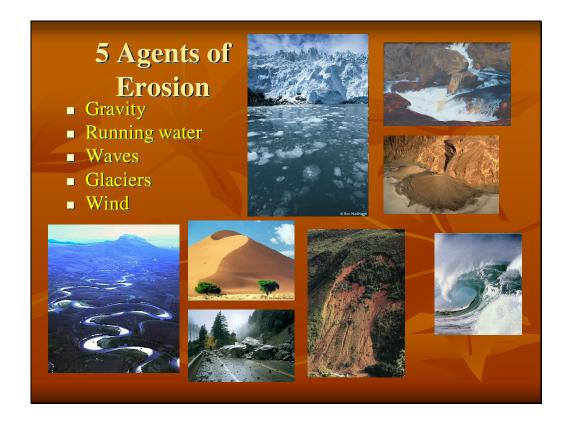
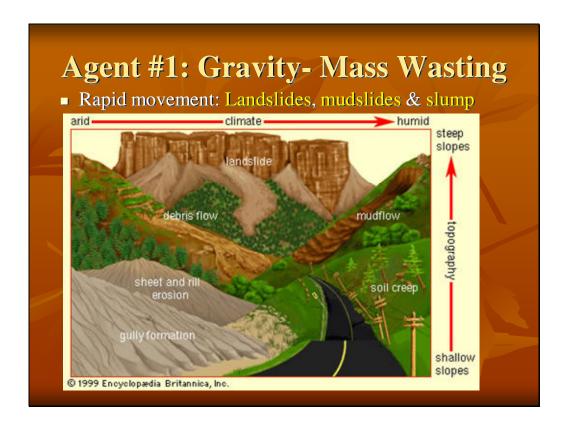
Earth Science

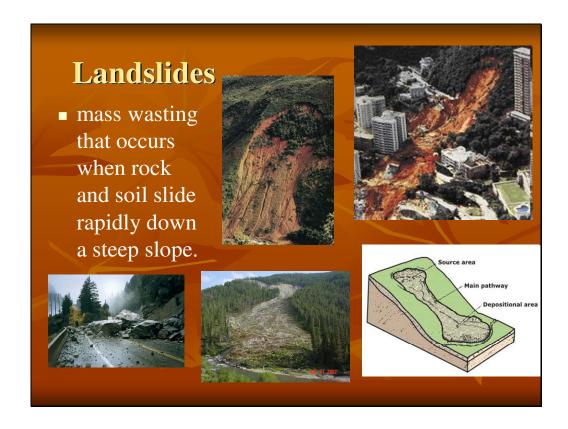
Chapter 3 Erosion & Deposition

The Geologic Cycle

- Weathering, erosion, and deposition act together in a cycle that wears down and builds up Earth's surface.
- **Erosion** is the process by which natural forces move weathered rock and soil from one place to another.
- The material moved by erosion is **sediment**.
- When the agents of erosion lay down sediment, deposition occurs.









Slump & Soil Creep - A slump is a type of mass movement in which a mass of rock and soil rapidly slips down a slope. It looks as if someone pulled the bottom out from under part of the slope. - Creep is the very slow downhill movement of rock and soil. It occurs most often on gentle slopes. - Creep - Greep is the very slow downhill movement of rock and soil. It occurs most often on gentle slopes. - Creep - Slump - Slump - Slump - Slump - Date of tibps removed by road construction

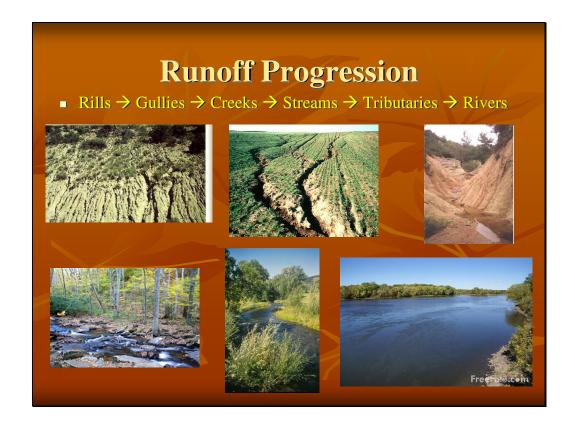
Agent #2: Running Water

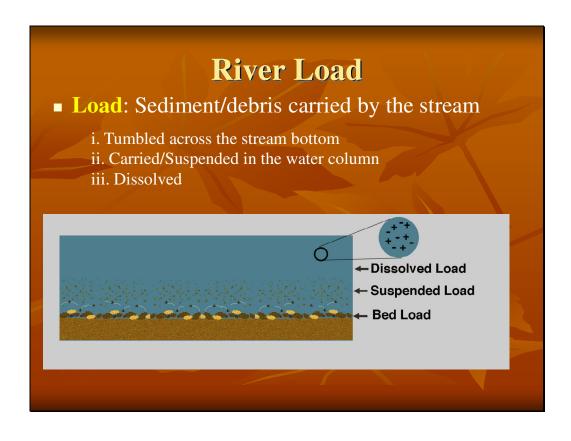
- Precipitation can do any of 3 things:
 - <u>Evaporate</u> or <u>Soak-in</u> or <u>RUN OFF</u>!
- Water running downhill is the major agent of erosion that has shaped Earth's land surface.
- Amount of runoff affected by:
 - Amount of Rainfall, Plant Population, Shape of the land, Soil saturation



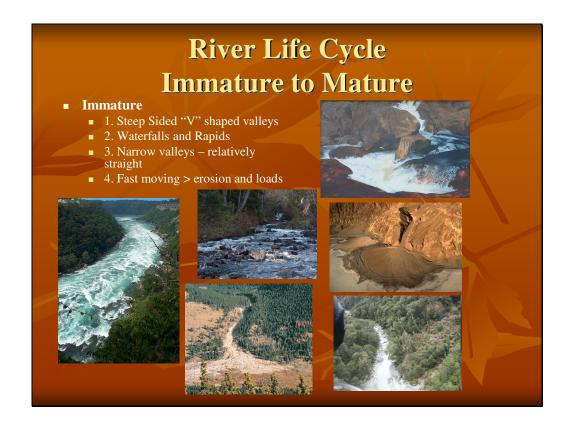


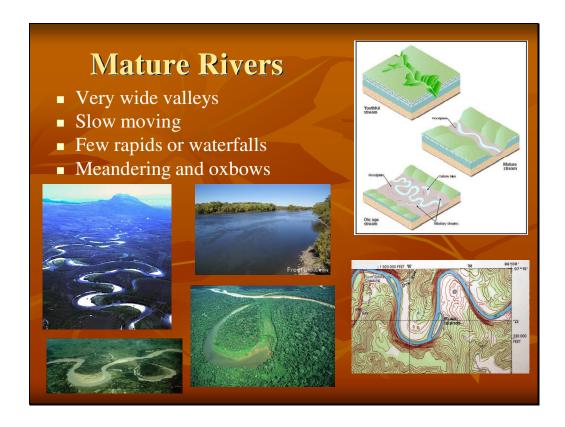


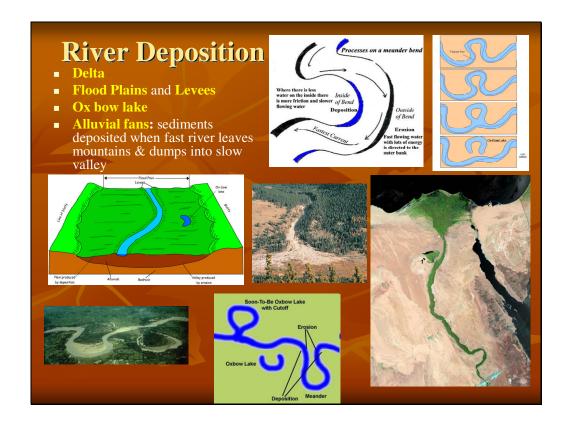




River Systems - Drainage System: network of the actual streams, tributaries and rivers - Drainage Basin: the area drained by the drainage System - Divides: Continental divide - Divid





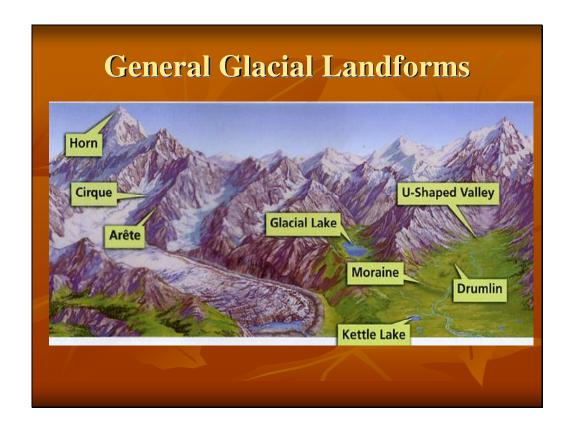


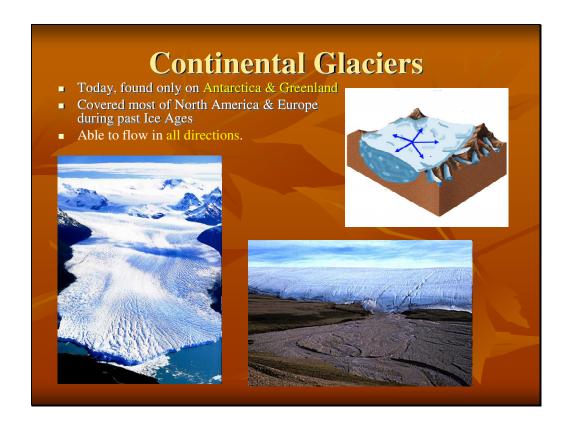
Agent #3: Waves - Waves shape the coast through hydraulics, erosion by breaking down rock and transporting sand and other sediment. - When large waves hit the shore, their energy can break apart rocks. - Waves also erode by abrasion. When a sediment-carrying wave hits land, the sediment wears away rock like sandpaper wearing away wood. - 6.28 Wave Erosion - Beadland - Deposition - Depositional Features - Depositional Features

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Agent #4: Wind Erosion - Wind causes erosion by deflation and abrasion. - Deflation is the process by which wind removes surface materials. - Wind is the weakest agent of erosion. Migration of Sand Dunes Wind direction Direction of Agent #4: Wind direction of Sand Dunes On the Sand Dunes of Sand Dunes

Agent #5: Glaciers There are two kinds of glaciers continental glaciers and valley glaciers. Plucking - As a glacier flows over the land, it picks up & pushes rocks along w/ it. Abrasion -gouges and scratches the bedrock as the rocks & boulders are pushed along Glacier landforms include Terminal Moraine, Lateral Moraine, Drumlin, Meltwater Stream, Outwash Plains, Kettle Lakes, crevasses, cirque, esker, till Terminal Moraine Rettle Lake Outwash Plain Recessional Meltwater Streams Meltwater Streams Rettle Lake Drumlin Recessional Meltwater Streams





Valley Glaciers (aka Alpine Glaciers) When a glacier melts, it deposits the sediment it eroded from the land, creating various landforms. The mixture of sediments that a glacier deposits directly on the surface is called till. Leteral moraines Medial moraines End moraines Terminus of glacier Recossional Ground Terminal moraine moraine moraine Types of Moraines



