

# Geog Volcanoes

Hawaii — magma seeps up and makes island. plates move + build another island.

African, Eurasian, North American, S.A., Indo-Australian, Nazca Pacific

forms in the middle of a plate when crust cracks from pressure

where most hazards occur

plates that make up the crust

Hot spot volcano

makes the Ring of Fire

tectonic plates

Pacific plate is clean

Continental drift — moving of tectonic plates

moving of tectonic plates

death injury

lava

lahars (mud + ice slides)

effects of volcanoes

rock showers

landslides

\$ of damage

ash cloud

pyroclastic flow

damage to roads/buildings

tsunamis

poisonous gas

if near ocean

destructive area where one plate goes under the other

deaths 23000

homes destroyed 5000

A fracture in the earth's crust that shows signs of movement.

helicopters. Took 3 days to get there. People had already died. legs amputated.

## CASE STUDY

NEVADO DEL Ruiz - LEDC - 1985

primary effects

ash

poisonous gas

lahars

lava

pyroclastic flow

roads blocked

other effects

increase bacteria from lahars

\$7.7 billion lost

corpses stuck in mud

other rescue attempts

helicopters

Took 3 days to get there

People had already died. legs amputated.

when? - November 13th / 1985

9:08 pm local time.

people had weak

where? - Columbia, S.A. Northwest of capital: Bogota.

South.A., Nazca

plate: Convergent

margin type: destructive

eruption: explosive

composite (convergent) — eg. Caribbean

①

three main types of volcano.

strata

Plate: Convergent

## CASE STUDY

MOUNT ETNA - MEDC - 2002

when? - 2002

Responses

businesses shut down

People continued to live there.

Soil is very fertile

volcanic rock

cannot afford to move.

Italy not v. rich

huge financial costs

crops died

no homes

1000 people had to leave home

forests/houses/buildings destroyed

schools shut down

4.3 Richter Scale

several earthquakes

lots of eruptions

ash clouds

poisonous gas released (>100m in air)

effects

eruptions

volcanoes appear on plate boundaries

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divert the lava

Italian Government put bulldozers to create a barricade

300 families given base

where? - Italy, Sicily, between Giamae + Bronte

African, Eurasian + Ionian miers

eruption: oozing

products: thick lava

② shield

margin: Hotspot.

eg. Hawaii

products: lava; ash

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