

Report on Real Time Earthquake Location

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Report of Earthquakes occurred in the month of February 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 – 28th February 2026 a total number of 449 earthquakes have been located

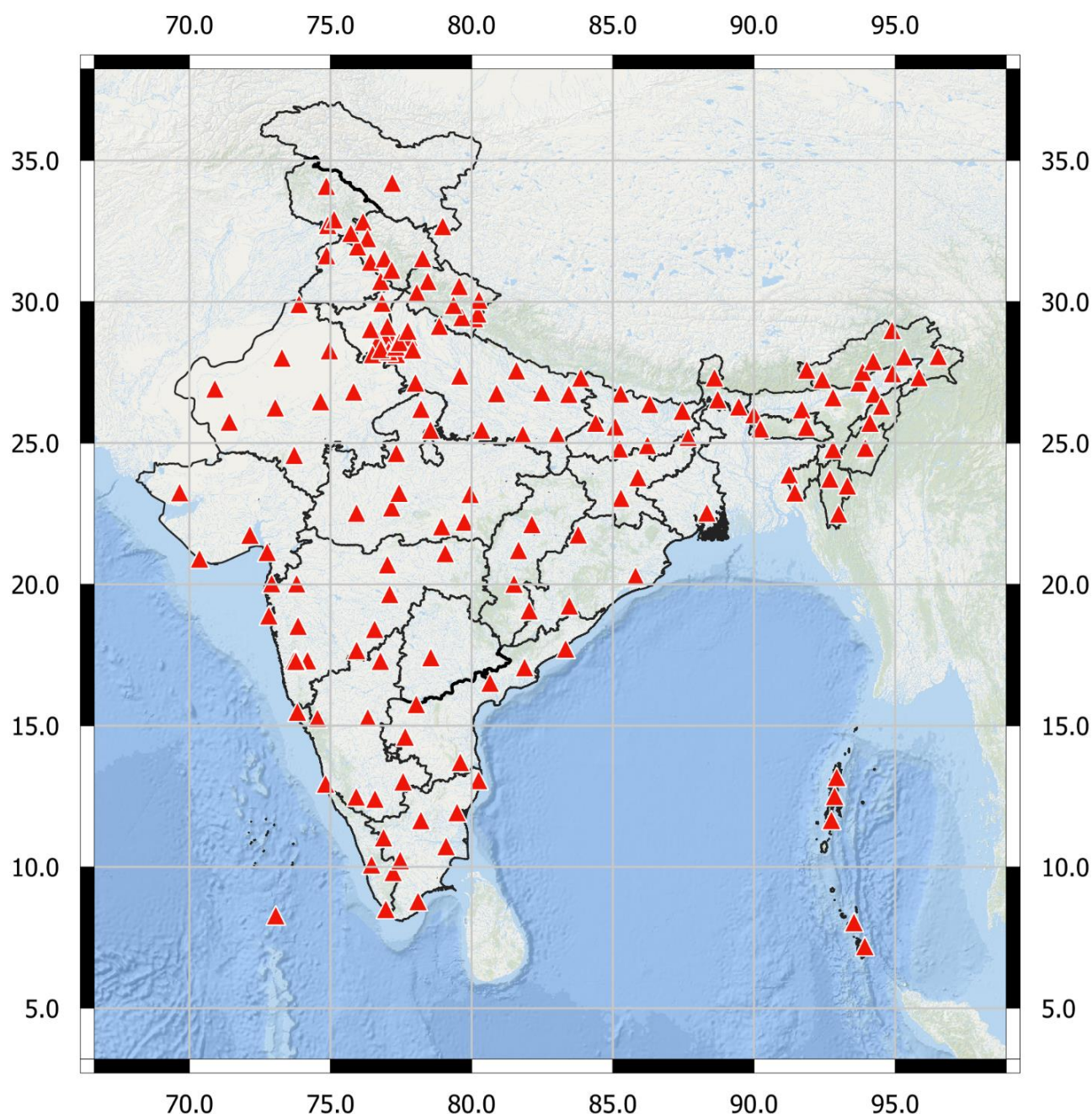


Figure 1: National Seismological Network (NSN) of 169 Stations

and disseminated from the center (**Figure:2**), out of which 257 earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0°- 40°N & 60°-100°E (**Figure:3**).

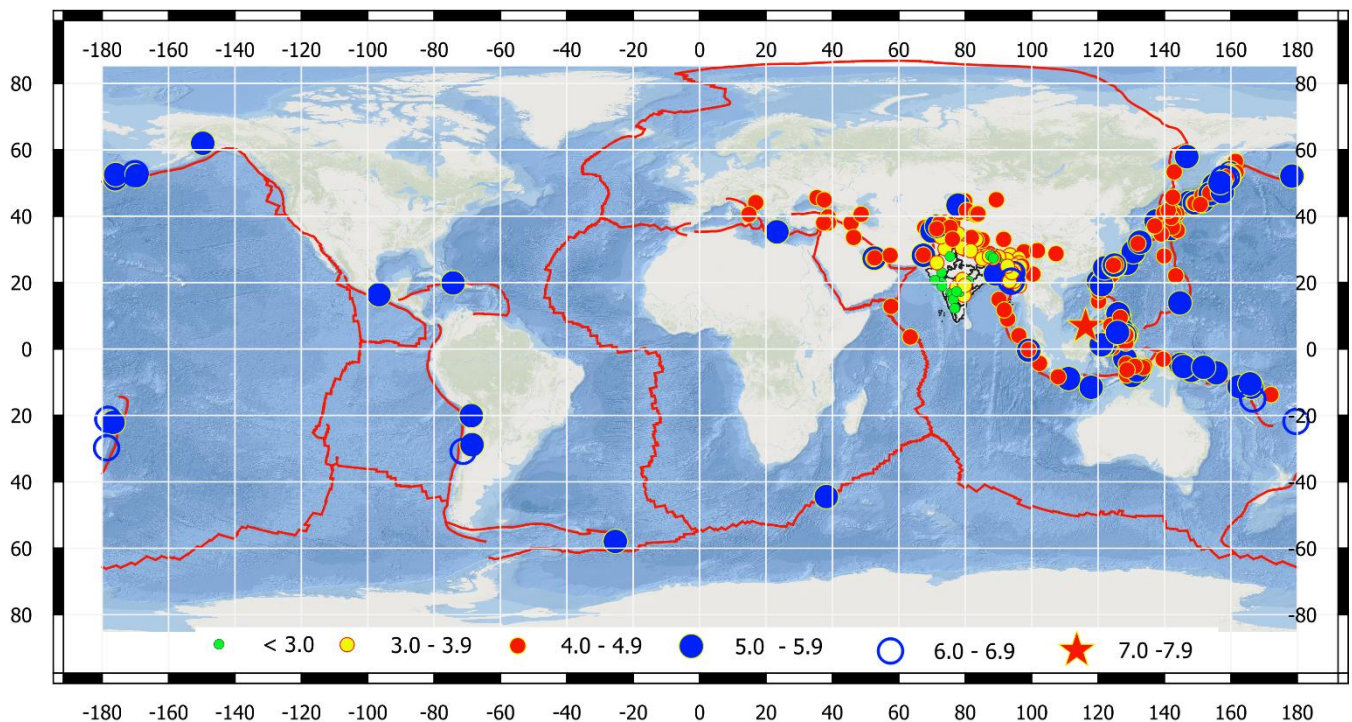


Figure 2: Earthquakes located and disseminated by NCS during 01st – 28th FEB 2026

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, Mizoram, Tripura and Sikkim) as shown in **Figure 3**.

Few earthquakes of smaller magnitudes were also reported in western (Barmer and Jhunjhunu in Rajasthan; Gandhinagar and Gir Somnath in Gujrat; Nanded, Nagpur, Palghar and Raigarh in Maharashtra); eastern (Kisanganj in Bihar and Darjiling in West Bengal); central (Balod in Chhatisgarh) 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. **One hundred fifteen** earthquakes of smaller magnitude (**M < 3.0**) comprising **26%** of all earthquakes occurred during 01st to 28th February 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 449 earthquakes **19%**; **35%** and **18%** earthquakes occurred in the magnitude range **3.0-**

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

SN	Date	Time (IST)	Lat($^{\circ}$ N)	Long($^{\circ}$ E)	D (KM)	M	Region
1	2026-02-03	21:04:00	20.42	93.88	27	6.0	Myanmar
2	2026-02-03	21:21:28	20.45	93.86	20	5.3	Myanmar
3	2026-02-13	12:00:24	28.21	67.42	14	5.2	Pakistan
4	2026-02-20	18:39:54	35.52	69.98	70	5.7	Afghanistan
5	2026-02-25	16:42:03	36.94	71.43	80	5.3	Afghanistan
6	2026-02-25	22:21:48	22.99	94.66	120	5.5	Myanmar
7	2026-02-27	13:22:25	22.57	89.11	10	5.5	Bangladesh

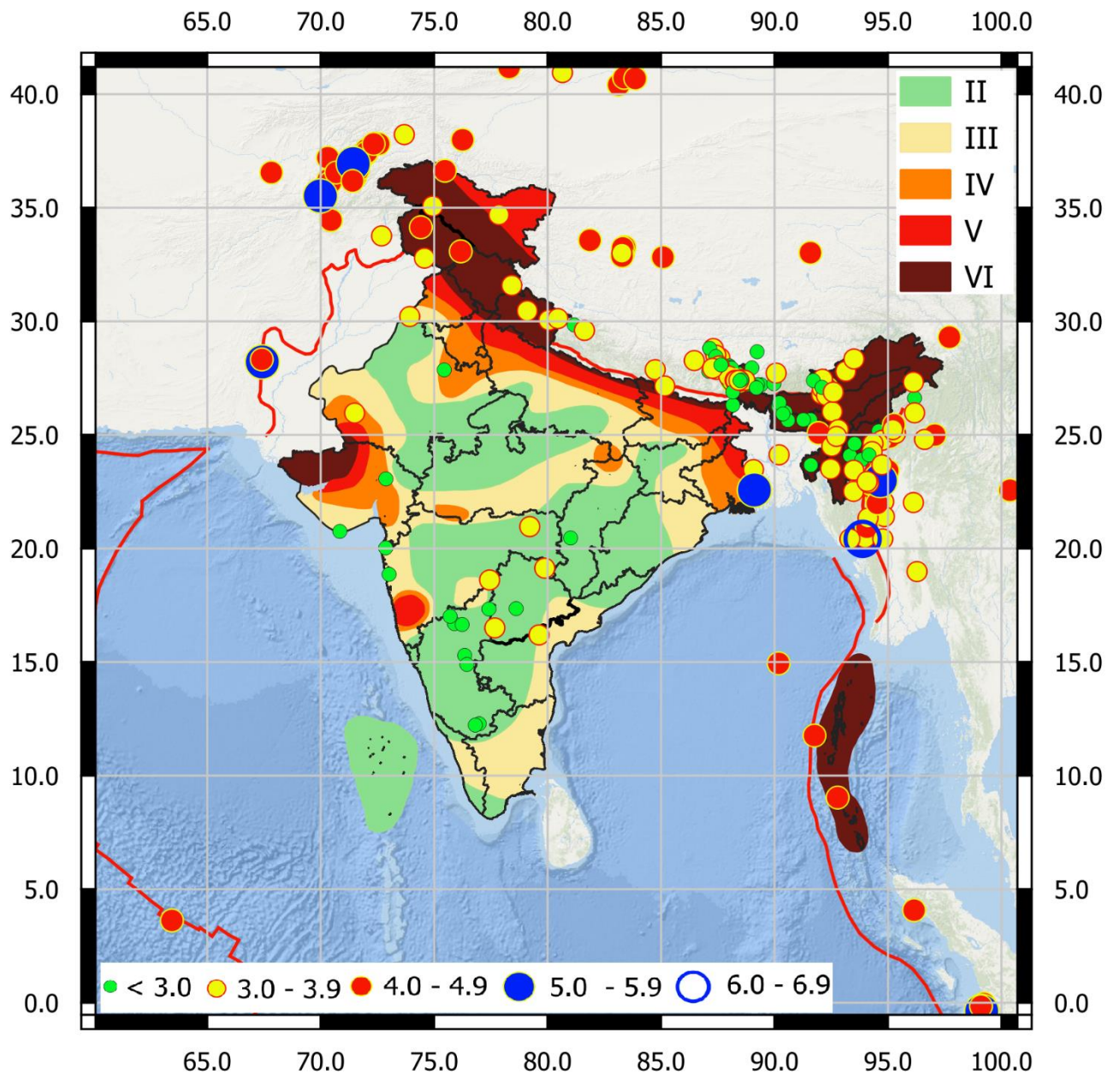


Figure 3: Map showing the seismicity during the period 01st – 28th FEB 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

3.9, 4.0-4.9 and 5.0-5.9 respectively. **Eight** earthquakes in the magnitude range **6.0-6.9** occurred during the period of which one was inside the grid of 0- 40⁰N & 60-100⁰E as shown in **Figure 2; Figure 3** and **Figure 4(a)**. One earthquake of magnitude **7.0** occurred was outside the grid of 0- 40⁰N & 60-100⁰E as shown in **Figure 2** and **Figure 4(a)**. Details of earthquakes occurred during the month is available at www.seismo.gov.in .

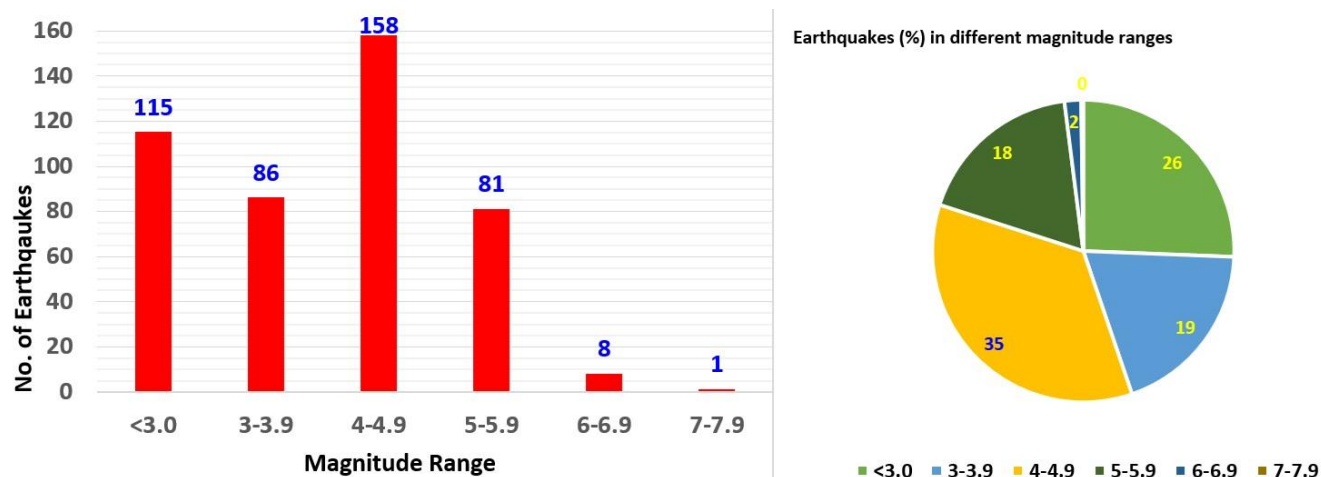


Figure 4 (a) : Distribution of earthquakes in the different magnitude range during 01st – 28th FEB 2026.

There is **positive change** in number of earthquakes in different magnitude ranges except of **5-5.9** and **6-6.9**. The change for different magnitude ranges with respect to previous month (January 2026) is shown in Figure 4 (b).

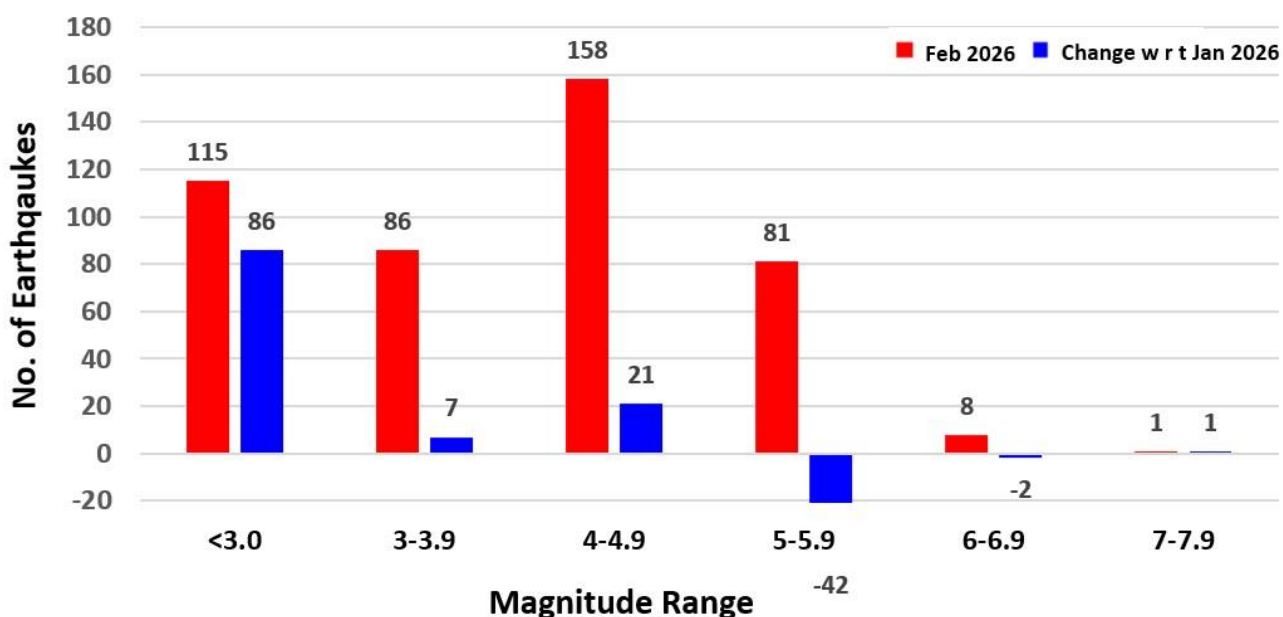


Figure 4 (b) : Change of occurrence of earthquakes in different magnitude ranges w r t previous month

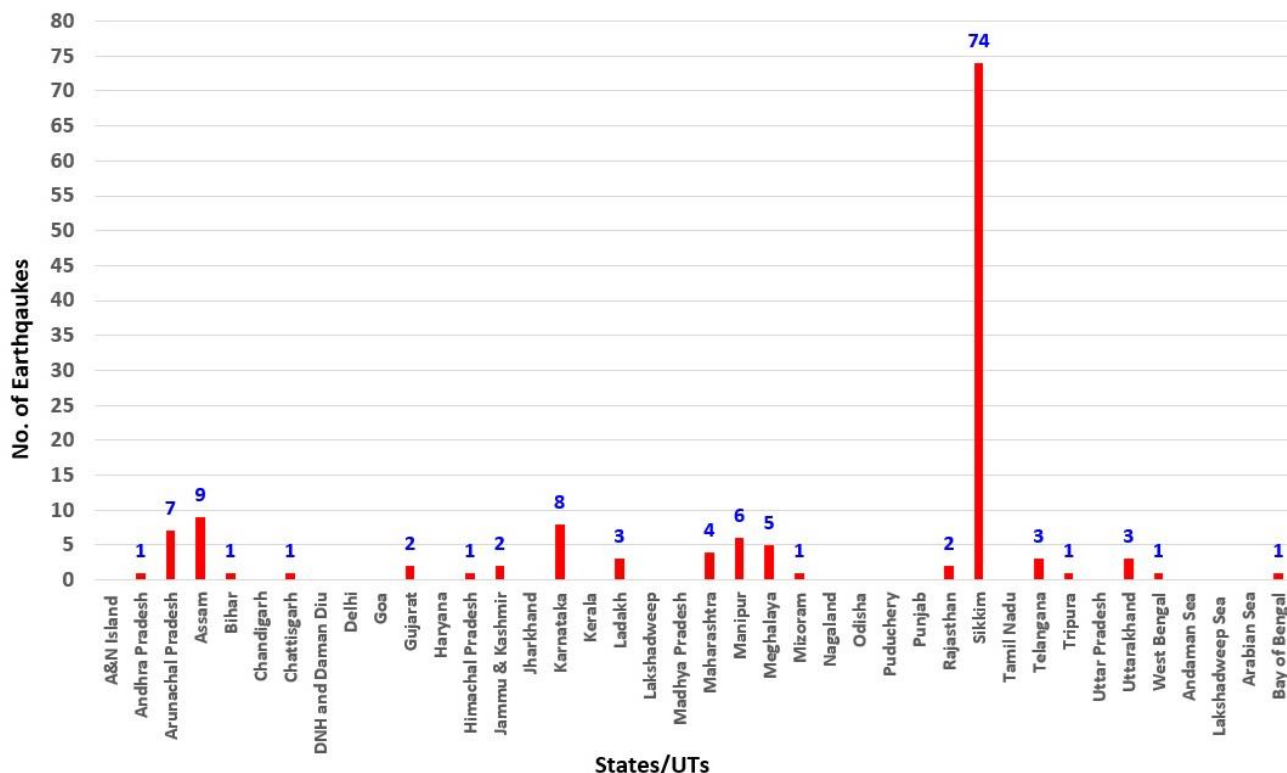


Figure 5: State wise distribution of earthquakes during the period 01st – 28th FEB 2026.

Total **136** earthquakes occurred within Indian territory; of which 74 earthquakes occurred in Sikkim, 9 in Assam and 8 in Karnataka during the period. Out of 136 earthquakes **9** and **103** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st– 28th February 2026 is shown in **Figure 5** and **Figure 7** respectively. There was sparse activity in central and eastern part of the country during 01st– 28th February 2026 (**Figure 3** and **Figure 6**).

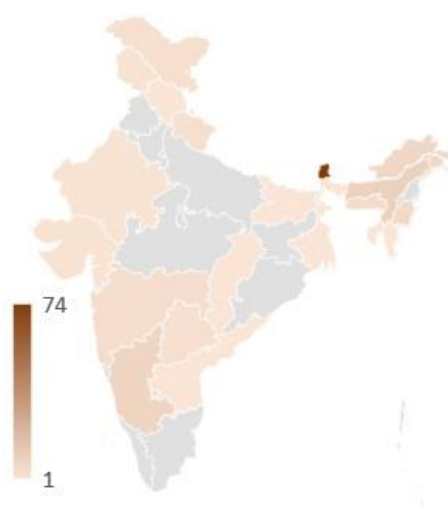


Figure: 6 Earthquake Density map

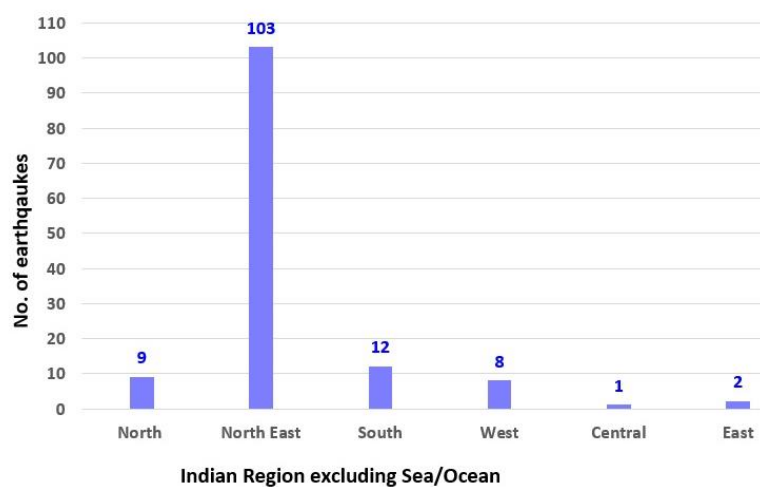


Figure: 7 Region wise distribution

3) Significant Activity:

A. Bangladesh Earthquake: An earthquake of **M:5.5** occurred at **13:22:25 IST** of **27th FEB 2026** in Bangladesh at **22.57° N** and **89.11° E** with focal depth of 10 km. The epicentre was approximately 16 Km E from the West Bengal (Indian) Border ; 78 Km E of Kolkata; 148 Km SE of Bardhaman; 100 Km SW of Dhaka(Bangladesh) and 280 Km E of Chattogram (Bangladesh). 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 West Bengal and adjoining areas. The earthquakes occurred in a structurally complex region at the junction of the Indian Plate, the Burma (Myanmar) microplate, and the Sunda Plate system. Although the epicentre is away from the main Burma–Andaman subduction zone, it is tectonically influenced by the broader plate boundary interactions. This zone is highly seismically active, producing large megathrust earthquakes. **Figure 8** depicts the expected intensity of this earthquake around the source zone. Following URL <https://riseq.seismo.gov.in/riseq/earthquake/event/MjRBTFJYLOp5TzUrVDFIOEFtN3BaUT09/Review> may be visited for more details.

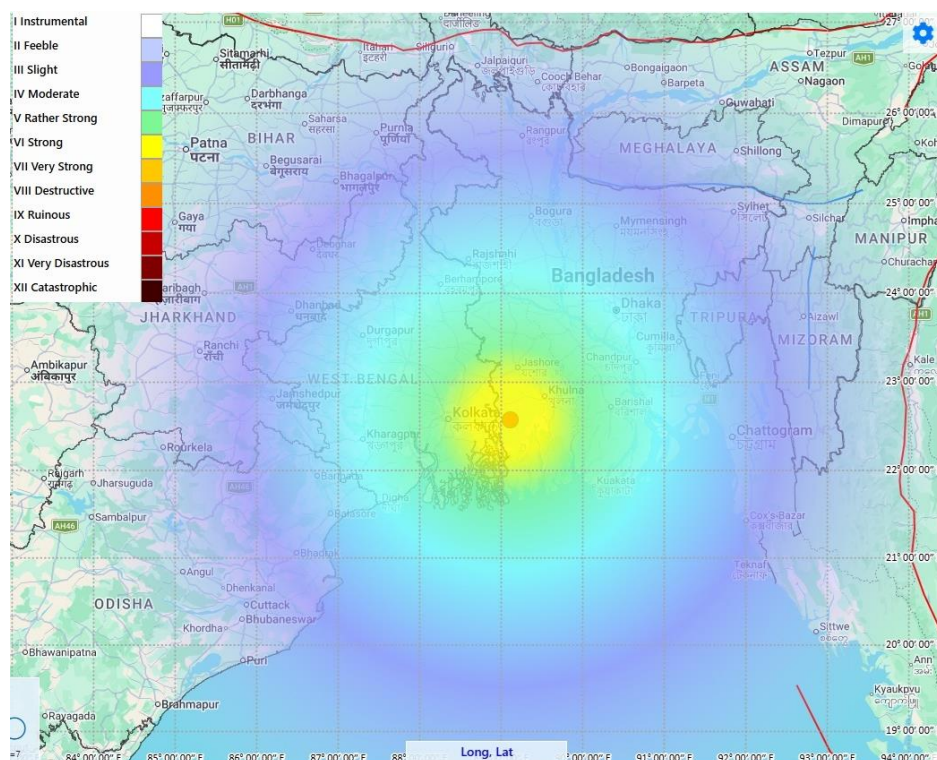


Figure 8: Intensity map of earthquake of M:5.5 occurred on 27th FEB 2026 in Bangladesh

B. Sikkim Earthquakes: An earthquake of magnitude **M 4.5** occurred at **01:09:27 IST** of **06th FEB 2026** in Gyalshing, Sikkim at **27.31°N** and **88.18°E** with a focal depth of 10 km. The

epicentre is about 6 km W of Pelling; 31 km NNW of Darjeeling; 42 km W of Gangtok and 68 km NNW of Siliguri. More than 50 aftershocks recorded till 26th February 2026 prior to occurrence of another earthquake of **M 4.6** at **11:34:05 IST** of **26th FEB 2026** with in the vicinity (13 km) of 06th February earthquake at 27.40°N and 88.26°E with a focal depth of 10 km. These events occurred on Tista Fault/Lineament and south of the M 6.9, 18th September 2011 event. The area is seismically very active and associated with collisional tectonics where the Indian plate subducts beneath the Eurasian Plate. **Figure 9** depicts the expected intensity of both earthquakes around the source zone. Following URLs may be visited <https://riseq.seismo.gov.in/riseq/earthquake/event/dThQRm9jMWN3YXRkMjREMnQ5L21HZz09/Reviewed> and <https://riseq.seismo.gov.in/riseq/earthquake/event/TVpBK3pWYzVqZldmRElleGk1TEF5Zz09/Reviewed> for more details.

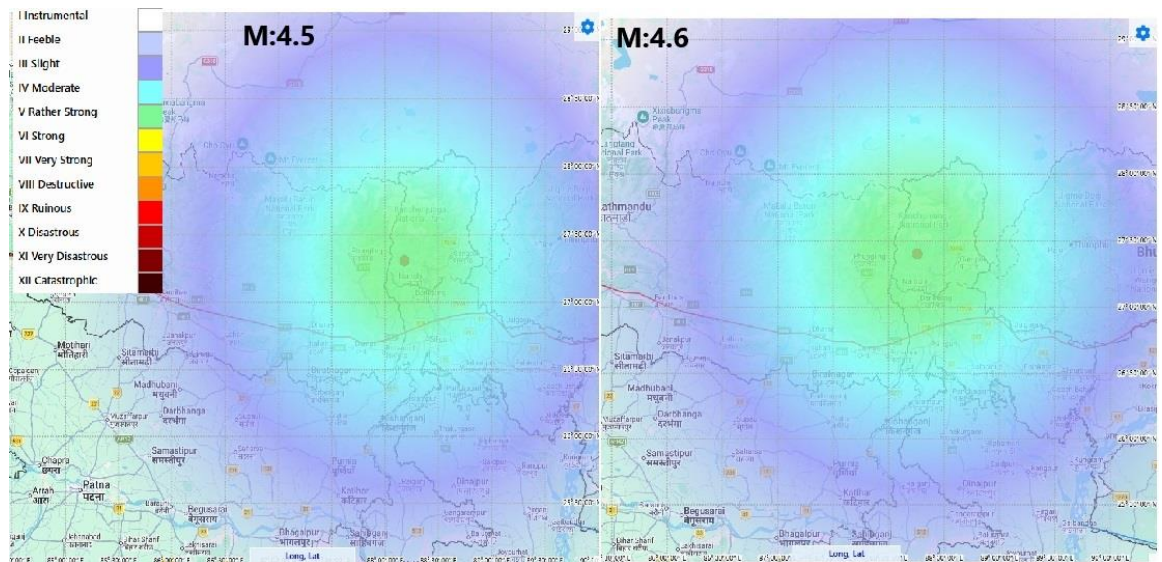


Figure 9: Intensity map of earthquake of M:4.5 (left) occurred on 6th FEB and M:4.6 (right) occurred on 26th FEB 2026 in Sikkim

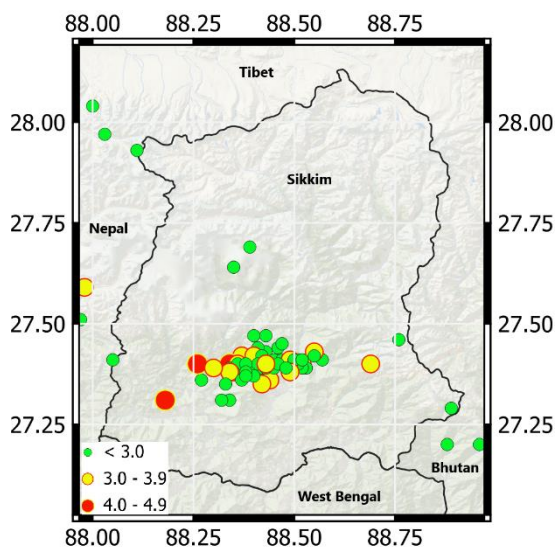


Figure 10 and **Figure 11** shows the spatial and temporal variations of aftershocks of Sikkim earthquakes.

Figure 10: Spatial Variation of Aftershocks

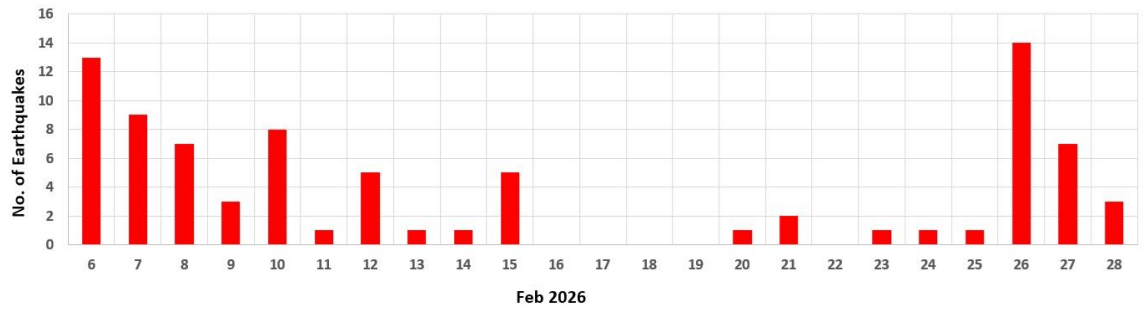
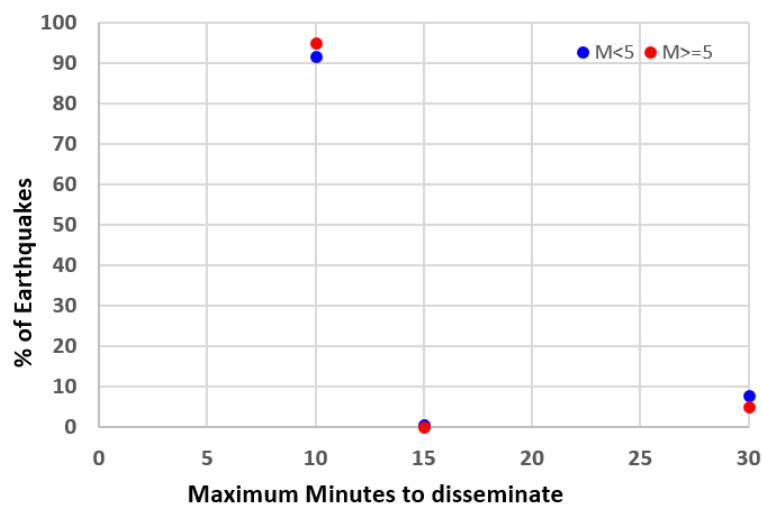


Figure 11: Temporal Variation of Aftershocks during 6th -28th FEB 2026

4) Dissemination Performance:



More than **90%** earthquakes of **M<5.0** and **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 12**.

Figure 12: Dissemination of earthquakes within different time ranges during 01st – 28th FEB 2026.