



La Conchita, CA 1995, 2005

- [La Conchita Video](#)



Angeles NF



California Karst



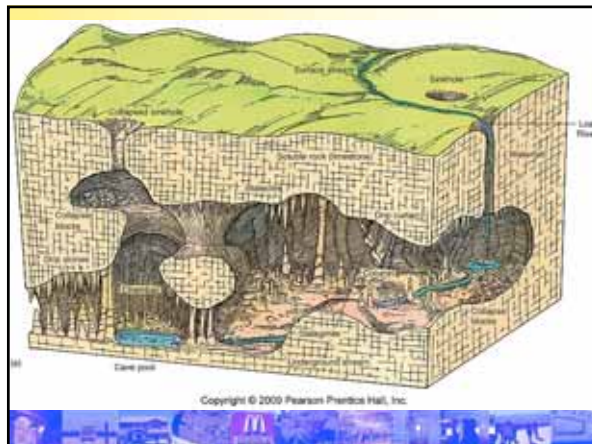
Carbonate Rocks

Marble



Slate





California Karst



View of the Fairy Pool formation in Crystal Cave in Sequoia National Park. NPS Photo



Mitchell Caverns

- In Providence Mountain State Recreation Area
 - ♦ San Bernardino County



Mitchell Caverns



Death Valley & The Mojave



Aeolian Forces

- Aeolian – erosion & deposition caused by wind



Abrasion

- The mix of sand & wind abrading a surface



Ventifacts

- Aerodynamically shaped with the direction of the wind



Yardangs

- Larger ventifacts



Racetrack Playa



Water in the Desert





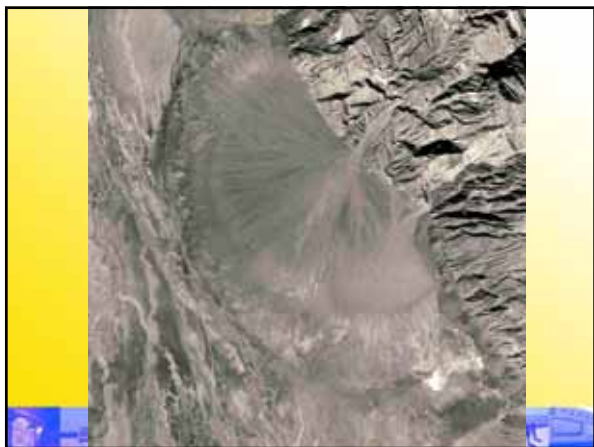
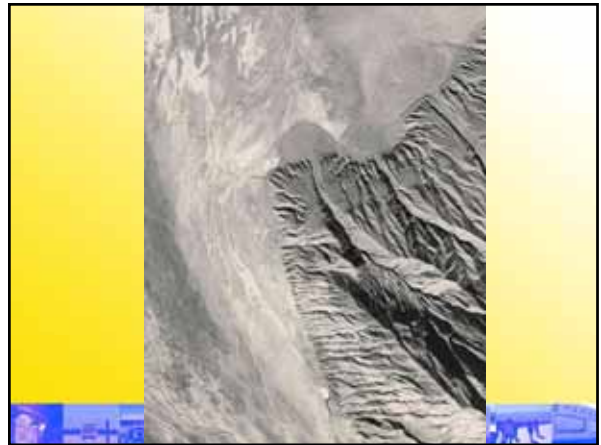
Alluvial Fans

Where a canyon enters into a valley

- Water loses velocity, dumps excess sediment

Bajada

- A continuous sloping surface made up of several alluvial fans





Differential Weathering

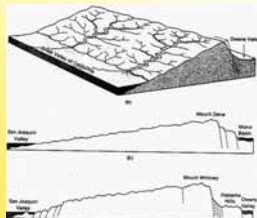


Yosemite & The Sierra Nevada

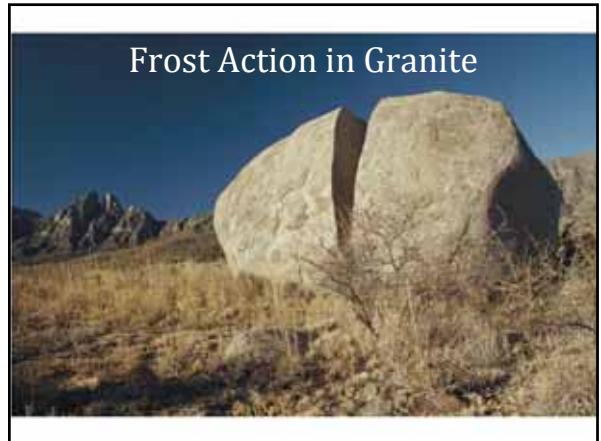


Sierra Nevada

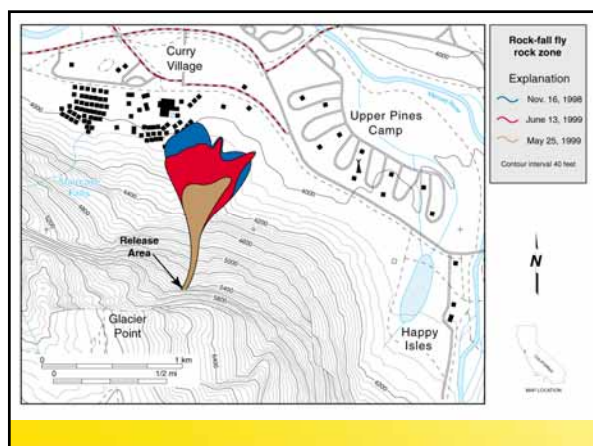
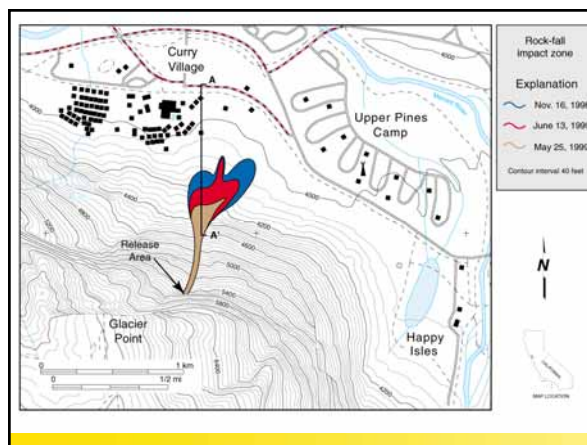
- Tilted-fault-block ranges
 - ♦ A normal fault has created dramatic relief
- Mesozoic Era subduction, crustal stretching, and normal faulting



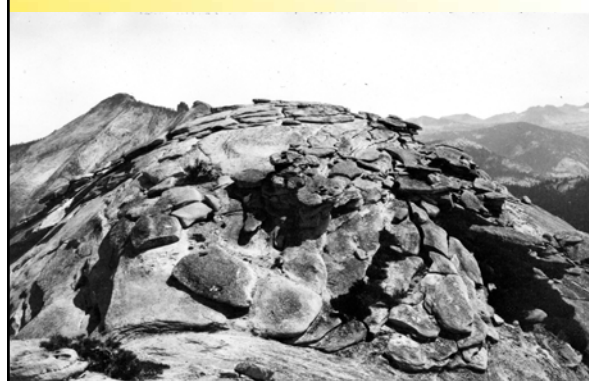
Frost Action in Granite

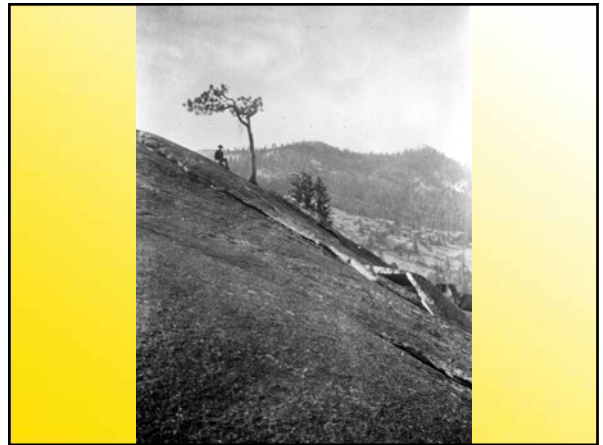
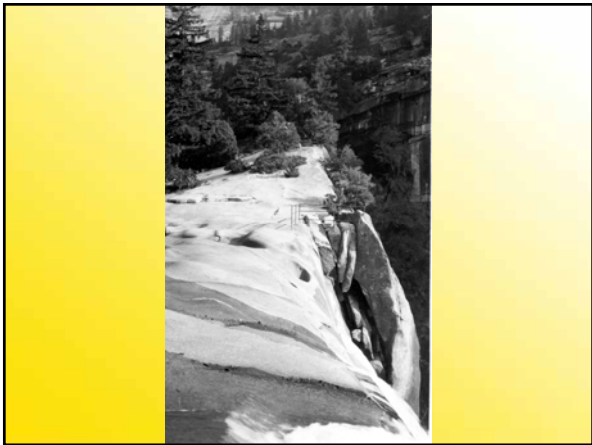
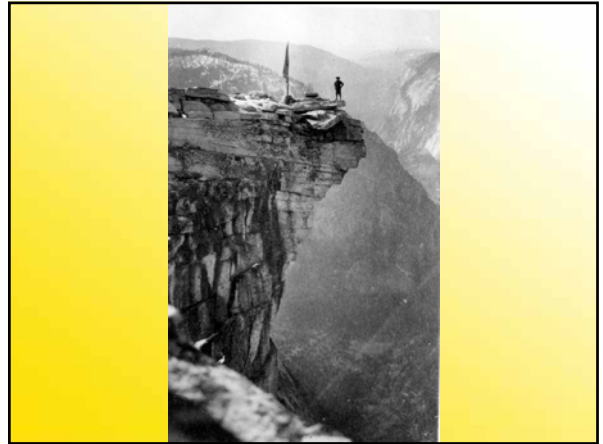
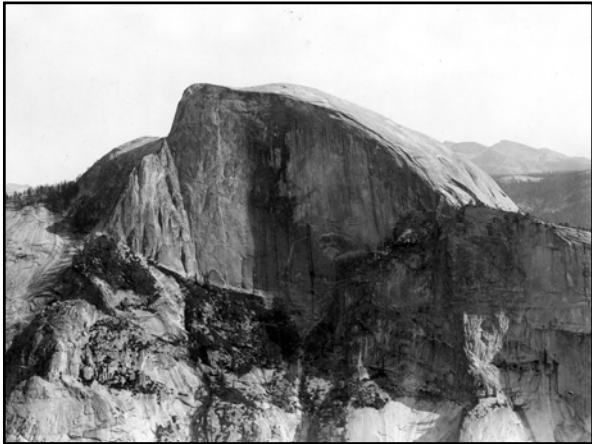


Joint-Block Separation

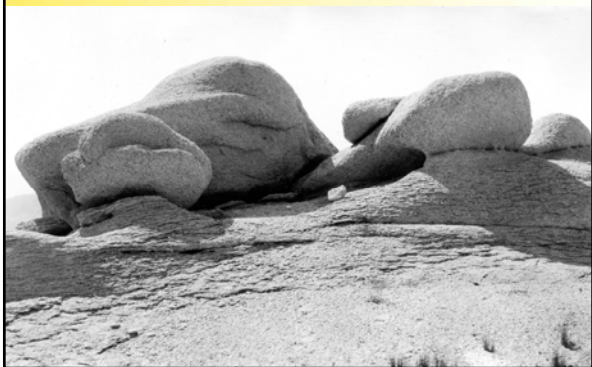


Exfoliation in Granite





Spheroidal Weathering



Glacial Forces

- During the peak of the ice age 30% of continental land was covered by a glacier
 - Today only 11%



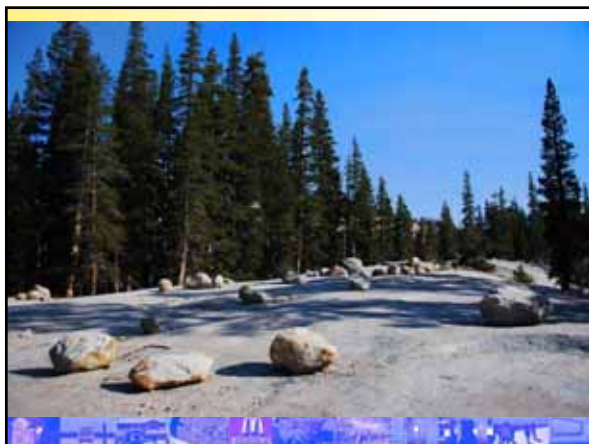
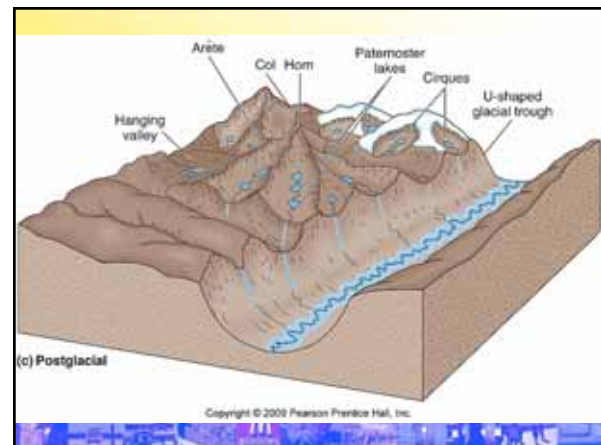
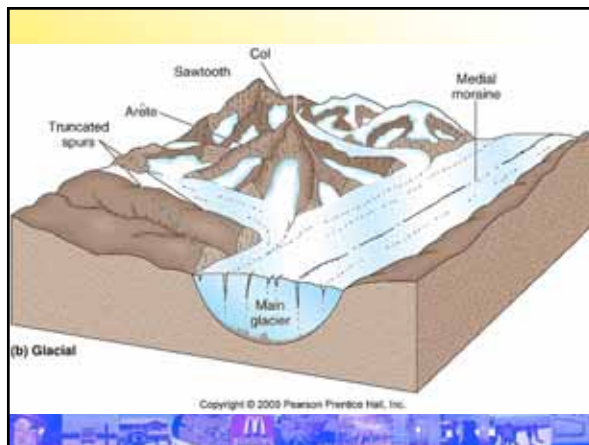
Glacial Striations



Alpine Erosional Landforms

The process

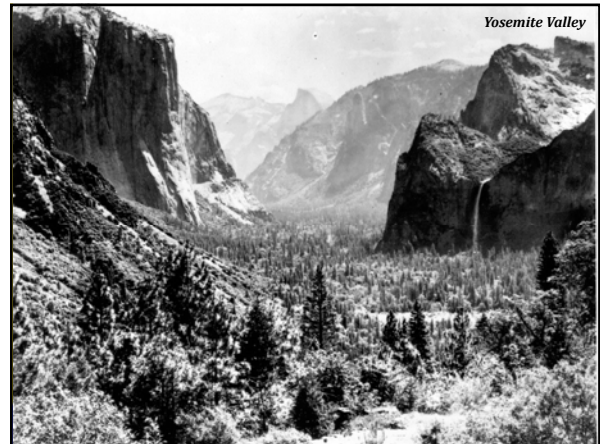
- Initially, valleys are cut by fluvial processes
 - V-shaped valleys
- These valleys contain the advancing alpine glaciers as the climate changes



Alpine Erosional Landforms

Hanging valleys

- ♦ Primary glacier erodes deep into valley, leaves tributaries up high
- ♦ Creates **hanging waterfalls**



Alpine Depositional Features

Moraines

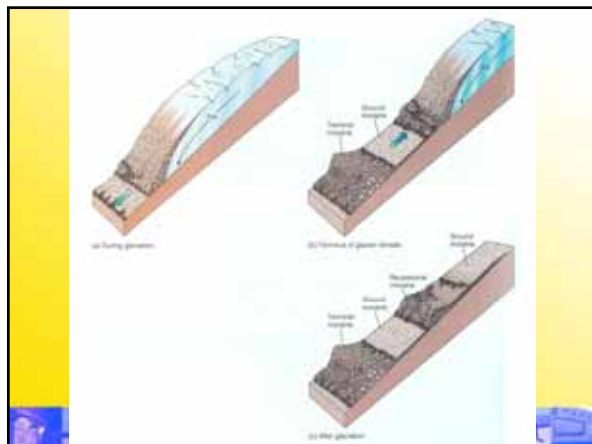
- ♦ Depositional landform created by glacial sediments



Alpine Depositional Features

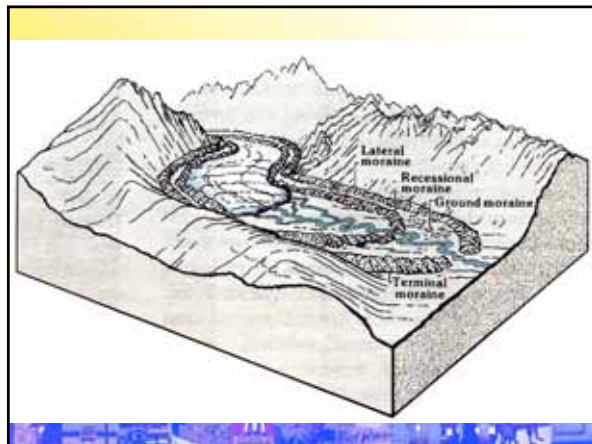
Terminal moraines

- ♦ Form at a glacier's farthest point
- ♦ Can form lakes after a glacier retreats
 - Moraine acts as a dam



Terminal Moraine





Fallen Leaf Lake



Next Time

- Best Weather Ever
 - California's Climate
 - Flora & Fauna Adaptations

