

# Report on Real Time Earthquake Location

**From: Earthquake Monitoring Center (EMC) of NCS  
(R. K. Singh, Ambikapathy Ammani, Ved Prakesh, Shanker Pal  
Narendra Pandey and Shashank Rai)**

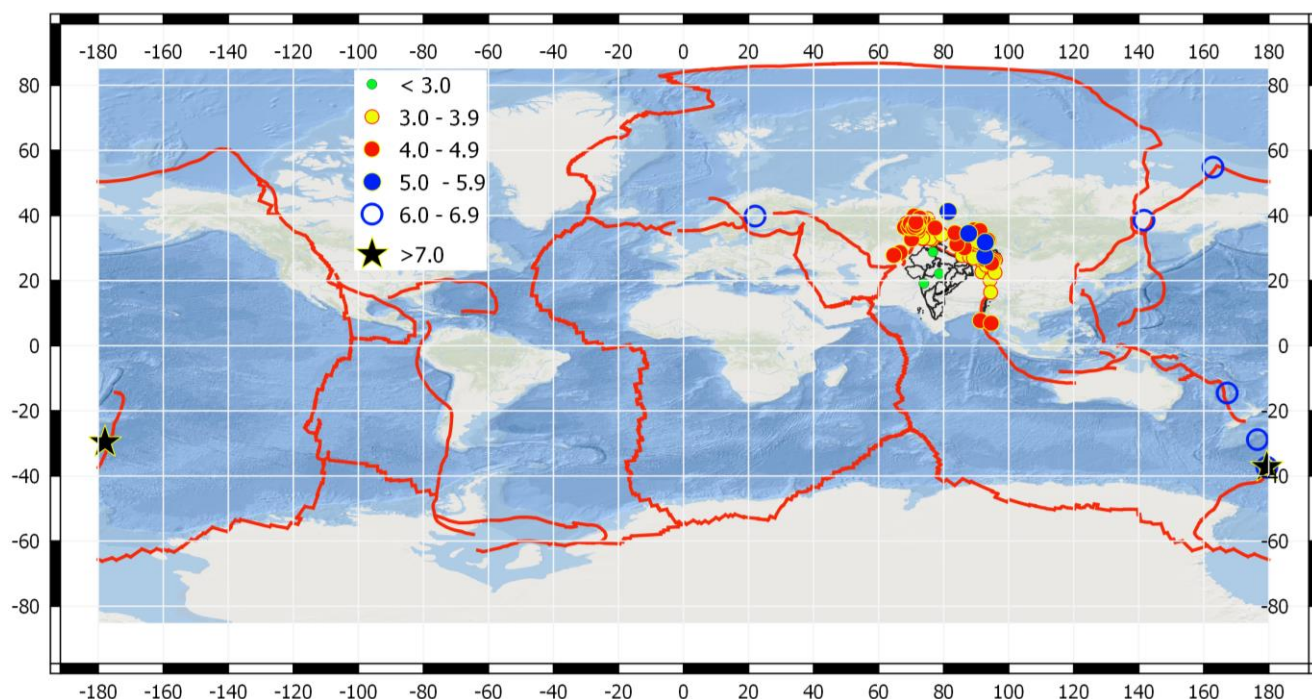
National Center for Seismology  
Ministry of Earth Sciences  
Government of India

Month: March 2021  
Technical Report No: NCS/2021/03

# Report of Earthquakes occurred in the month of March 2021

## 1) Introduction:

National Center for Seismology maintains National Seismological Network of 115 stations each having state of art equipment and spreading all across the country. Using these stations during the period 01<sup>st</sup> – 31<sup>st</sup> March 2021 a total number of 131 earthquakes have been located and disseminated from the center (**Fig:1**), out of which 121 earthquakes has occurred in India and its neighborhood region bounded by the coordinates 0°- 40°N & 60°-100°E (**Fig:2**).



*Fig:1 Earthquakes located and disseminated by NCS during 01<sup>st</sup> –31<sup>st</sup> March 2021*

## 2) Seismicity:

During the period, the density of earthquakes in India and its neighborhood region bounded by the coordinates 0- 40°N & 60-100°E; can largely be seen in Hindu Kush region, North Western and North Eastern part of India as shown in **Fig:2**. Couple of earthquakes in the magnitude rang from M:4.0 to M:4.9 occurred in Andaman-Nicobar island region. Few smaller magnitude earthquakes of **M:2.4** in Rohtak, Haryana; **M:2.4** in Pune, Maharashtra and **M:2.8** in Chhindwara, Madhya Pradesh were also reported during the month.

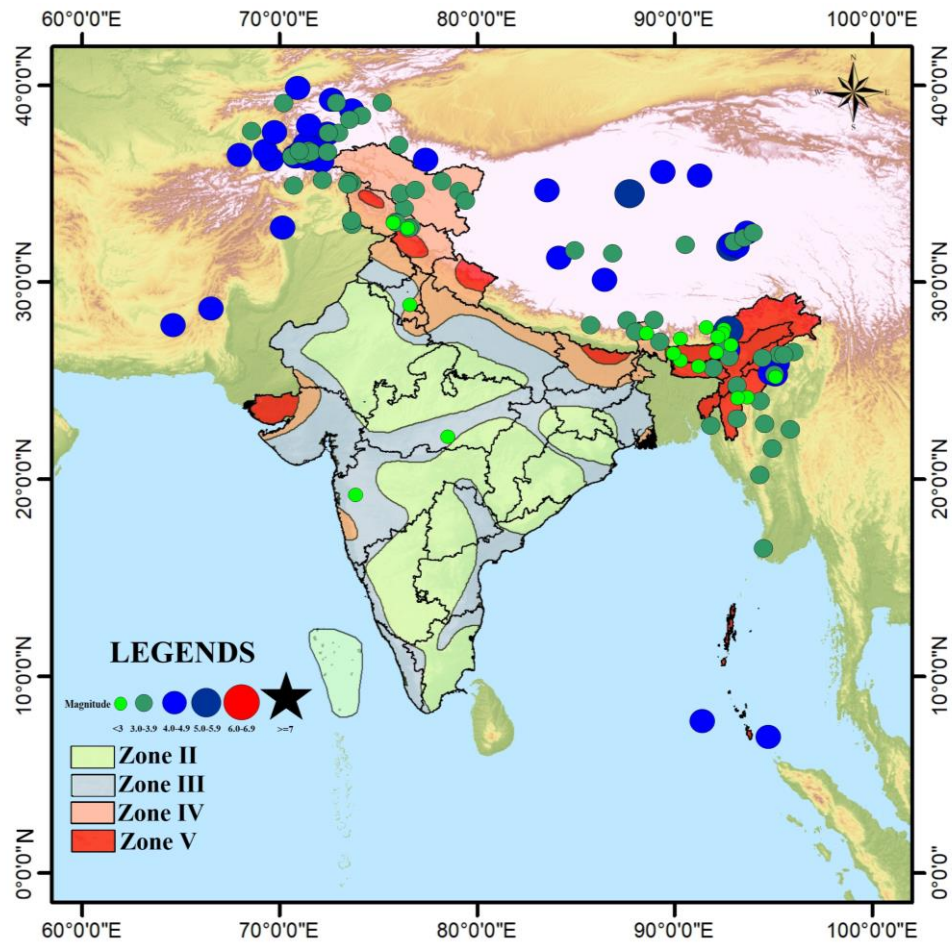


Figure No: 2 Map showing the seismicity during the period 01<sup>st</sup> – 31<sup>st</sup> March 2021 occurred in India and its neighbourhood region along with the seismic zone of India.

Out of total 131 earthquakes, around **47%** and **29%** of events occurred in the magnitude range **3.0-3.9** and **4.0 -4.9** respectively, whereas only four, six and three earthquakes occurred in the magnitude range, **5.0-5.9**, **6.0-6.9** and **≥7.0** respectively as shown in **Fig:3**. Detail list of earthquakes occurred during the month is available at [www.seismo.gov.in](http://www.seismo.gov.in)

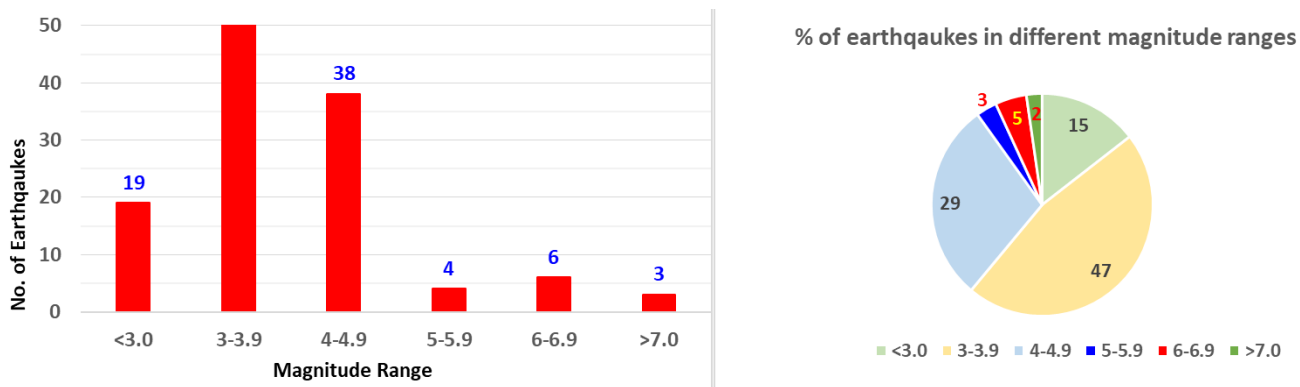


Figure 3: Pie-Chart and Bar-Diagram showing the number of earthquakes occurred in the magnitude range during the period 01<sup>st</sup> – 31<sup>st</sup> March 2021 that was disseminated.

### 3) Significant Earthquakes:

During the period 01st -31st March 2021 one earthquake occurred in India **M:5.0**, on 2021-03-26 at 19:02:08(UTC) in Tawang, Arunachal Pradesh. This earthquake was reportedly felt in the region (Fig:4).

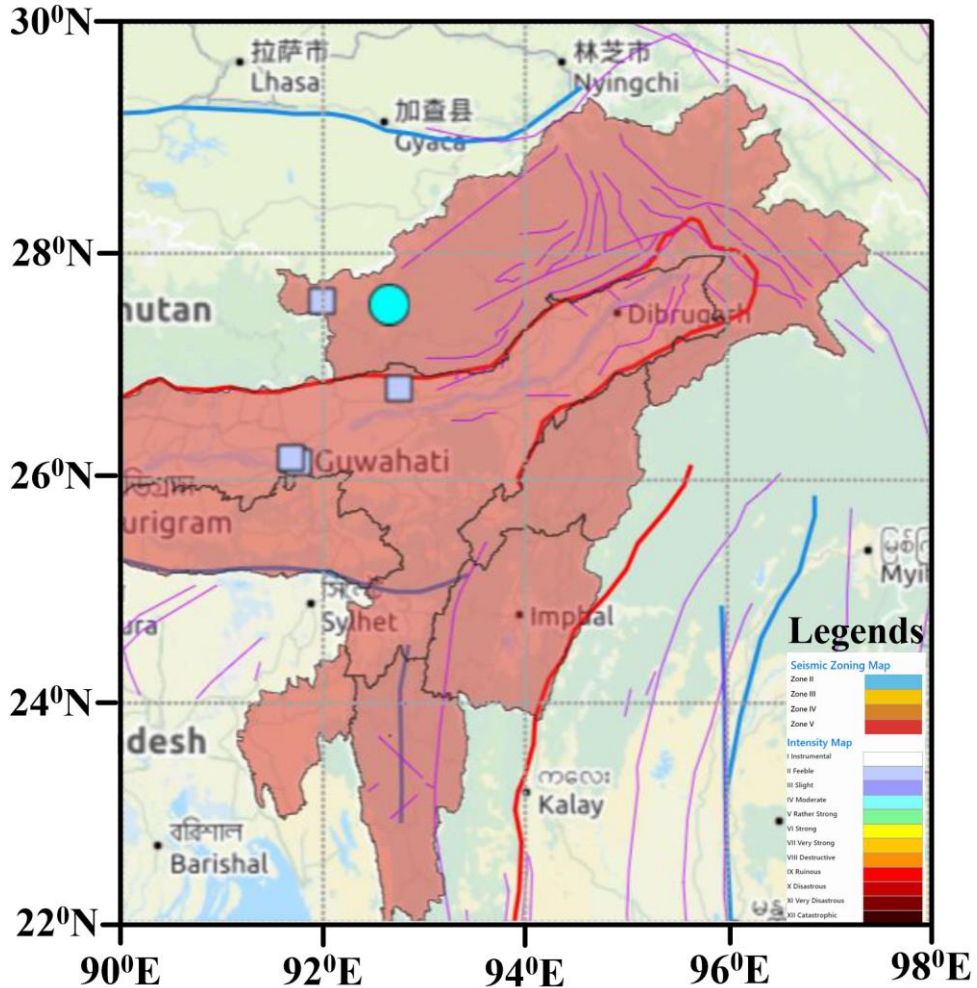


Fig:4 Map showing the epicentre (Blue Circle) and felt responses received from different parts of the country for the M:5.0, on 2021-03-26 at 19:02:08(UTC) in Tawang, Arunachal Pradesh; overlaid on Zonation (zone IV) map of India