सत्यमेव जयते

A Preliminary Report of August 05, 2026, Upper Siang, Arunachal Pradesh Earthquake (M 5.4)

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An earthquake of magnitude M 5.4 occurred on 05 August 2026 at 15:36:11 IST in Upper Siang, Arunachal Pradesh, with its epicentre at 29.008°N, 94.739°E and a focal depth of 17 km. The event was preceded by a foreshock of M 3.6 five minutes earlier. Within two hours, a significant aftershock of M 5.1 was recorded north of the epicentre, along with several smaller aftershocks (M > 2.5). The mainshock was located approximately 171 km north of Dibrugarh (Assam), 233 km northwest of Changlang (Arunachal Pradesh), 241 km NNE of Itanagar (Arunachal Pradesh), 256 km north of Jorhat (Assam), and 299 km north of Mokokchung (Nagaland). The affected region lies in Seismic Zone V as per the seismic zoning map of India (IS 1893: Part 1, 2016).The epicenter location (Figure 1) intensity distribution is shown in Figure 2.

The epicentral region 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 transpressional regimes, where The Indian Plate underthrusts beneath the Eurasian Plate, driving crustal shortening and Mishmi and Lohit thrusts accommodate oblique convergence and crustal imbrication. The moment tensor inversion for the present event indicates a dominant thrust mechanism with minor strike-slip components, consistent with the oblique convergence setting of the eastern Himalayan syntaxis (Figure 1).

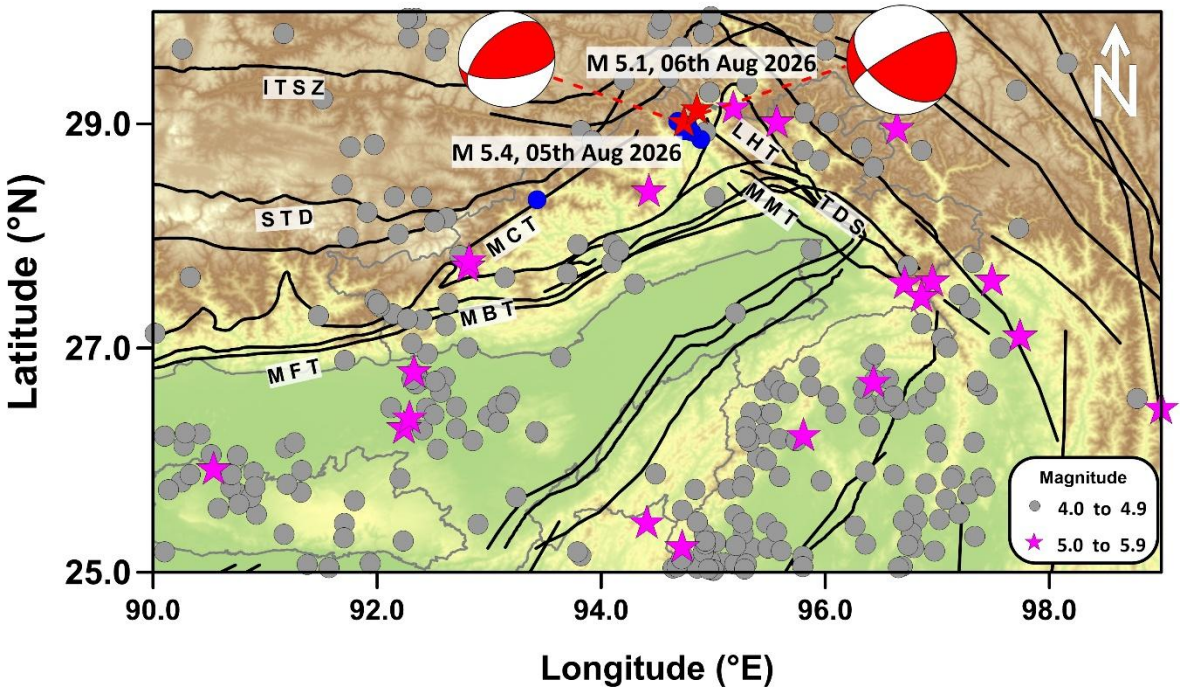

Figure 1: *The present earthquake (M 5.4) of 05th August 2026 and M 5.1, 06th Aug 2026 shown as a Red star and it aftershocks shown as a blue circles. The past seismicity of M > 4.0 during 2016 to*

July 2026 surrounding region of epicenter is shown as a grey circle and magenta star. The geological faults and lineament were obtained from Bhukosh, GSI.

Maximum Intensity VII (MMI scale) for both 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 at Table 1.

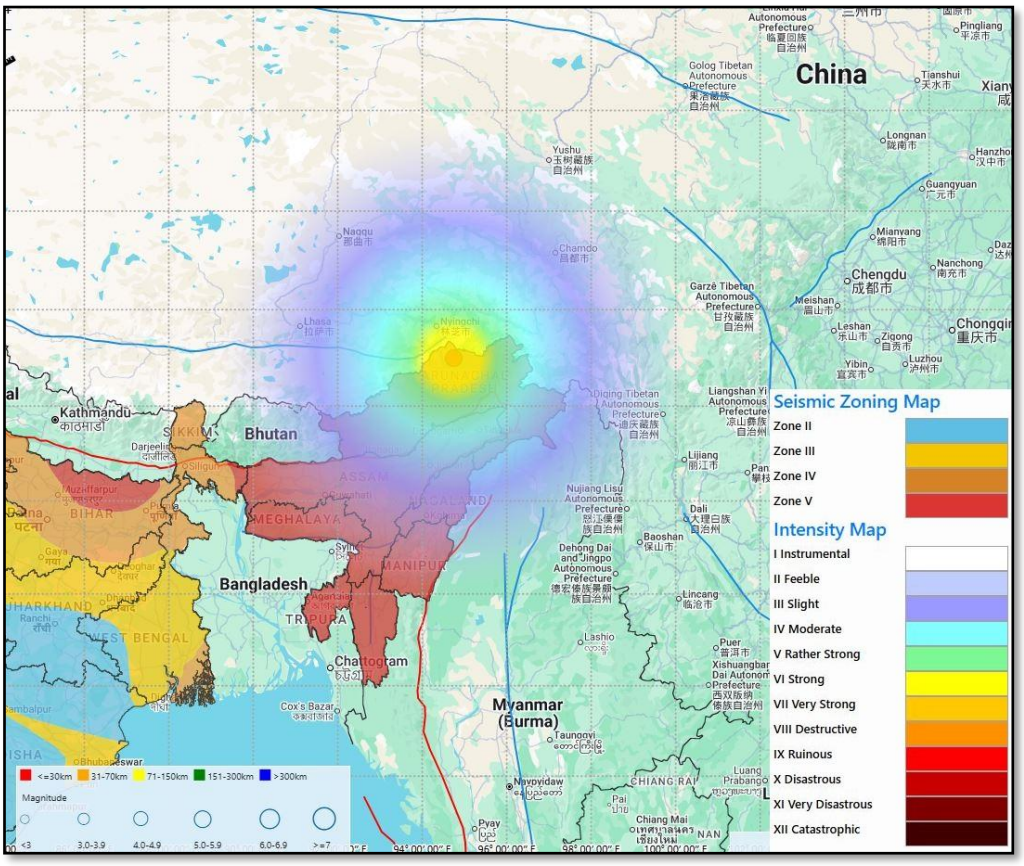

Figure 2: *Earthquake intensity map of the 05th August 2026, earthquake with M 5.4, located in Upper Siang, Arunachal Pradesh.*

Table 1: PGA value of the 05th August 2026, earthquake with M 5.4 located in Upper Siang, Arunachal Pradesh.

Station Name	Distance(km)	PGA(g)
Pasighat (PASG)	118	0.0049
Daporijo (DPJO)	132	0.0041
Ziro (ZIRO)	185	0.0022
Lekhapani (LKP)	213	0.0036
Bomdila (BMDL)	300	0.00030