

Report on Real Time Earthquake Location

**From: Earthquake Monitoring Center (EMC) of NCS
(R. K. Singh, S. K. Prajapati, Vedprakash Thakur, Prashant Chingtham, Narendra Pandey, Auchitya Pandey, Mukesh Das and Javed Raoof)**

National Center for Seismology
Ministry of Earth Sciences
Government of India

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Report of Earthquakes occurred in the month of July 2026

1) Introduction:

National Center for Seismology maintains a National Seismological Network of **174 stations** each having state of art equipment and spreading all across the country (**Figure:1**). Using these stations during the period 01st – 31st July 2026 a total number of **382** earthquakes have been located

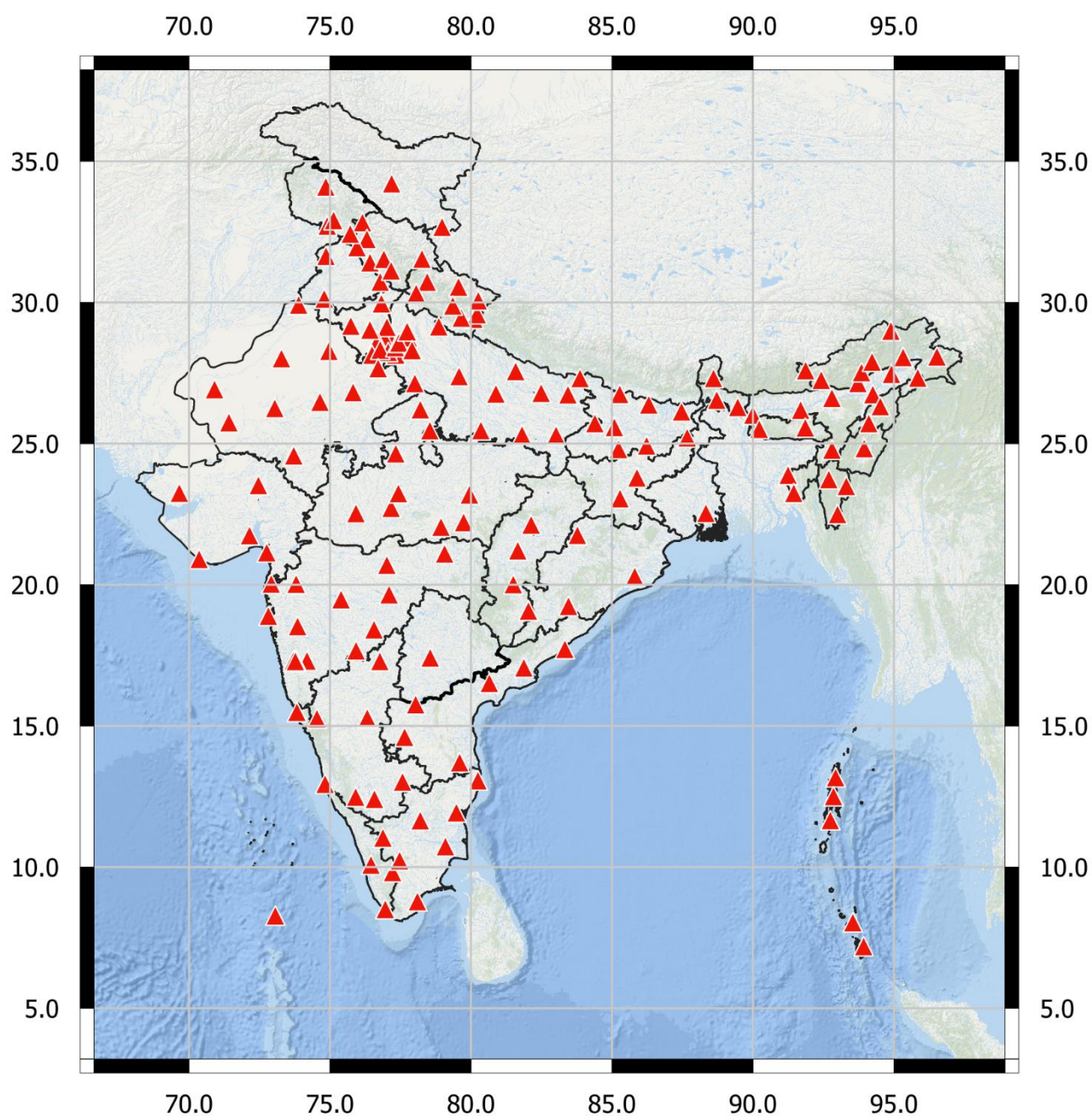


Figure 1: National Seismological Network (NSN) of 174 Stations

and disseminated from the center (**Figure:2**), out of which **256** earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0° - 40°N & 60°-100°E (**Figure:3**).

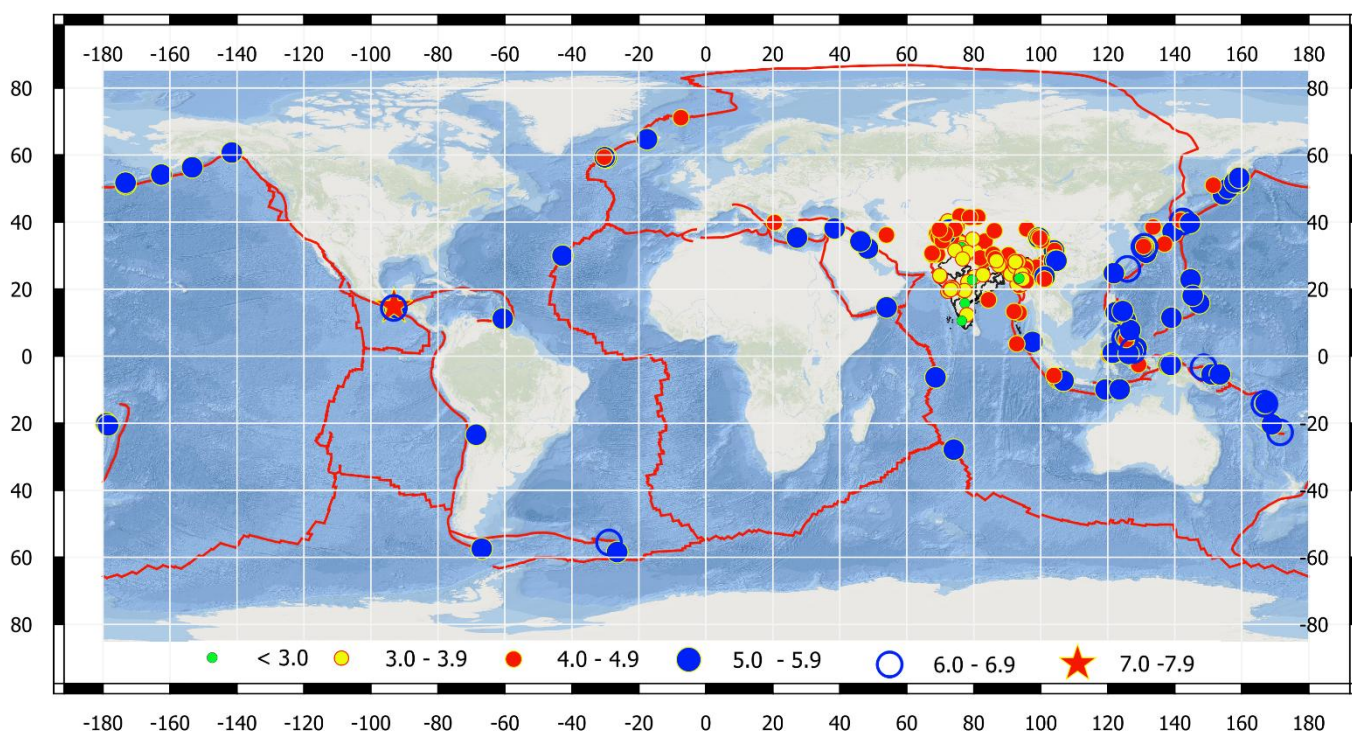


Figure 2: Earthquakes located and disseminated by NCS during 01st –31st JULY 2026

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, Nagaland, and Sikkim), **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** (Jhajjar in Haryana); **Western** (Ajmer, Barmer and Rajasmand in Rajasthan; Navsari and Kachchh in Gujarat; Palghar, Pune, Nagpur, Satara, Yavatmal and Hingoli in Maharashtra); **Eastern** (Jalpaiguri and Alipurduar in West Bengal); **Central** (Singraulli and Betul in Madhya Pradesh; Korba and Janjgir Champa in Chhatisgarh) and **Southern** (Bhadradi Kothagudem in Telengana; Kurnool in Andhra Pradesh and Vijayapura in Karnataka) part of the country.

Eighty Seven earthquakes of smaller magnitude (**M < 3.0**) comprising **20%** of all earthquakes occurred during 01st to 30th JULY 2026. **Ten 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 July 2026 within India and its neighbourhood

S.N.	Date (IST)	Time (IST)	Lat ($^{\circ}$ N)	Long ($^{\circ}$ E)	D (Km)	M	Region
1	2026-07-01	23:27:00	36.443	70.391	173	5.5	Afghanistan
2	2026-07-18	16:06:17	37.779	72.681	146	5.4	Tajikistan
3	2026-07-22	09:48:25	4.231	97.531	30	5.0	Indonesia
4	2026-07-27	23:16:59	36.454	71.54	124	5.1	Afghanistan
5	2026-07-28	08:46:13	35.244	99.366	45	5.5	China
6	2026-07-28	09:04:09	35.368	99.337	64	5.5	China
7	2026-07-28	13:34:10	35.352	99.45	10	5.2	China

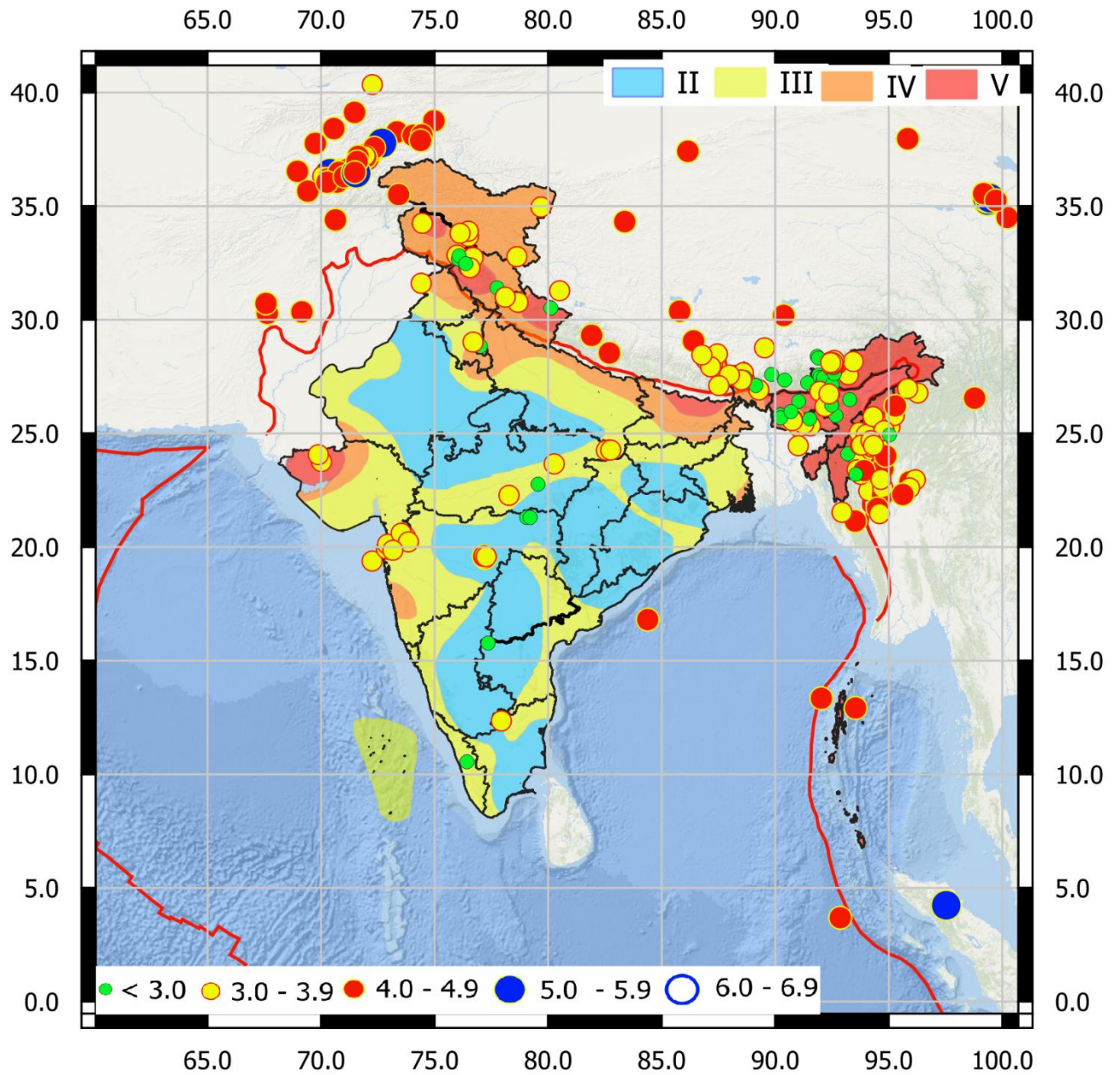


Figure 3: Map showing the seismicity during the period 01st – 30th JULY 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

Out of total **382** earthquakes **33%**; **24%** and **24%** earthquakes occurred within the magnitude range of **3.0-3.9**, **4.0-4.9**, and **5.0-5.9**, respectively. **Ten** earthquakes in the magnitude range between **6.0–6.9** and one earthquake of **M: 7.1** occurred during the period and all 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 .

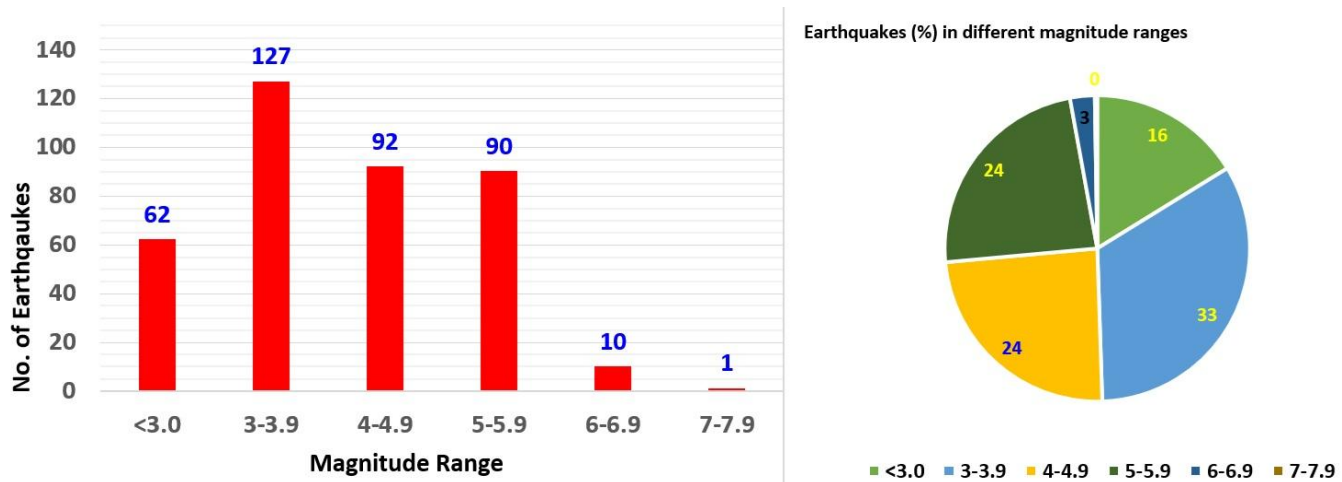


Figure 4 (a): Distribution of earthquakes in the different magnitude range during 01st – 31st JULY 2026.

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)**.

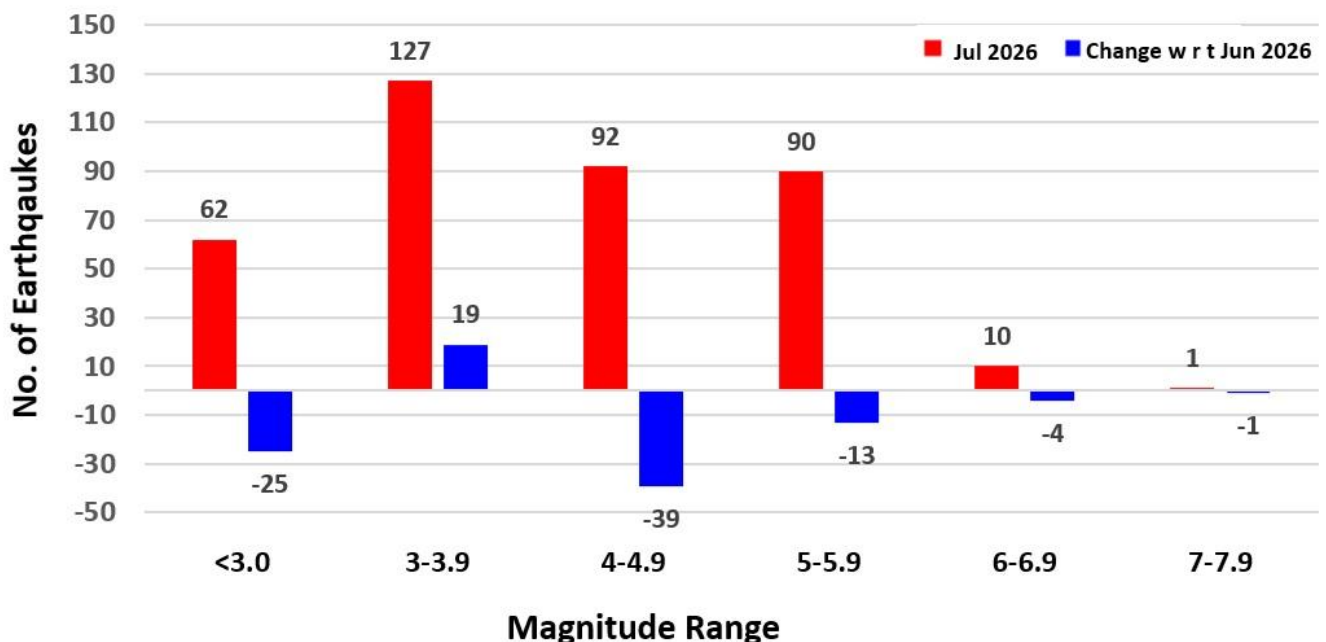


Figure 4 (b): Change of occurrence of earthquakes in different magnitude ranges w.r.t previous month.

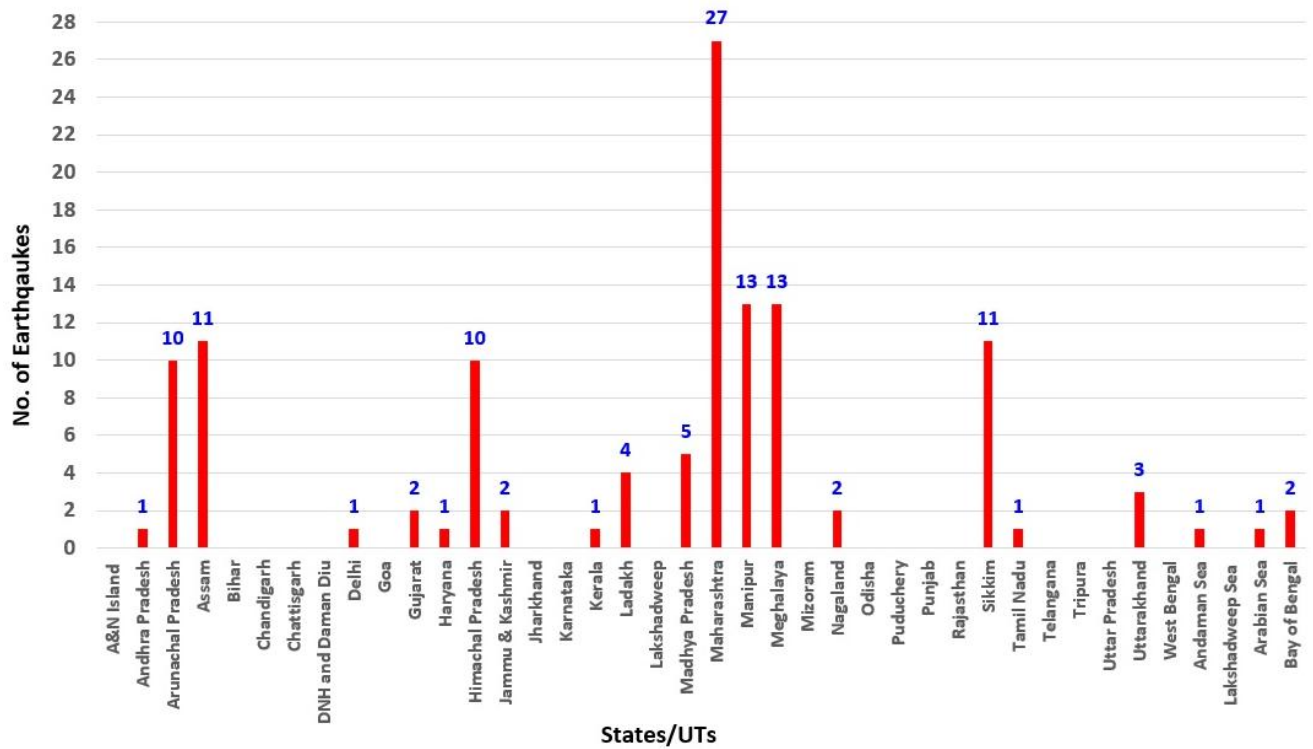


Figure 5: State wise distribution of earthquakes during the period 01st – 31st JULY 2026.

Total **122** earthquakes occurred within Indian territory; out of which **27** earthquakes occurred in Maharashtra , **13** each in Manipur and Meghalaya Arunachal Pradesh and **11** each in Assam and Sikkim during the period. Out of 122 earthquakes **21** and **60** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st– 31st July 2026 is shown in **Figure 5** and **Figure 7** respectively. There was no activity in eastern part of the country during 01st– 31st July 2026 (**Figure 3** and **Figure 6**).

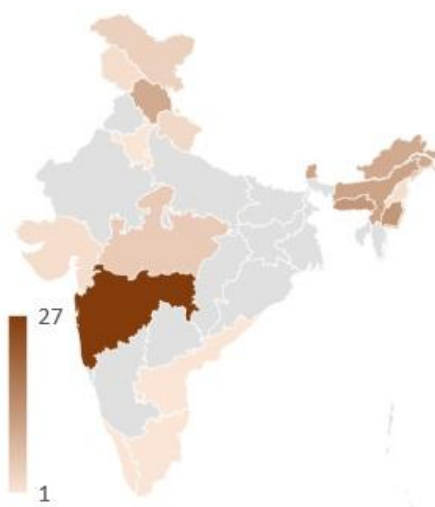


Figure: 6 Earthquake Density map

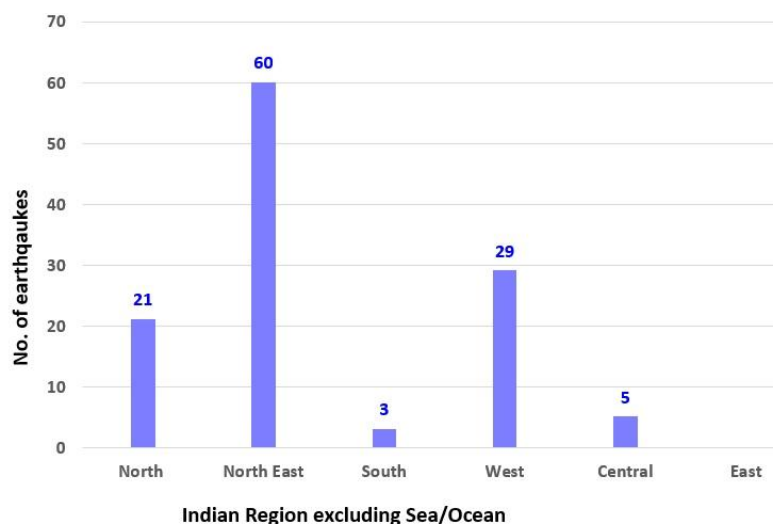


Figure: 7 Region wise distribution

3) Significant Activity:

- A. Hingoli EarthquakeS:** An earthquake of magnitude **M 4.6** occurred on **09th July 2026** at **01:37:26 IST** in **Hingoli, Maharashtra**, with the epicenter at **19.518 °N**, and **77.215 °E** at a focal depth of **10 km**. The epicenter was about 132 km S of Akola, 143 km NW of Latur, 247 km NE of Solapur, 265 km SE of Nagpur, and 275 km NW of Hyderabad, which lies in Zone II as per seismic zoning map of India. Also, there was three consecutive earthquakes were reported near the mainshock of magnitude **4.1, 3.9** and **3.6** within a period of three hours from this mainshock. The epicentre of the earthquake lies near the NW-SE Kinnerasari Godavari Fault, a major normal fault in the region. 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/interactive/index/WjVxVWcybG5MVGJoV3ZQMS9yaWQ1QT09/Reviewed>

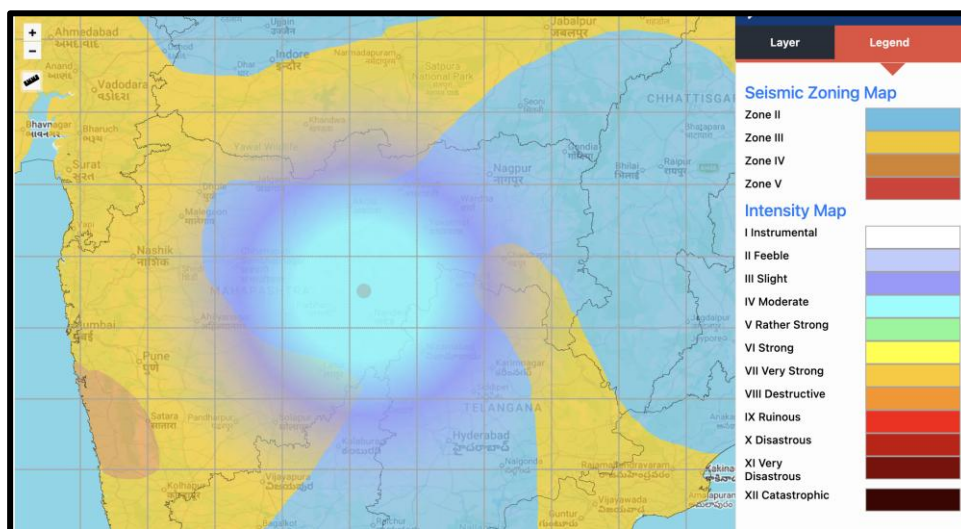


Figure 8: Intensity map of earthquake of M:4.6 occurred on 09th July 2026 in Hingoli, Maharashtra.

- B. Nashik Earthquakes:** Total 13 smaller magnitude earthquakes between M:2.8 to M:3.9 occurred near Dindori Taluka, Nashik District, Maharashtra during 25th to 31st Jul 2026. Out of 13 7 earthquakes have magnitude of M:3.5 – M:3.9; 4 are in the range of: 3.0 – M:3.4 and 2 were of M<3.0

This sequence represents an earthquake swarm, characterized by a cluster of earthquakes occurring over a short period, without a single dominant earthquake. Such swarms are generally associated with local stress adjustments or transient processes, such as seasonal

rainfall-induced changes in pore pressure. Similar earthquake swarm activities have previously been reported in Palghar (Maharashtra), Jamnagar, Talala, Botad, and Navsari (Gujarat), Seoni (Madhya Pradesh), and Kalaburagi and Vijayapura (Karnataka) during and after the monsoon periods. These regions are largely situated within the Deccan Volcanic Province and are characterized by thick, fractured basaltic rocks, which are considered conducive to rainfall-induced earthquake swarm activity. Spatial and temporal distribution of swarm activity is shown at **Figure 9 and Figure 10**

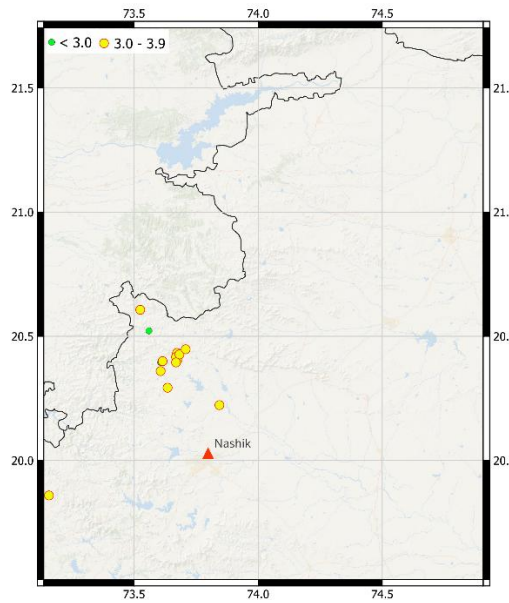
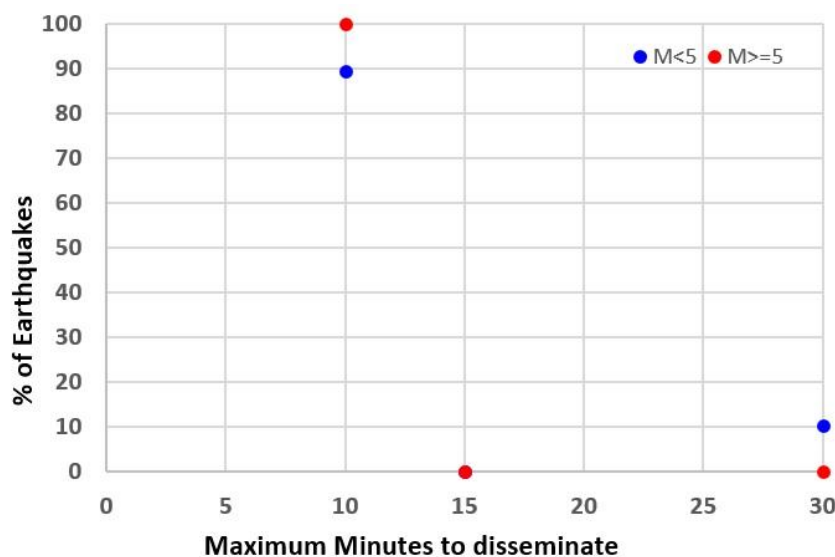


Figure: 9 Sapatial Distribution map



Figure: 10 Temporal Distribution

4) Dissemination Performance:



About **90%** 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 11: Dissemination of earthquakes within different time ranges during 01st – 31st JULY 2026.