

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

Month: AUGUST 2026
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Report of Earthquakes occurred in the month of August 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 – 31st August 2026 a total number of **424** earthquakes have been located

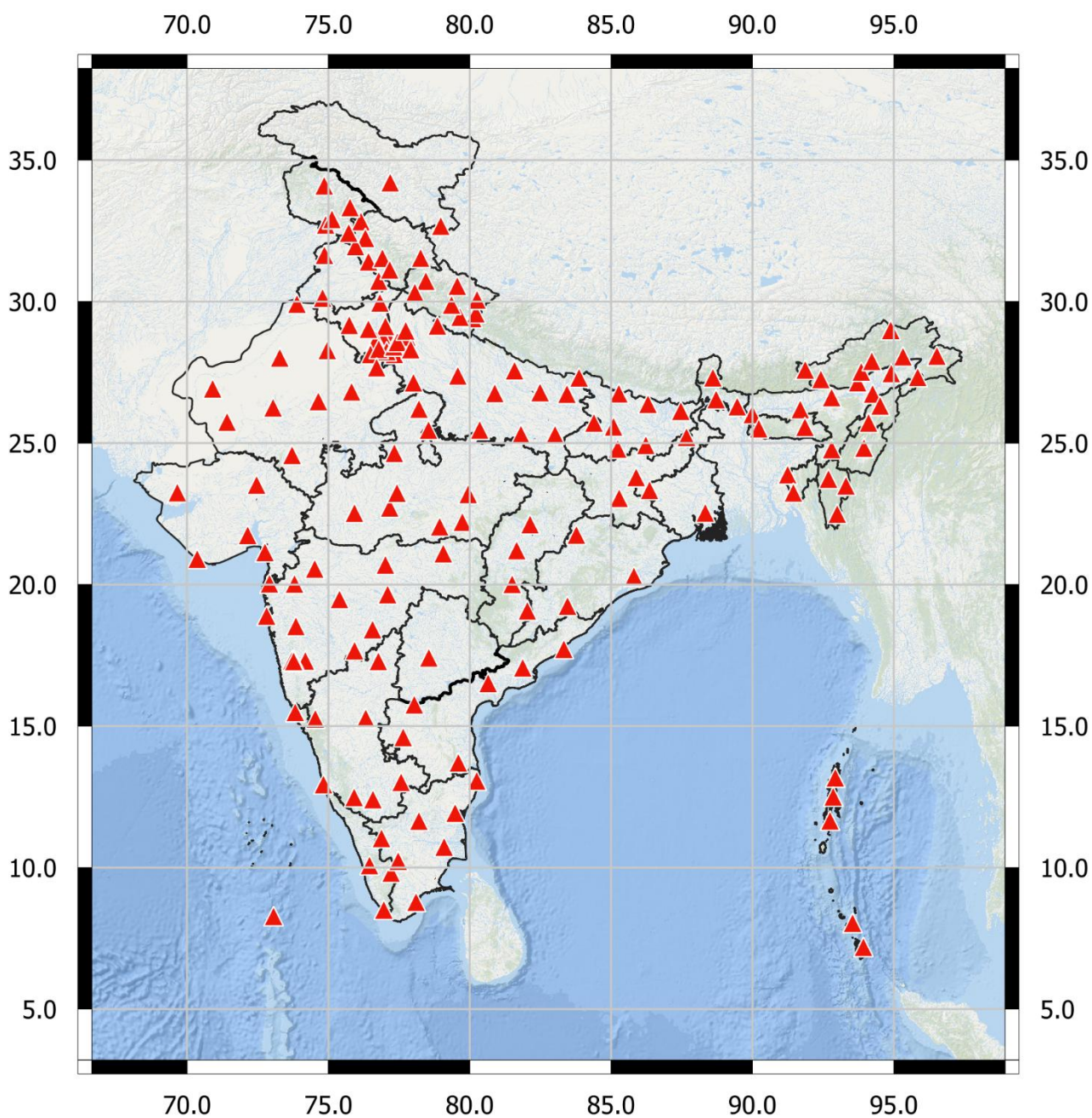


Figure 1: National Seismological Network (NSN) of 177 Stations

and disseminated from the center (**Figure:2**), out of which **268** earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0° - 40°N & 60°-100°E (**Figure:3**).

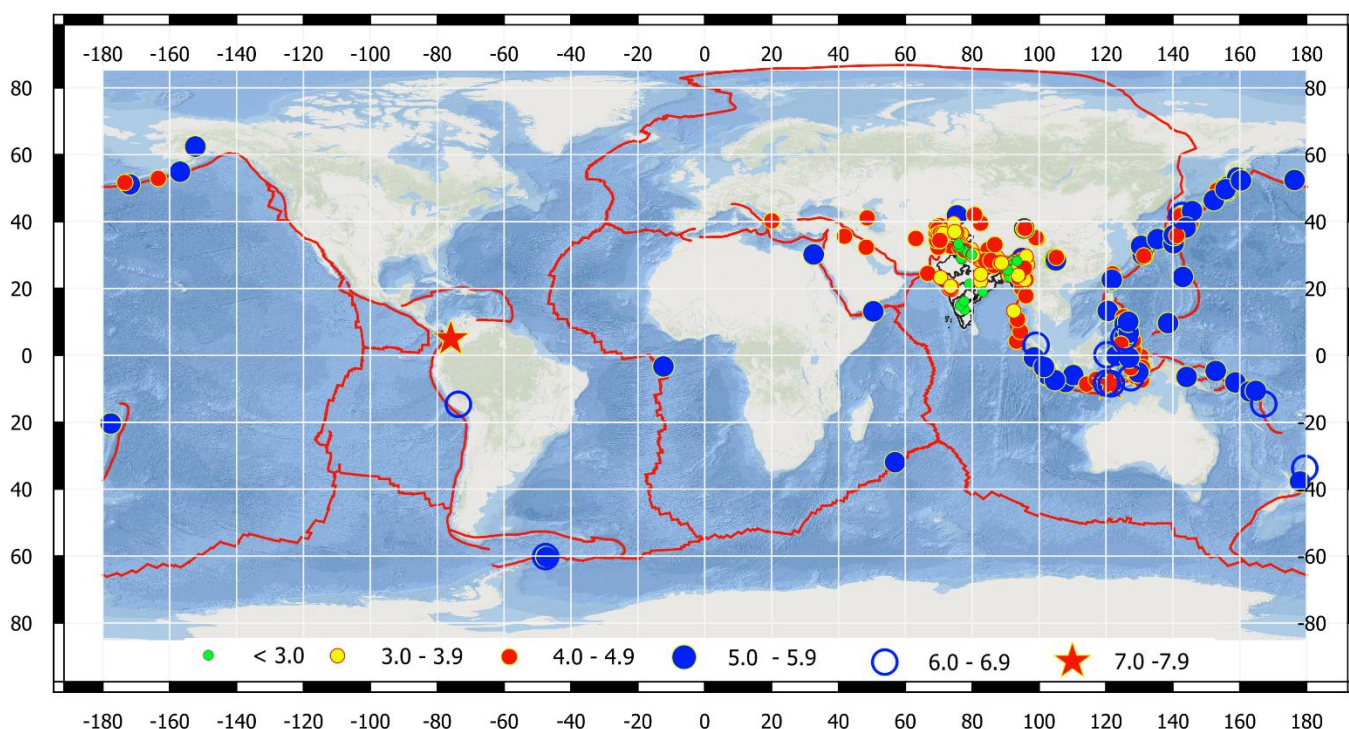


Figure 2: Earthquakes located and disseminated by NCS during 01st –31st AUGUST 2026

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** (Rohtak in Haryana and North Delhi, Delhi); **Western** (Kachchh in Gujarat; Palghar, Nagpur and Nashik in Maharashtra); **Eastern** (Korput in Odisha; Jalpaiguri and Alipurduar in West Bengal); **Central** (Singrauli in Madhya Pradesh; Champa in Chhatisgarh) and **Southern** (Jogulamba Gadwal in Telengana; Ballari and Vijayanagar in Karnataka) part of the country.

Ninety Five earthquakes of smaller magnitude (**M < 3.0**) comprising **22%** of all earthquakes occurred during 01st to 31st AUGUST 2026. **Seven 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 August 2026 within India and its neighbourhood

S.N.	Date (IST)	Time (IST)	Lat ($^{\circ}$ N)	Long ($^{\circ}$ E)	D (Km)	M	Region
1	2026-08-05	05:42:02	22.209	94.246	152	5.0	Myanmar
2	2026-08-05	15:36:11	29.008	94.739	17	5.4	Upper Siang, Arunachal Pradesh
3	2026-08-06	05:45:17	29.124	94.856	11	5.1	Upper Siang, Arunachal Pradesh
4	2026-08-13	06:05:15	36.881	74.402	10	5.5	Leh, Ladakh
5	2026-08-15	16:24:50	3.043	99.105	165	6.5	Indonesia
6	2026-08-19	01:21:09	36.41	70.799	181	5.0	Afghanistan
7	2026-08-19	03:06:26	37.951	95.564	10	5.3	China

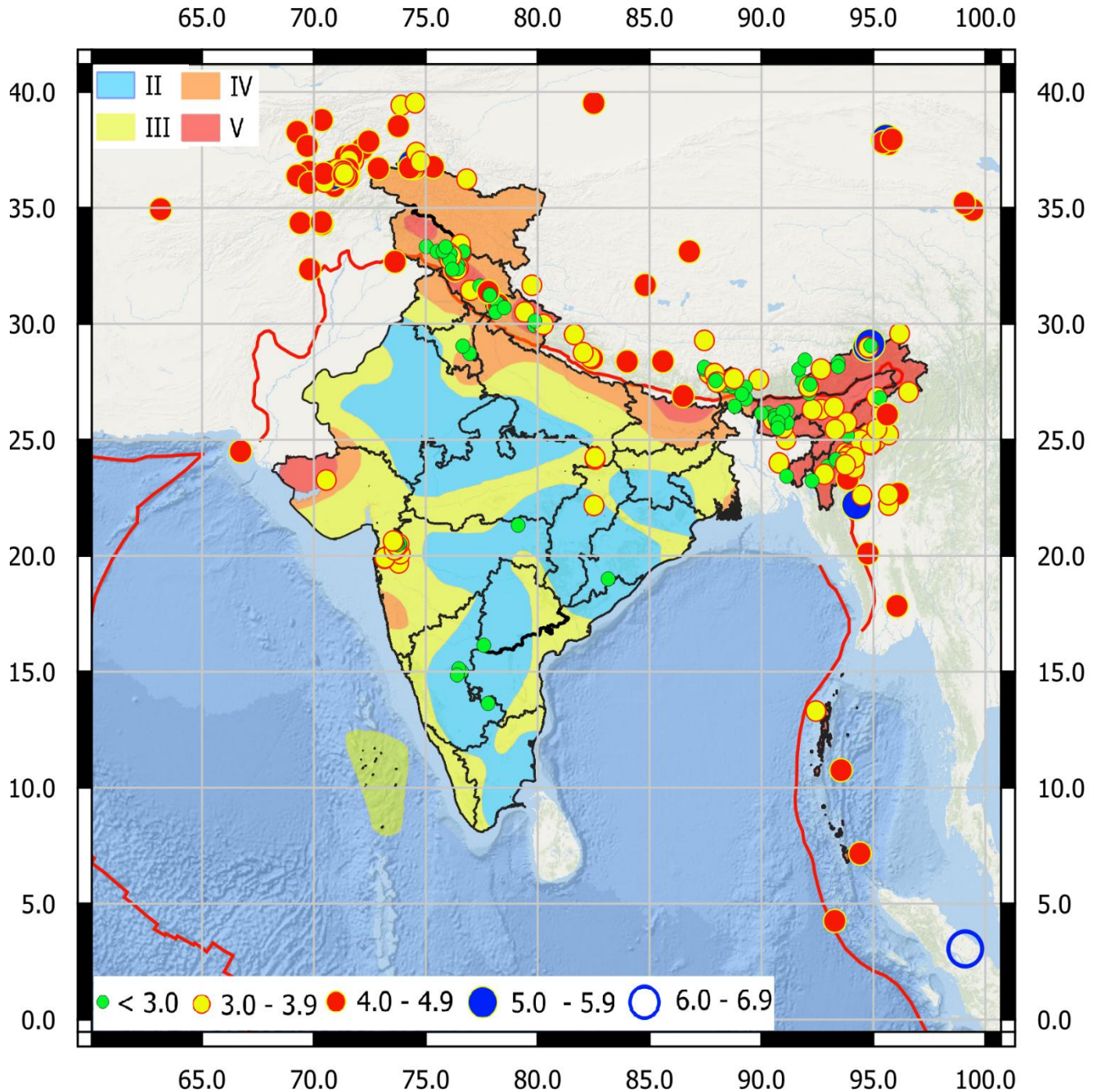


Figure 3: Map showing the seismicity during the period 01st – 30th AUGUST 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

Out of total **424** earthquakes **24%**; **25%** and **25%** earthquakes occurred within the magnitude range of **3.0-3.9**, **4.0-4.9**, and **5.0-5.9**, respectively. **Eleven** earthquakes in the magnitude range between **6.0-6.9** occurred of which ten were outside the grid **0-40°N** and **60-100°E**. **Two** earthquake (**M:7.3** in Columbia and **M:7.5** in Flores Sea, Indonesia) in the magnitude range between **7.0-7.9** 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.

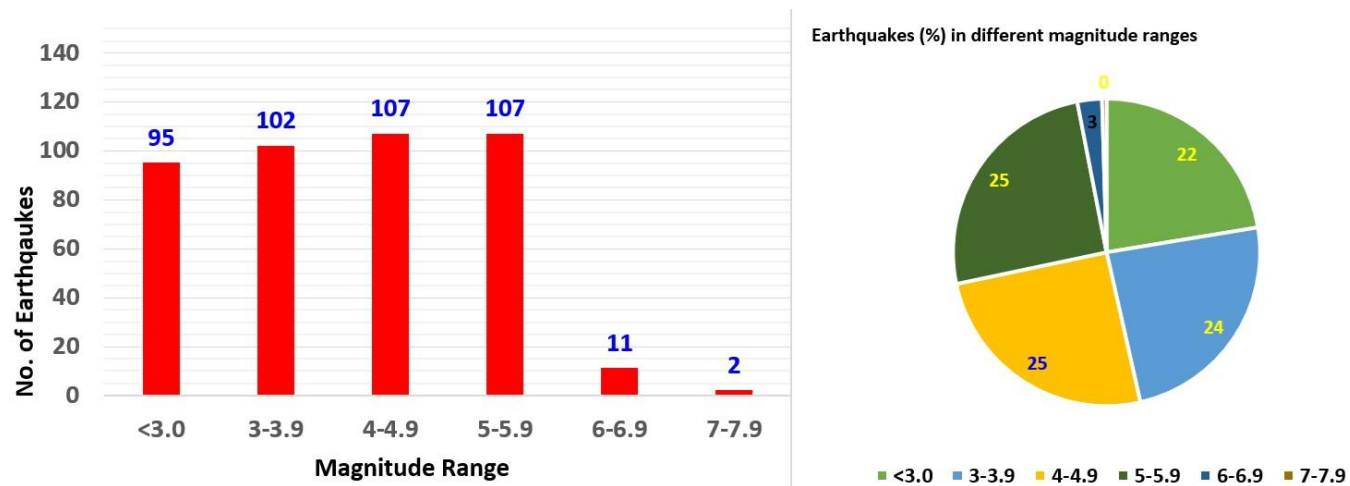


Figure 4 (a): Distribution of earthquakes in the different magnitude range during 01st – 31st AUGUST 2026.

There is **positive 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)**.

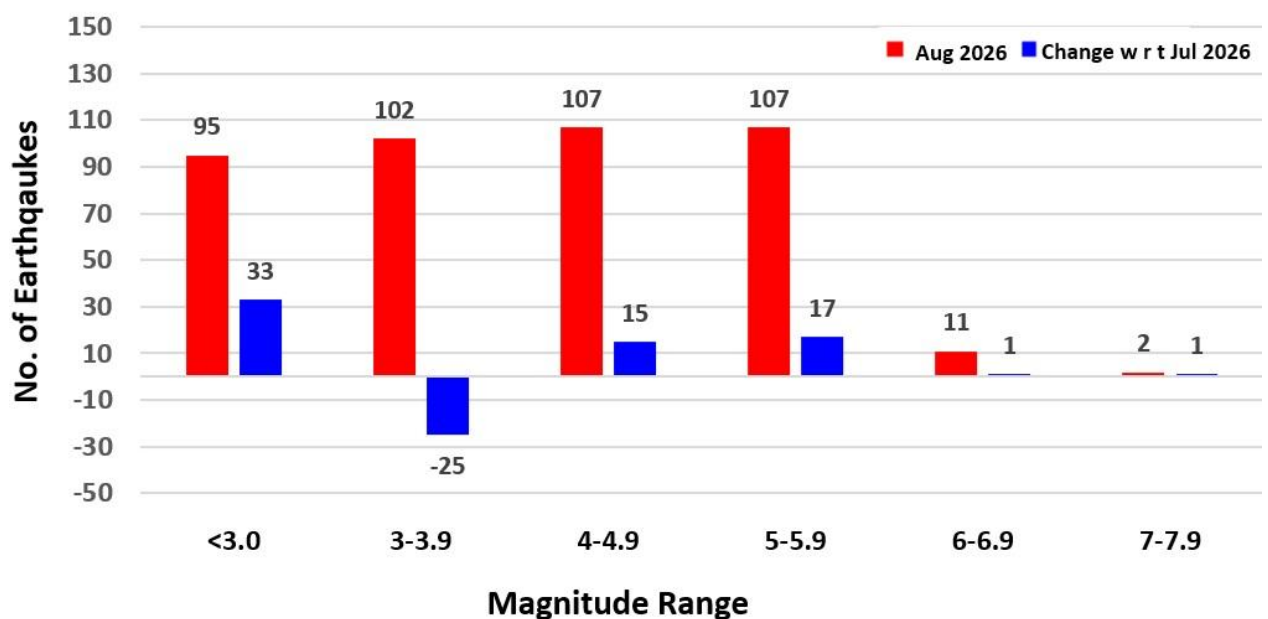


Figure 4 (b): Change of occurrence of earthquakes in different magnitude ranges w.r.t previous month.

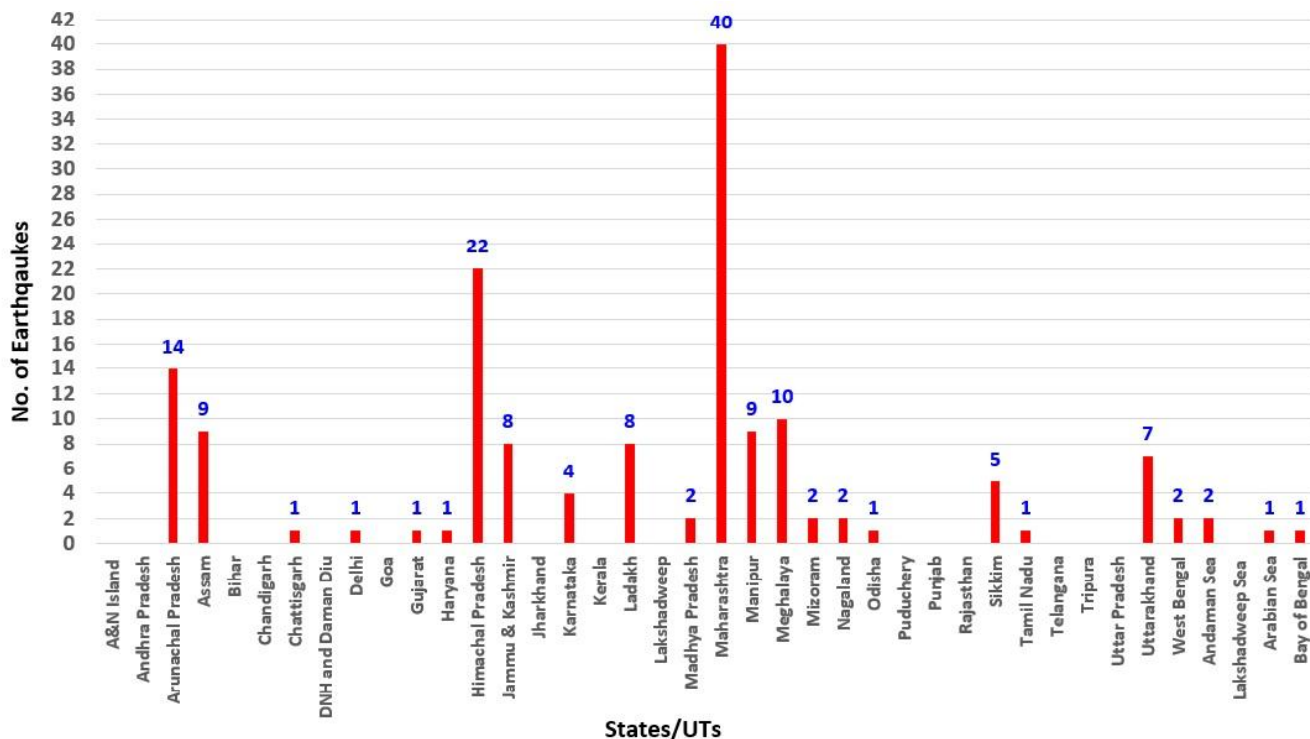


Figure 5: State wise distribution of earthquakes during the period 01st – 31st AUGUST 2026.

Total **154** earthquakes occurred within Indian territory; out of which **40** earthquakes occurred in Maharashtra , **22** each in Himachal Pradesh and **14** in Arunachal Pradesh during the period. Out of 154 earthquakes **47** and **51** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st – 31st August 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 – 31st August 2026 (**Figure 3** and **Figure 6**).

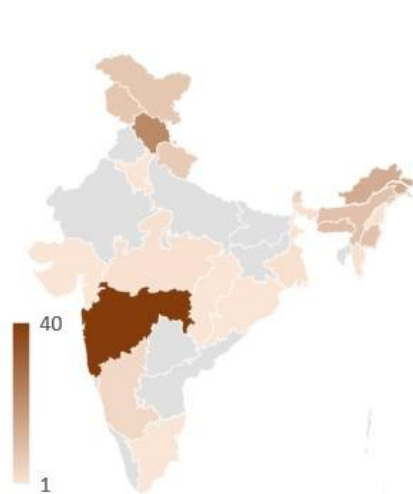


Figure: 6 Earthquake Density map

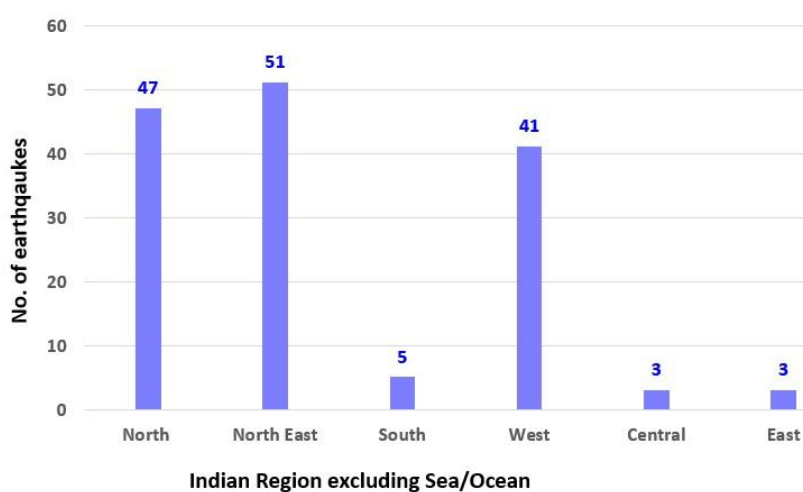


Figure: 7 Region wise distribution

3) Significant Activity:

A. Arunachal Pradesh Earthquake: An earthquake of magnitude **M:5.4** occurred on **05th August 2026** at **15:36:11 IST** in **Upper Siang, Arunachal Pradesh**, with the epicentre at **29.008 °N**, and **94.739 °E** at a focal depth of **17 km**. The epicentre was about 12 km NW of Tuting, 170 km N of Dibrugarh, 180 km NE of Ziro, 240 km NE of Itanagar and 430 km NE of Guwahati, which lies in Zone V as per seismic zoning map of India. The epicentre of the earthquake lies at the junction of the Main Central Thrust (MCT) and the NW–SE striking Mishmi and Lohit thrust systems, within the easternmost Himalayan syntaxis. This zone represents a triple junction of collisional and transgressional regimes, where The Indian Plate underthrusts beneath the Eurasian Plate, driving crustal shortening and Mishmi and Lohit thrusts accommodate oblique convergence and crustal imbrication. 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/TEkwNUZ4SIYyRVdIL0k1VEdMbDJBdz09/Reviewed>

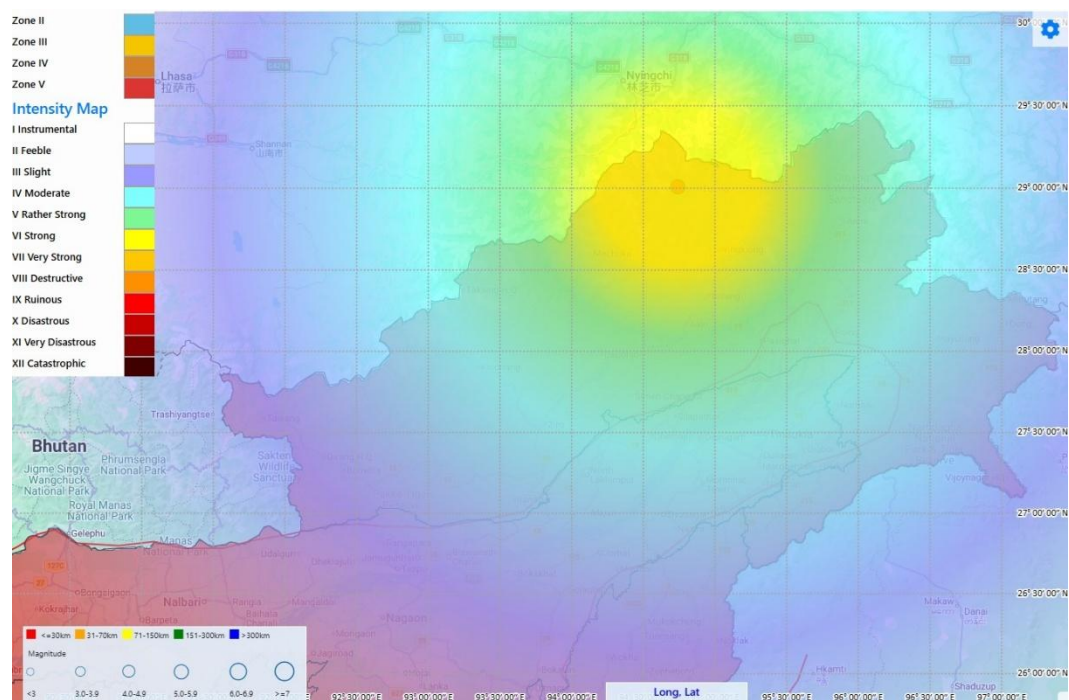


Figure 8: Intensity map of earthquake of M:5.4 occurred on 05th August 2026 in Upper Siang, Arunachal Pradesh.

B. Seismic Event - Tibet: An earthquake initially reported as **M:4.9** occurred on **26th August 2026** at **08:22:20 IST** in Tibet with the epicentre at 28.386°N, and 85.590°E. Based on analysis of data from more than 60 seismic stations, including the international stations EVN and Kakani (KKN) in Nepal, this assessment was revised. The waveform, dominated by long-period surface-wave energy and weak or unclear P-wave arrivals, was inconsistent with a typical tectonic earthquake. Hence, the event is instead **attributed** to a **non-tectonic source** and due to glacial and landslide process leading to flash floods.

C. Nashik Earthquakes: Total 37 smaller magnitude earthquakes between M:2.0 to M:4.3 occurred near Dindori Taluka, Nashik District, Maharashtra during 01st to 31st Aug 2026. 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. Spatial and temporal distribution of swarm activity is shown at **Figure 9 and Figure 10**

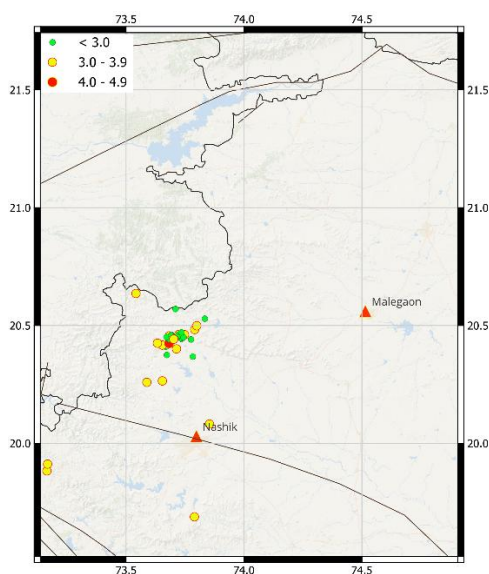


Figure: 9 Spatial Distribution map

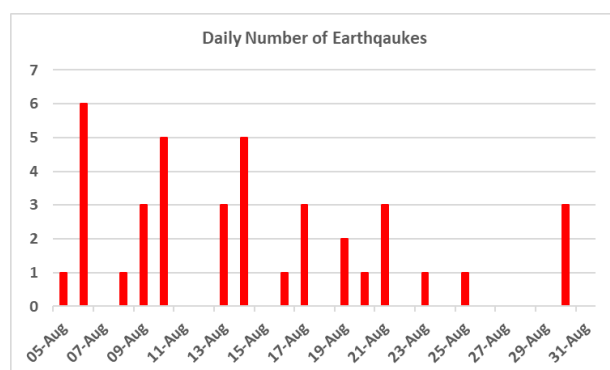
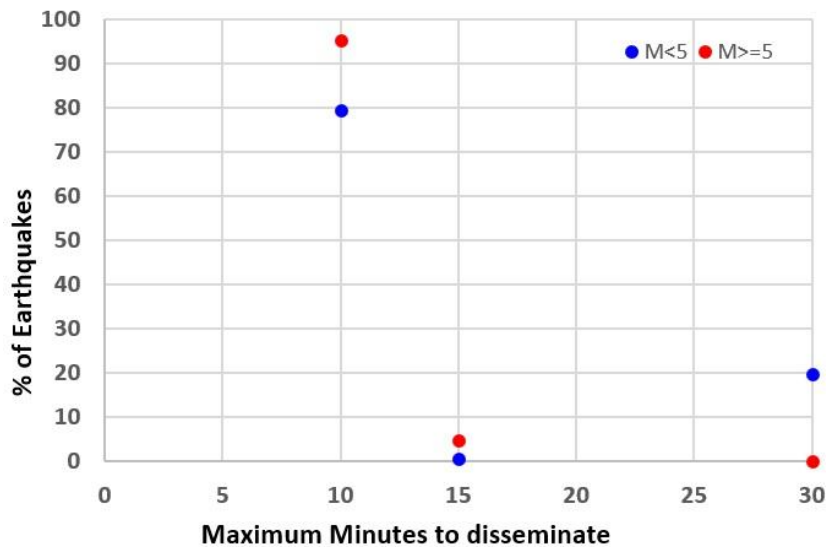


Figure: 10 Temporal Distribution

4) Dissemination Performance:



About **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 11**.

Figure 11: Dissemination of earthquakes within different time ranges during 01st – 31st AUGUST 2026.