

River Systems & Wind erosion

- 3 Fluvial processes
- 1) Erosion

- 2) stream transport

- Suspended load

- Bed load

- 3) deposition

- Hjulstrom

- Summary
- Clay and gravel are difficult to erode
- sands erode easiest
- silts and clays are usually held in suspension
- gravel and larger are first deposited

Drainage Basin System

- stream

- Watershed

- Drainage Divide

- Sheetflow

- Rill & gully

- Smaller watersheds feed larger ones
- drainage density

Drainage patterns

- 1) dendritic

- 2) Trellis

- 3) radial

Stream gradation

- Graded stream
- Base level

Adjustments

- Velocity

evolution of fluvial landmass

- 1) early

- 2) advanced stage

- 3) peneplain

- 4) uplift

seeking equilibrium

localized profile

- steep areas

- Vs.

- pools

early stage features

floodplain development

- floodplain develops

Meander features

- cutbank

- pointbar

neck, cutoff, oxbow

Sinuosity Ratio

humid vs. arid

- humid

- arid