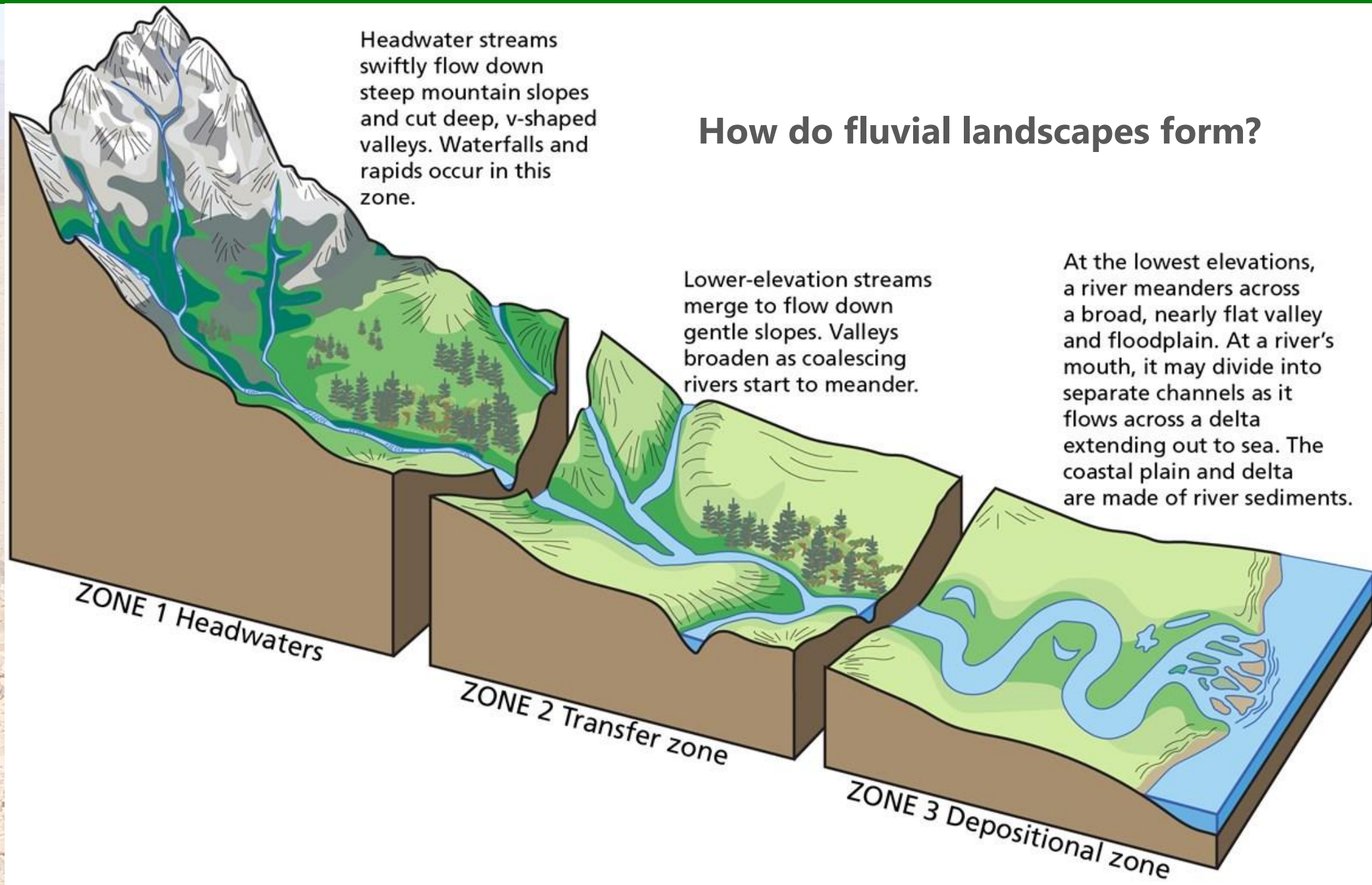




Landscape Evolution

Fluvial Landscapes



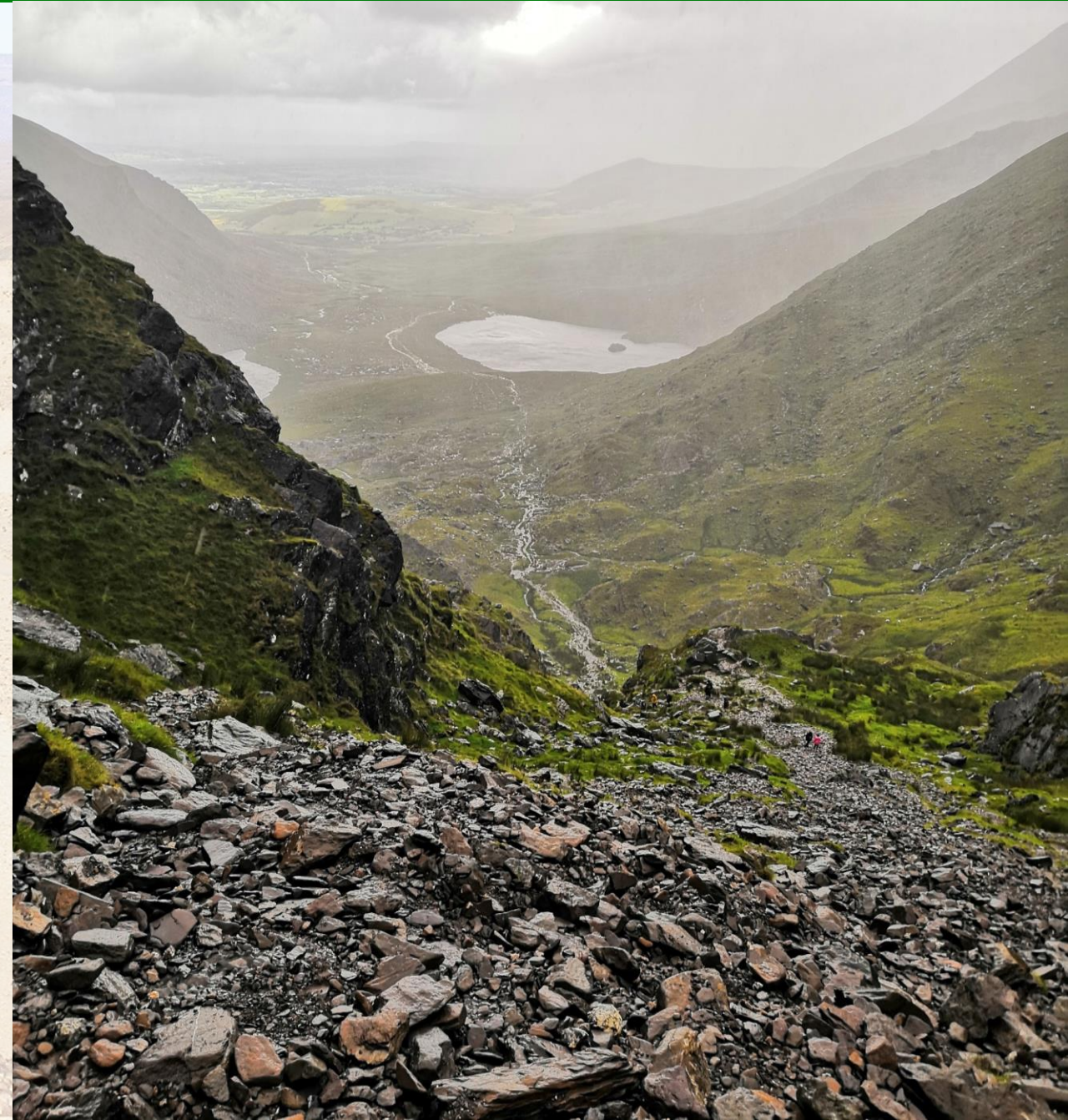
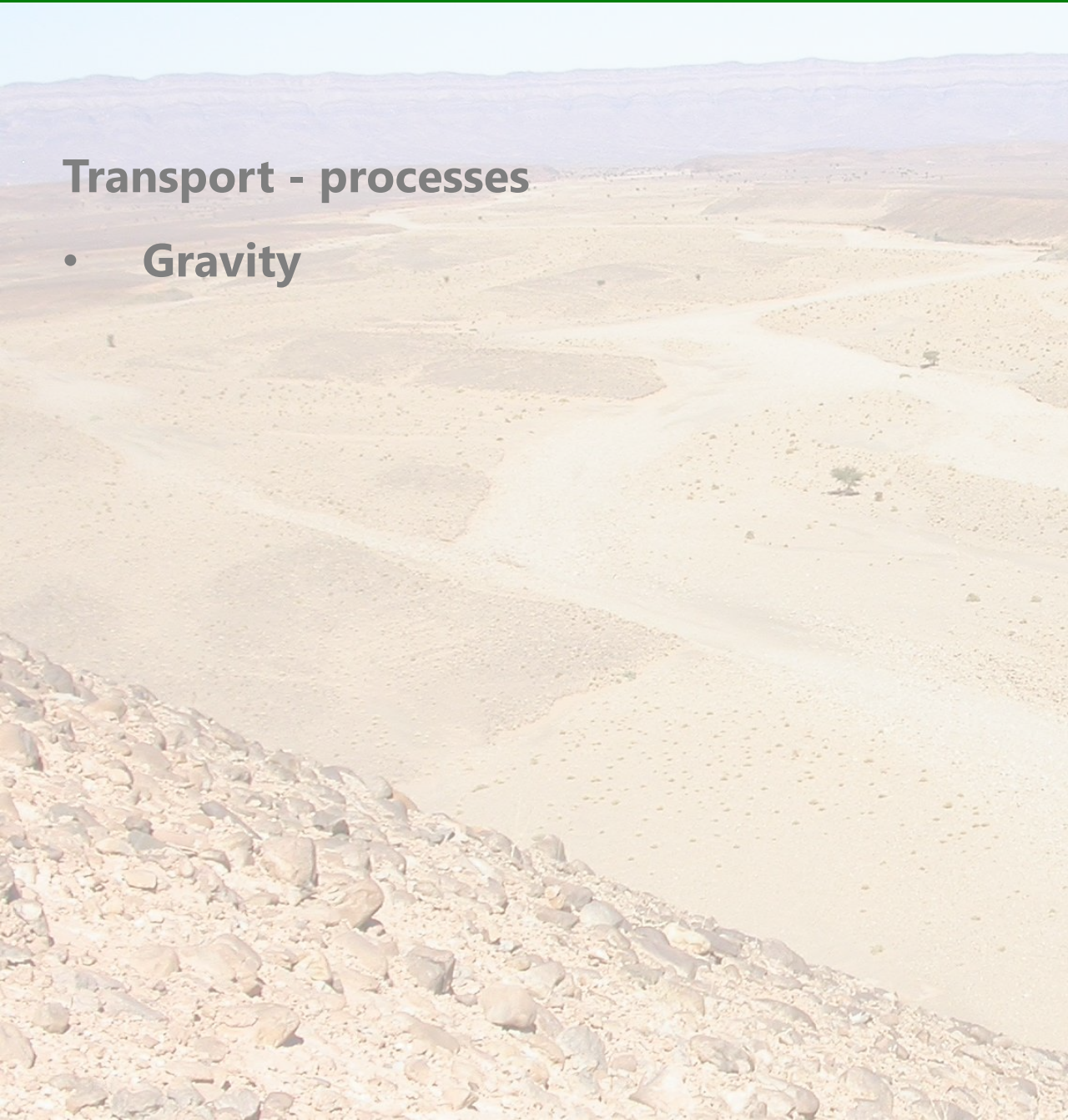
Weathering

- Mechanical weathering
- Chemical weathering
- Biological weathering



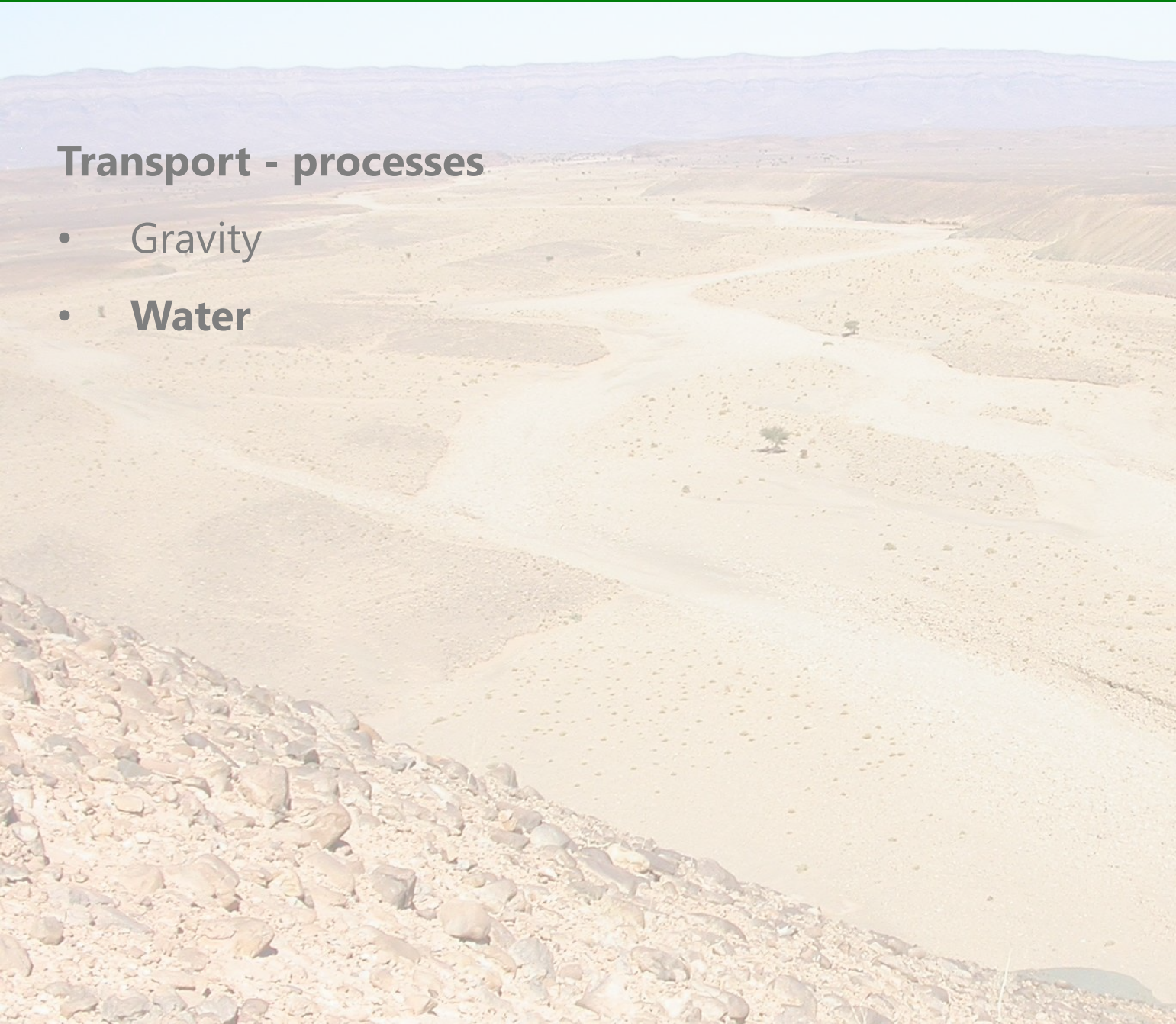
Transport - processes

- Gravity



Transport - processes

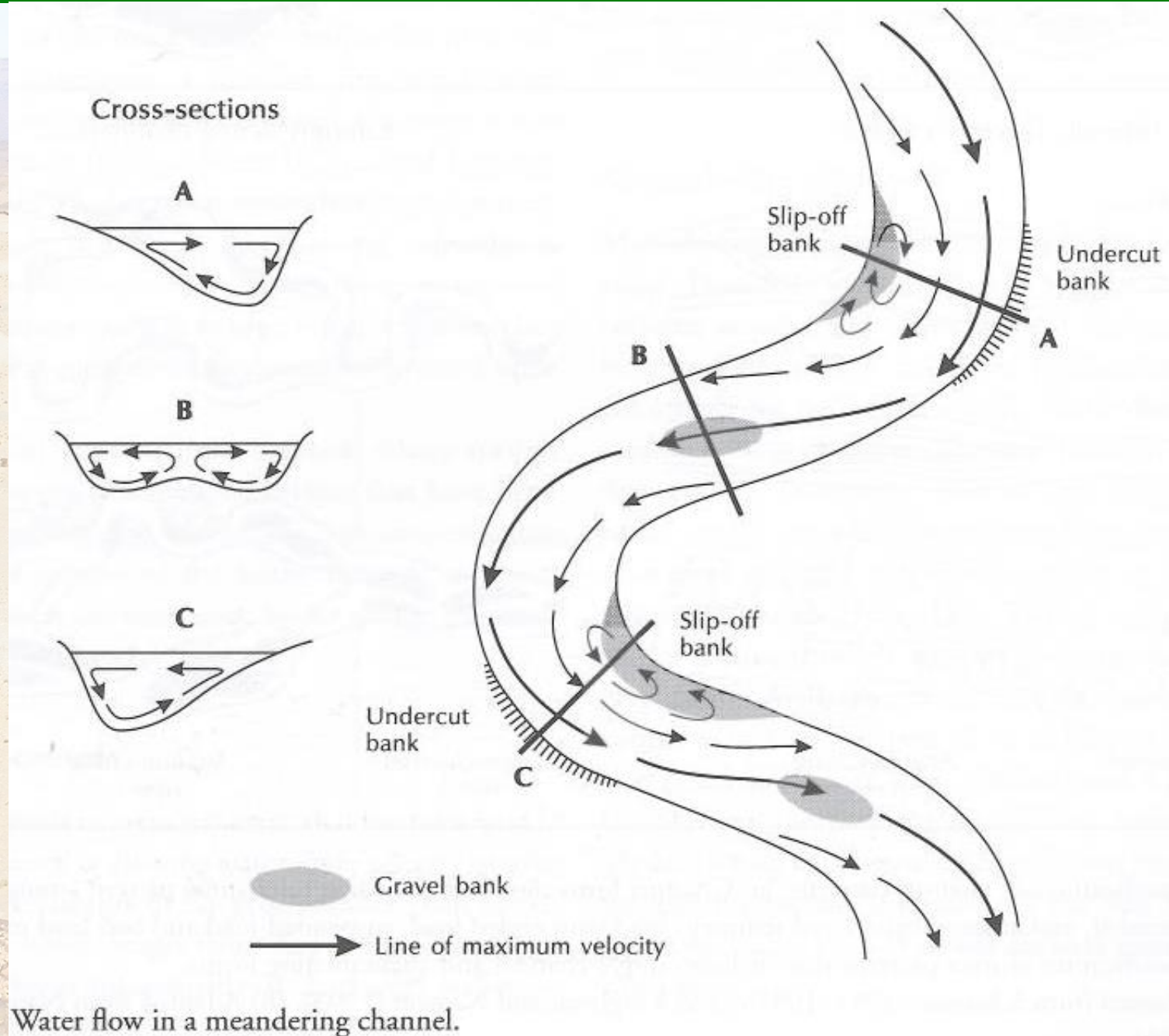
- Gravity
- **Water**



Meandering Rivers | *Nant Ffrancon Valley, Wales*



Meandering Rivers



Meandering Rivers | *Nant Ffrancon Valley, Wales*



Meandering Rivers | *Austerdola, Norway*



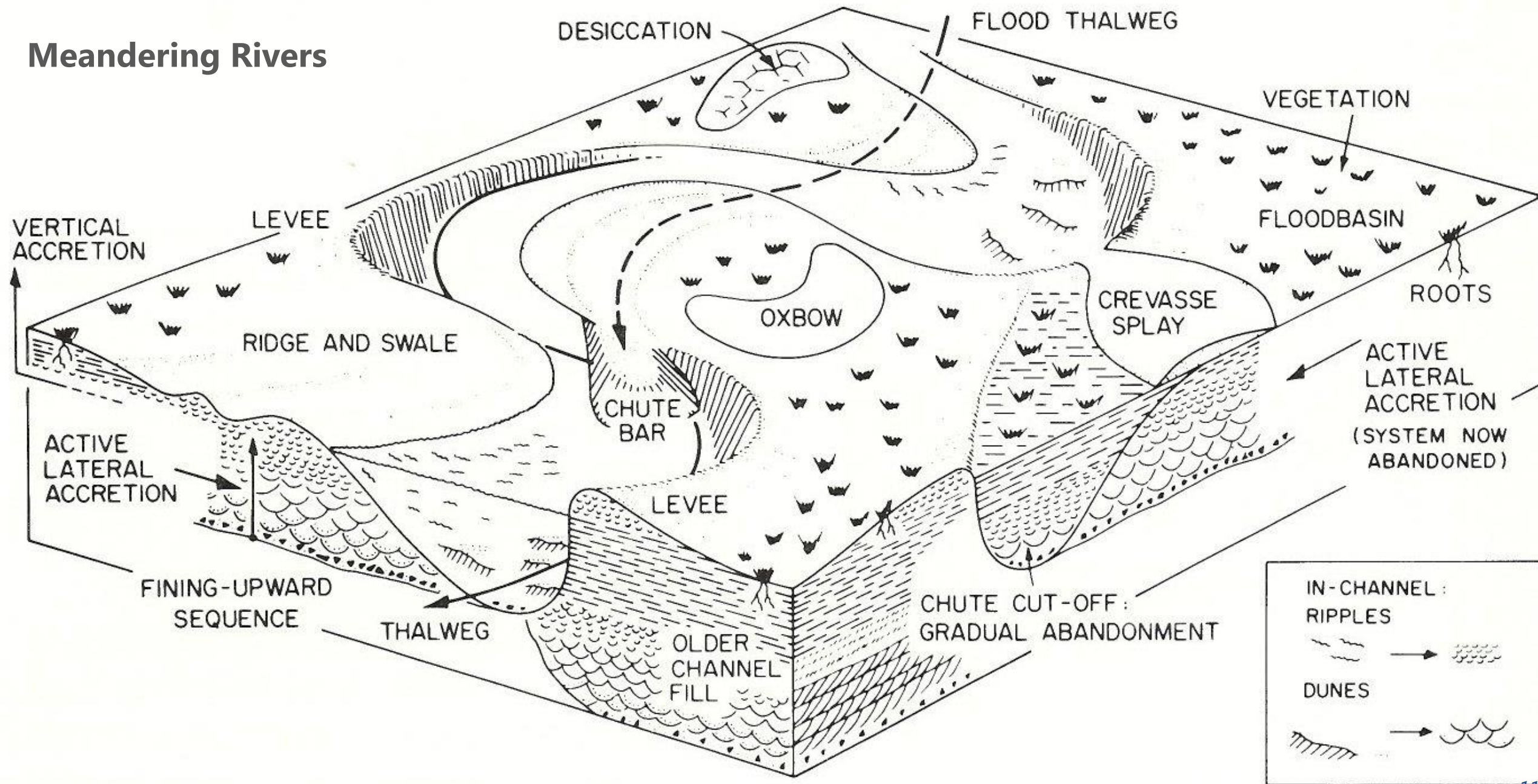
Meandering Rivers | *River Derwent, Cumbria, England*



Point bar

Floodplain

Meandering Rivers



Meandering Rivers | *Austerdola River, Norway*



Bar

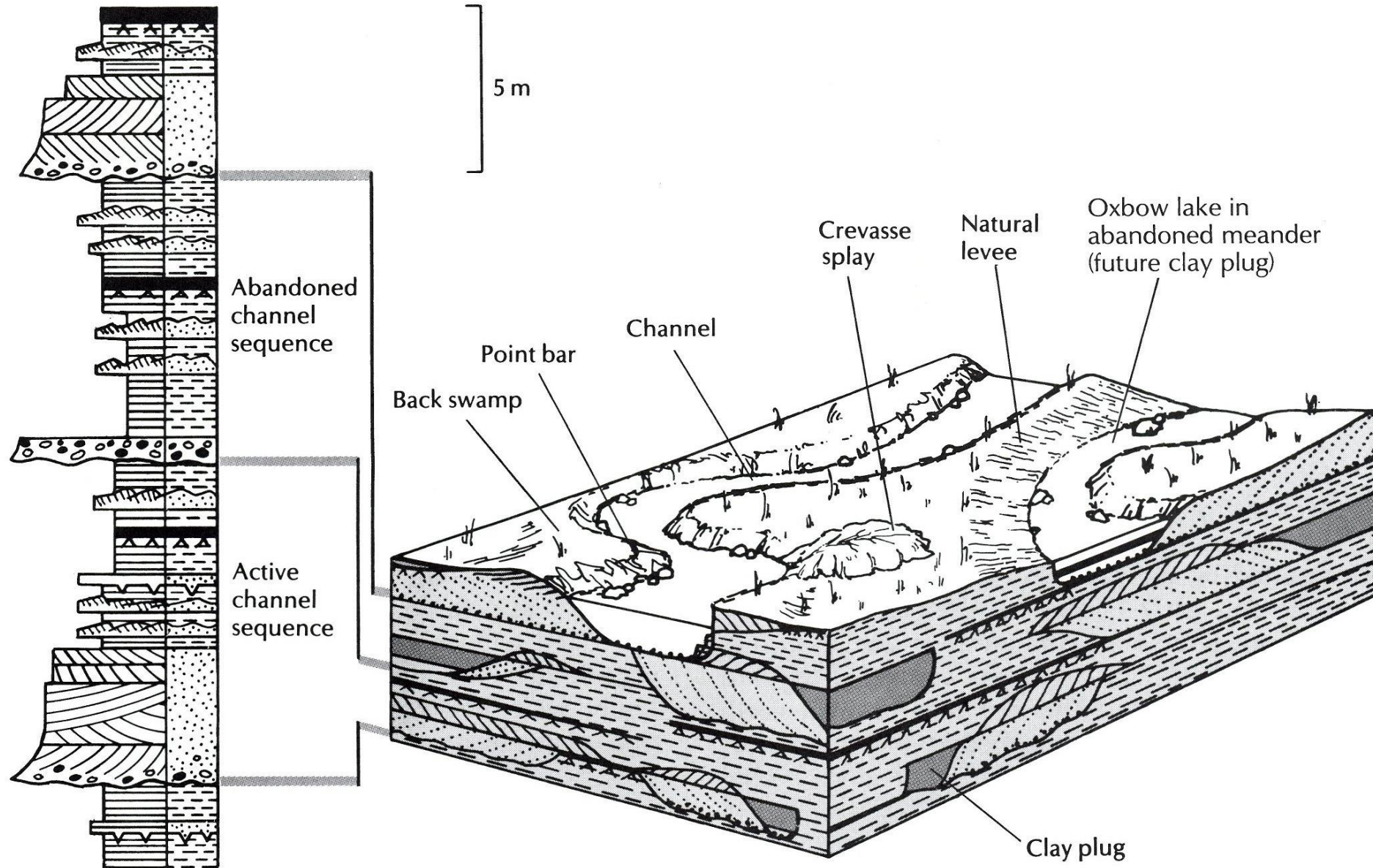
Chute

Bar

Meandering Rivers | *River Derwent, Cumbria, England*

Post-flood bar

Meandering Rivers



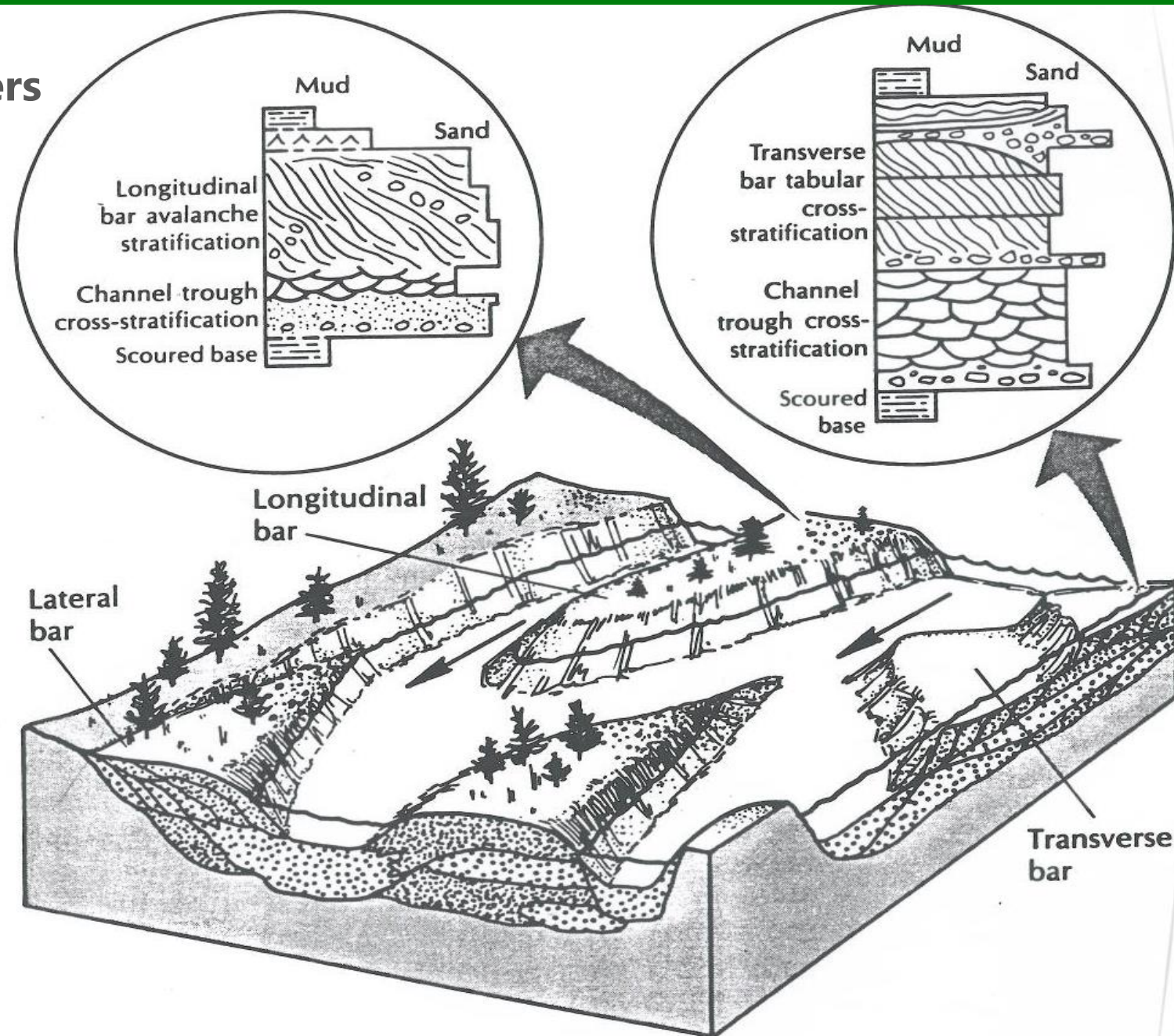
Braided Rivers | *Fabergstolsgrandane, Norway*



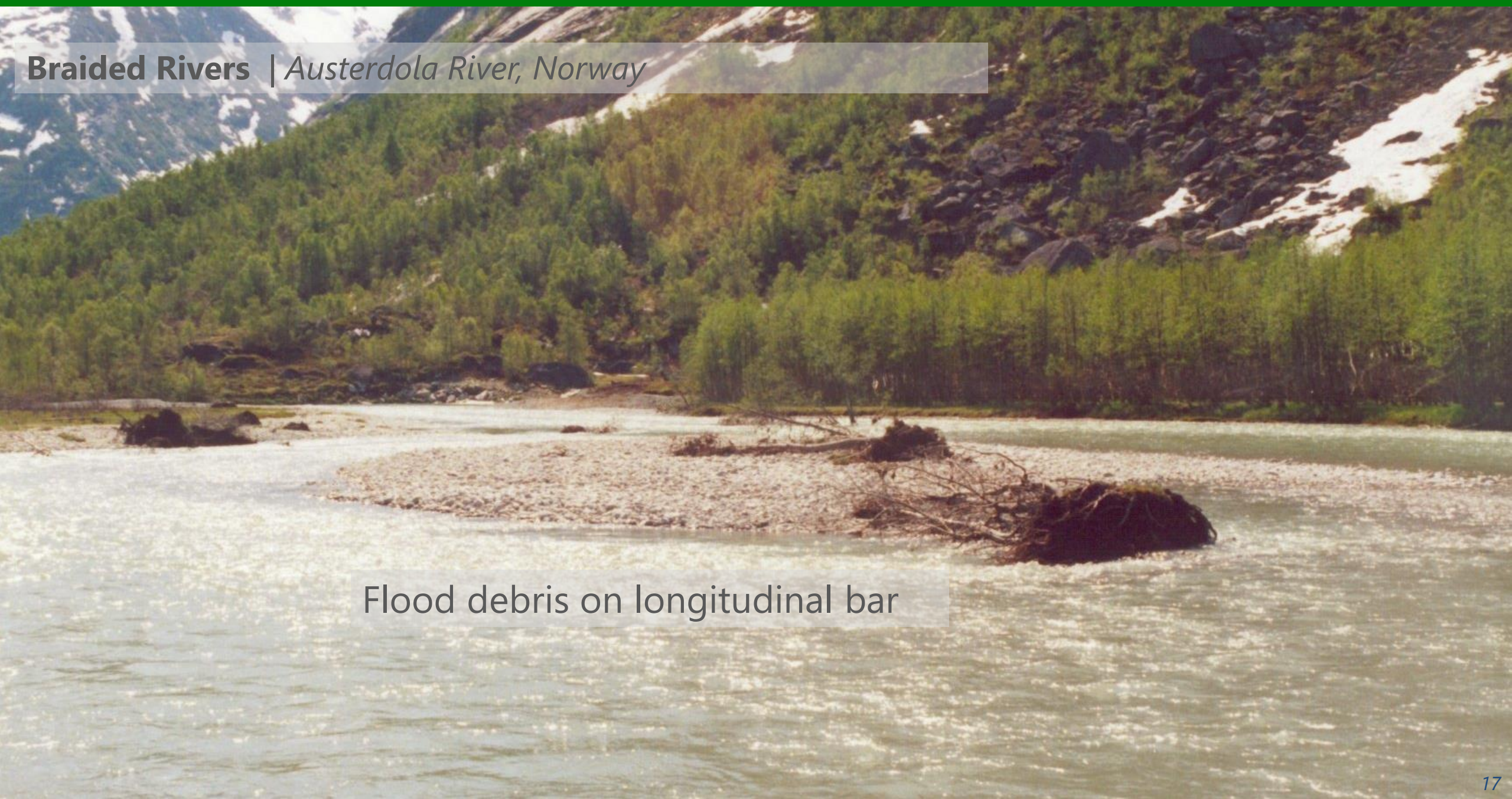
Bars

Multiple
channels

Braided Rivers

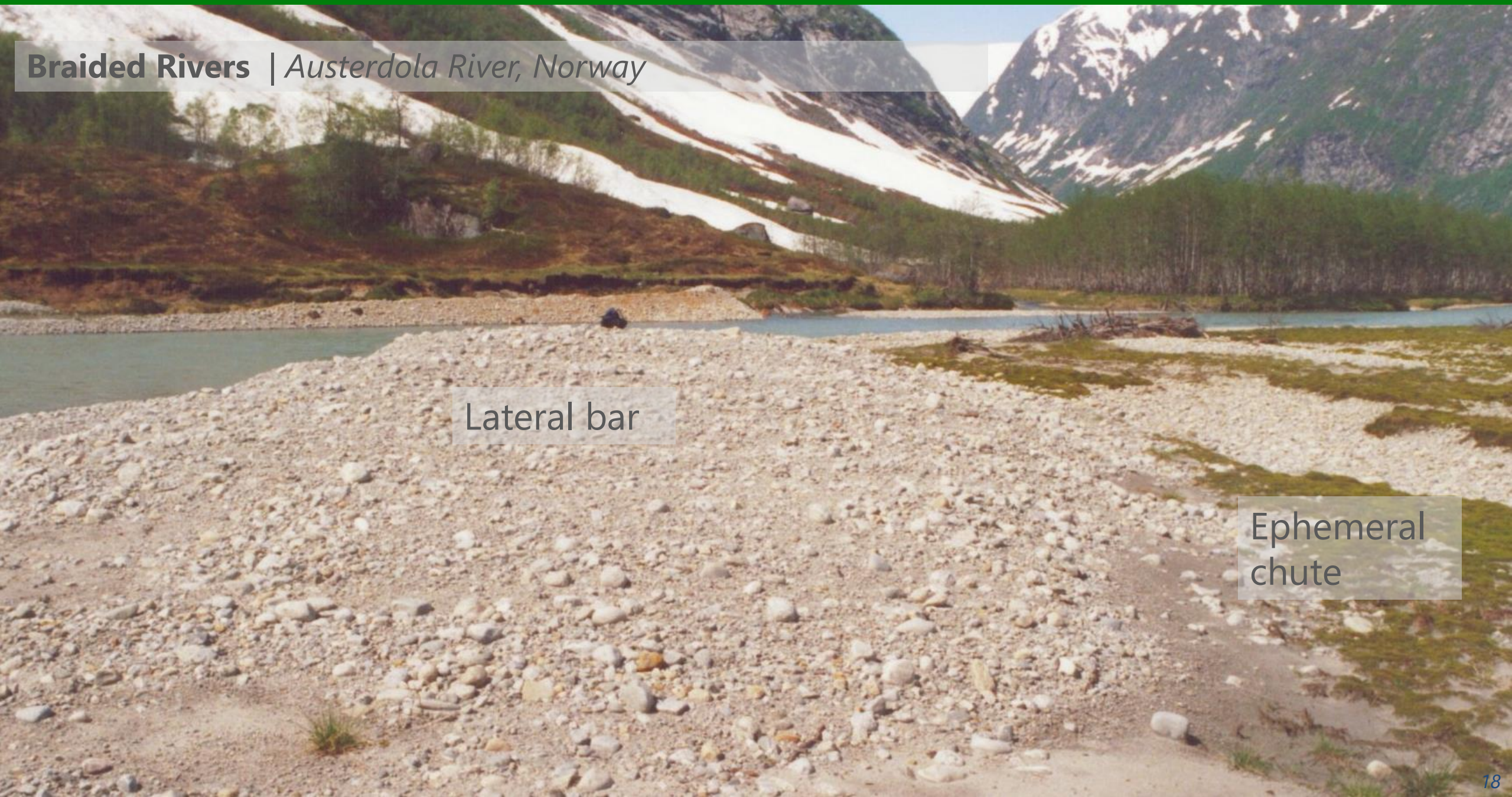


Braided Rivers | *Austerdola River, Norway*



Flood debris on longitudinal bar

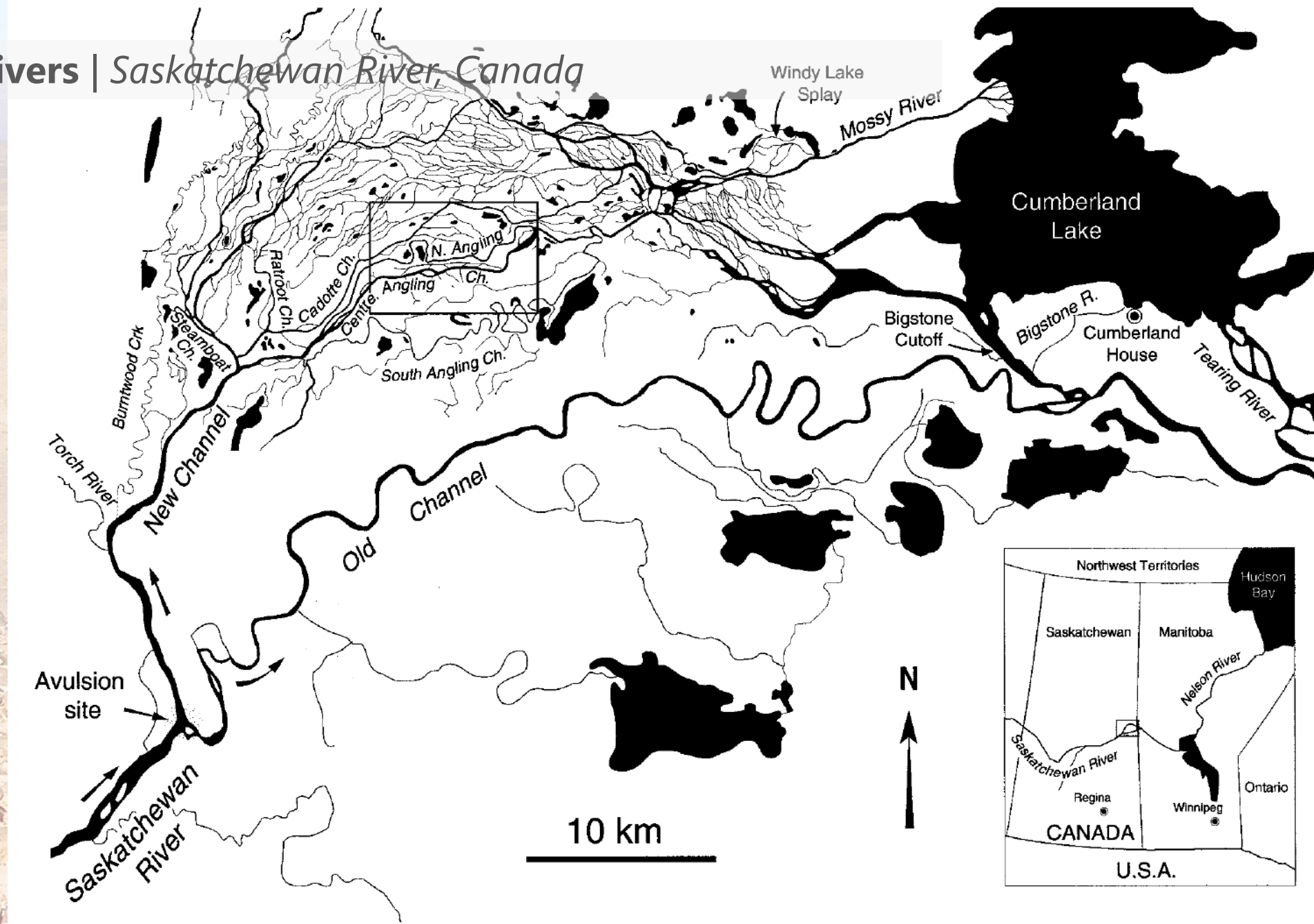
Braided Rivers | *Austerdola River, Norway*



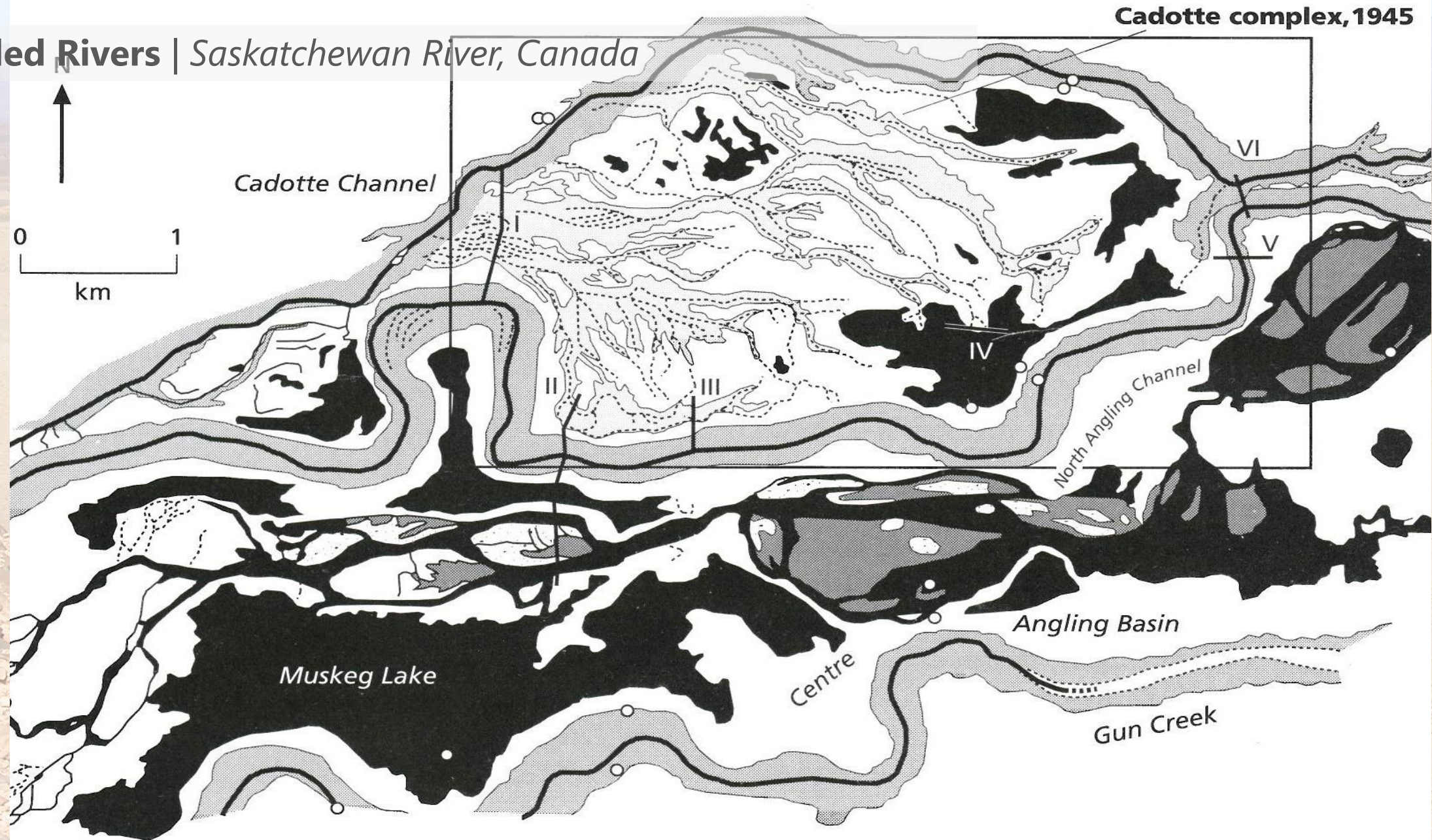
Lateral bar

Ephemeral
chute

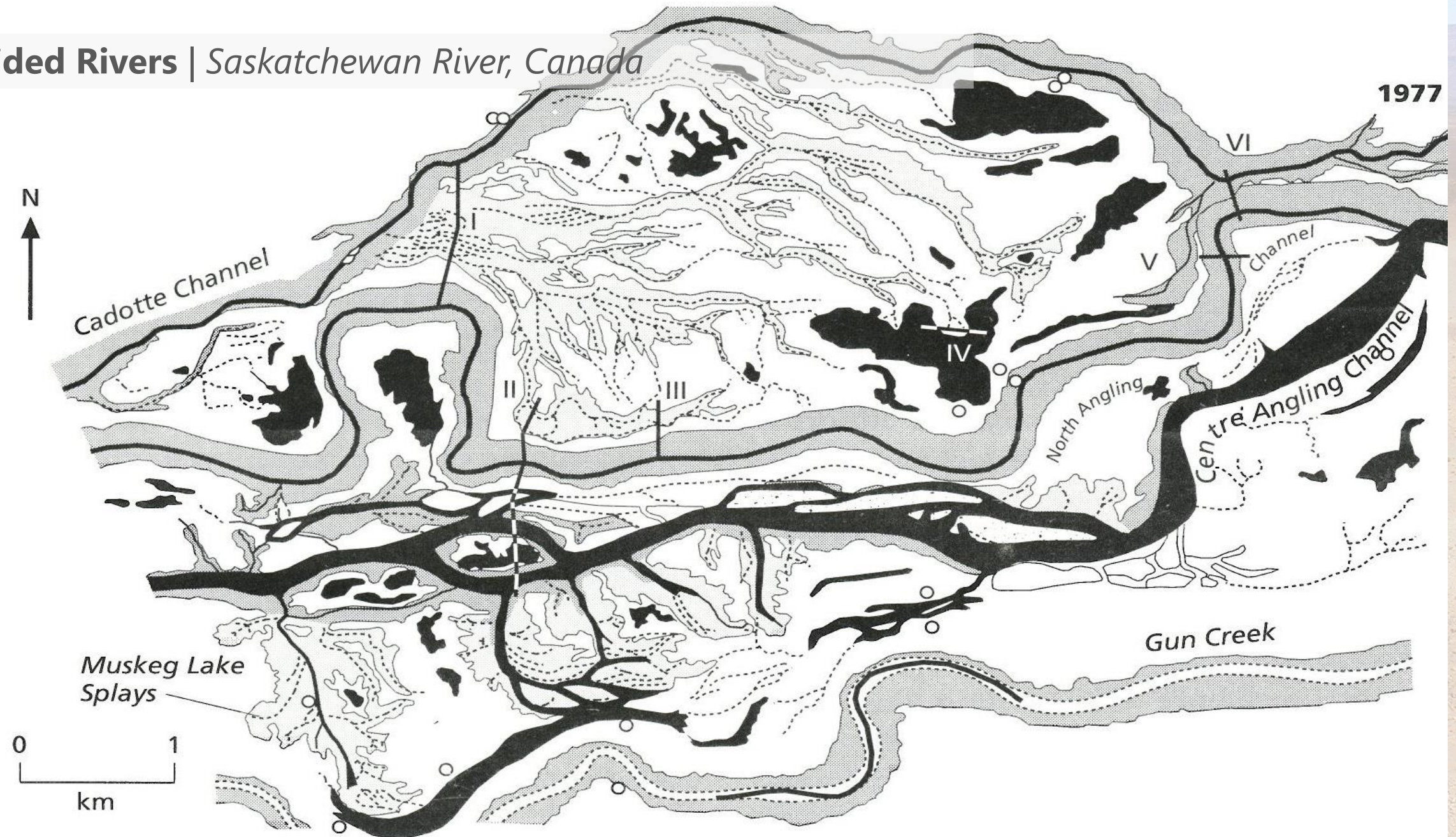
Braided Rivers | *Saskatchewan River, Canada*



Braided Rivers | Saskatchewan River, Canada



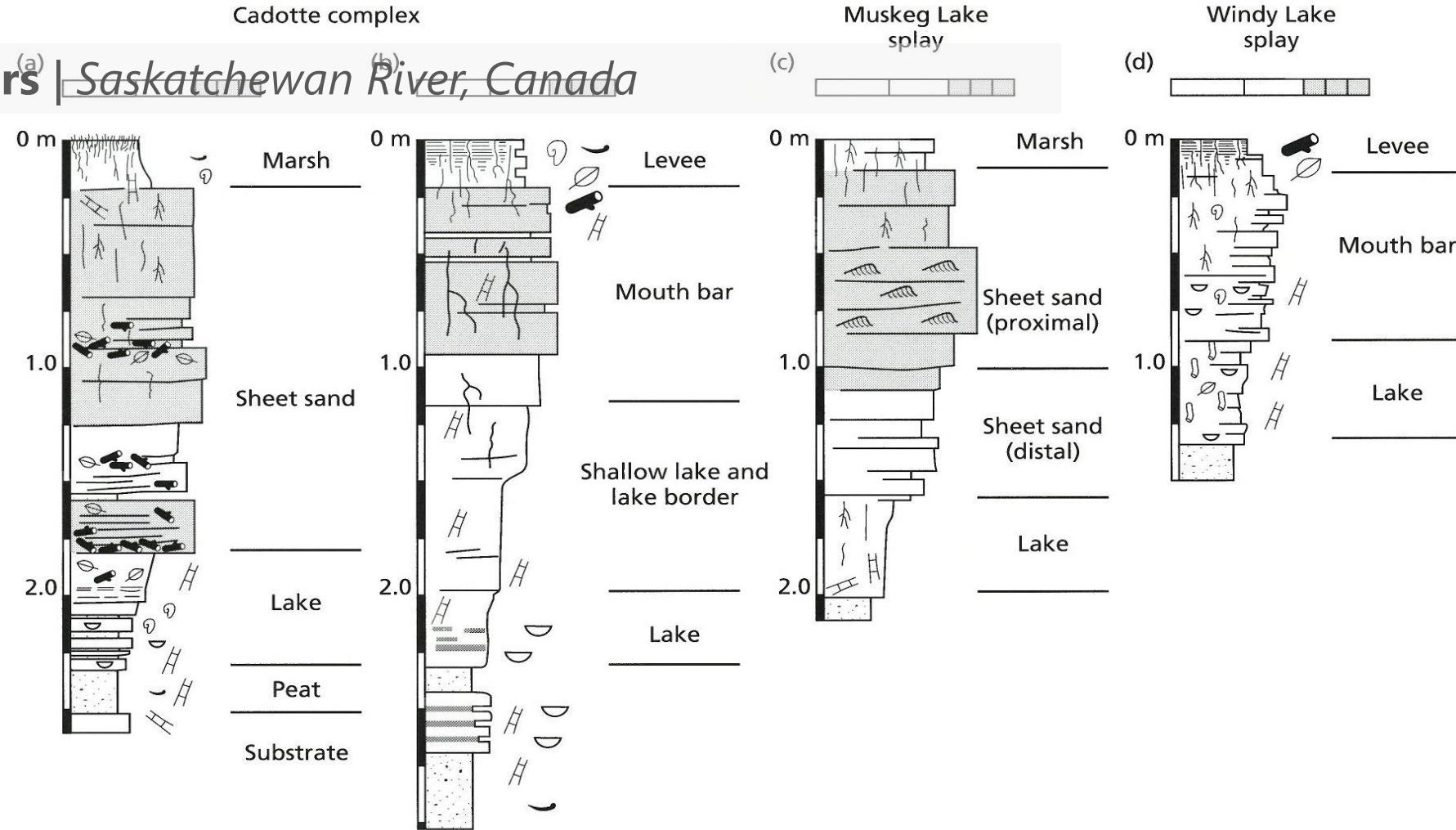
Braided Rivers | Saskatchewan River, Canada



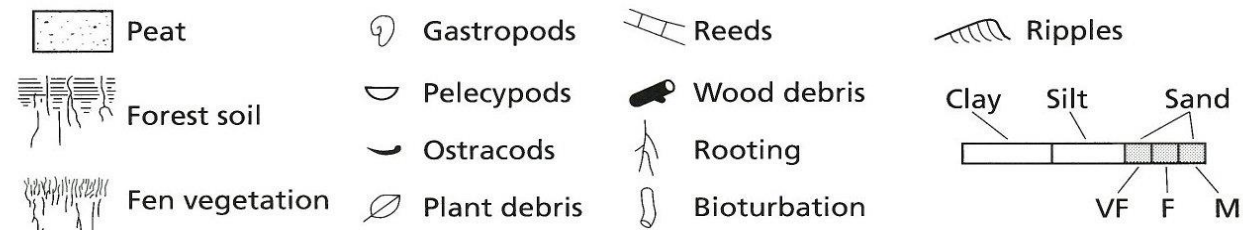
Braided Rivers | *Saskatchewan River, Canada*



Braided Rivers | ^(a) *Saskatchewan River, Canada*



Key

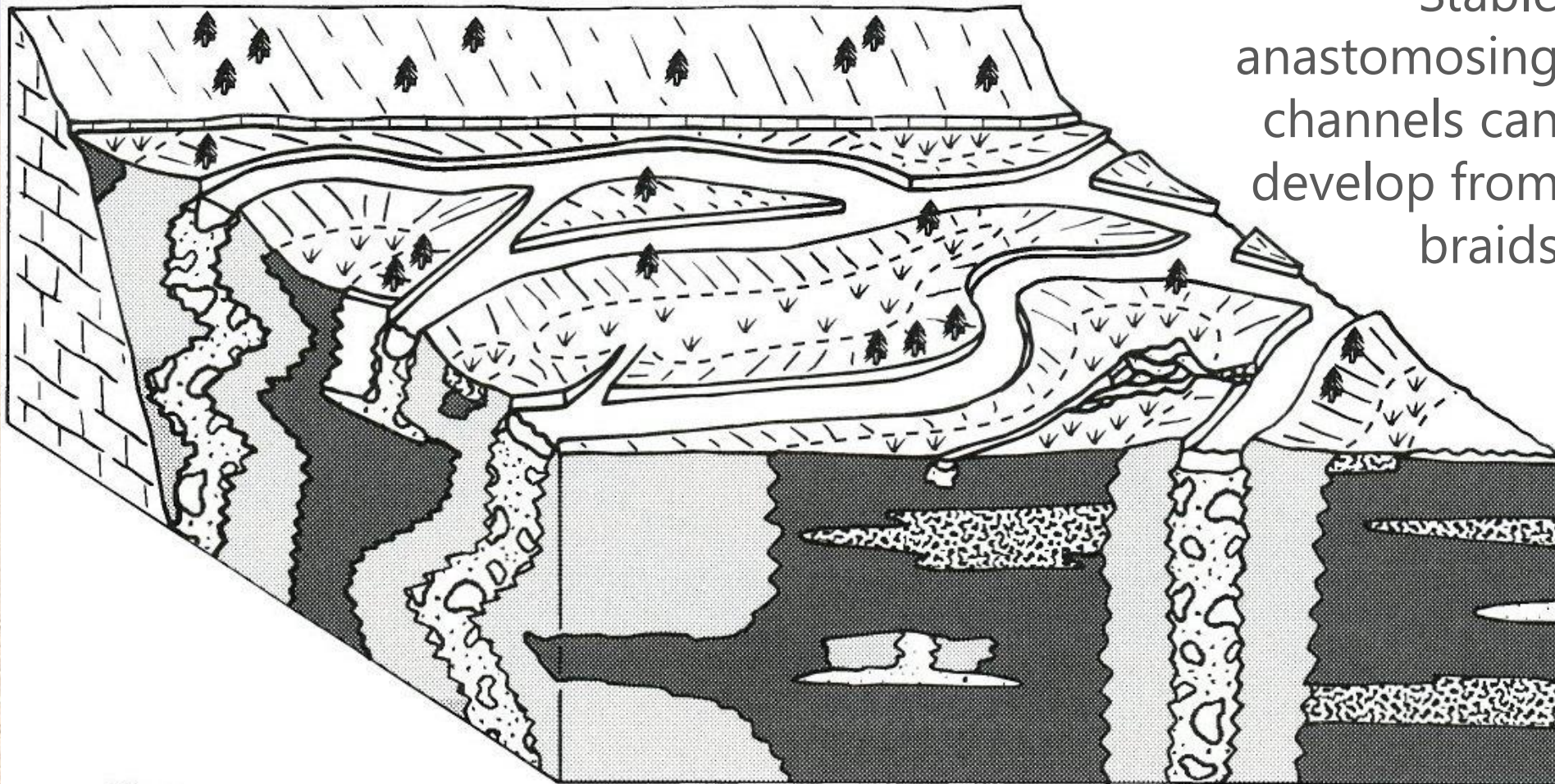


Braided Rivers | *Fell Sandstone, Howick, England*

Channel
sandstone



Braided Rivers



Stable
anastomosing
channels can
develop from
braids

Key

Gravel

Peat

Sandy silt

F. - C. sand

Bedrock

Mud, silty mud

Organic
contents
variable

Upland streams | Coarse angular sediment



Upland streams | Sorting and rounding



Suspended sediment | *Langedola River, Norway*

Glacial
meltwater

Snow
meltwater



Young Landscape

- Sharp peaks
- Steep slopes



Old (mature) Landscape

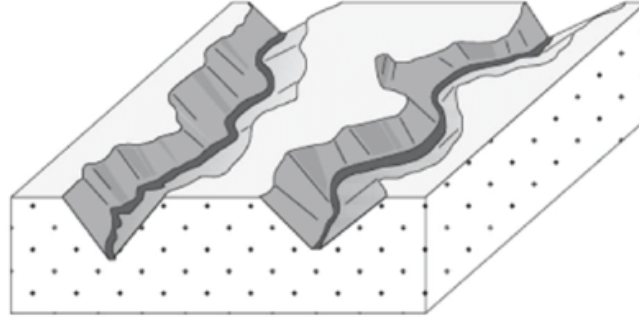
- Broad peaks
- Moderate slopes



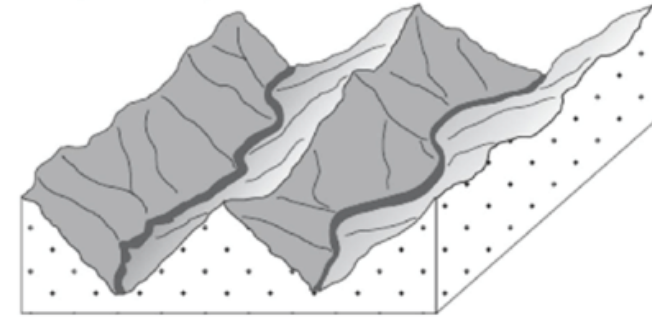
Davision model

*Nature is...
a bit more
complicated*

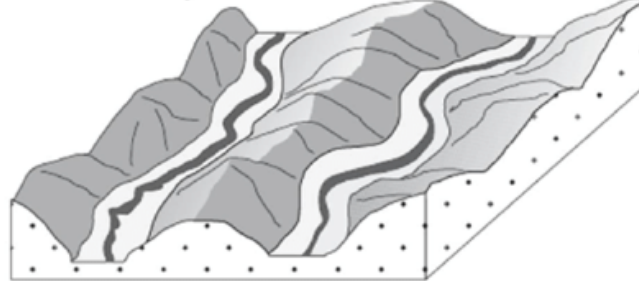
Youth



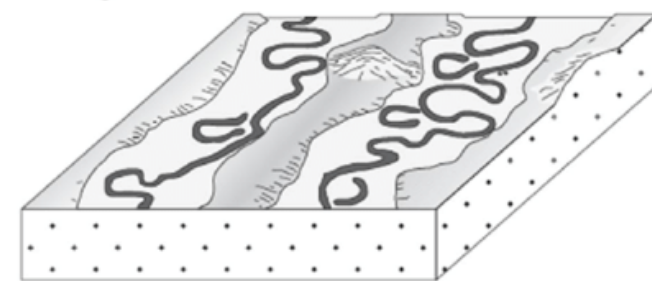
Early Maturity



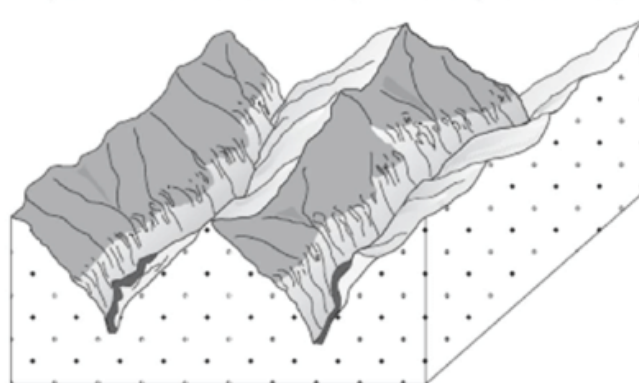
Late Maturity



Old Age



Rejuvenation of an Early Maturity landscape



Rejuvenation of an Old Age landscape

