

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**.

# Seedling and its relationship to seedling



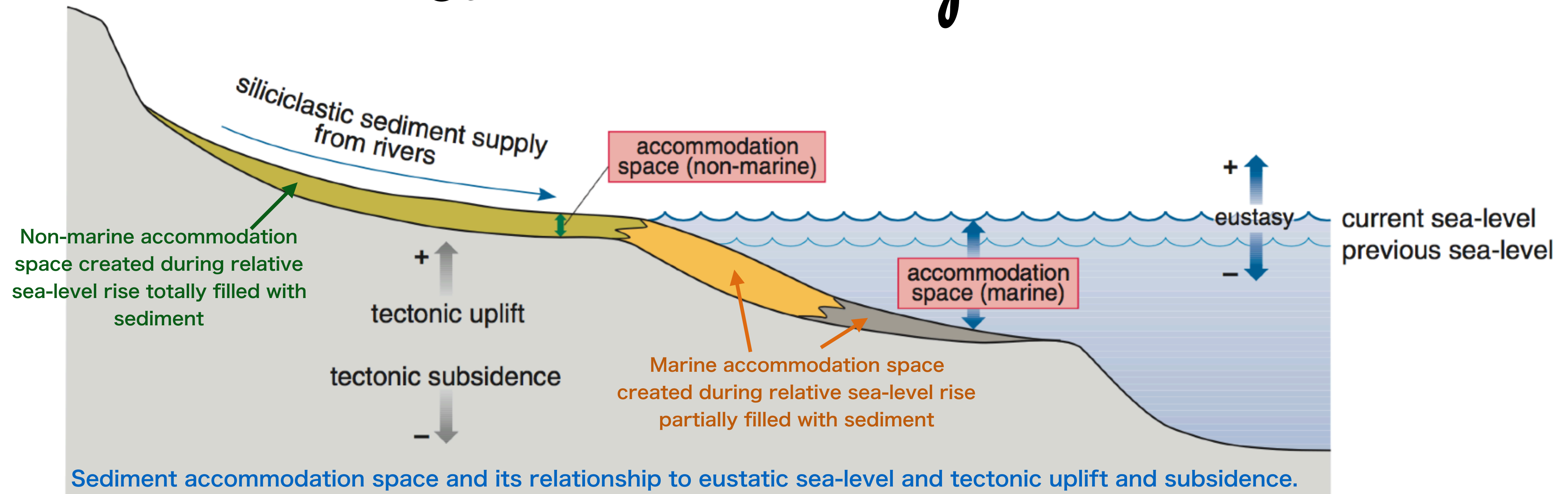
**Marine accommodation space  
created during relative sea-level rise  
partially filled with sediment**

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





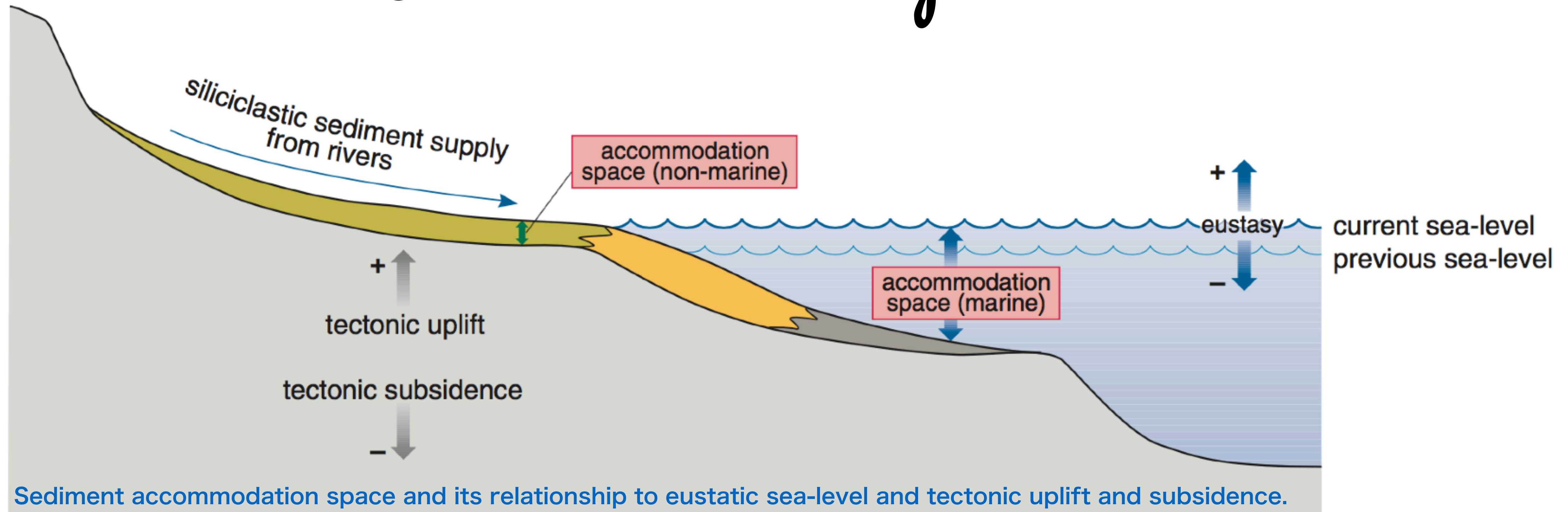
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Changes in relative sea-level controlled by both **eustatic sea-level fluctuations** & **tectonic subsidence/uplift**.

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.