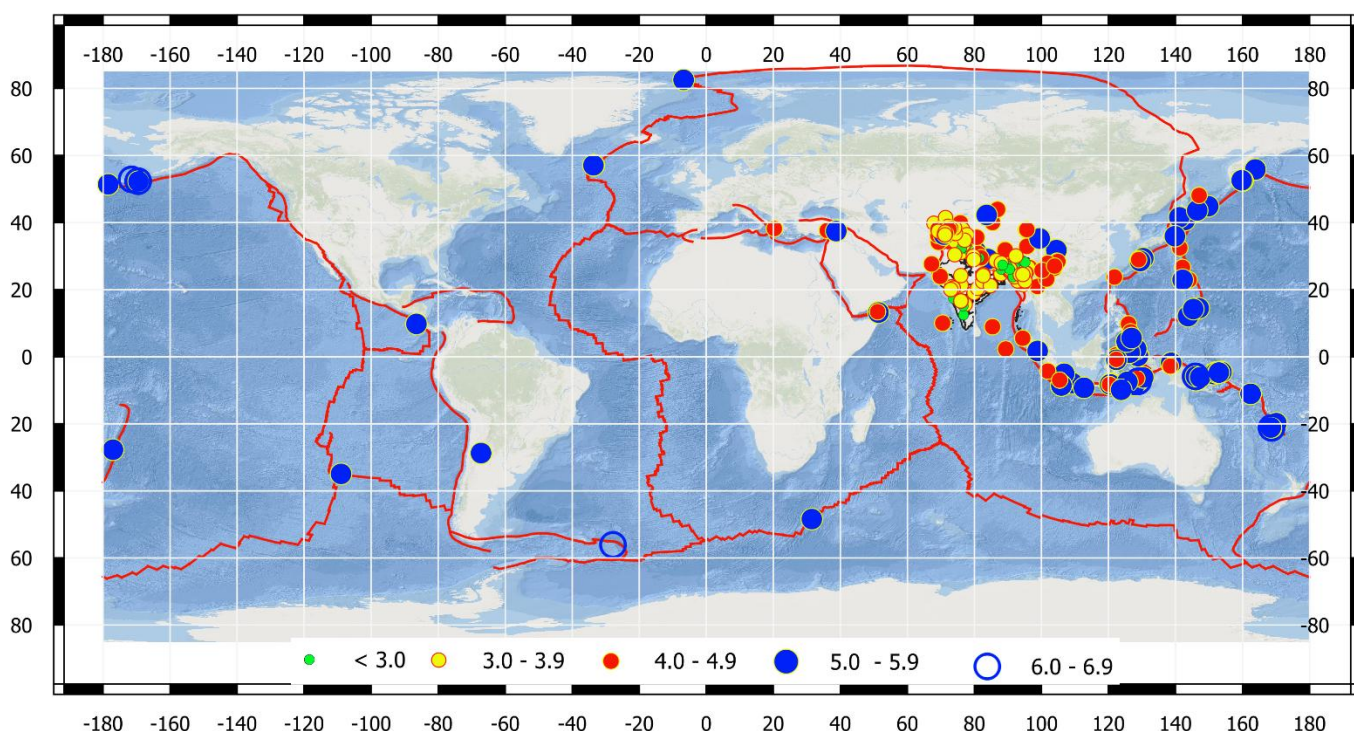


Figure 2: Earthquakes located and disseminated by NCS during 01st –30th September 2026

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 **North-East India** (Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Sikkim and Tripura), **North India** (Himachal Pradesh, Uttarakhand, Ladakh, and Jammu-Kashmir) and Hindu Kush region as shown in **Figure 3**.

Other smaller magnitude earthquakes were reported in the **Northern** (Shahid Bhagat Singh Nagar in Punjab); **Western** (Kachchh and Surat in Gujarat; Jalgaon, Nashik, Gadchiroli, Palghar and Satarain Maharashtra; Jhalawar in Rajasthan); **Eastern** (Deoghar in Odisha; Shahibganj in Jharkhand; Alipurduar, Murshidabad and Uttar Dinajpur in West Bengal); **Central** (Singrauli in Madhya Pradesh; Korba, Uttar bastar Kanker in Chhatisgarh) and **Southern** (Kurnool in Andhra Pradesh; Ballari; Ganangoru and Vijayapur in Karnataka) part of the country.

Fifty three earthquakes of smaller magnitude (**M < 3.0**) comprising **15%** of all earthquakes occurred during 01st to 30th September 2026. **Six earthquakes** of magnitude **M:5.0** and above occurred during the month in the region; as detailed in **Table:1**.

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

S.N.	Date (IST)	Time (IST)	Lat ($^{\circ}$ N)	Long ($^{\circ}$ E)	D (Km)	M	Region
1	2026-09-03	13:46:38	31.479	80.37	14	5.0	Tibet
2	2026-09-04	21:54:41	1.716	98.887	98	5.1	Indonesia
3	2026-09-08	21:38:36	29.124	84.022	9	5.0	Nepal
4	2026-09-22	16:59:41	36.414	70.933	175	5.0	Afghanistan
5	2026-09-23	11:16:09	37.068	71.894	125	5.1	Tajikistan
6	2026-09-27	22:13:12	35.255	99.483	20	5.0	China

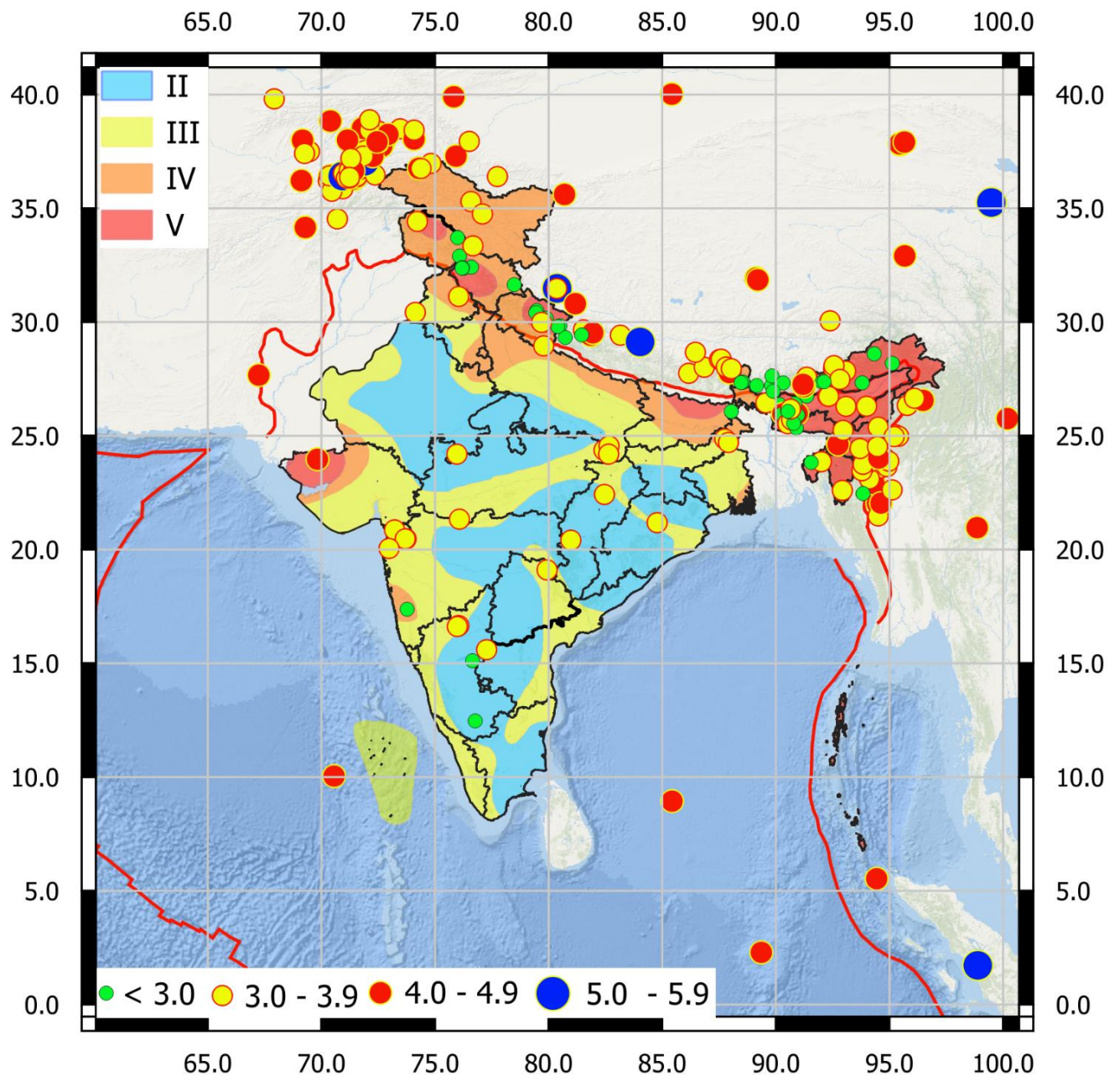


Figure 3: Map showing the seismicity during the period 01st – 30th September 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

Out of total **349** earthquakes **34%**; **26%** and **23%** earthquakes occurred within the magnitude range of **3.0-3.9**, **4.0-4.9**, and **5.0-5.9**, respectively. **Six** earthquakes in the magnitude range between **6.0–6.9** occurred; were outside the grid **0–40°N** and **60–100°E** as shown in **Figures 2** and **4(a)**. The details of earthquakes occurred during the month is available at www.seismo.gov.in

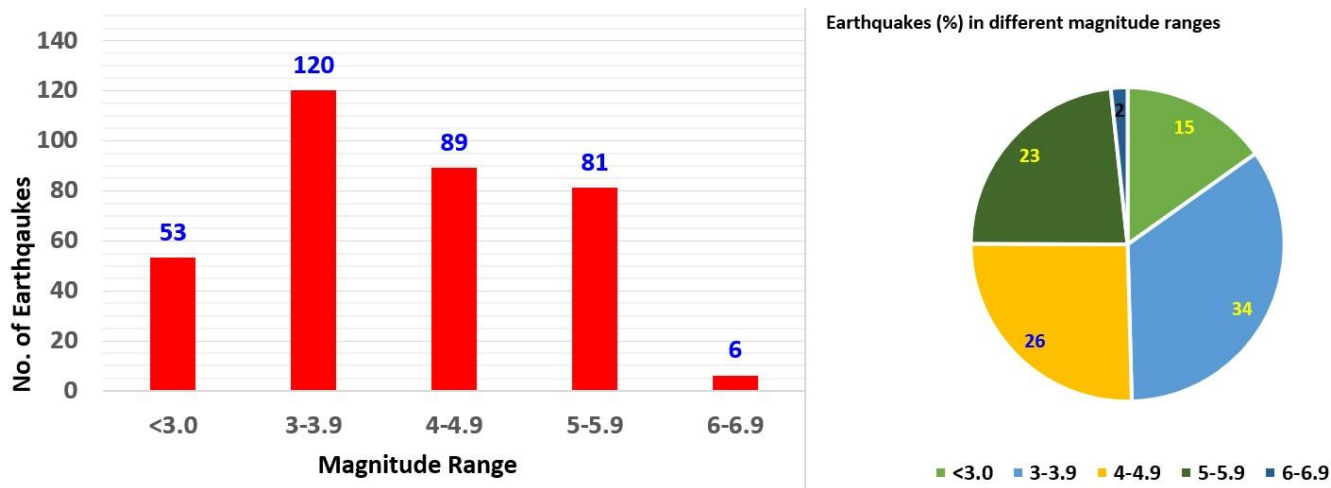


Figure 4 (a): Distribution of earthquakes in the different magnitude range during 01st – 30 September 2026.

There is **negative change** overall in the number of earthquakes except in the magnitude ranges of **3.0-3.9**. The change in earthquake occurrence for each magnitude range relative to the previous month is shown in **Figure 4(b)**.

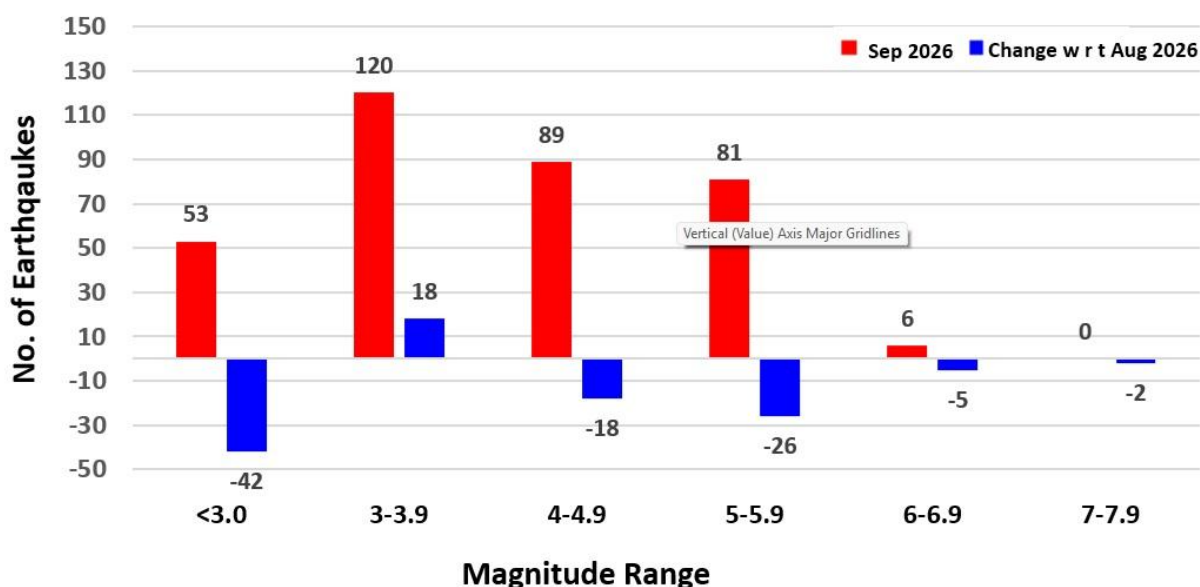


Figure 4 (b): Change of occurrence of earthquakes in different magnitude ranges w.r.t previous month.

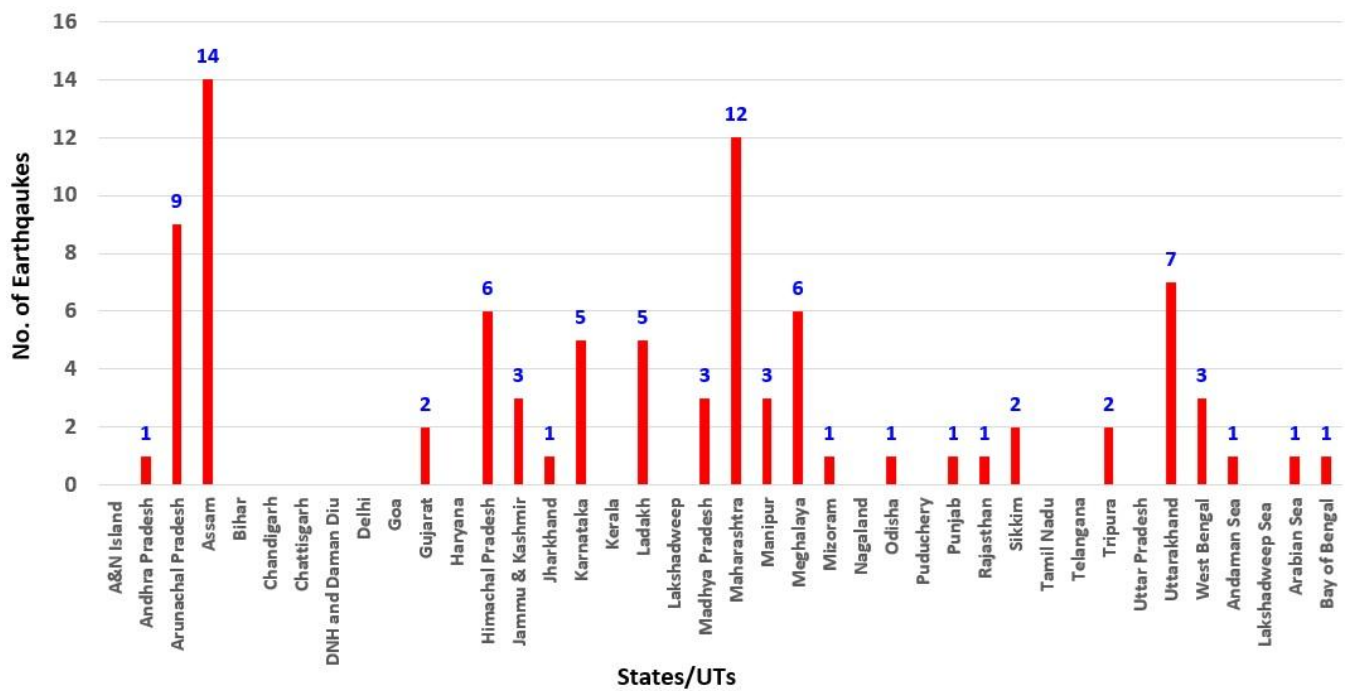


Figure 5: State wise distribution of earthquakes during the period 01st – 30th September 2026.

Total **91** earthquakes occurred within Indian territory; out of which **14** earthquakes occurred in Assam, **12** in Maharashtra and **9** in Arunachal Pradesh during the period. Out of 91 earthquakes **22** and **37** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st – 30th September 2026 is shown in **Figure 5** and **Figure 7** respectively. There was sparse activity in central, eastern and southern part of the country during 01st – 30th September 2026 (**Figure 3** and **Figure 6**).

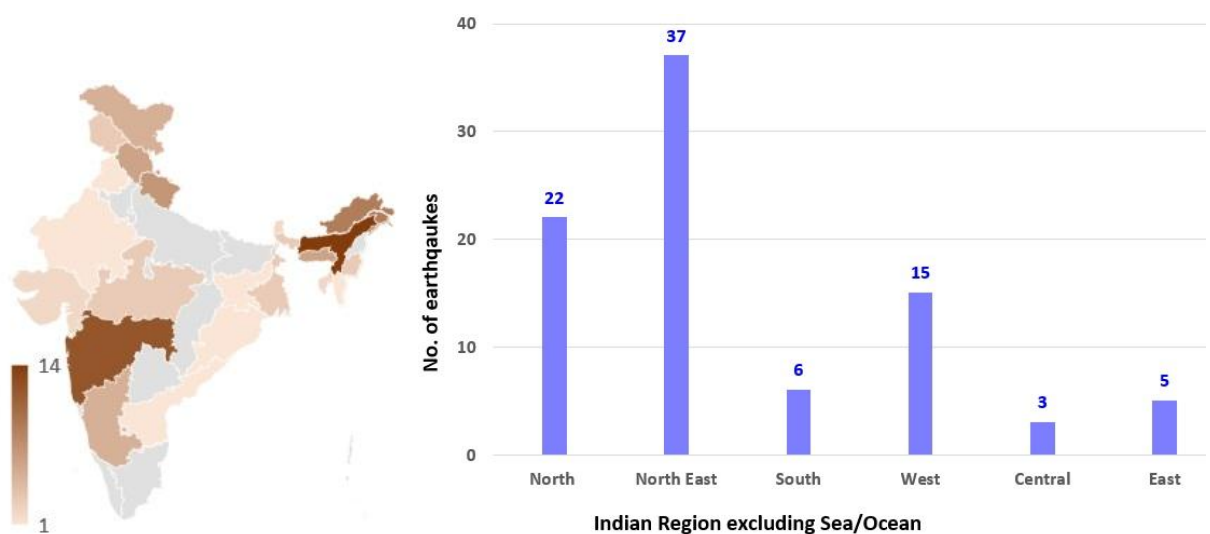


Figure: 6 Earthquake Density map

Figure: 7 Region wise distribution

3) Significant Activity:

A. Nepal Earthquake: An earthquake of magnitude **M:5.0** occurred on **08th September 2026** at **21:38:36 IST** in **Nepal**, with the epicentre at **29.124 °N**, and **84.022 °E** at a focal depth of **9 km**. The epicentre was about 10km S of Samjhong(Nepal), 200 km NW of Kathmandu (Nepal), 360 km E of Pithoragarh and 390 km NE of Lucknow. This earthquake occurred on Main Central Thrust(MCT) which is in the collision zone of Indian and Eurasian plate. This earthquake was widely felt in the region. **Figure 8** depicts the expected intensity of this earthquake around the source zone. Following URL may be visited for more details.

<https://riseq.seismo.gov.in/riseq/earthquake/event/Ti9HQzVSMXhiUDMwajl0Qzd2My9ndz09/Reviewed>

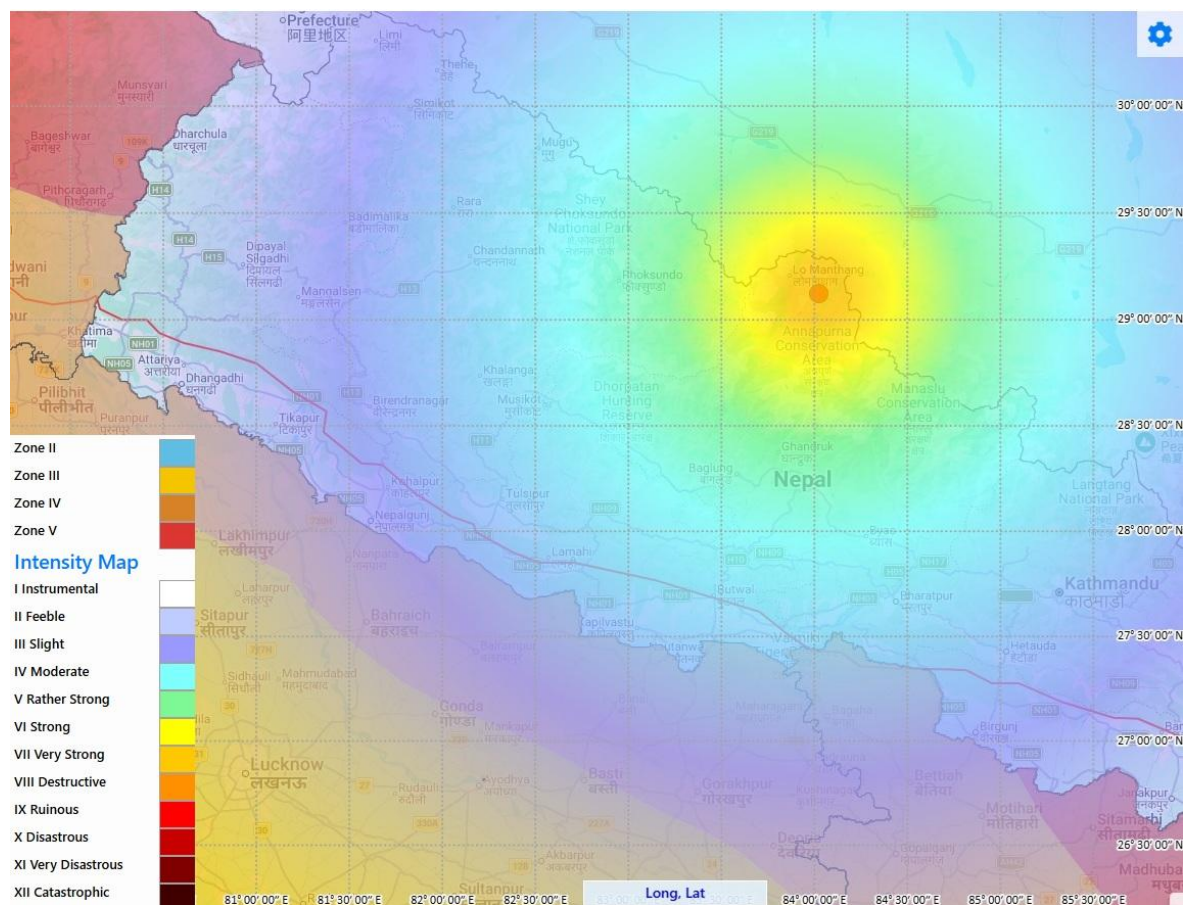
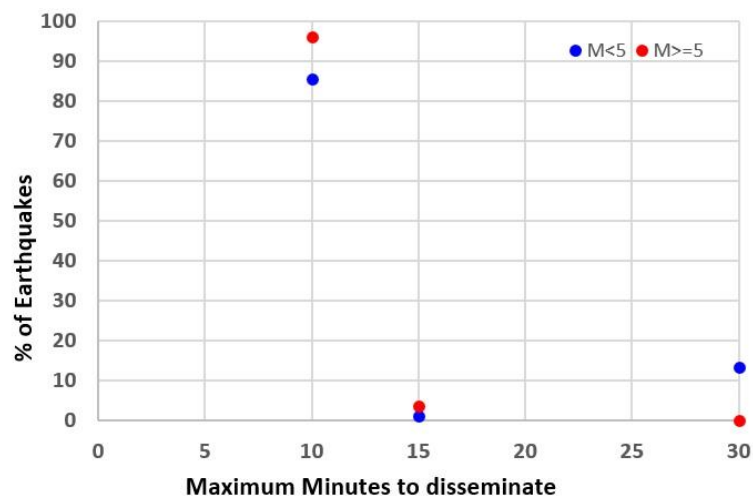


Figure 8: Intensity map of earthquake of M:5.4 occurred on 08th September 2026 in Nepal.

4) Dissemination Performance:



More than **80%** earthquakes of **$M < 5.0$** and more than **90%** earthquakes of **$M \geq 5.0$** occurred within India and its neighbourhood region bounded by the coordinates $0-40^\circ\text{N}$ & $60-100^\circ\text{E}$ were disseminated within **10 minutes** as shown in **Figure 9**.

Figure 9: Dissemination of earthquakes within different time ranges during 01st – 30th September 2026.