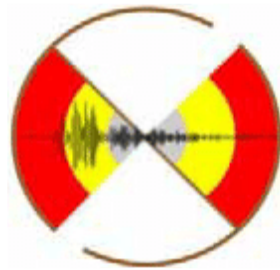




A Preliminary Report of October 06, 2026, Chamoli, Uttarakhand (M 4.9)

(Report No.: NCS-NSN-16)



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An earthquake of magnitude M 4.9 occurred on 06 October 2026 at 22:23:13 IST in Chamoli District, Uttarakhand, with its epicenter plotted as shown in the Figure 1. The focal depth was shallow (13 km), typical of Himalayan crustal seismicity. The tremor was felt across the central Himalayan region and also reported from the Delhi National Capital Region. The mainshock epicentre was located approximately 148 km east of Dehradun, 52 km south of Joshimath, 135 km northeast of Haridwar, and about 282 km northeast of Delhi, capital of India.

The Chamoli region is tectonically controlled by the Main Central Thrust (MCT), the Munsiri Thrust (MCT-I), the Main Boundary Thrust (MBT), and the Main Frontal Thrust (MFT) (Figure 1). The moment tensor solution for the present event indicates a dominant thrust mechanism, consistent with the compressional regime of the central Himalaya. The epicentral location corresponds to the active segment of the MCT and MBT, where stress accumulation frequently generates moderate earthquakes.

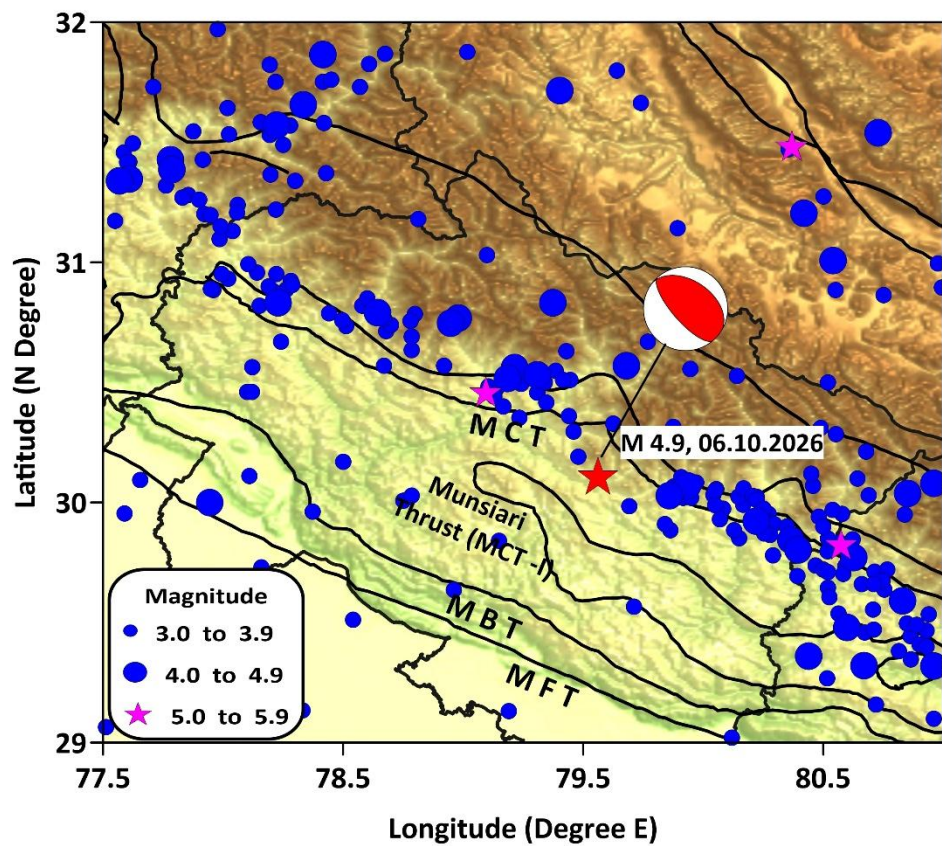


Figure 1: The present earthquake (M 4.9) of 06th October 2026 shown as a Red The past seismicity of M > 3.0 during 2016 to July 2026 surrounding region of epicenter is shown as a blue circle and magenta star. The geological faults and lineament were obtained from Bhukosh, GSI.

Maximum Intensity V (MMI scale) for the event is reported from within approximately 5 km of the epicentre, while minimum Intensity II (MMI scale) has been reported from as far as 300 km from the epicentre. (Figure 2). The PGA values at different stations recorded are detailed in Table 1. A total of 65 felt reports were received via the NCS website and mobile app, indicating intensities ranging from III to IV on the MMI scale (Figure 3).

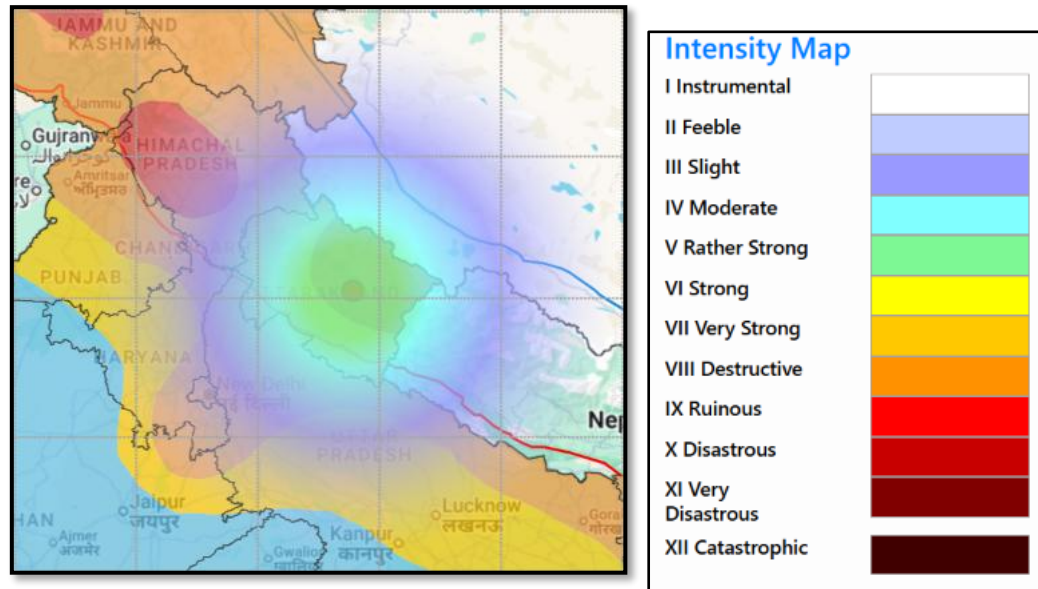


Figure 2: Earthquake intensity map of the 06th Oct 2026, earthquake with M 4.9, located in Chamoli district, Uttarakhand.

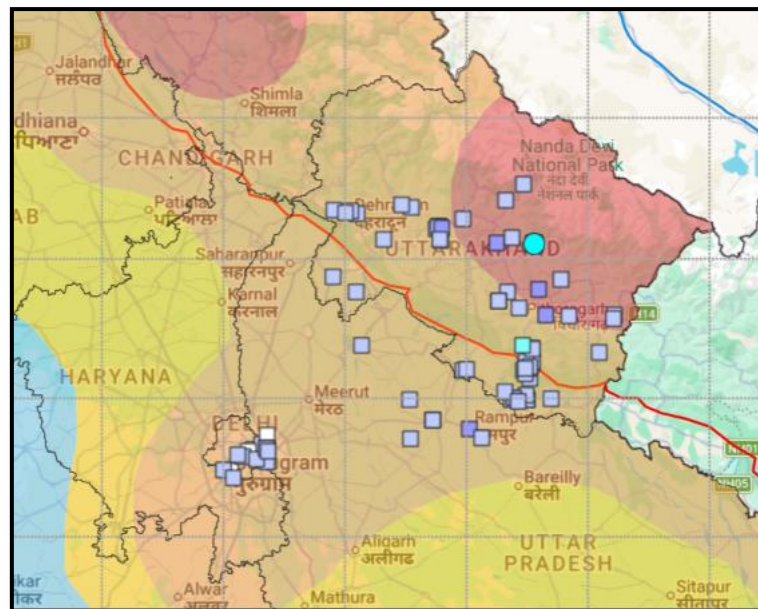


Figure 3: Felt responses (squares) of the 06th Oct 2026 earthquake M 4.9 (circle) from different users reported on www.seismo.gov.in and BhooKamp mobile app.

Table 1: PGA value of the 06th October 2026, earthquake with M 5.4 located in Upper Siang, Arunachal Pradesh.

Station Name	Distance(km)	PGA(g)
Joshimath	50	0.0092
Pithoragarh	85	0.0022
Lohaghat	93	0.0037
Uttarkashi	128	0.0021
Meerut	207	0.0027