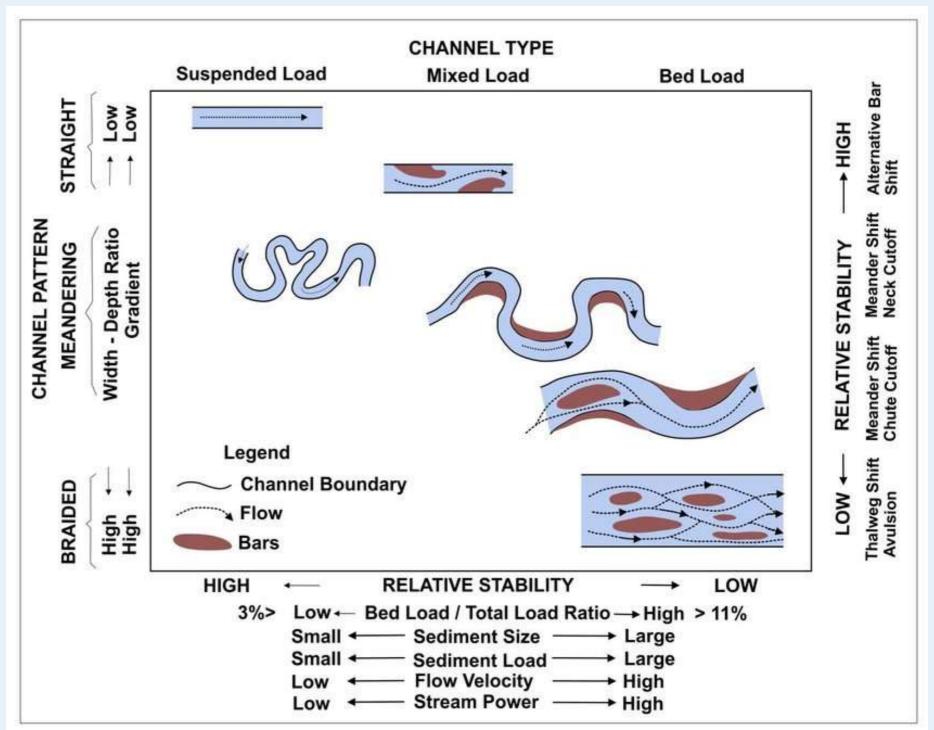
Course Contents

- 1. Fluvial System
- 2. Flow mechanics
- 3. Longitudinal Profile
- 4. Erosion processes
- 5. Sediment transportation
- 6. Channel morphology
- 7. Floodplains
- 8. Terracess

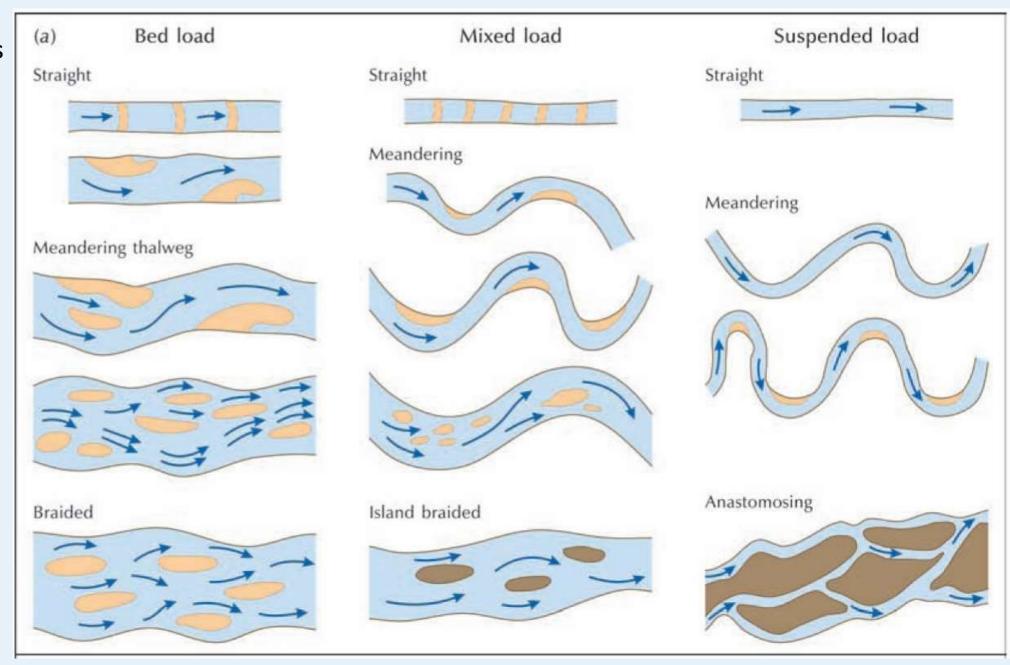
Alluvial Channels

Schumm's classification of alluvial rivers.



Alluvial Channels

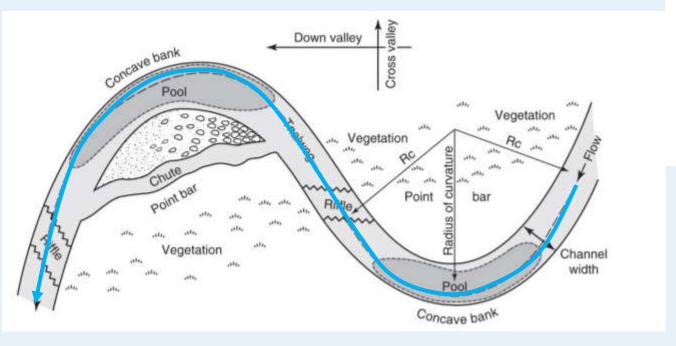
1. Straight channels

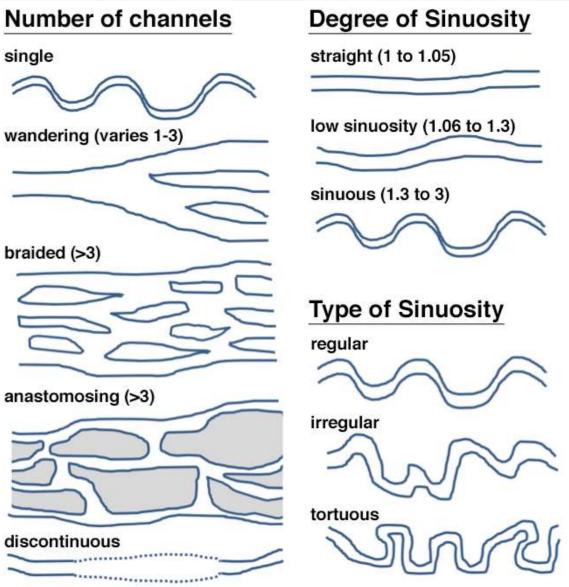


Alluvial Channels

2. Meandering Channels

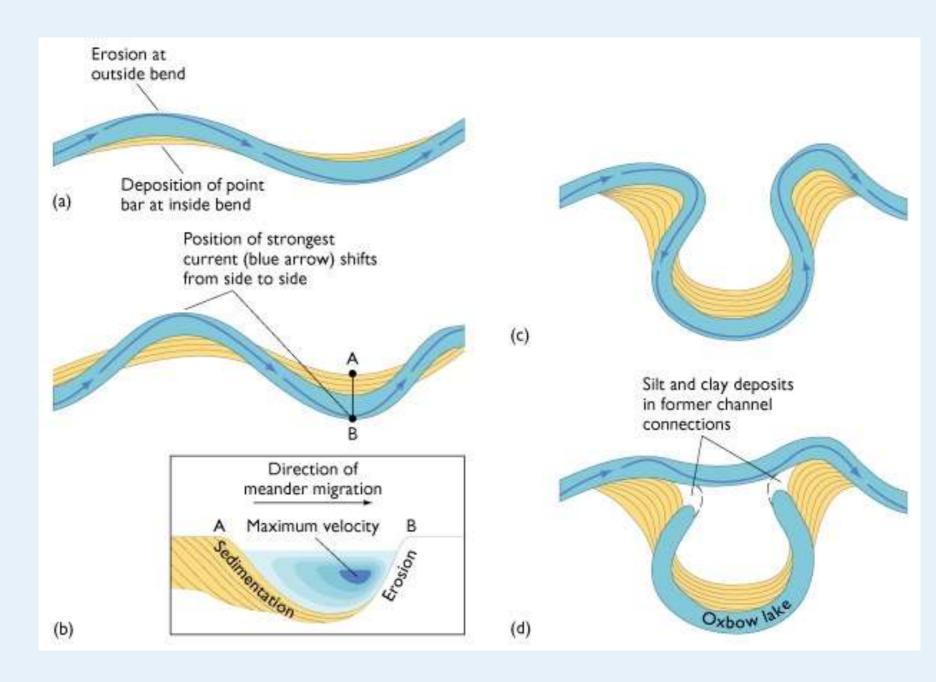
Meandering rivers are the most common type of channel pattern on the Earth.





https://www.e-education.psu.edu/earth111/node/871

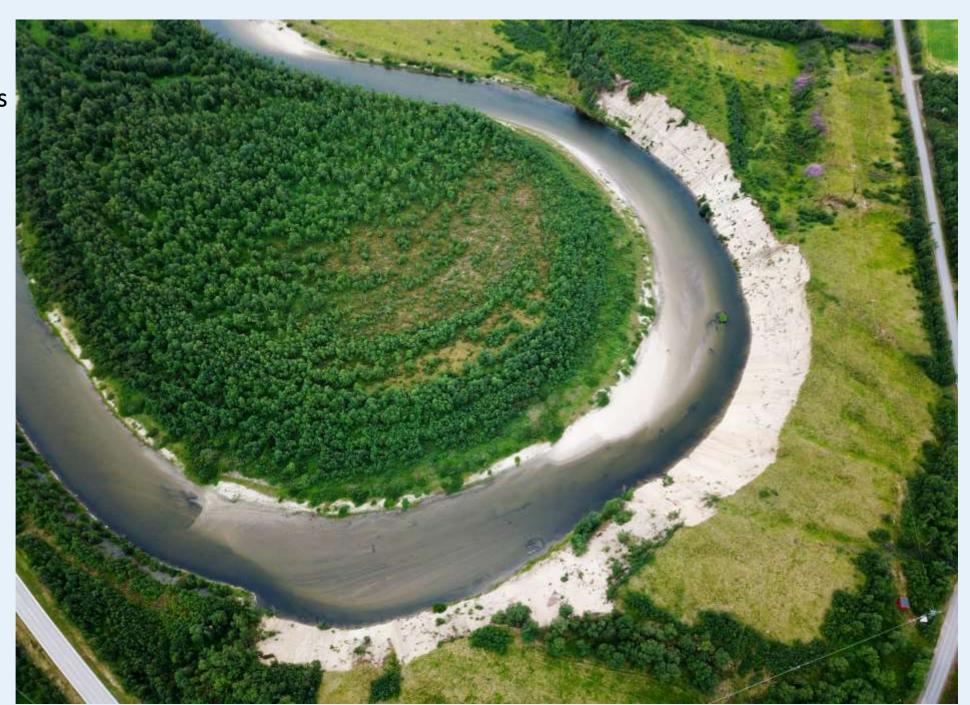
Alluvial Channels



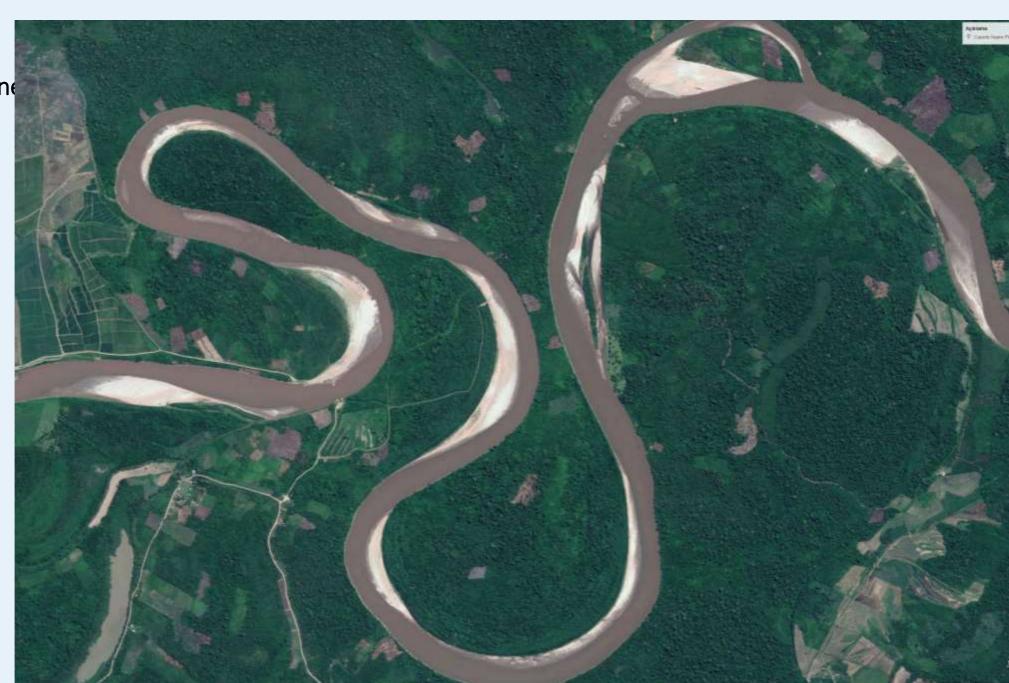
Alluvial Channels



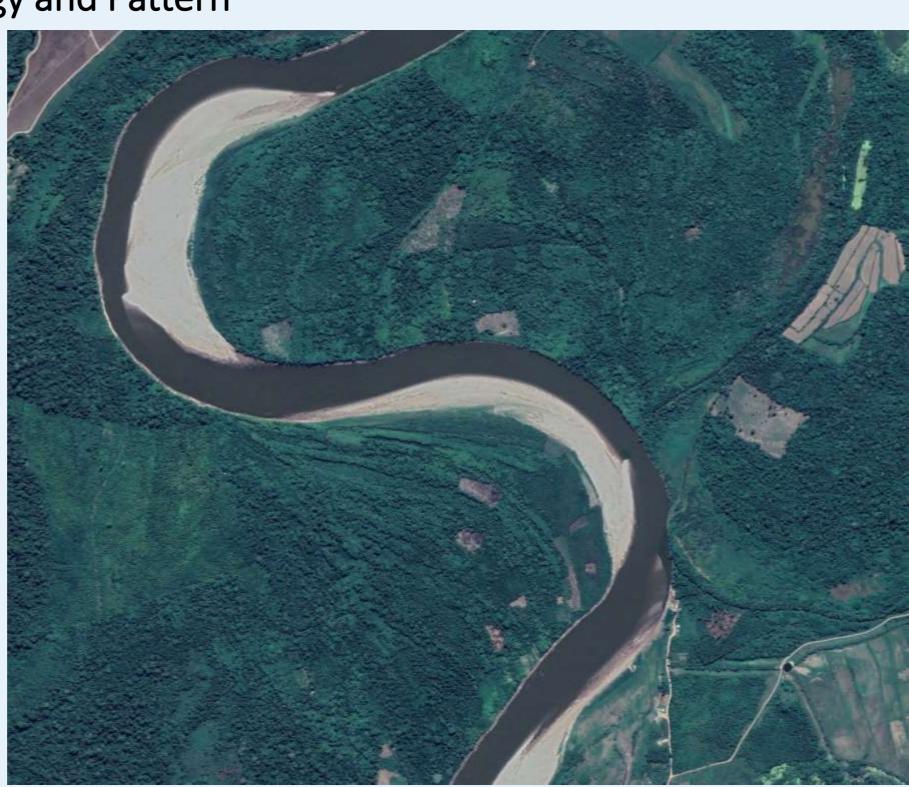
Alluvial Channels



Alluvial Channels



Alluvial Channels

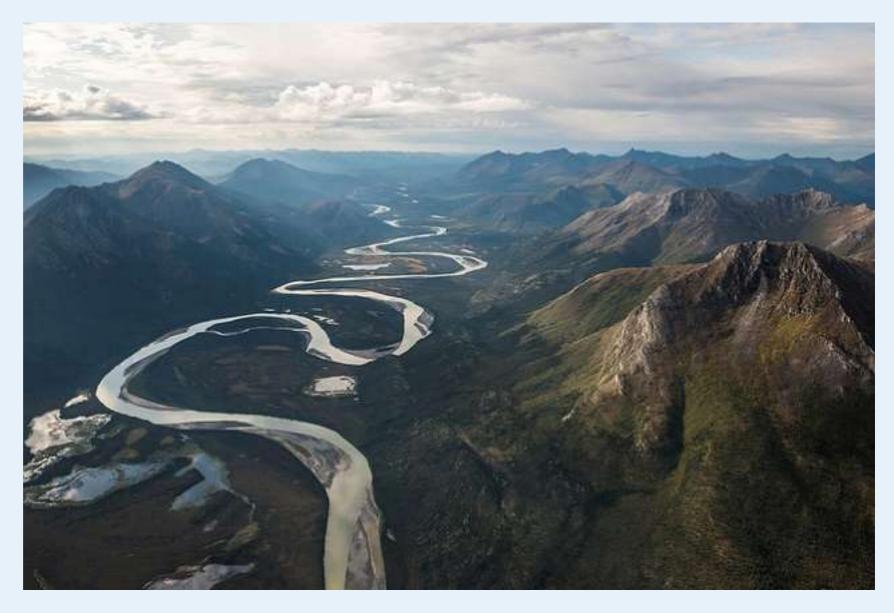


Alluvial Channels

2. Meandering Channels

https://www.youtube.c om/watch?v=izgc3vFi mP8&ab_channel=Geo deGraaf

https://www.youtube.c om/watch?v=kJuWNjY BudI&ab_channel=Sate Ilitetimelapse



https://www.nps.gov/articles/meandering-stream.htm

Alluvial Channels

3. Braided rivers

Braided rivers are characterized by multiple, unstable channel and ephemeral bars formed by intense bed-load transport, and a set of very active channel processes. The separate channels of a braided stream are divided by islands or bars. Bars which divide the stream into separate channels at low flow are often submerged at high flow.



https://eos.org/opinions/reimagining-stem-workforce-development-as-a-braided-river

Alluvial Channels

3. Braided rivers

https://www.youtu be.com/watch?v=s YekCDkV-3o&ab_channel=Da nielGarc%C3%ADa-Castellanos



https://pixels.com/featured/braided-streams-of-the-rakaia-river-david-wall.html

Alluvial Channels

4. Anabranching and

'Anastomosing'



https://twitter.com/HaggardHawks/status/928803144318046208/photo/1

Alluvial Channels
4. Anabranching and
'Anastomosing'



https://www.researchgate.net/publication/312577782_Synthesizing_the_Scientific_Foundation_for_Ordinary_High_Water_Mark_Delineation_in_Fluvial_Systems/figures?lo=1&utm_source=google&utm_medium=organic

Alluvial Channels

4. Anabranching and 'Anastomosing'



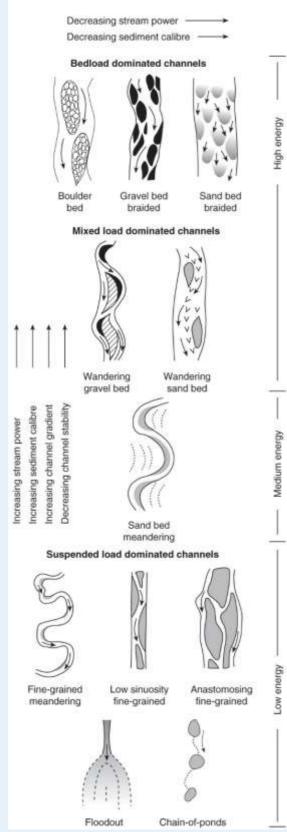


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https://www.dreamstime.com/stock-photo-yukon-river-alaska-fall-colors-image44892105

Alluvial Channels



Charlton, R. 2007 Fundamentals of Fluvial Geomorphology