

- 1) Write out the equation for Relative Sea Level and explain its components and their effect on relative sea level change.
- 2) Find 3 deltas in google maps. For each delta, give their coordinates and tell me which processes are most responsible for determining their morphology.

Due: Mon, Mar 6th , 10 AM

- 1) Write out the equation for Relative Sea Level and explain its components and their effect on relative sea level change.

Relative Sea Level Equation

$$RSL = ASL + SUB - SED$$

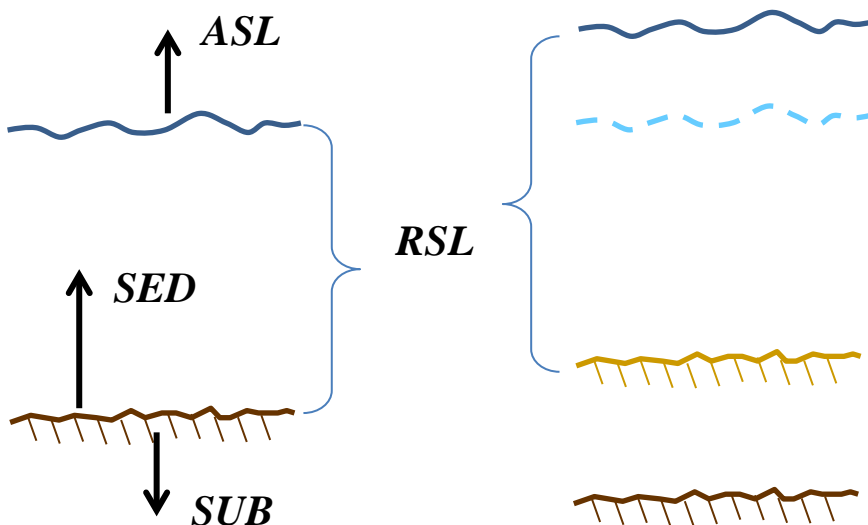
Relative sea level changes are equal to absolute (eustatic) sea level changes plus subsidence minus deposition.

RSL = relative sea level [L/T]

ASL = absolute sea level [L/T]

SUB = subsidence [L/T]

SED = sediment deposition [L/T]



Delta Types

2) Find 3 deltas in google maps. For each delta, give their coordinates and tell me which processes are most responsible for determining their morphology.

This diagram represents the major processes responsible for sediment transport on deltas (waves, tides, rivers) and their relative influence on delta morphology and stratigraphy.

