#### DESTRUCTIVE FORCES

#### **Destructive Forces**

Weathering and Erosion

#### Weathering-the break down of rock

# **Erosion-**the movement of weathered rock from place to place

#### Types of Weathering

#### **Physical Weathering**

# The breaking down of rock

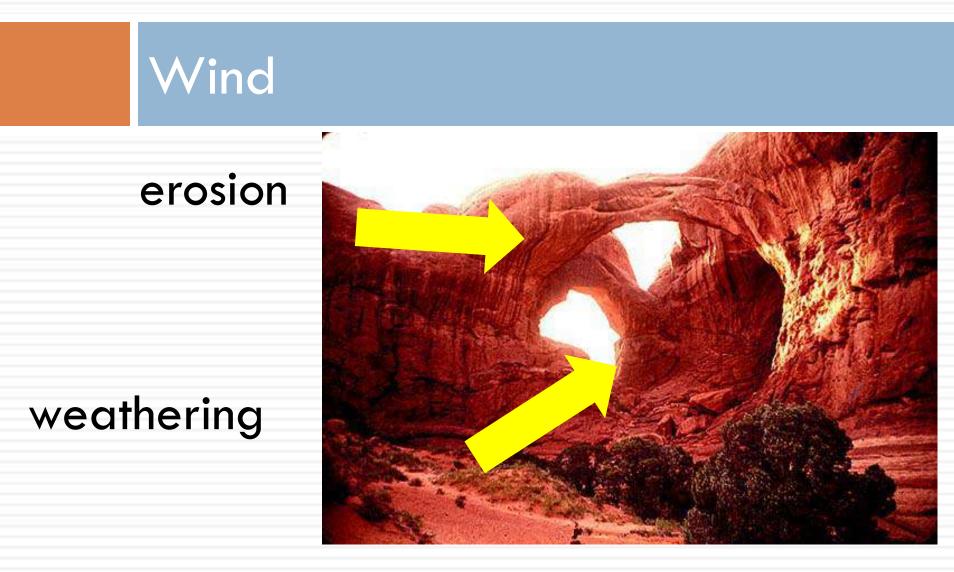


#### **Chemical Weathering**

# The breaking down of rock as a result of chemicals



# **Destructive Forces**



#### **Destructive Forces**

#### Water

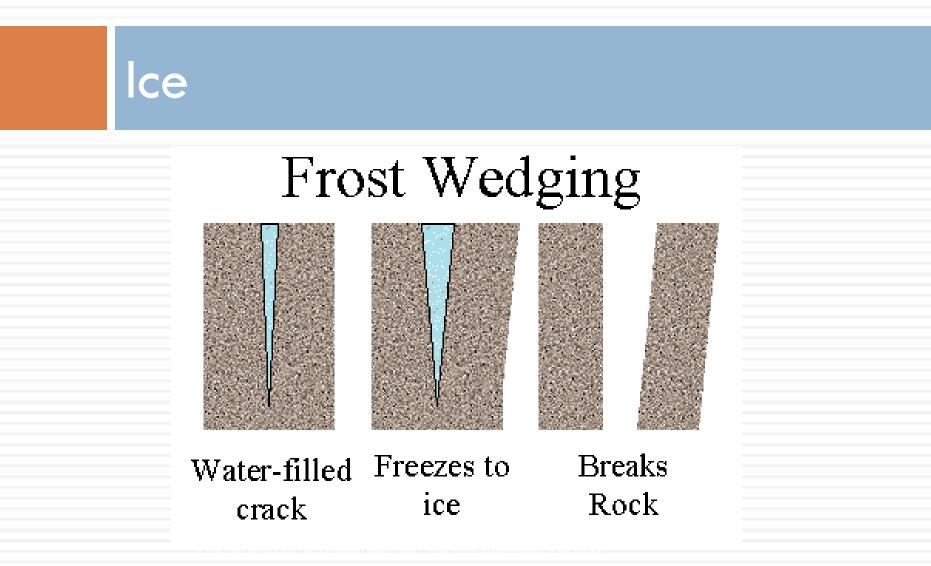


#### **Destructive Forces**

#### Ice (Glaciers)



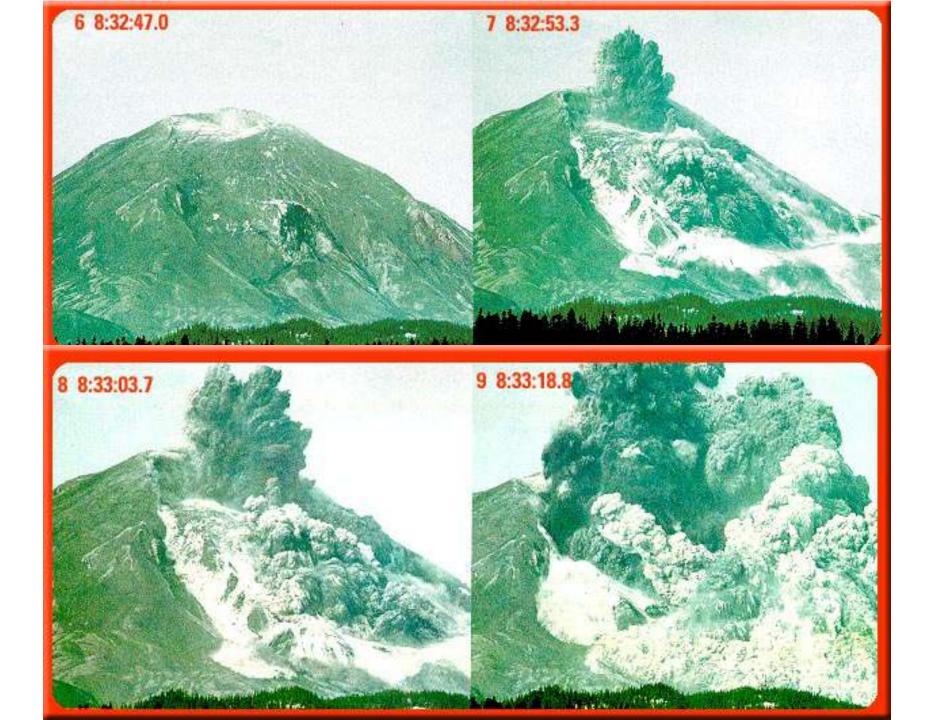
#### **Destructive Forces**



# **Destructive Forces**

#### Mount St. Helen-Volcano





# **Destructive Forces**

#### Mount St. Helen's AFTER the eruption



# **Destructive Forces**

#### Earthquakes



#### **Destructive Forces**

#### Tornadoes



# HOW DO WE CONTROL DESTRUCTIVE FORCES?

# **Destructive Forces**

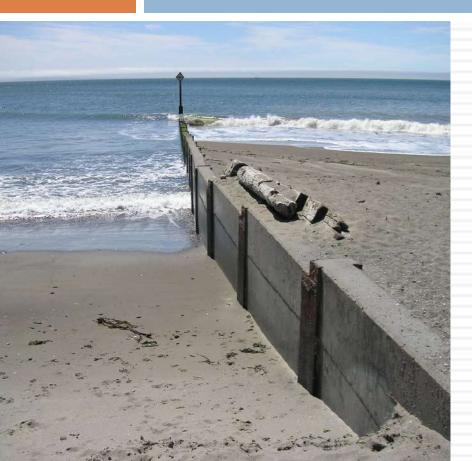




Large barriers built across rivers and streams Controls the flow of water Used for human purposes such as generating electricity

#### **Destructive Forces**





A wall created to prevent erosion on the beach

#### **Destructive Forces**

#### **Beach Nourishment**



Sand is pumped from the ocean floor onto the beach

Replaces eroded sand

# **Destructive Forces**

#### Contour Plowing



Plowing in a zigzag pattern

Prevents water from flowing straight down

#### **Destructive Forces**

#### Storm Drain Management



Drains excess water after storms so less erosion will occur.

# **Destructive Forces**





Embankment on the edge of a river

Prevents flooding and erosion

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#### CONSTRUCTIVE FORCES

# **Constructive Forces**

# The process of forming NEW land

I the pink gonila cats watermelon every highly now much watermelons does no eatr

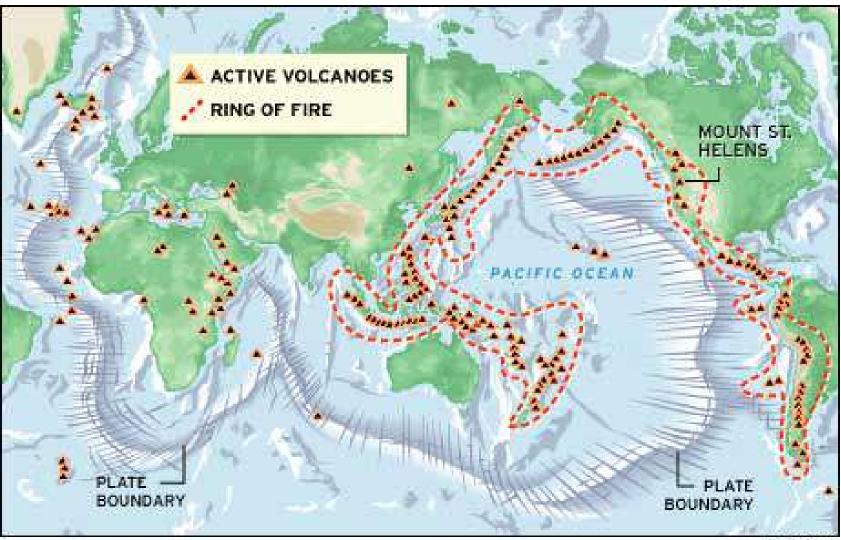
#### **Constructive Forces**

#### Volcanoes





# Volcanoes-RING OF FIRE



MENRO

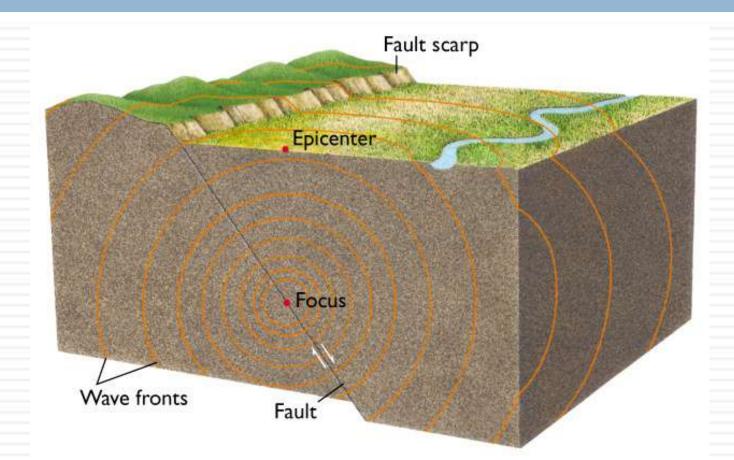
#### **Constructive Forces**

#### Earthquakes

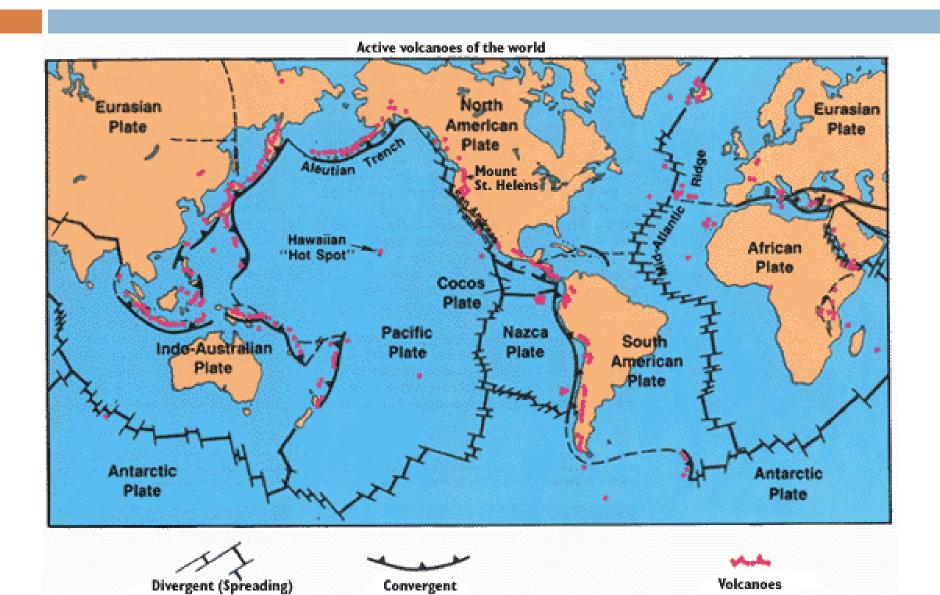


#### **Constructive Forces**

#### Earthquakes



#### Earthquakes-Fault Lines



#### Deposition

After weathering and erosion occur, the final step is **deposition** (the sediment is placed somewhere else, forming new land). **Erosion** Weathering Deposition



- A triangular area at the mouth of a river
- Sediment/debris (rocks, sand, dirt) are deposited
- Occurs right before the river goes into a larger body of water
- WHY? Because the water slows down, so the sediment/debris falls

# Sand Dunes



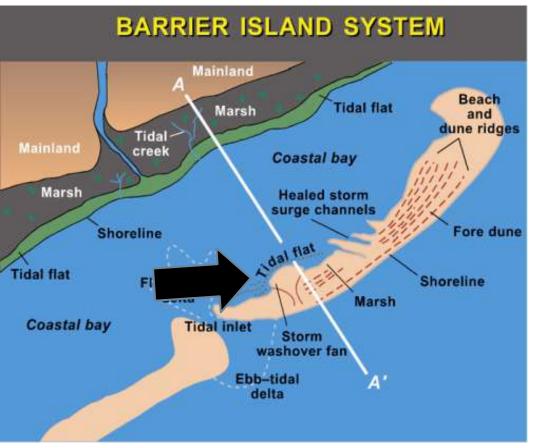
- Sand is carried in the wind
- When the wind stops, the sand drops
- New land is formed when the sand drops creating sand dunes (deposition)

# Flood Plains



- A river floods taking sediment/debris (rocks, sand, dirt) with it
- The water floods onto the surrounding land
- When the water recedes, the sediment/debris (rocks, sand, dirt) stay forming NEW LAND (deposition)

# **Barrier Island**



- Sand, dirt, and rocks erode of off the main land because of
  - waves
- The waves deposit the sand, rocks, and dirt creating an island (deposition)
- This creates new land!

# Longshore Current



- As a wave hits the beach the longshore current, pushes it sideways
- This water then picks up sand/rocks/dirt and carriers it along the shore
- As the wave recedes, it drops the sand/dirt/rocks (deposition) creating new land!!!