

Preliminary Report on Earthquake of M: 5.1 Occurred in Bay of Bengal on 5th December, 2022

1. An Earthquake of M: 5.1 occurred in Bay of Bengal having epicenter at 19.13° N, 89.76° E and focal depth of 36 km at 08:32:57 IST on 05/12/2022. Epicentre is about 409 km SSE of Kolkata, India and 418 km East of Puri, Odisha. Location map of earthquake along with expected intensity is shown in Figure-1.

2. The area within 200km radius from the epicenter of today's earthquakes experienced 6 earthquakes of magnitude 4.0 and above during the past 10 years (2012-2022). The maximum magnitude of M: 5.8 occurred on 21st May 2014 which was 195 km SW of today's event.

3. The earthquake occurred along 90 Degree East Ridge and closer to the subduction zone in which the Indian oceanic Plate is being subducted beneath the Burma micro-plate.

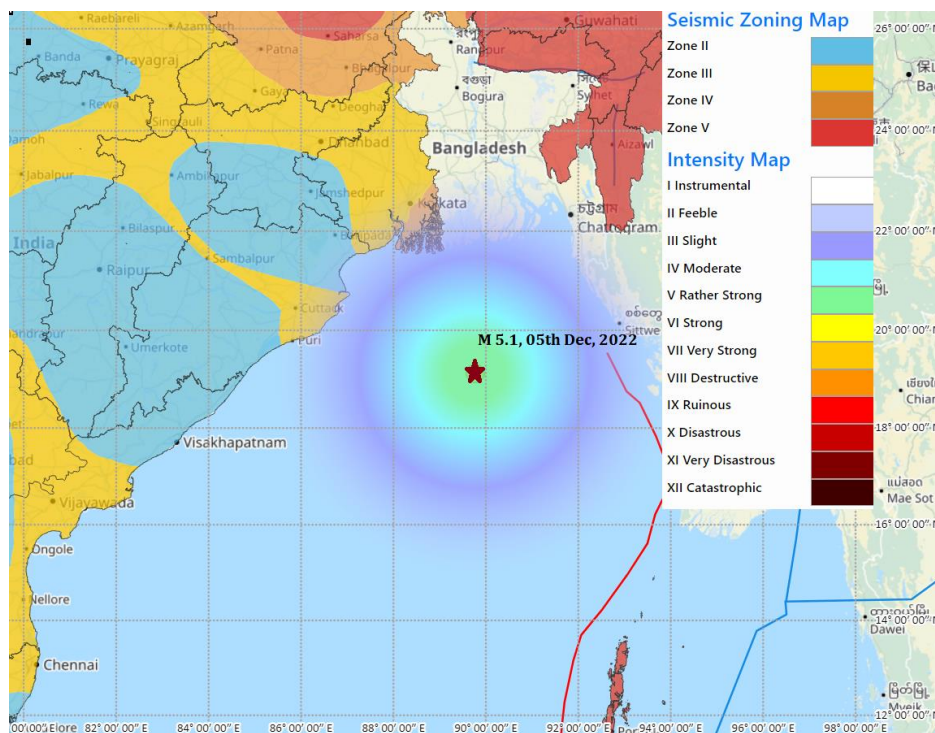


Figure 1: Location and expected intensity of earthquake occurred on 05th December 2022.