

Accommodation space

School of Geosciences

In order for either marine or non-marine sediment to be deposited, there has to be space available to put it in; this is called accommodation space. The amount of marine accommodation space is governed by changes in relative sea-level.

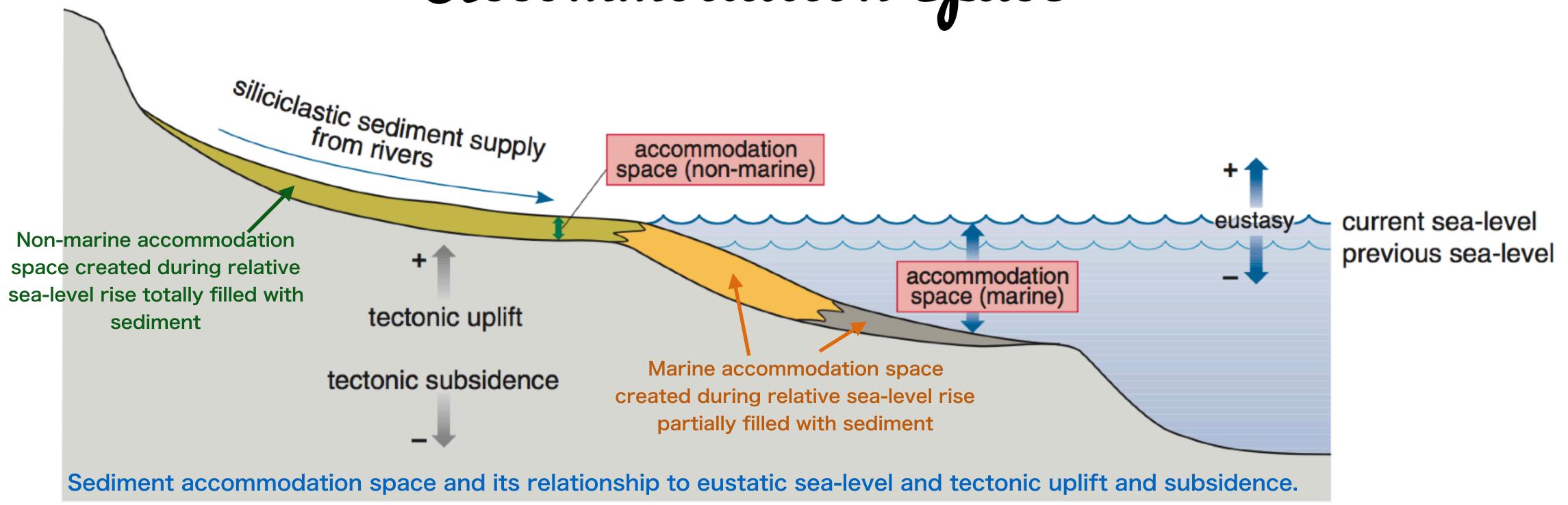
Sediment accommodation space and its relationship to eustatic sea-level and tectonic uplift and subsidence.



Marine accommodation space created during relative sea-level rise partially filled with sediment

Non-marine accommodation space created during relative sea-level rise totally filled with sediment

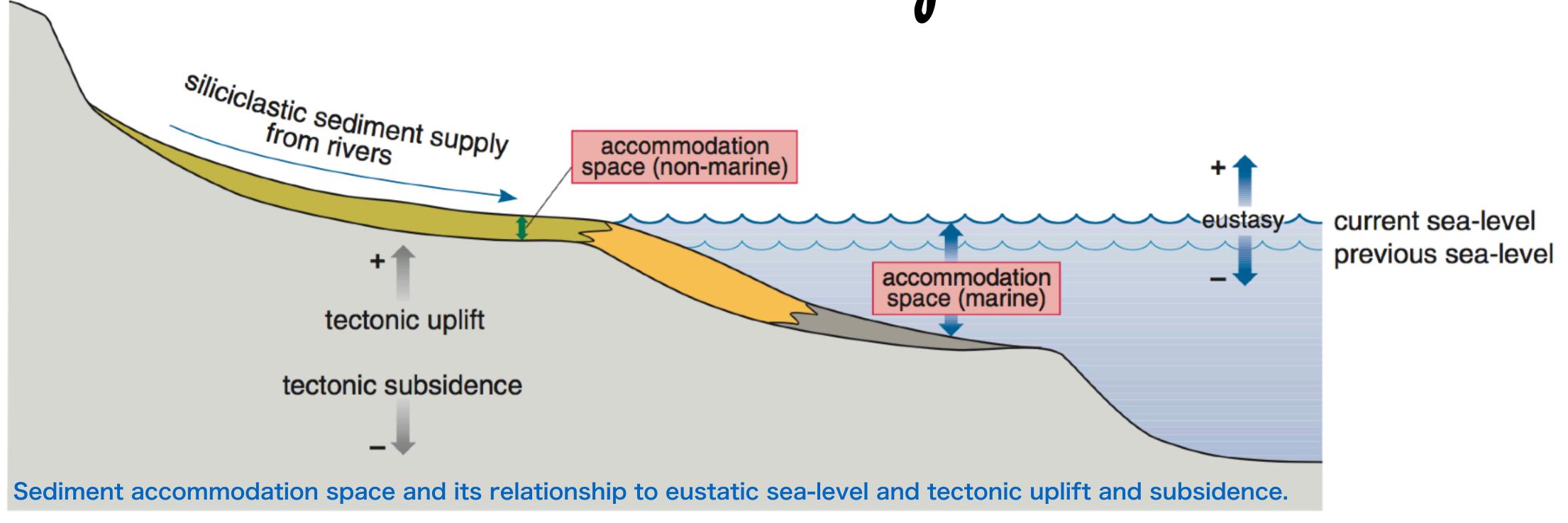
Accommodation space



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Accommodation space



Changes in relative sea-level controlled by both **eustatic sea-level fluctuations** & **tectonic** subsidence/uplift.

Eustasy & tectonic subsidence act independently of each other:

eustatic sea-level fall + higher rate of subsidence = relative sea-level rise -> increase in accommodation space

Relative sea-level is used as an all encompassing term for eustatic and tectonic changes and can be directly equated to changes in marine accommodation space.