

GEOLOGICAL CONDITIONS AND NATURAL DISASTERS IN INDONESIA



Indonesia is a country in Southeast Asia, which is crossed by the equator and located between Asia and Australia and between the Pacific and Indian Oceans.

Indonesia is the largest archipelago in the world comprising 13,466 islands.

Indonesia consists of five large islands : Java, Sumatra, Kalimantan, Sulawesi, and Papua

- Indonesia is a meeting area 3 large tectonic plates, the Indo-Australian, Eurasian plates and Pacific plates

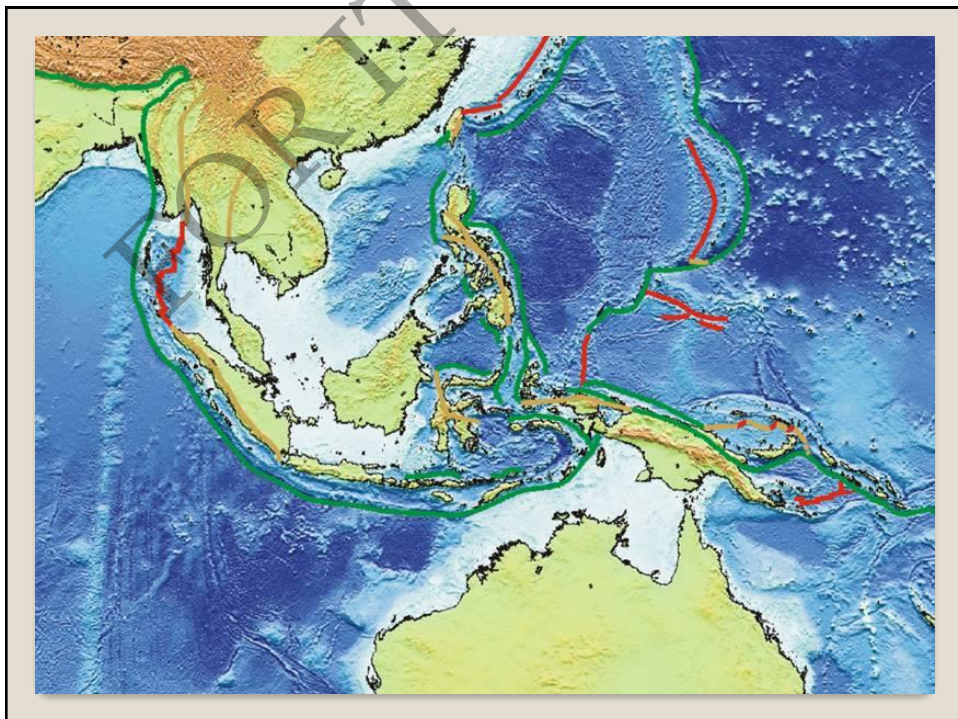
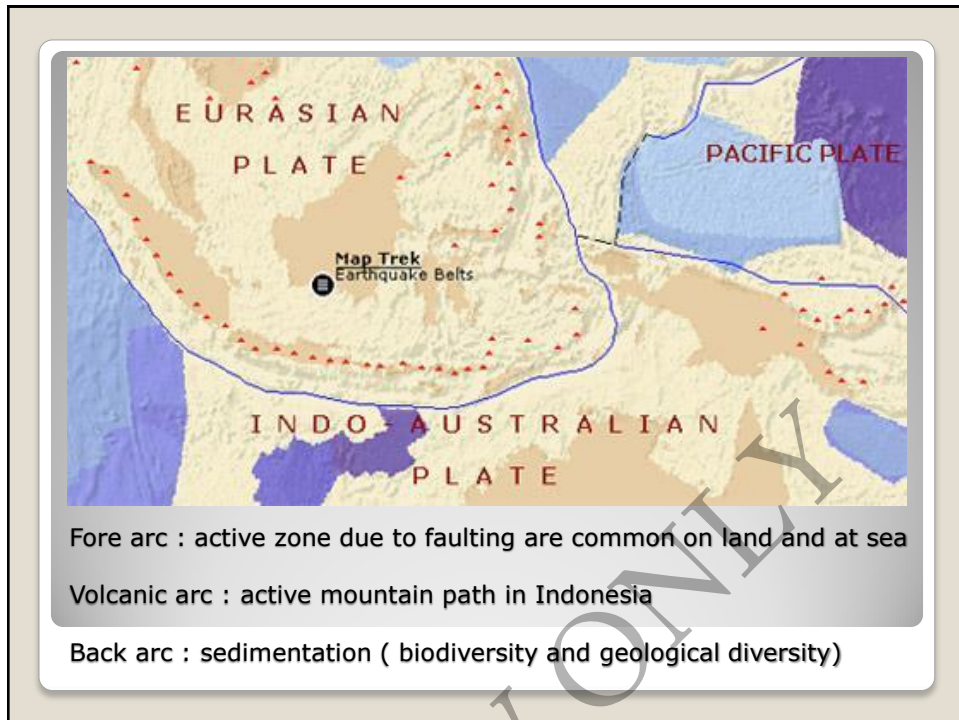


Map Tectonics and Volcanoes in Indonesia. The blue line represents the boundary between tectonic plates, and the red triangle symbolizes collection volcano

The impact of three tectonic plates meeting

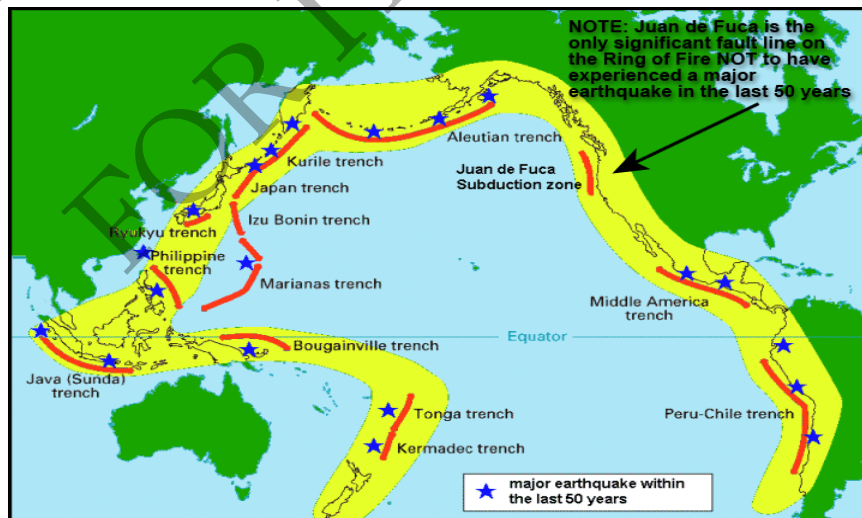
Disaster:
The Earthquake
Tsunami
Volcanic eruption
landslide

Mine :
Oil
Natural gas



INDONESIA AS A NATURAL MARKET DISASTER

- Almost all islands in Indonesia has potential disasters and disasters that often happens is that the earthquake, volcano eruption, landslide, flood etc



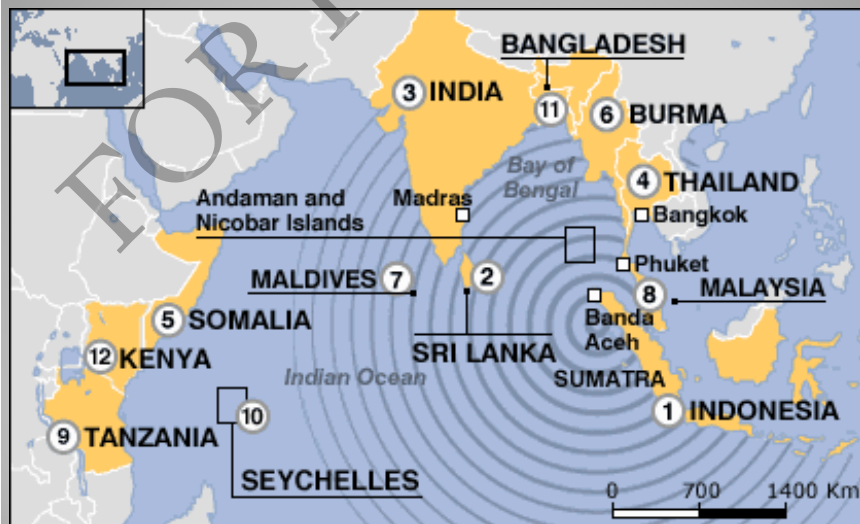
RING OF FIRE IN INDONESIA AS A FACTOR OF DISASTER

MAJOR DISASTERS IN INDONESIA

- **The eruption of Mount Krakatoa** on 26-27 August 1883 was so powerful, clouds heat and resulting tsunami killed about 36,000 people. Up until the date of December 26, 2004, this is the biggest tsunami in the Indian Ocean region. Cracking noise was heard up in Alice Springs, Australia and the island of Rodrigues near Africa, 4653 miles.



December 26, 2004 **tsunami in Aceh**, Nias, South Asia, Southeast Asia and Africa. Victim over 200,000 people (150,000 people in Aceh and Nias). Tsunami reached a height of 35 meters as 9.3 magnitude tectonic earthquake in the Indian Ocean



And on October 26, 2010, **eruption of Mount Merapi** entered the stage. eruption occurred at around 17:02 pm. At least up to three times the eruption occurred. Discharge accompanied by pyroclastic eruptions as high as 1.5 meters. The eruption of volcanic material as high as approximately 1.5 miles.

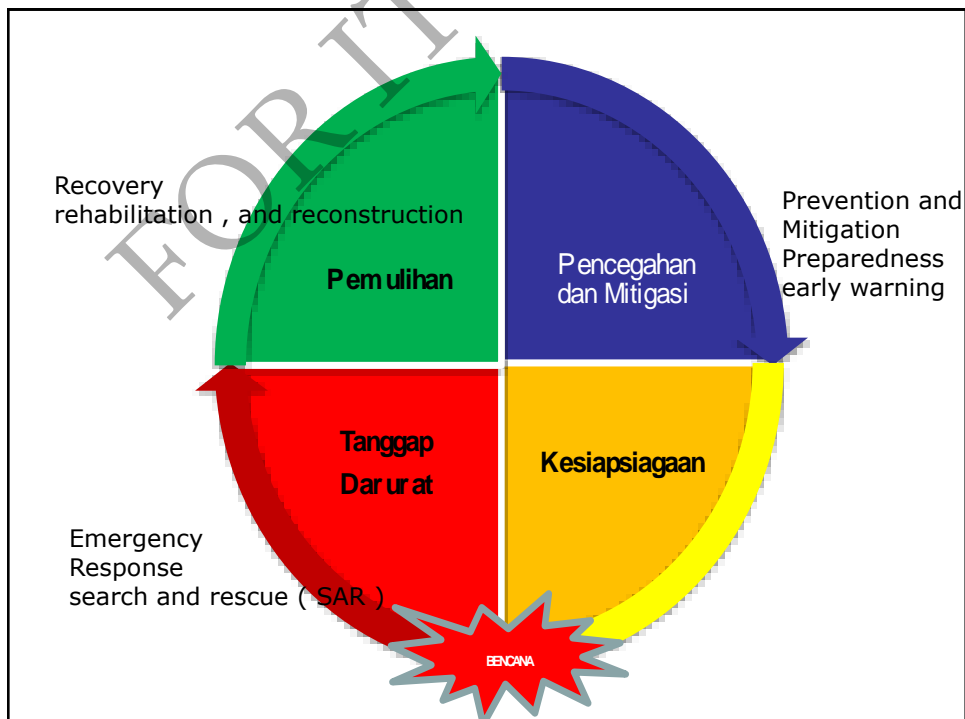


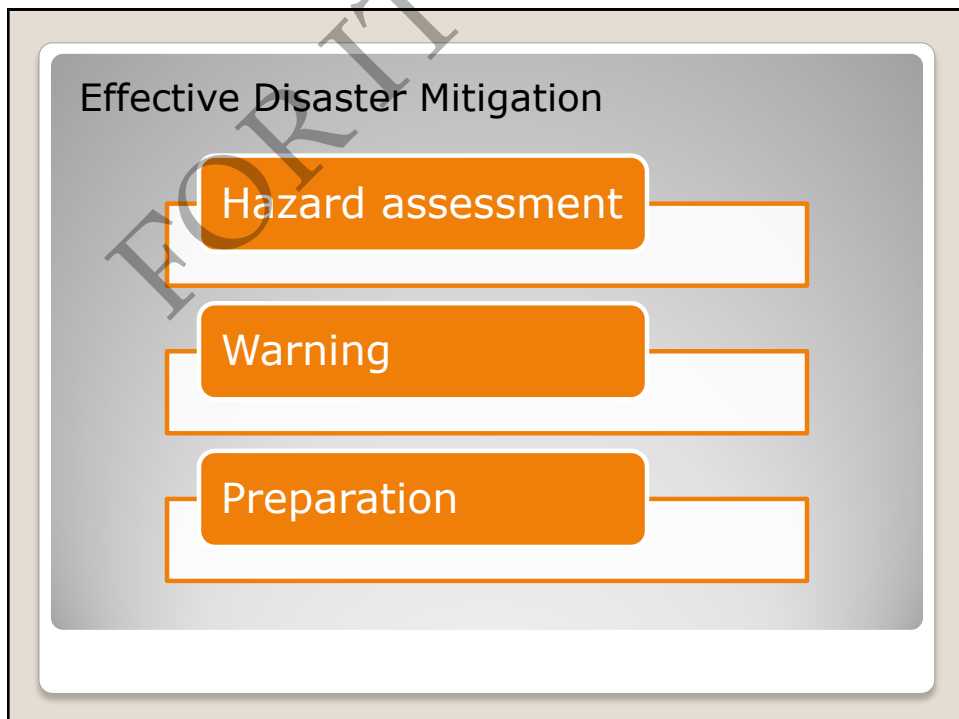
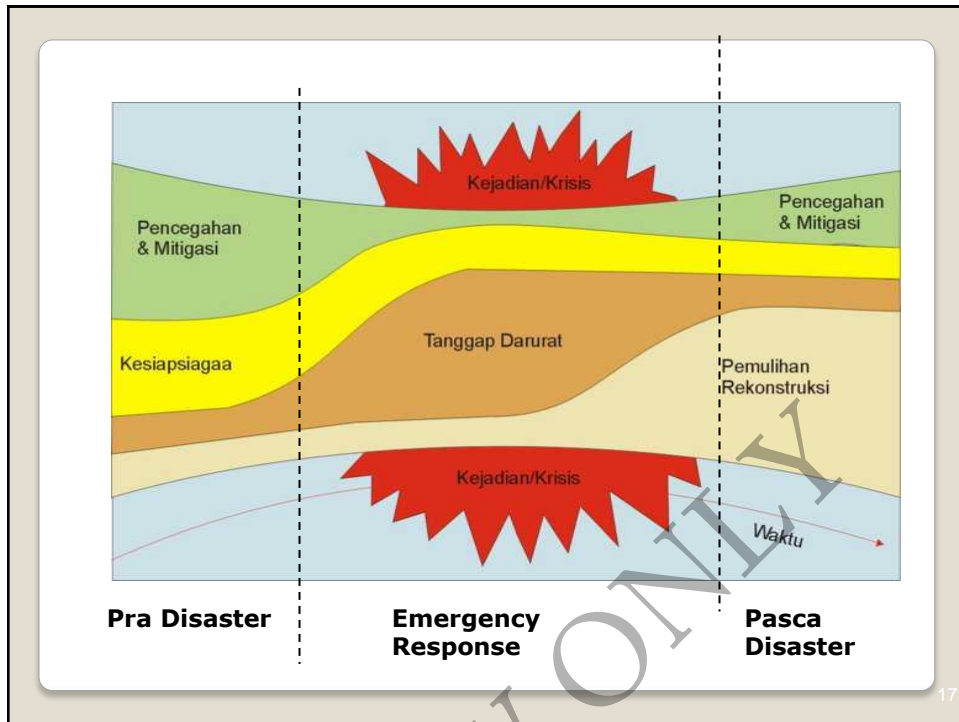
Wasior **flood disaster** that occurred on October 4, 2010 in Wasior, Wondama Bay, West Papua



In general, disaster management activities in Indonesia can be divided into three main activities, namely :

- 1 . Activities include pre- disaster prevention, mitigation , preparedness and early warning ;
- 2 . During disaster events that include emergency response activities to relieve suffering temporarily , such as activities of search and rescue (SAR) , emergency assistance and evacuation ;
- 3 . Post-disaster recovery activities that include , rehabilitation , and reconstruction .





- Government Agencies



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