

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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Technical Report No: NCS/2026/04

Report of Earthquakes occurred in the month of April 2026

1) Introduction:

National Center for Seismology maintains a National Seismological Network of **170 stations** each having state of art equipment and spreading all across the country (**Figure:1**). Using these stations during the period 01st – 30th April 2026 a total number of 525 earthquakes have been located

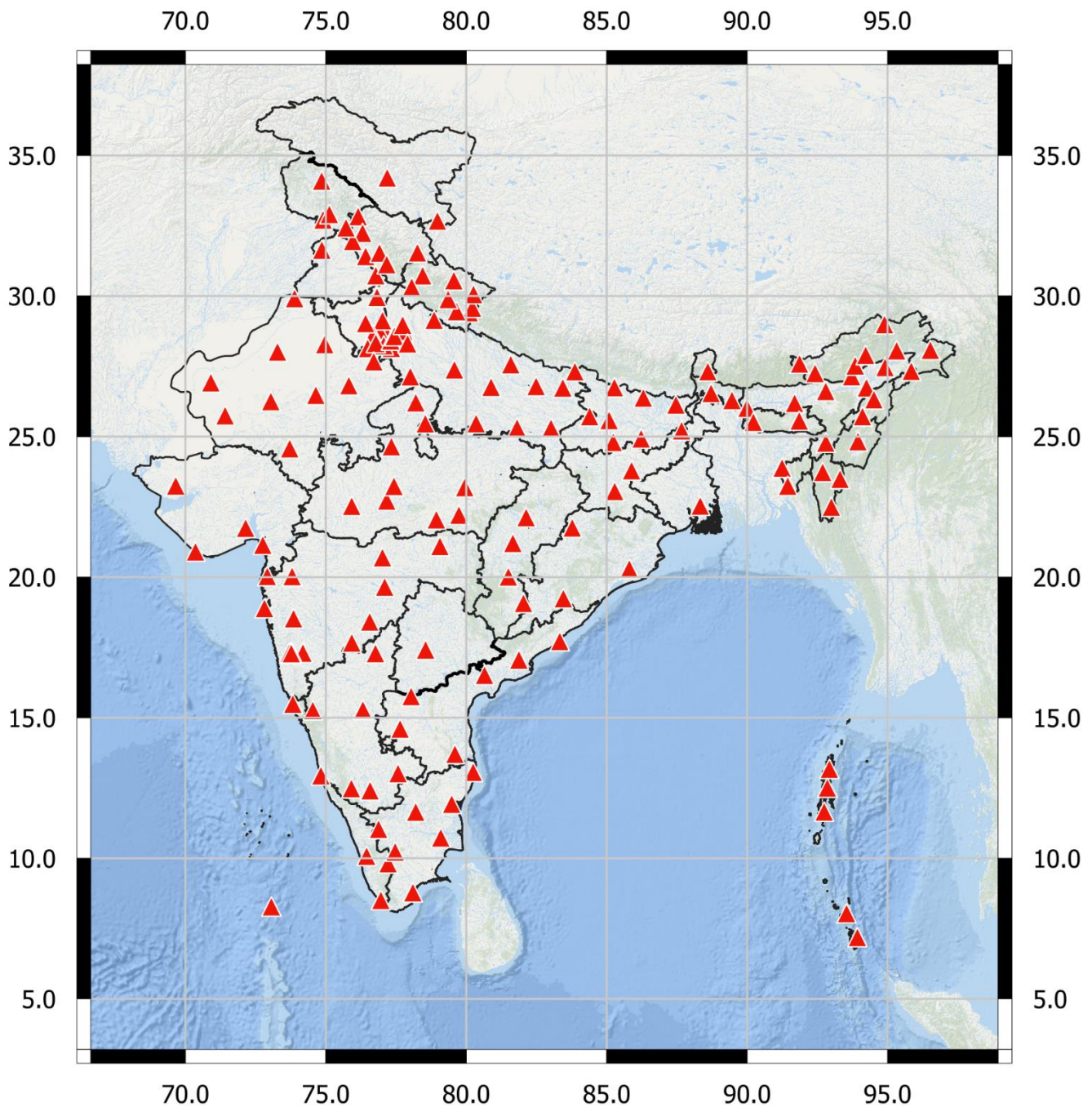


Figure 1: National Seismological Network (NSN) of 170 Stations

and disseminated from the center (**Figure:2**), out of which 273 earthquakes have occurred in India and its neighborhood region bounded by the coordinates 0° - 40°N & 60°-100°E (**Figure:3**).

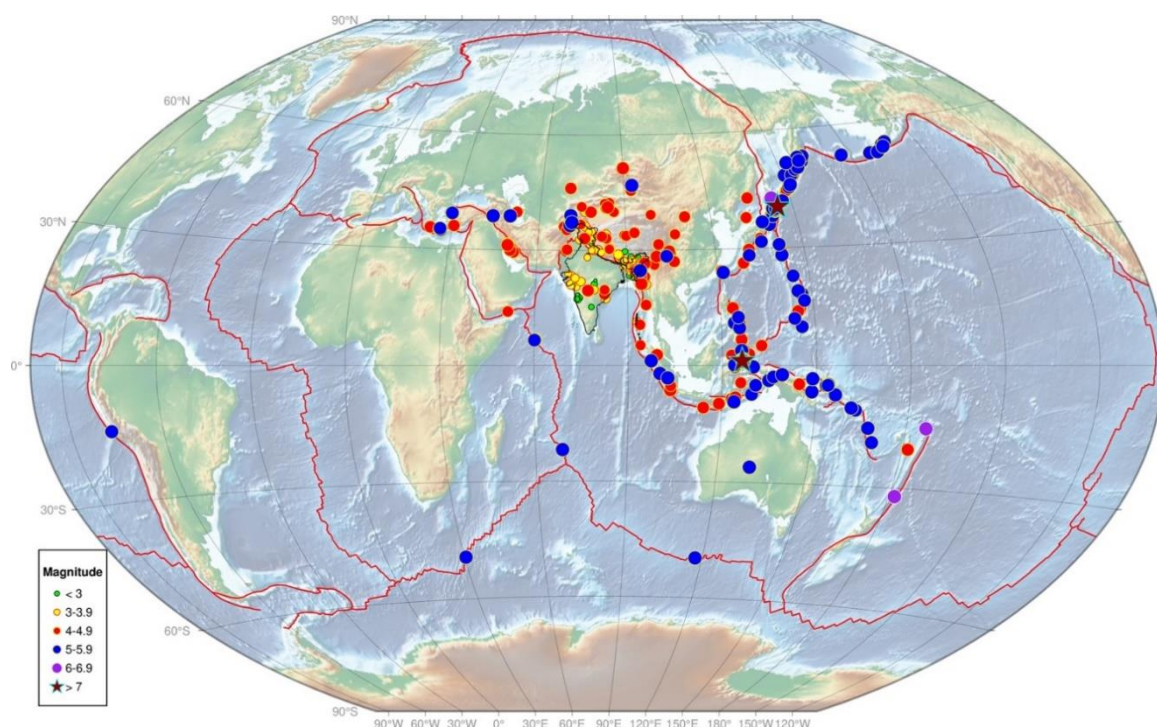


Figure 2: Earthquakes located and disseminated by NCS during 01st – 30th APR 2026

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

Two earthquakes of **M_≥4.0** were reported in Koraput and Kalahandi districts of Odisha, while a **M:4.7** earthquake was recorded in Hingoli, Maharashtra. In addition, several smaller magnitude earthquakes were reported in the northern (Rewari in Haryana, and North and Central Delhi); western (Khairthal–Tijara in Rajasthan; Kachchh, Kheda, Amreli, Patan, Bhavnagar, and Navsari in Gujarat; and Pune, Ratnagiri, Nagpur, Satara, Sangli, Hingoli, and Chandrapur in Maharashtra); eastern (Kalahandi in Odisha); central (Seoni and Barwani in Madhya Pradesh); and southern (Nandyal and Anakapalli in Andhra Pradesh) part of the country.

Hundred and three earthquakes of smaller magnitude (**M < 3.0**) comprising **20%** of all earthquakes occurred during 01st to 30th April 2026. **Eight** earthquakes of magnitude **M:5.0 and above** occurred

during the month in the region; as detailed in **Table:1**. Out of total 525 earthquakes **18%**; **37%** and

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

SN	Date	Time (IST)	Lat($^{\circ}$ N)	Long($^{\circ}$ E)	D (KM)	M	Region
1	2026-04-03	15:56:44-	39.033	70.921	21	5.1	Tajikistan
2	2026-04-03	21:42:57	36.398	70.878	150	5.9	Afghanistan
3	2026-04-18	08:24:17	36.453	70.789	170	5.6	Afghanistan
4	2026-04-18	11:30:06	6.712	60.358	10	5	Arabian Sea
5	2026-04-18	11:34:42	6.609	60.167	36	5	Arabian Sea
6	2026-04-19	01:36:53	1.243	97.368	30	5.8	Indonesia
7	2026-04-21	05:59:33	24.703	94.415	62	5.2	Kamjong, Manipur
8	2026-04-27	12:16:05	37.233	71.375	117	5.2	Afghanistan

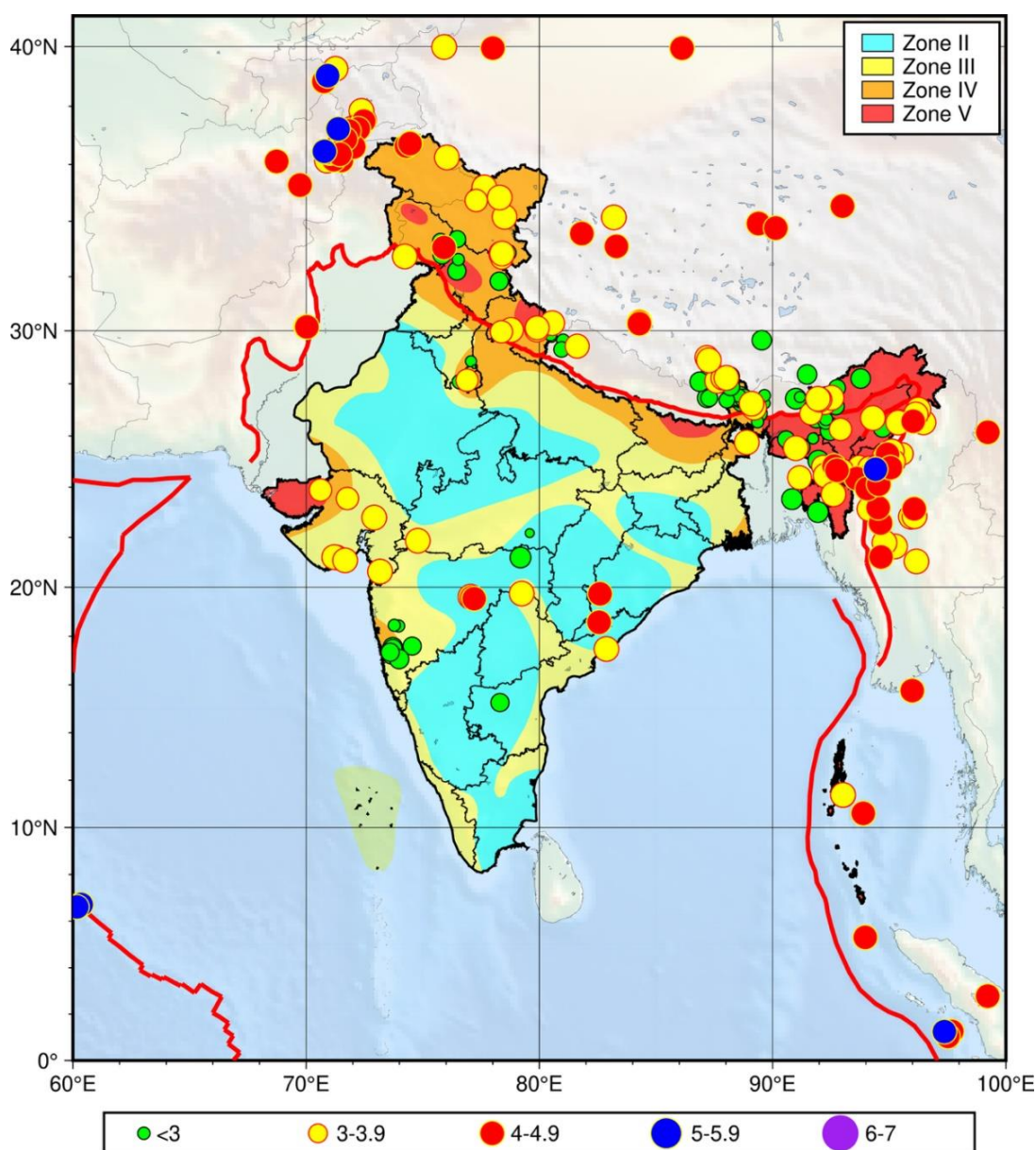


Figure 3: Map showing the seismicity during the period 01st – 30th APR 2026 occurred in India and its neighbourhood region along with the seismic zone of India.

Out of total 525 earthquakes 20%; 36% and 24% earthquakes occurred in the magnitude range 3.0-3.9, 4.0-4.9 and 5.0-5.9 respectively. Three earthquakes in the magnitude range 6.0-6.9 occurred during the period were outside the grid 0-40°N and 60-100°E, as shown in Figures 2 and 4(a). Two earthquake of magnitude 7.4 were also occurred outside the grid of 0-40°N & 60-100°E as shown in Figure 2 and Figure 4(a). The details of earthquakes occurred during the month is available at www.seismo.gov.in.

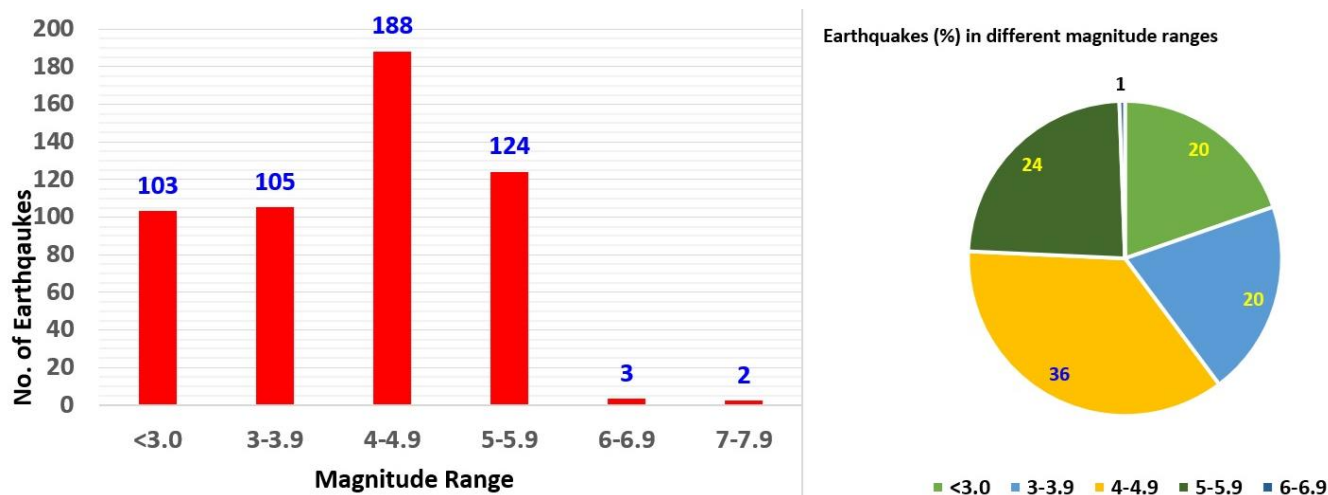


Figure 4 (a) : Distribution of earthquakes in the different magnitude range during 01st – 30th APR 2026.

There is **positive change** in number of earthquakes in different magnitude ranges except of 6.0-6.9. The change for different magnitude ranges with respect to previous month (March 2026) is shown in Figure 4 (b).

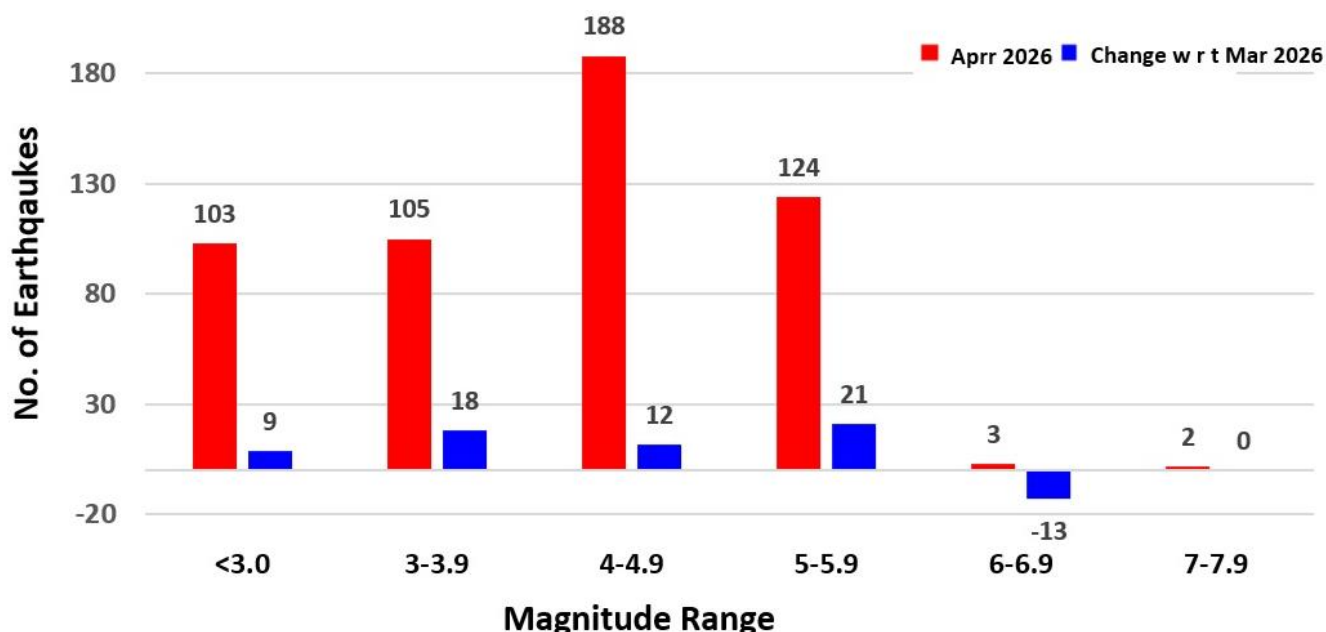


Figure 4 (b) : Change of occurrence of earthquakes in different magnitude ranges w r t previous month

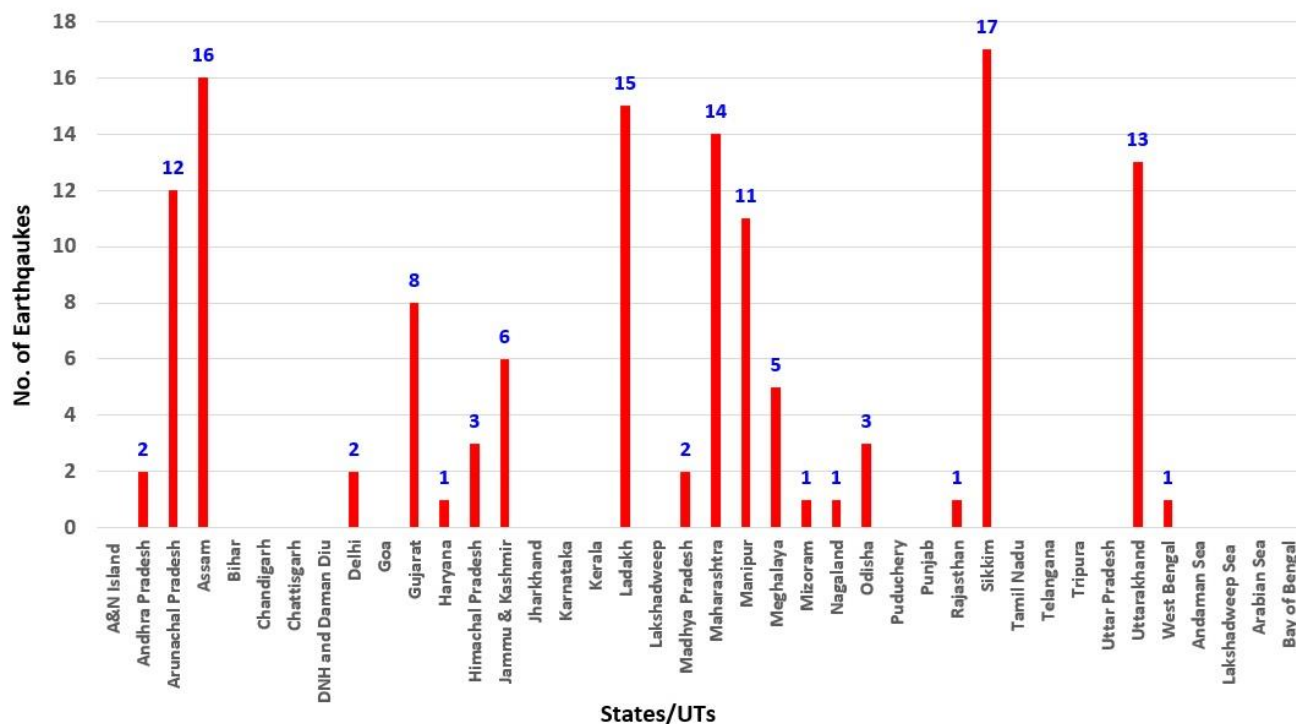


Figure 5: State wise distribution of earthquakes during the period 01st – 30th APR 2026.

Total **134** earthquakes occurred within Indian territory; of which 17 earthquakes occurred in Sikkim, 16 in Assam, 15 in Ladakh and 14 in Maharashtra during the period. Out of 134 earthquakes **40** and **63** earthquakes occurred in **North** and **North-East** region respectively. State/UT and region wise distribution of earthquakes occurred during 01st – 30th April 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 April 2026 (**Figure 3** and **Figure 6**).

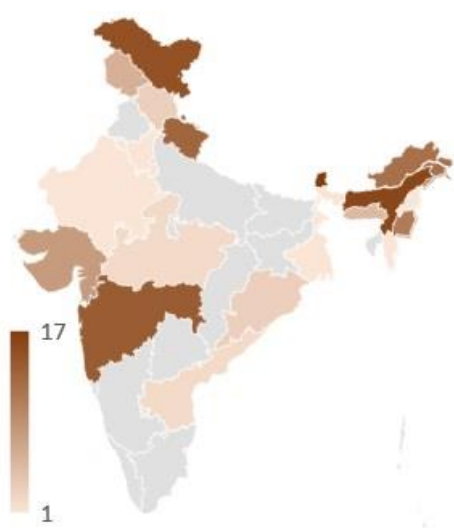


Figure: 6 Earthquake Density map

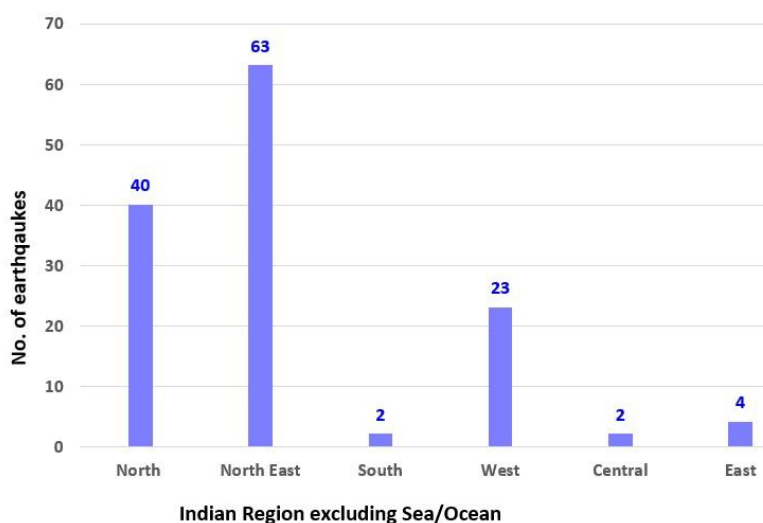


Figure: 7 Region wise distribution

3) Significant Activity:

A. Afghanistan Earthquake: An earthquake of magnitude **M 5.9** occurred on **3rd April 2026** at **21:42:57 IST** in Badakhshan province of Afghanistan, with the epicenter at **36.398° N** and **70.878° E** and focal depth of **150 km**. The epicenter was about 442km NW from Srinagar, 540km NW from Jammu, 830km NW from Chandigarh, and 1044km NW of Delhi. The epicentral area seismically very active associated with collisional tectonics characterized by deep-focus earthquakes related to the subduction of the Indian Plate beneath the Eurasian Plate. The primary fault structures in this region are the Central Badakhshan, Darvaz, or Andarab fault systems. The preliminary fault plane solution suggests that the earthquake is associated with thrust fault mechanism. **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/K0ZHd3ZJWkpnWUhMaUdEaTZ1djZvdz09/Reviewed>

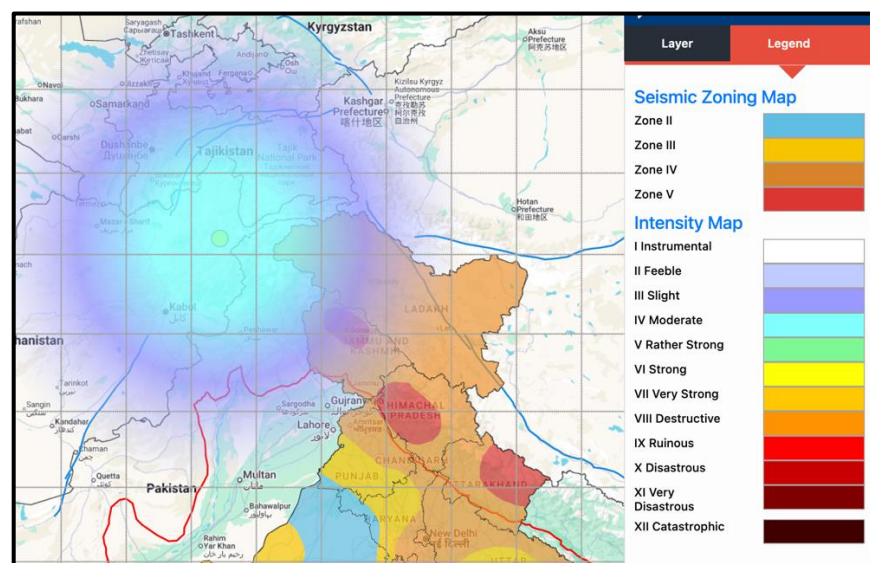


Figure 8: Intensity map of earthquake of M:5.9 occurred on 3rd April 2026 in Afghanistan

B. Odisha Earthquake: An earthquake of magnitude **M 4.4** occurred on **4th April 2026** at **23:31:01 IST** in Koraput, Odisha, with epicentre at **18.573° N**, **82.559° E** and focal depth of **5.0 km**. The epicentre was about 179km N of Kakinada, Andhra Pradesh, India, 192 km NNE of Rajahmundry, Andhra Pradesh, 249 km WSW of Berhampur, Odisha, 313 km SSE of Raipur, Chhattisgarh, which lies in Zone II as per seismic zoning map of India. The earthquake is located near the Sileru shear zone, a major tectonic boundary in the Eastern ghats that marks the "suture" where high-grade metamorphic rocks were thrust over the

ancient Bastar craton. The preliminary fault plane solution suggests that the earthquake is associated with thrust fault mechanism. **Figure 9** depicts the expected intensity of this earthquake around the source zone. This earthquake was felt in the southern Chhattisgarh, Odisha and Northern part of Andhra Pradesh Following URL may be visited for more details.

<https://riseq.seismo.gov.in/riseq/interactive/index/S212WG84S2htSzV2clZUb2s5dWx1UT09/Reviewed>

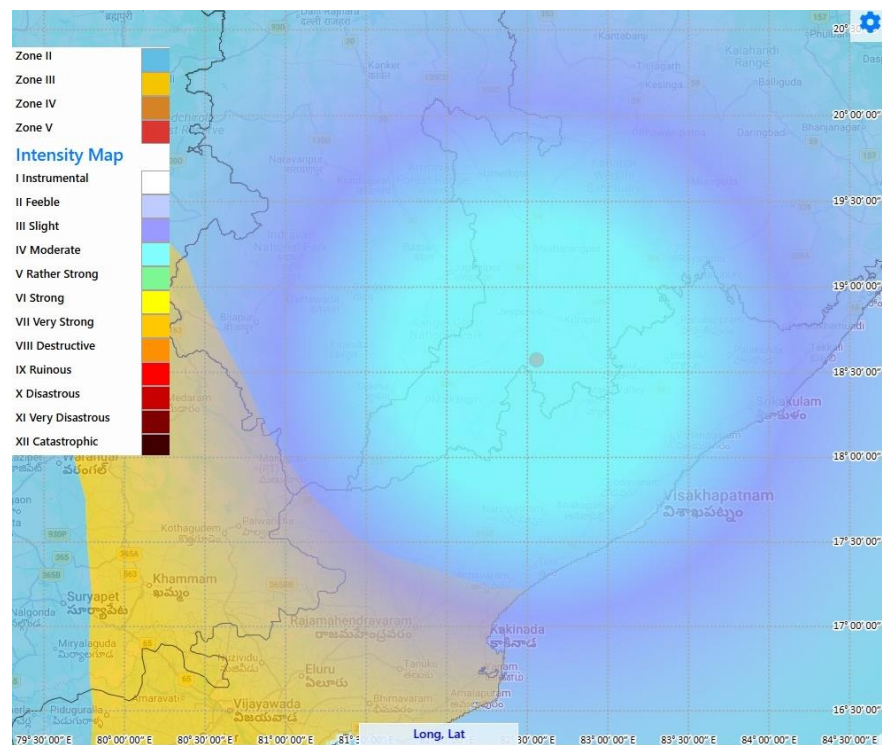


Figure 9: Intensity map of earthquake of M:4.4 occurred on 4th April 2026 in Odisha.

- C. Maharashtra Earthquake:** An earthquake of magnitude **M 4.7** occurred on **11th April 2026** at **08:45:23 IST** in Hingoli, Maharashtra, with epicenter at **19.533° N, 77.202° E** and a focal depth of **10 km**. The epicenter was about 132 km S of Akola, Maharashtra, 143 km NW of Latur, Maharashtra, 247 km NE of Solapur, Maharashtra, 265 km SE of Nagpur, Maharashtra, 275 km NW of Hyderabad, Andhra Pradesh, and 403 km NE of Karad, Maharashtra, which lies in Zone II as per seismic zoning map of India. The earthquake was occurred in the intraplate setting of the Deccan Plateau, where ancient faults are periodically reactivated. The epicenter lies close to the Kinnerasani–Godavari Fault, a NW–SE trending tectonic feature known for moderate seismicity. The preliminary fault plane solution indicates that the earthquake is characterized by strike-slip faulting with a thrust component, suggesting oblique motion rather than slip along a single planar strike-slip fault.

Figure 10 depicts the expected intensity of this earthquake around the source zone. The event was widely felt in the source region. Following URL may be visited for more details. <https://riseq.seismo.gov.in/riseq/earthquake/event/L0dzclhBREtXTEFyZ2hCUXk4TFFYZz09/Reviewed>

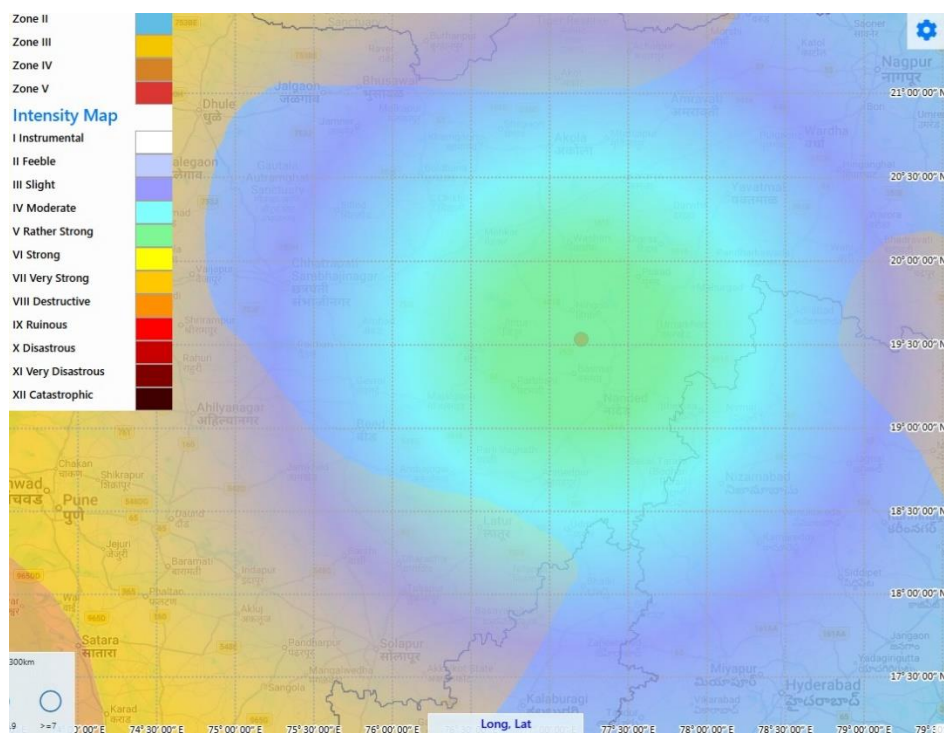


Figure 10 : Intensity map of earthquake of M:4.7 occurred on 11th April 2026 in Maharashtra.

D. Manipur Earthquake: An earthquake of magnitude **M 5.2** occurred on **21st April 2026** at **05:59:33 IST**, in Kamjong, Manipur. The epicenter was at **24.703°N** and **94.415°E** with a depth of 62 km. The epicenter was 49 km ESE of Imphal, Manipur, 152 km NE of Ngopa, Mizoram, 155 km S of Wokha, Nagaland, 177 km NE of Champhai, Mizoram, 180 km S of Mokokchung, Nagaland, India. The area is seismically very active and associated with collisional tectonics where the Indian plate subducts beneath the Burmese Micro-plate. The epicenter of the earthquake lies in the vicinity of east dipping N-S trending Kabaw fault lying in the Eastern Boundary Thrust Zone, generating moderate to large earthquakes. The preliminary fault plane solution obtained from waveform inversion suggest the dominant thrust fault with minor strike slip component. **Figure 11** depicts the expected intensity of this earthquake around the source zone. This earthquake was widely felt in NE part of the country. <https://riseq.seismo.gov.in/riseq/earthquake/event/SmNnZTFqc2cxM09zQlplQlplUb0pHU> [T09/Reviewed](#) may be visited for more details.

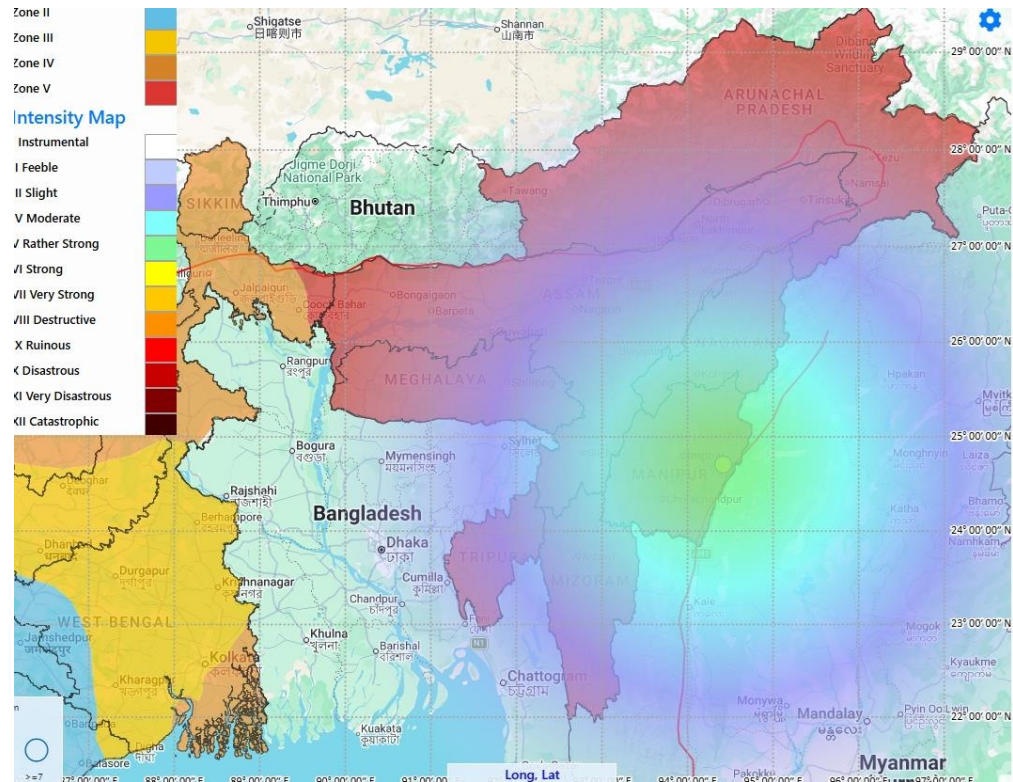
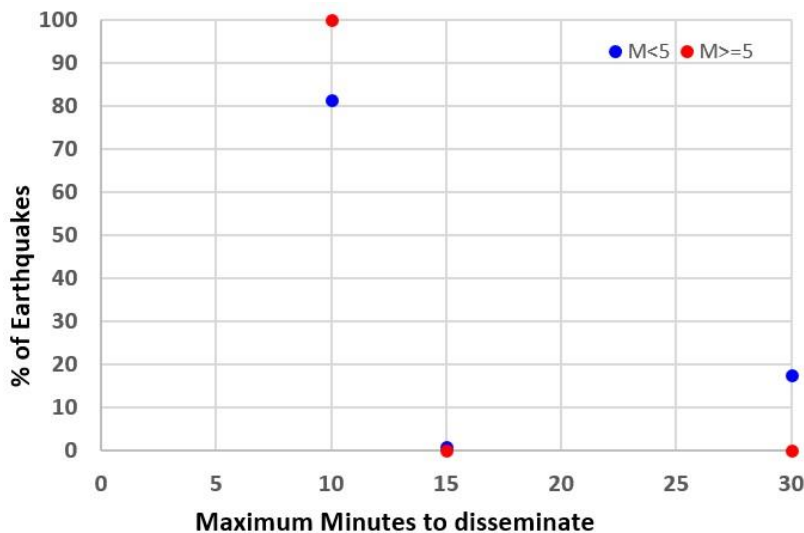


Figure 11: Intensity map of earthquake of M:5.2 occurred on 21st April 2026 in Manipur.

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 12**.

Figure 12: Dissemination of earthquakes within different time ranges during 01st – 30th APR 2026.