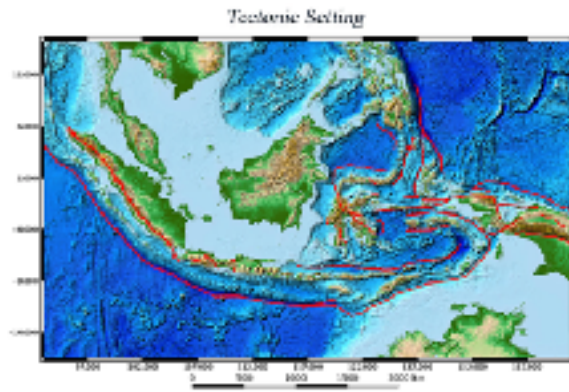
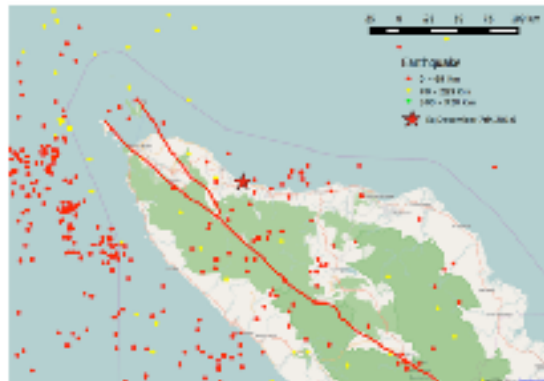


M 6.5 Pidie Earthquake

Wednesday, Dec 7th, 2016 at 22:03:32 UTC (05:03:32 WIB)



Tectonic Setting



Earthquake location and historical earthquake around the area

Major tectonic setting in this area is subduction zone in western part of Sumatera

and Sumatera fault system along the Sumatera island. Focal mechanism shows this earthquake major mechanism was strike slip.

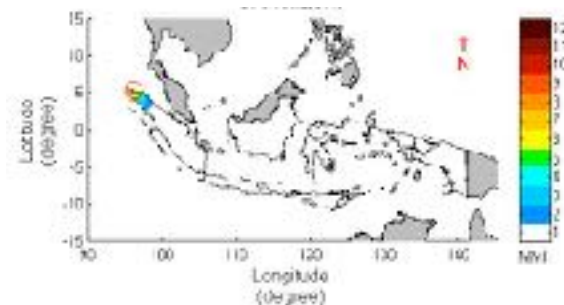
Discussion

2015-11-7 at 22:03:32 UTC or 05:03:23 local time an Earthquake with M 6.5 occurred. Epicenter at 96.108° E 5.281° N and 8.6 Km depth. Combination of medium magnitude

and shallow depth results building damages as consequences.



USGS focal mechanism give us information that dominant movement

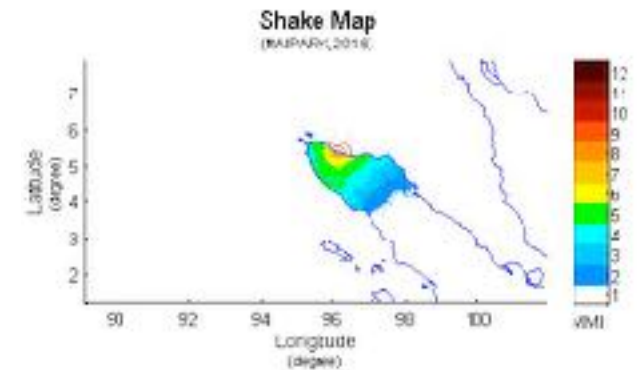


Shakemap of December 7th, 2016 earthquake

mechanism was strike slip, which is not the dominant mechanism of subduction margin, but location far away from the major

Sumatera Fault System. Most Possible it is related to Semalanga-Sipopok, the closest known strike slip fault in vicinity area of epicenter. The depth and location of hypocenter also support this argument.

Shakemap of our model estimated maximum intensity is VII-VIII MMI. Preliminary report of media also show some damages level of building those confirm our calculation about maximal intensity.



Detail Shakemap of December 7th, 2016 earthquake

Loss Estimation

Our model estimated IDR 100-500 billion of possible economic loss. Based on national earthquake database in MAIPARK we also estimated most possible insurance loss from building damage could be around IDR 0-20 billion.