



## mountain stream

- steep gradient
- erodes into bedrock





braided stream:

- high gradient stream
- multiple channels
- channels cover entire floodplain



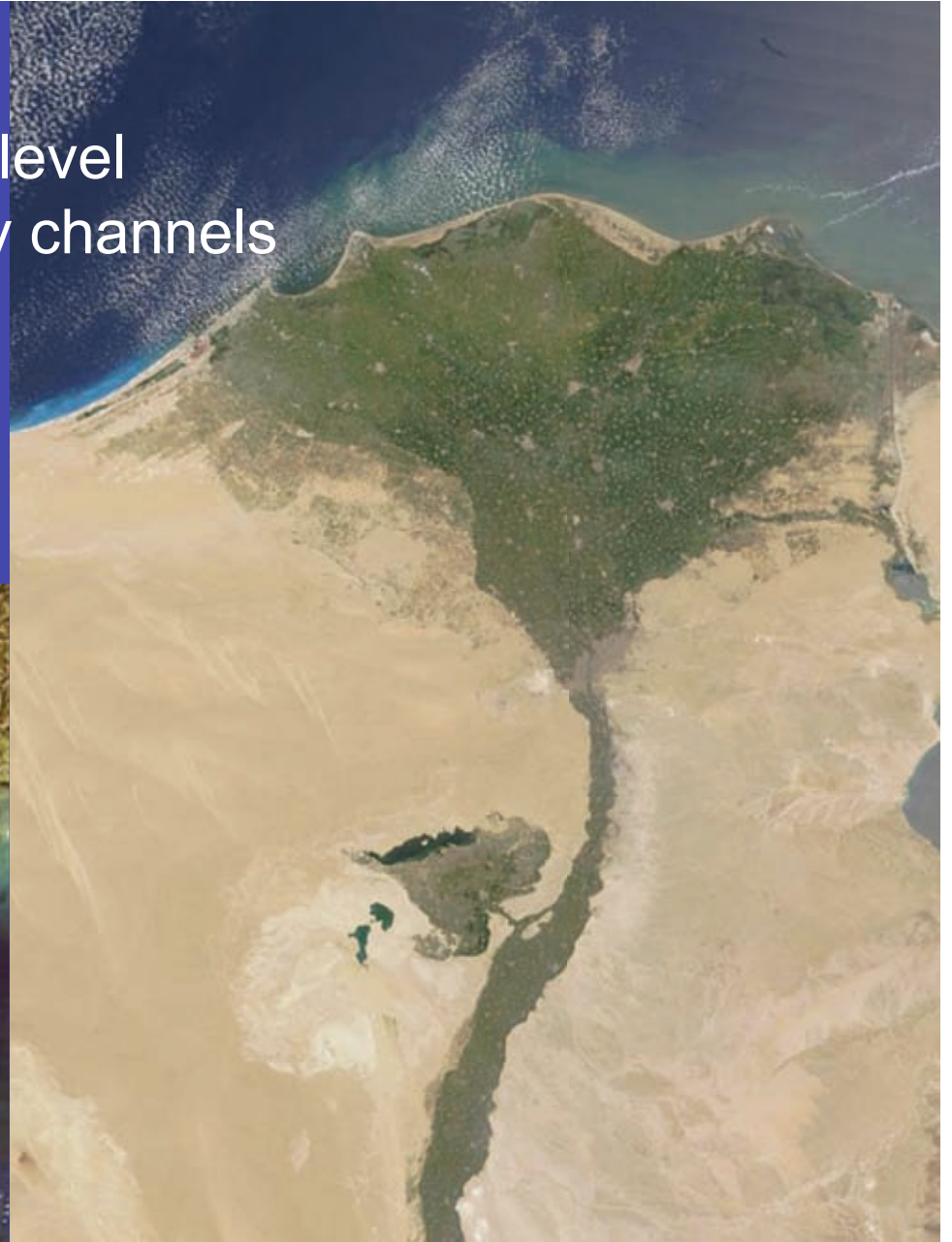
## meandering stream:

- low gradient stream
- single channel
- steep cut bank on outside and gently point bar on inside of meander



delta:

- top at sea level
- distributary channels





Steep gradient mountain

- erode into bedrock
- no sediment deposited





talus slope:

- uphill from mountain stream
- coarse angular sediment moves downward by gravity on slopes steepened by erosion at the base



alluvial fan:

- mountain stream enters trunk valley
- coarse sediment is deposited where the stream slows down



alluvial fan:

fan shape created by  
channel swapping







braided stream:

multiple channels and  
bars

as competence  
increases sandy  
floodplain is easily  
eroded





## braided stream:

- pebbles and sand is deposited on both the floodplain and channel
- sand and mud is transported downstream



meandering stream:

Single asymmetrical channel

Cut bank on the outside of a meander

Point bar on the inside of a meander





meandering stream:

- sand and mud are transported in the channel
- mud is deposited on the floodplain as a flood wanes



Indus delta  
tide dominated



Nile delta  
wave dominated



Mississippi delta  
river dominated

No sediment: eroding into bedrock





talus slope:

- unbedded
- boulders or cobbles
- angular
- poorly sorted
- rock fragments



## alluvial fan:

- bedded
- cobble, pebble, sand
- somewhat rounded
- poorly sorted
- rock and mineral fragments





## braided stream:

- bedded
- pebble, sand
- moderately rounded
- moderately sorted
- rock and mineral fragments



## meandering stream:

- interlayered
- well-bedded sand and mud
- well sorted
- well rounded
- mineral fragments





- delta:
- topset
  - foreset
  - bottomset
  - mud

