Topic three – Hazards

eywords

- Capacity to cope Tropical storms storm surges Landfall Storm eye
- Magnitude
- Seismograph
- Epicentre
- Focus
- Seismic waves Storm shelters
- El Nino
- Mitigation
- Social impacts
- **Economic impacts**
- Environmental
- impacts

- Tectonic plates
- Plate margins

Mantle

Convection

currents

Protection

Prediction

evacuation

Secondary

impacts

Immediate

Long-term

responses

responses

• Climate change

• Greenhouse gases

Primary impacts

• Planning

• Crust

Important information

Image 1 – Conservative plate margin – A At a conservative plate margin, plates move at different speeds, causing friction and pressure buildup. This results in massive earthquakes, which can be destructive near Earth's surface, as there are no volcanoes.

Image 2 – Destructive plate margin – A destructive plate margin occurs when oceanic and continental plates collide, causing earthquakes. Oceanic plates subduction occurs when denser plates sink into the mantle, forming magma that rises through volcanic eruptions. Collisions between continental plates cause land to buckle upwards, forming fold mountains called collision margins, where earthquakes can occur.

Image 3 – Constructive plate margin – A Plate margins cause magma from the mantle to rise, creating shield volcanoes and causing earthquakes when plates move apart from each other.

Image 4 – Mount Merapi

In late October 2010, earthquakes and lava flowed, affecting 19000 people and causing evacuations. Magma rose to 1000m below summit, resulting in 153 deaths and 320,000 homes evacuations.

