

BOXING DAY TSUNAMI

On Sunday 26 December 2004, a magnitude 9 earthquake occurred off the West Coast of Northern Sumatra in the Indian Ocean. This caused the Indian Ocean tsunami that affected 13 countries and killed approximately 230,000 people.





TYPES OF VOLCANOES



COMPOSITE VOLCANOES are steepsided and cone-shaped, made up of layers of ash and lava and containing sticky lava which doesn't flow very far.



SHIELD VOLCANOES have gently sloping sides and runny lava that covers a wide area. Gases escape very easily from shield volcanoes

THE VOLCANIC EXPLOSIVITY INDEX (VEI)

VE	El/Description	Plume	Volume Height
0	Nonexplosive	<100 m	1,000 m ³
1	Gentle	100–1,000 m	10,000 m ³
2	Explosive	1–5 km	1,000,000 m ³
3	Severe	3–15 km	10,000,000 m ³
4	Cataclysmic	10–25 km	100,000,000 m
5	Paroxysmal	>25 km	1 km ³
6	Colossal	>25 km	10 km ³
7	Supercolossal	>25 km	100 km ³
8	Megacolossal	>25 km	1,000 km ³

WHY LIVE NEAR A VOLCANO?

VOLCANTC SOTI

Fertile soil because of all the minerals This means that it is good for growing crops



GEOTHERMAL ENERGY

A very cheap and environmentally friendly way to create energu.

TOURISM

Orwarded by Oliver Silvers

Volcanoes generate money and jobs for the people living near them

PREDICTION

Volcanologists and scientists monitor volcanoes for activity and put warning systems in place

VOLCANIC ERUPTIONS

LAVA FLOWS rarely cause death or injury. They move slowly and people have time to prepare.

ASH CLOUDS Ash clouds form when the eruption sends a mixture of gas, fractured rock, and tiny lava droplets into the air. The lava droplets cool quickly into tiny glass like fragments. These are sharp and abrasive.

PYROCLASTIC FLOW Puroclastic flows are fast moving clouds of super heated gas, ash and rock They are deadly as they travel around 110kph.

LAHARS Pyroclastic flow mixes with water to create destructive mud flows. They form by either snow and ice melting during an eruption or rainfall mixing with the pyroclastic deposits. They can travel at 65kph

MOUNT ST HELENS



SECONDARY EFFECTS Road accidents 0 Plant and animal life wiped out o Rivers polluted

0

\$860 million costs to the economu

\$450 million lost in the timber trade

 S ISO million lost in Tourism















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