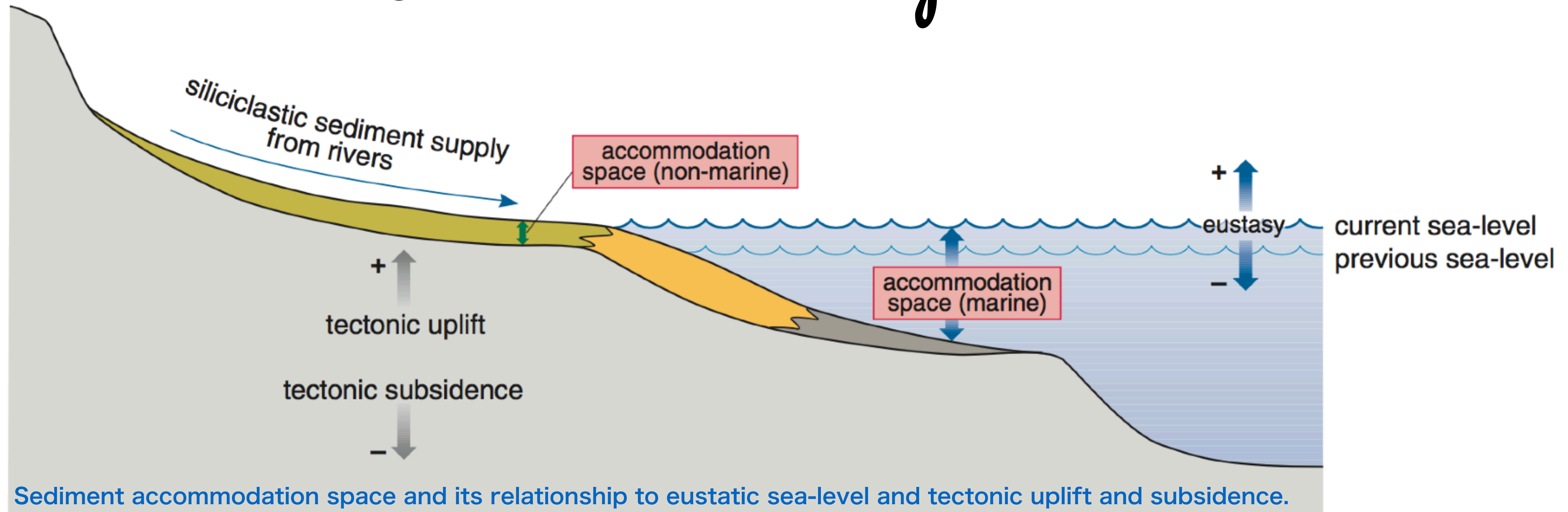


# Accommodation space



Zero accommodation space available = sediments transported to an area of (positive) accommodation.

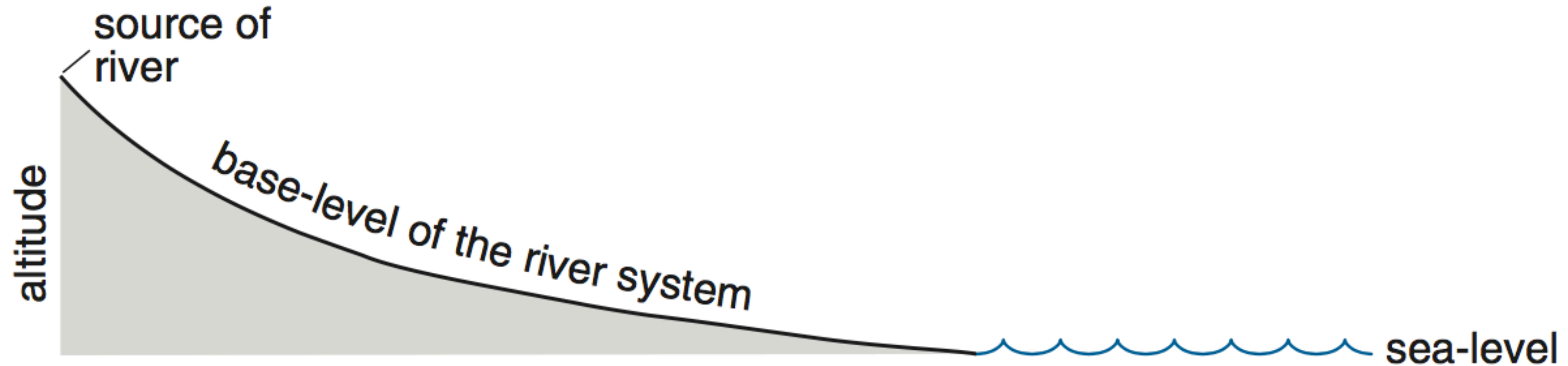
**areas of zero accommodation space are sites of sediment by-pass**

Negative accommodation space = previously deposited sediments are **eroded** and **transported**

Sedimentary systems are trying to achieve and preserve an **equilibrium profile**:

**available accommodation space is balanced by the amount of sediment supplied.**

# Equilibrium profile



The ideal equilibrium profile of an alluvial system (longitudinal profile) is an exponentially curved topographical gradient from the source area to sea-level.

In order to maintain the equilibrium profile, erosion or deposition of alluvial sediments will take place if there is a relative sea-level change and/or tectonic movement in the source area.