# Class 9b: Coastal landforms and rivers

#### Ocean erosion

#### Coastal landforms from erosion

• On newer, more rugged coastlines

## Ocean transport

• Longshore currents: waves not parallel to shore

## Ocean deposition

• Beaches!

## Coastal deposition

• On coastlines already worn down

# Coastal deposition

## Stabilizing the coast

• Harbors or bays may close over, cliffs may fall

## Stabilizing the coast

• Unintended consequences

#### Coral reefs

• The only organic landform

## Coral reefs

#### Coral reefs

 Absorb energy from waves and protect shores

#### Fluvial basics

• Fluvial processes: involving running water

#### Fluvial basics

• Watershed: all the land that drains into a stream

#### Fluvial erosion

- Amount of erosion depends on:
  - Speed of river
  - Degree of turbulence
  - Type of bedrock

## Fluvial transport

- Material carried by a stream is the stream load
- Bed load, dissolved load, or suspended load

## Fluvial deposition

• Found all along rivers; especially at mouth