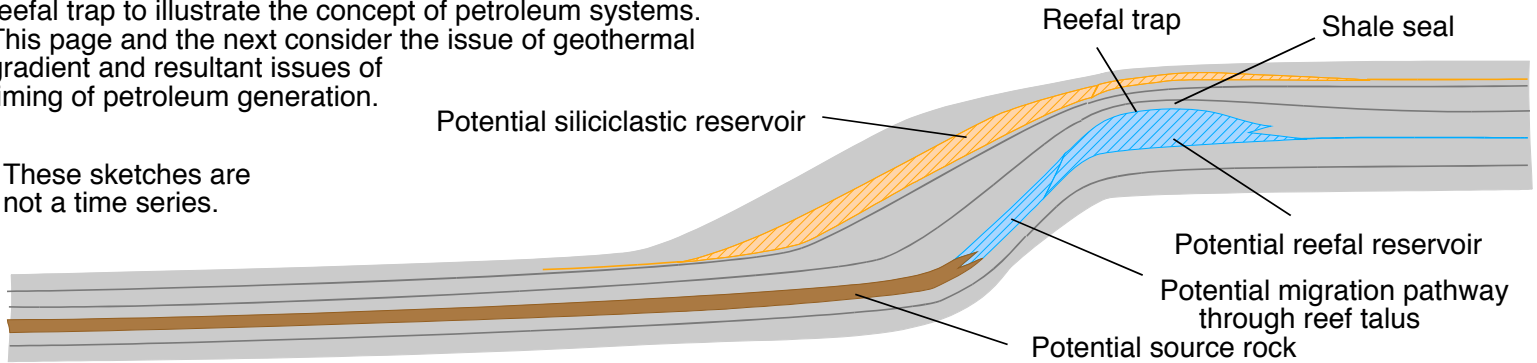


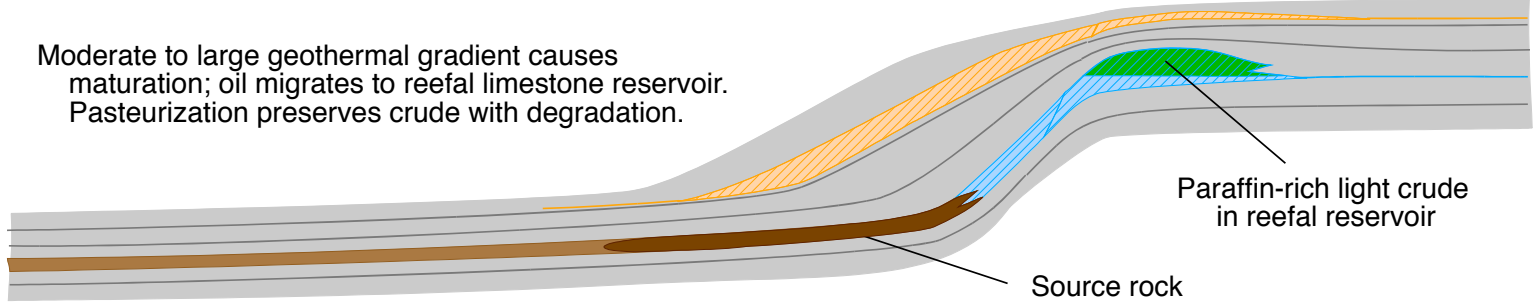
Petroleum systems III: Reefal trap III

This is the third of six pages using sketches of a potential reefal trap to illustrate the concept of petroleum systems. This page and the next consider the issue of geothermal gradient and resultant issues of timing of petroleum generation.

These sketches are not a time series.



Moderate to large geothermal gradient causes maturation; oil migrates to reefal limestone reservoir. Pasteurization preserves crude with degradation.



Small geothermal gradient delays or does not cause maturation while potential limestone reservoirs lose porosity to diagenesis.

