

# Tsunamis

Case  
Studies:

Indonesia

26th December 2004

Japan

11th March 2011

Study*ladder*



# 26 December 2004

## Sumatra, Indonesia

- A 9.1 magnitude earthquake at depth of 30km (18.6 miles) triggered a tsunami on the coast of Sumatra, Indonesia.
- Epicentre of the earthquake was 250 km (155 miles) south-south-east of Banda Aceh, Indonesia, in the Indian Ocean.
- A 1200 km (746 mile) stretch of the Indian plate was thrust up to 20 m (66 ft) under the Burma plate, raising the seafloor.
- Thirteen countries were affected, including Indonesia, Sri Lanka, India, Thailand, Myanmar, Malaysia, The Maldives and Somalia.
- Estimated at least 226,000 dead.
- Up to 5 million people lost homes, or without access to food and water.
- Estimated cost of aid and reconstruction US\$7.5 billion.



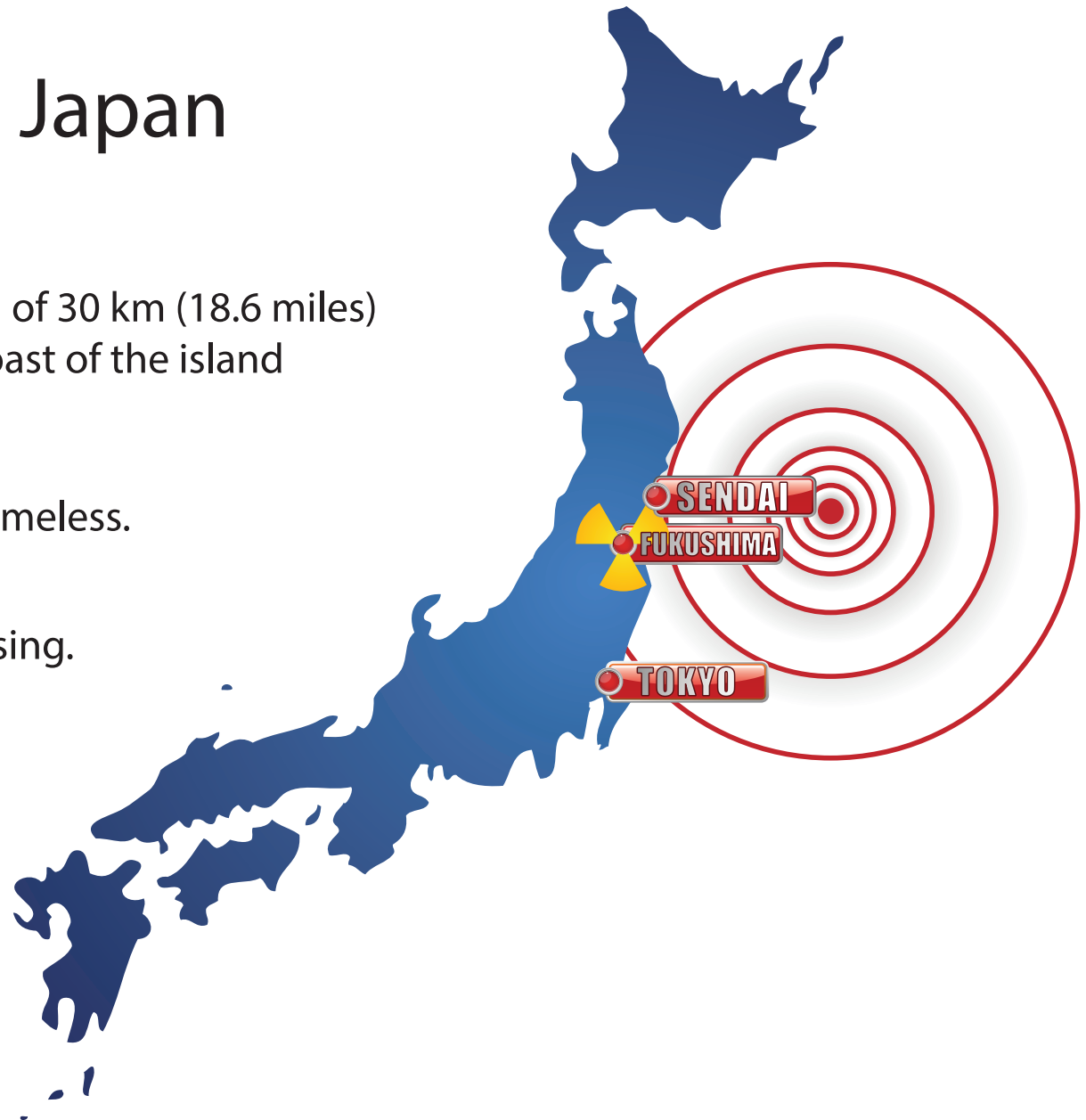
Buildings in Banda Aceh were reduced to rubble after the 2004 tsunami in Indonesia.



# 11 March 2011

## North Pacific Coast, Japan

- A 9.0 magnitude earthquake at depth of 30 km (18.6 miles) triggered a tsunami on the eastern coast of the island Honshu, Japan.
- Almost half a million people made homeless.
- Estimated 25,000 people dead or missing.
- Estimated total cost of the damage: 25 trillion yen (US\$309 billion).
- Damage to Fukushima Daiichi Nuclear Plant resulted in radiation leaking into the air and ocean.



The tsunami caused widespread damage to the area.



The powerful waves were destructive, easily picking up houses and turning them over.



This ship was left stranded after being carried inland on the tsunami waters in Japan.

