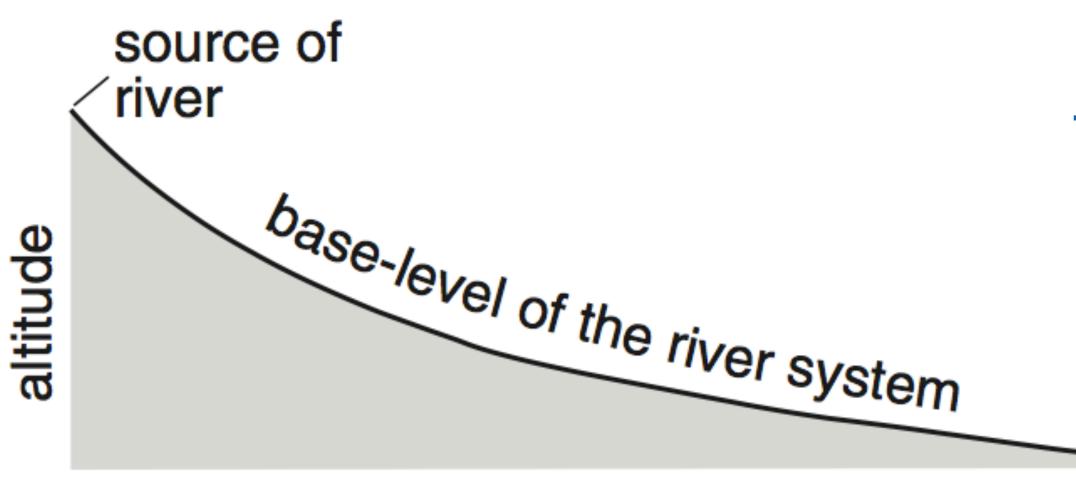
## Equilibrium profile

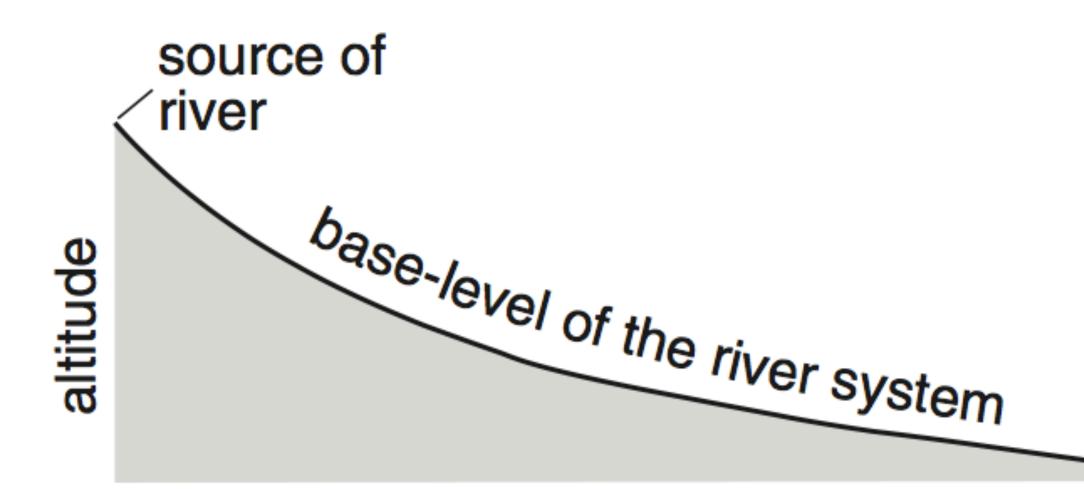


Uplift of the source area will cause the rivers to cut down (or incise) and sediment to be removed

sea-level

sediments eroded by fluvial incision uplift sea-level

## Equilibrium profile



Subsidence of the source area of the river will change the shape of the profile and the river system will re-adjust by eroding and depositing sediment to regain a stable equilibrium profile which will be flatter

sea-level

elevation following subsidence

sediments eroded by
fluvial incision
sediments
deposited
sea-level