

Report on two consecutive Earthquakes occurred in Nicobar Islands on 03rd Aug 2021.

1. Two following consecutive the 3rd August 2021 Nicobar Island earthquakes are recorded by National Seismological Network ascribed to National Centre for Seismology (NCS), Ministry of Earth Sciences.
 - (a) The **first earthquake** of magnitude (M **6.1**) originated at 09:12:12 IST at 9.05⁰ N; 93.91⁰ E at focal depth of 10 km;
 - (b) **The second earthquake** of magnitude (M **5.9**) occurred in the Nicobar Islands and located at 9.19 deg. N and 93.94 deg E with focal depth 10 Km originated at 09:13:55 IST.
2. These two earthquakes are found confined in the vicinity of the West Andaman Fault (WAF). The epicenter is about 314 km SSE of Port Blair, 1494 km SE of Visakhapatnam and 1559 km ESE of Chennai.
3. The area falls in seismic zone V in seismic zoning map of India (IS 1893 (Part 1): 2016) which lies on the Andaman-Sumatra Subduction Zone, one of the highest seismically active zone. Location and intensity map of both earthquakes of Magnitude 6.1 and 5.9 are shown in **Figure 1** and **Figure 2**, respectively.
4. It is pertinent to note that these two earthquakes are located at a distance of 688Km NW to the disastrous 26th December 2004 tsunamigenic Sumatra-Andaman Earthquake (M:9.3) and 750 Km NW to the 28th March 2005 Nias Earthquake (M 8.6) as shown in **Figure 3**.
5. During the last 10 years, a total of 7- earthquakes (M \geq 5.0) with the highest magnitude (M 5.5) was reported to occur within a radius of 100 km from the epicenters of today's (03.08.2021) earthquakes.

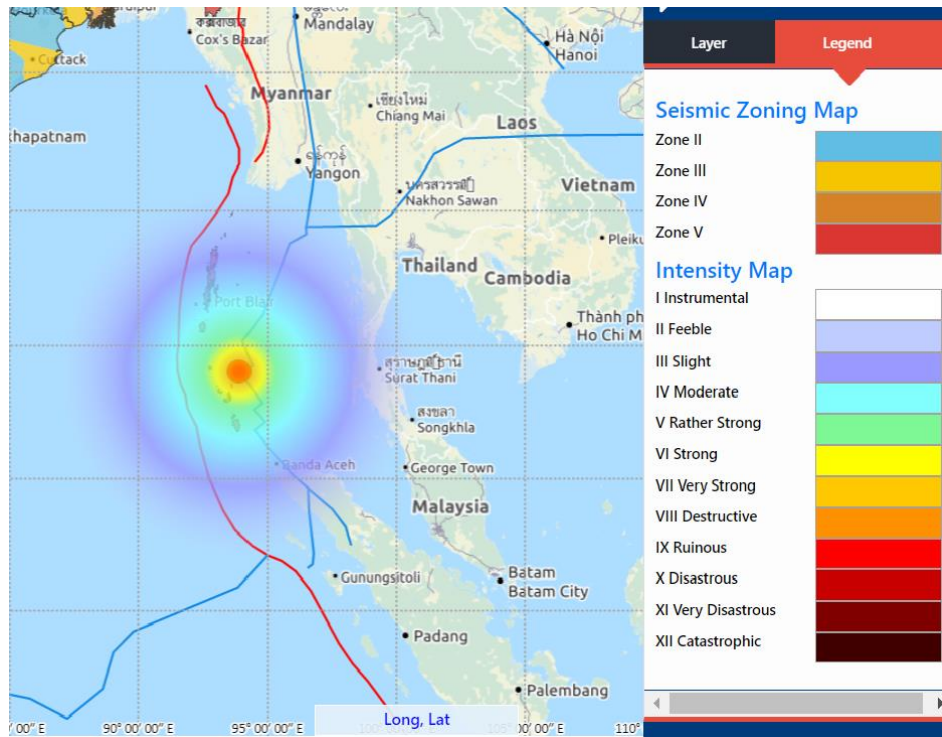


Fig 1: Location (ORANGE circle) and Intensity map of earthquake of 03rd August 2021 (M:6.1), Nicobar Islands. An Intensity of VII on MMI scale was observed in epicentral area.

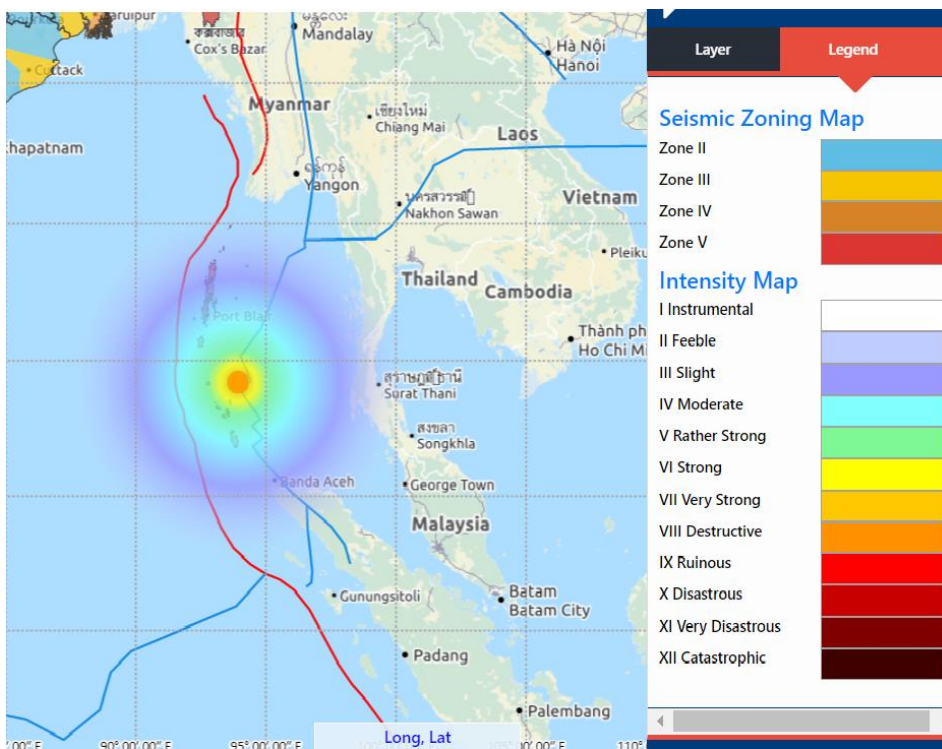


Fig 2: Location (ORANGE circle) and Intensity map of earthquake of 03rd August 2021 (M:5.9), Nicobar Islands. An Intensity of VI on MMI scale was observed in epicentral area.

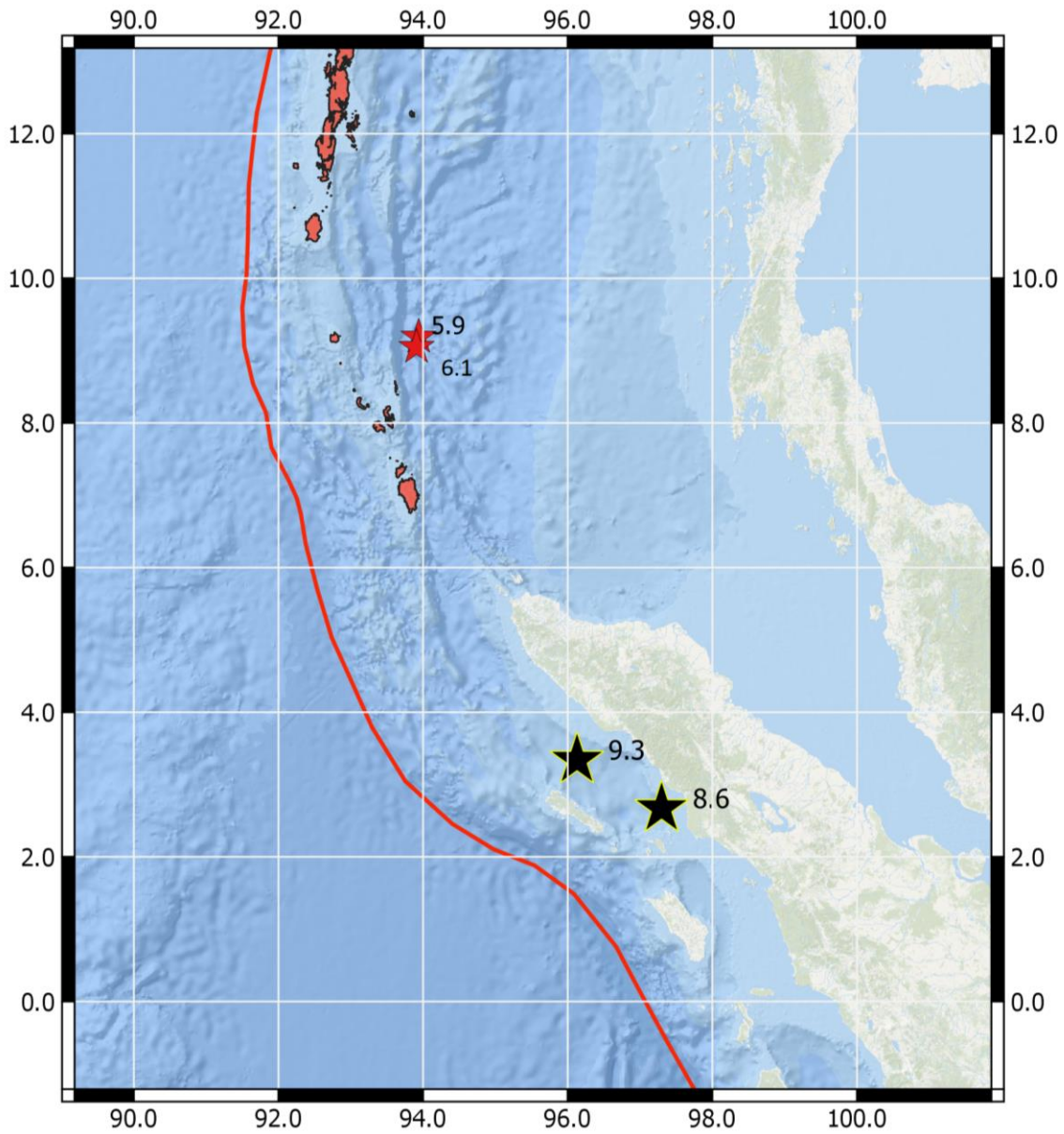


Fig 3: Location of Coupled Earthquake of **M:6.1 & M:5.9 (ORANGE circle)** and Location of 2004 and 2005 Sumatra Andaman Tsunami earthquake of **M:9.3 and M:8.6** .