

- *Any large slide can be called an avalanche
- *Submarine land slides, slope slides margin slides and turbidity currents
- *Badlands - Linear slopes & divides, knife edge ridges

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Cenozoic Tectonism – Modern Continent Shape

- Sea Floor Spread, layer ocean, Antarctic Ice

Tectonic Orogeny Mt. Bldg = Diastrophism

Orogeny & Converging plates = Himalaya & Urals

Island arcs, trenches, cordillera, Collision hills and Strike/Slip

Island Arcs, - Pacific, Indonesia, Caribbean (Role of Coral in windward locations)

Cordillera - Andes - Narrow range, Narrow valley, Andesitic volcano.

Collision Belt - Fault Block Mts. Argentina Pampas

East Canada Rocky Mt/

Appalachian Mt.

Extensional - Basin & Ridge vs. Sierra Nevada & Colorado Plateau

Rift Valley – East Africa

Strike / Slip - Lebanon - Dead Sea

Uplift - opposed to gravity of geoid

New Zealand & PNG

Space GEodesy - VLBI, SLR, GPS .

Epeirogeny - Continental Formation

Craton Shields – low relief – volcanic

(US intermountain plateaus) – Mantle plumes and uplift below crust

Rates – Vary slow vs fast

10m vs 100m / 100 m yrs

Neotectonism - years & decades of new movement vs. seismotectonics - 6 mm/yr

Appalachian Mts.

Tectonism & Climate

Monsoon – AM to CW climate cause a effect of drainage

Terra Rocha of Tropics

Desertification

Chernozem Soil

Patterned Ground of Tundra

Pingos

Glacial Soils

Caliche of Desert and Adobe