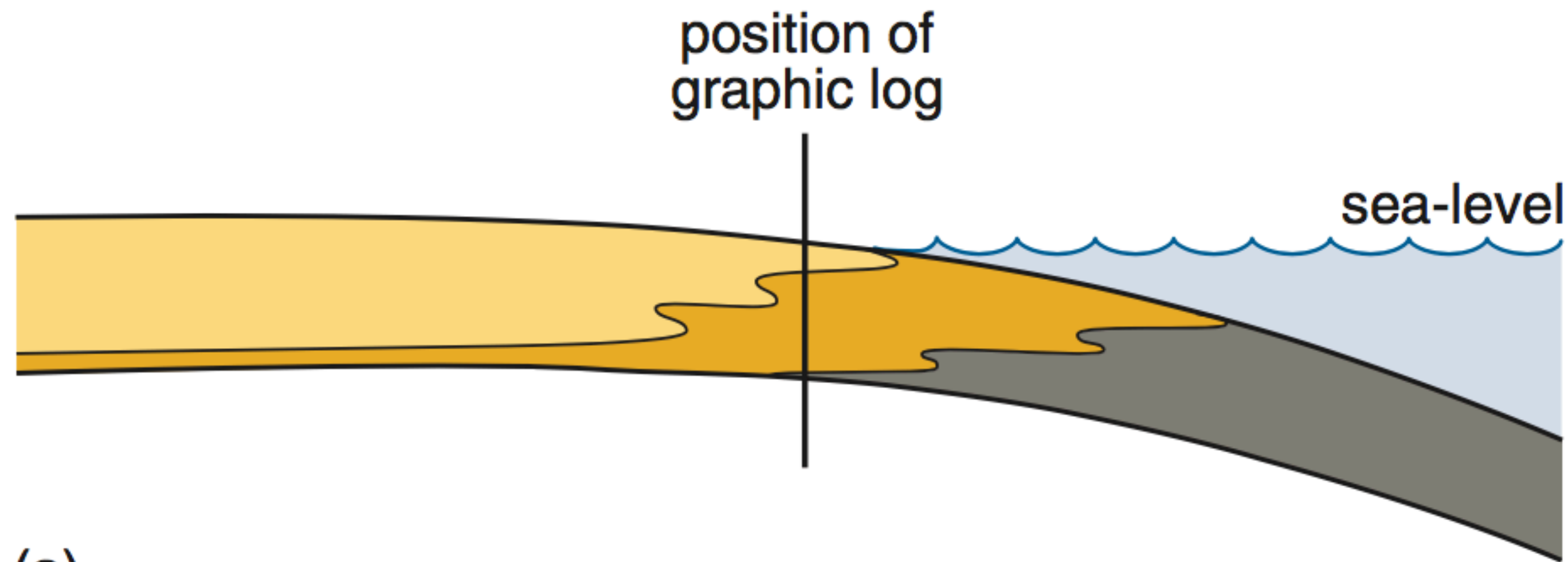


Development of para sequences

School of Geosciences

Relative sea-level and therefore accommodation space, together with sediment supply vary over a number of different time-scales.

Small-scale **sequence stratigraphical depositional units** (parasequences) stack together due to changes in accommodation space and/or sediment supply over longer time periods to form sequences.



(a)

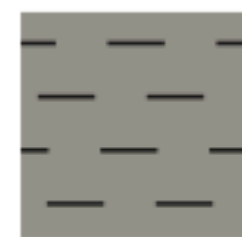
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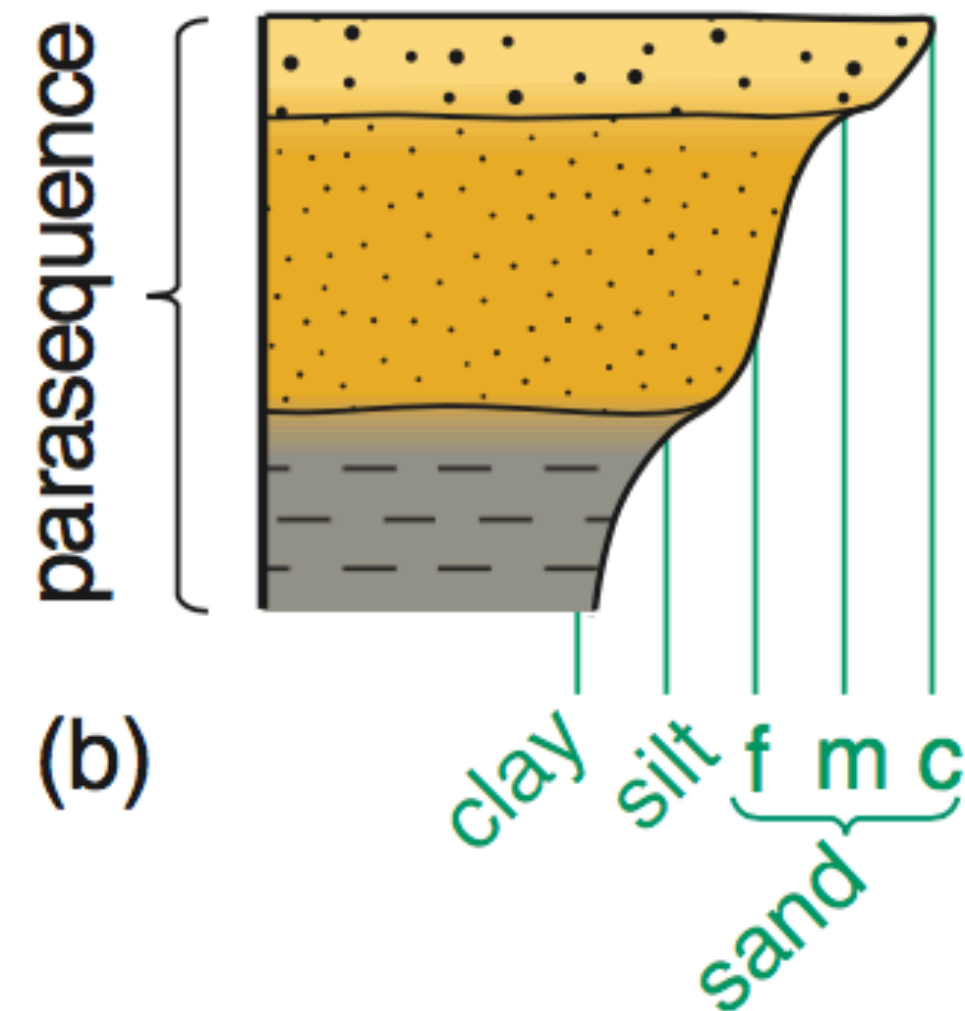
alluvial and coastal
plain sediments



shallow-marine
sediments



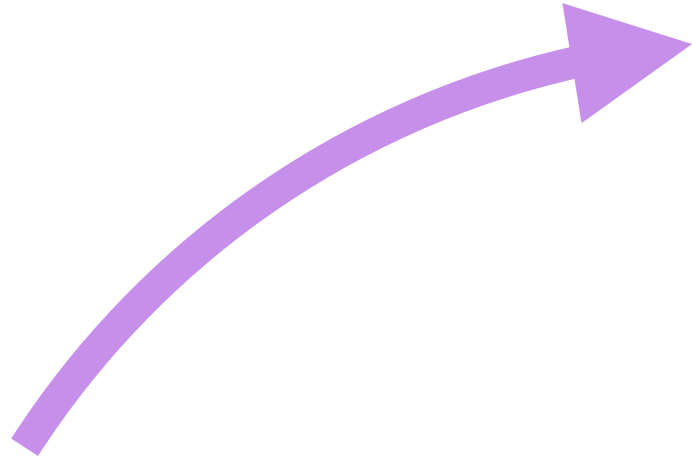
offshore-marine
sediments



(b)

A simplified graphic log of the resultant coarsening-upward succession termed a parasequence.

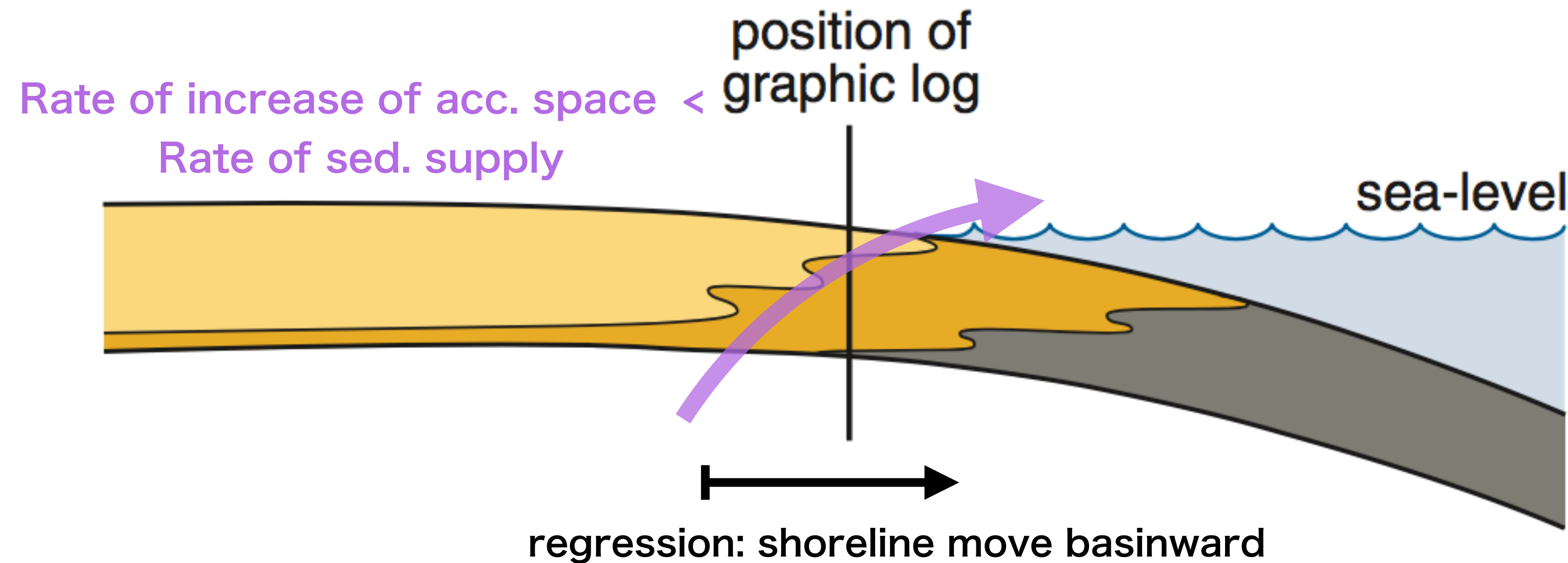
Rate of increase of acc. space <
Rate of sed. supply





regression: shoreline move basinward

Development of parasequences



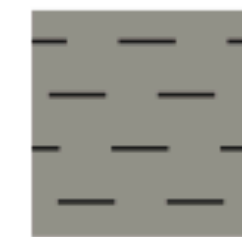
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alluvial and coastal
plain sediments

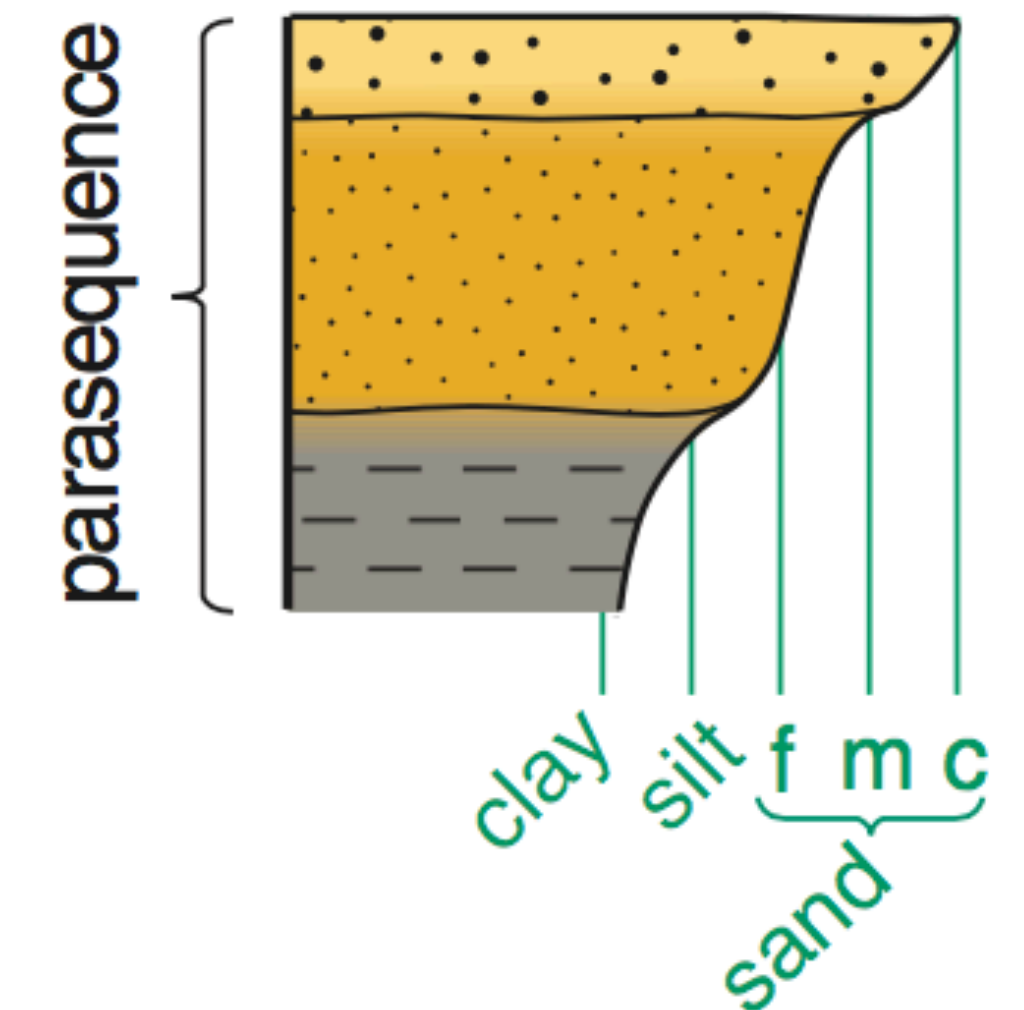


shallow-marine
sediments



offshore-marine
sediments

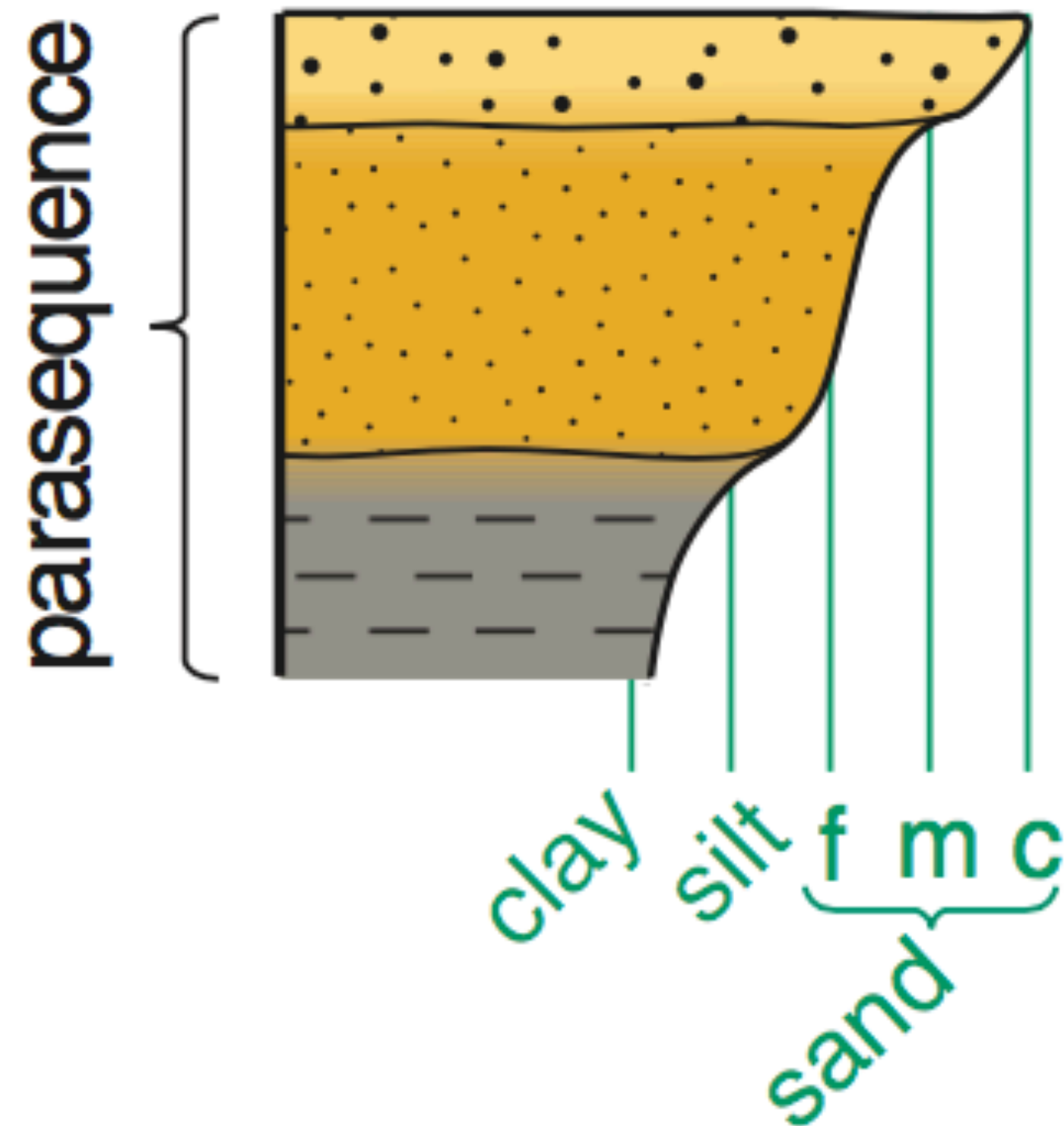
A simplified graphic log of the resultant coarsening-upward succession termed a parasequence.



Relative sea-level and therefore accommodation space, together with sediment supply vary over a number of different time-scales.

Small-scale **sequence stratigraphical depositional units** (parasequences) stack together due to changes in accommodation space and/or sediment supply over longer time periods to form sequences.

Development of parasequences



Deposits accumulate through time in progressively
shallower-water depths



**parasequence is shallowing-upward and usually
coarsening-upward**

If rate of sed. supply & rate of acc. space remained constant: the succession continues to prograde into the basin until the sediments have filled all the available accommodation space.

