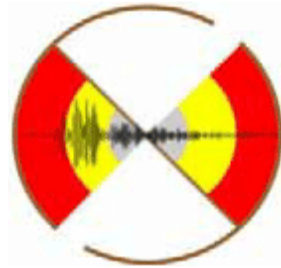




A Preliminary Report of June 27, 2026, Afghanistan Earthquake (M: 6.2)

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An earthquake of magnitude Mw 6.2 occurred on 27 June 2026 at 19:04:51 IST, with its epicentre located at 36.442° N latitude and 70.672° E longitude at a focal depth of 215 km. The epicentre lies in Badakhshan Province, Afghanistan, within the Hindu Kush mountain region, approximately 442 km northwest of Srinagar, 540 km northwest of Jammu, 830 km northwest of Chandigarh, and 1,044 km northwest of Delhi (**Figure 1**).

This seismically active area is associated with collisional tectonics, where the Indian Plate subducts beneath the Eurasian Plate. The epicentral zone is characterized by deep-focus earthquakes linked to the subducted Indian lithosphere. The principal fault systems in this region include the Central Badakhshan, Darvaz, and Andarab faults. Preliminary fault-plane solutions from moment-tensor inversion indicate a thrust fault mechanism for this event. The expected maximum intensity is IV (MMI scale) in the source region, with shaking diminishing to Intensity II (MMI scale) at distances of ~500 km from the epicentre (**Figure 2**).

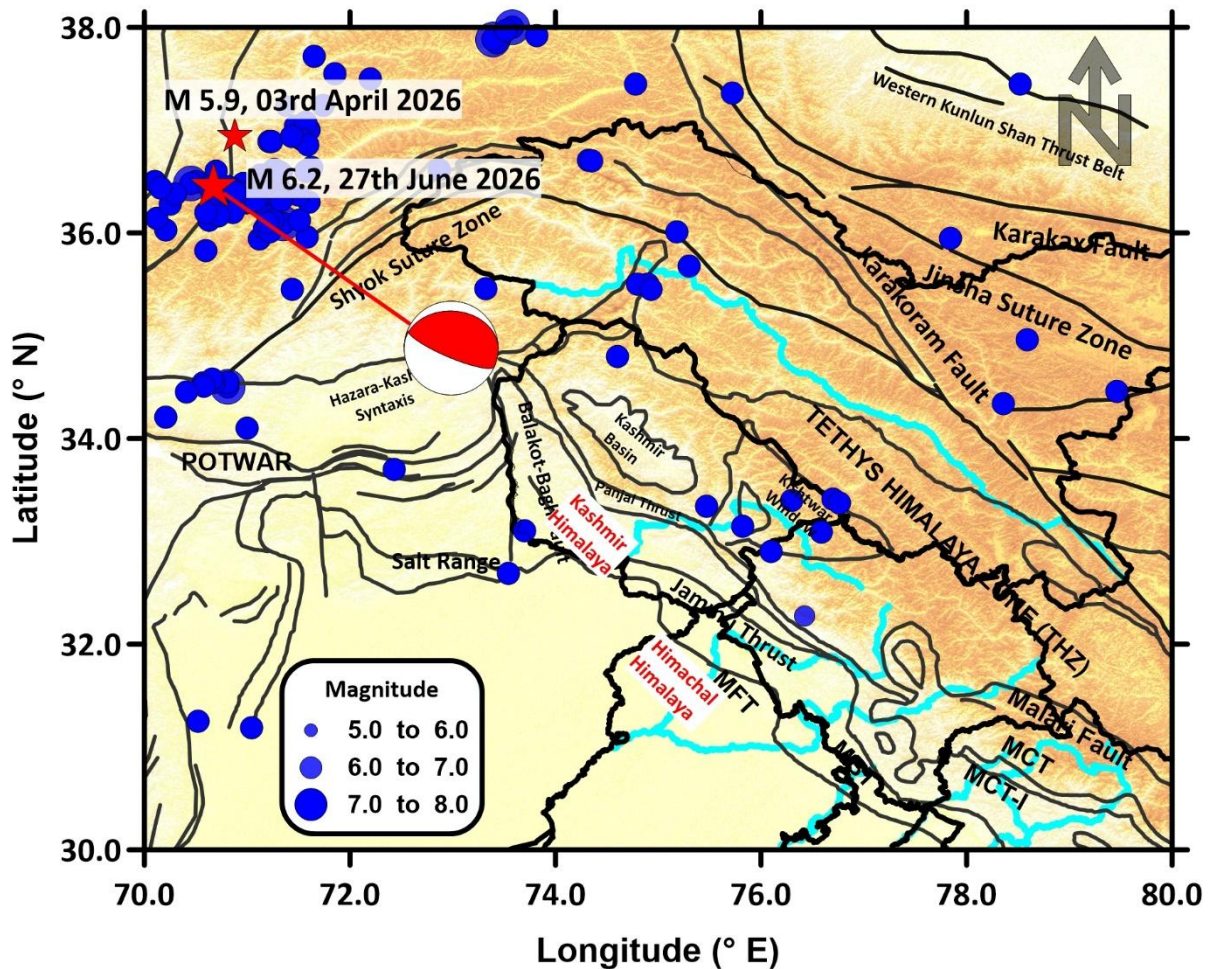


Figure 1: The present earthquake (M 6.2) of 27th June 2026 and the past 5 years earthquake of $M \geq 5.0$ in the epicentral and surrounding region. (source: www.seismo.gov.in; NCS-MoES). The geological faults and lineaments were obtained from Bhukosh, GSI.

The EQ Catalogue of NCS indicates that the region has experienced moderate to large earthquakes of varying magnitudes over the past five years in and around the present source zone (**Figure 1**). Notably, a magnitude 5.9 event on 03 April 2026 occurred in the same region prior to the present earthquake and was felt with slight to moderate intensity. The seismicity of this area is primarily controlled by the tectonic framework of the Himalaya, comprising the Herat Fault, Chaman Fault, Main Pamir Thrust (or Pamir Frontal Thrust) linked to Hindu Kush subduction, and the Paghman Fault west of Kabul, along with several local faults and geological lineaments that contribute to regional shortening and strike-slip motion.

The earthquake was widely felt across Delhi-NCR, Jammu & Kashmir, Himachal Pradesh, and neighbouring states, with reported intensity II on the Modified Mercalli Intensity (MMI) Scale (**Figure 3**).

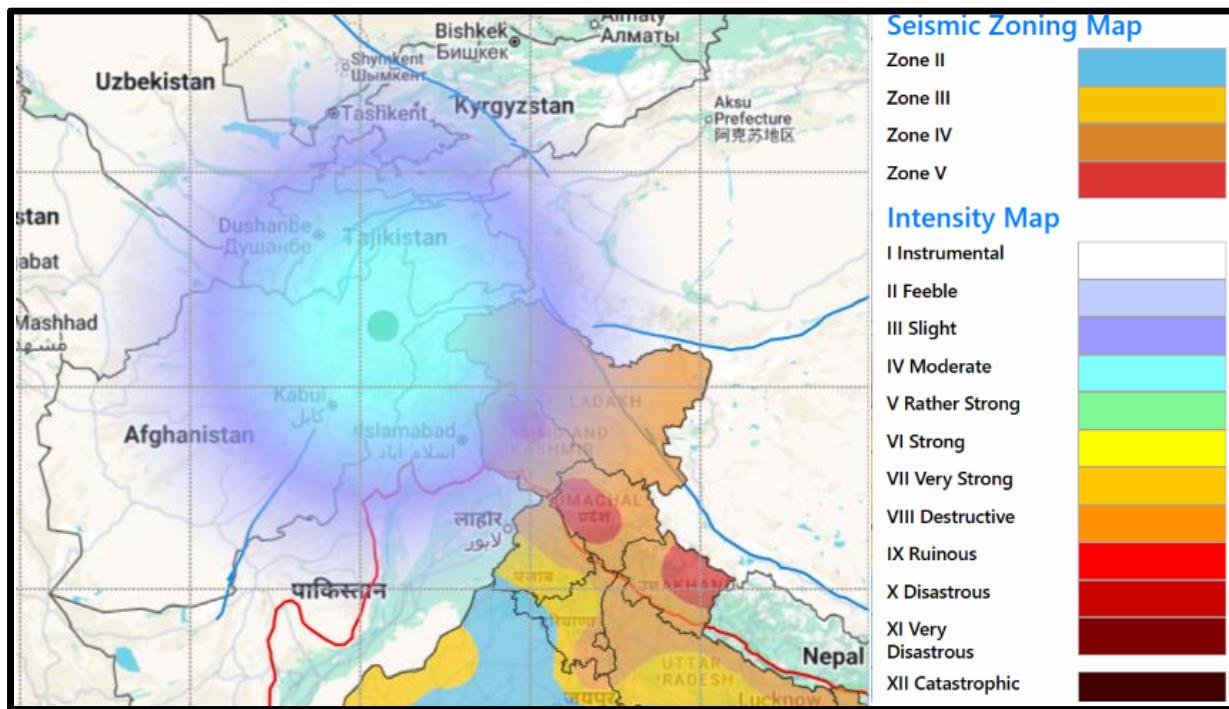


Figure 2: Estimated earthquake Intensity Map of the earthquake of M:6.2 of 27th June 2026.



Figure 3: Felt responses (squares) of the 27th June 2026 earthquake M:6.2 (circle) from different users reported on www.seismo.gov.in and the BhooKamp mobile app. Only three responses were received within two hours of the time of occurrence of the earthquake.