

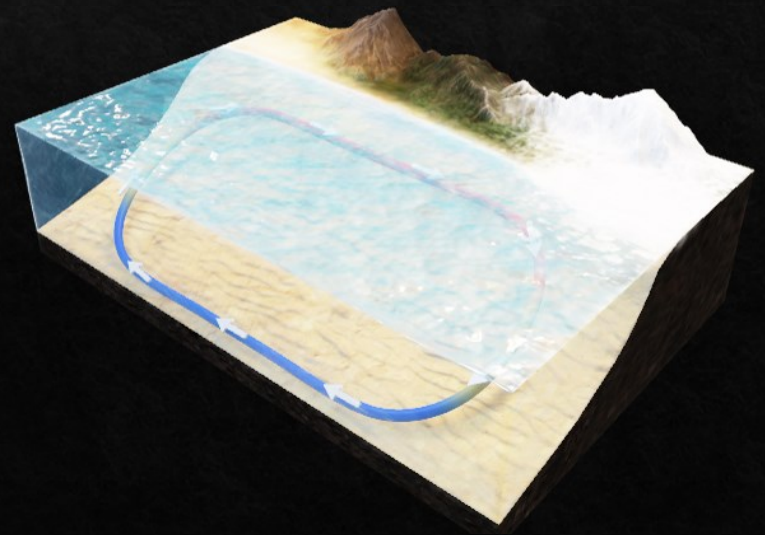


Lab 6 Paleogeography

Eric Z. 03/10/2020

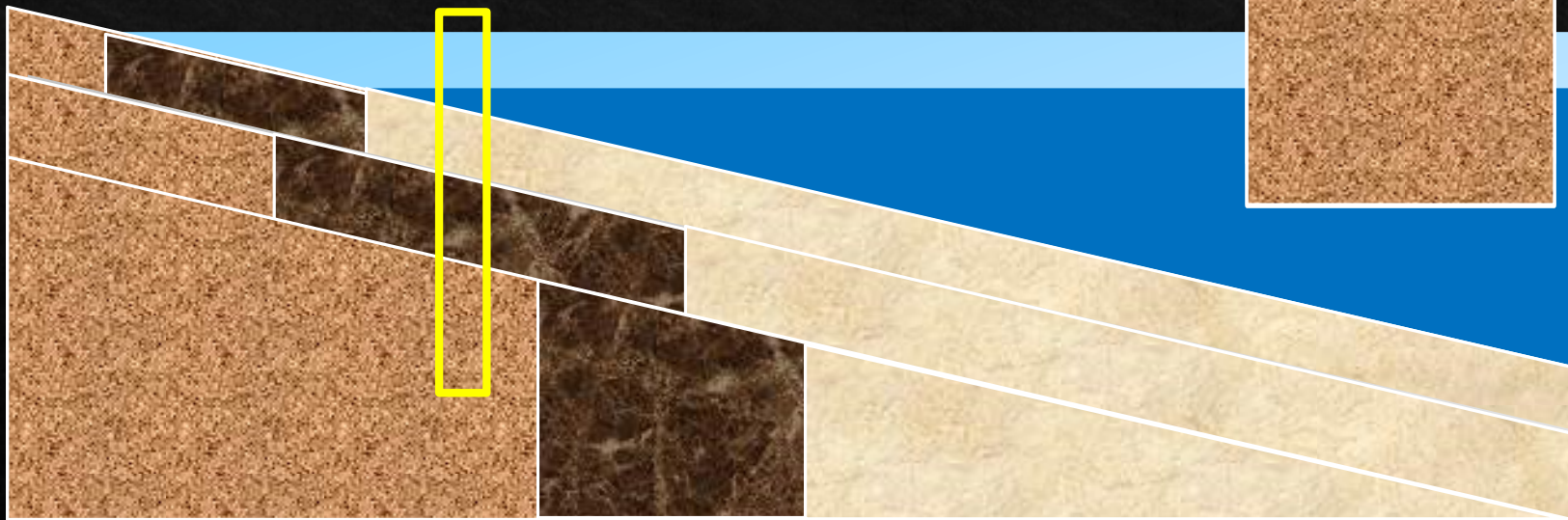
Transgression & Regression

- ◆ Marine transgression – sea level rise
 - ◆ Shoreline moves to higher ground
 - ◆ Glacial melting or subsidence
- ◆ Marine regression – sea level fall
 - ◆ Sea floor exposed
 - ◆ Ice age or uplifting



Transgressive Sequence

- ◇ Grain size fines upward
- ◇ Sea level deepens upward



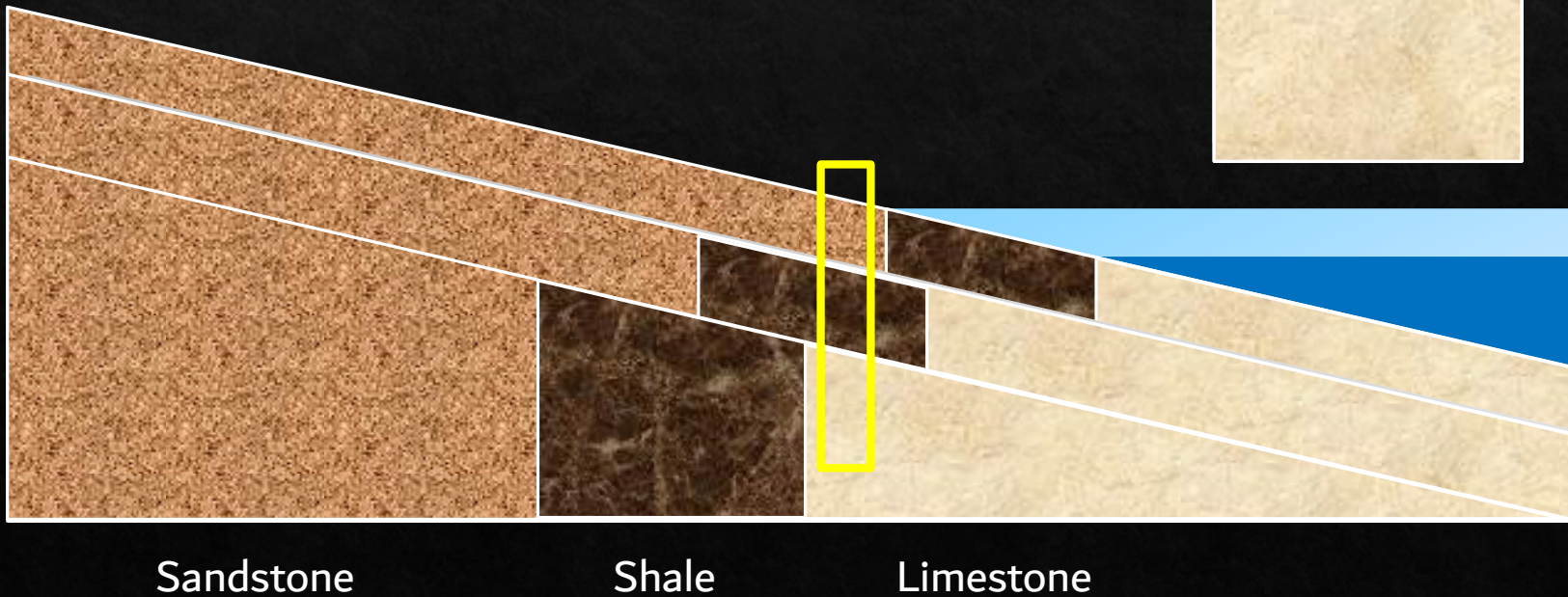
Sandstone

Shale

Limestone

Regressive Sequence

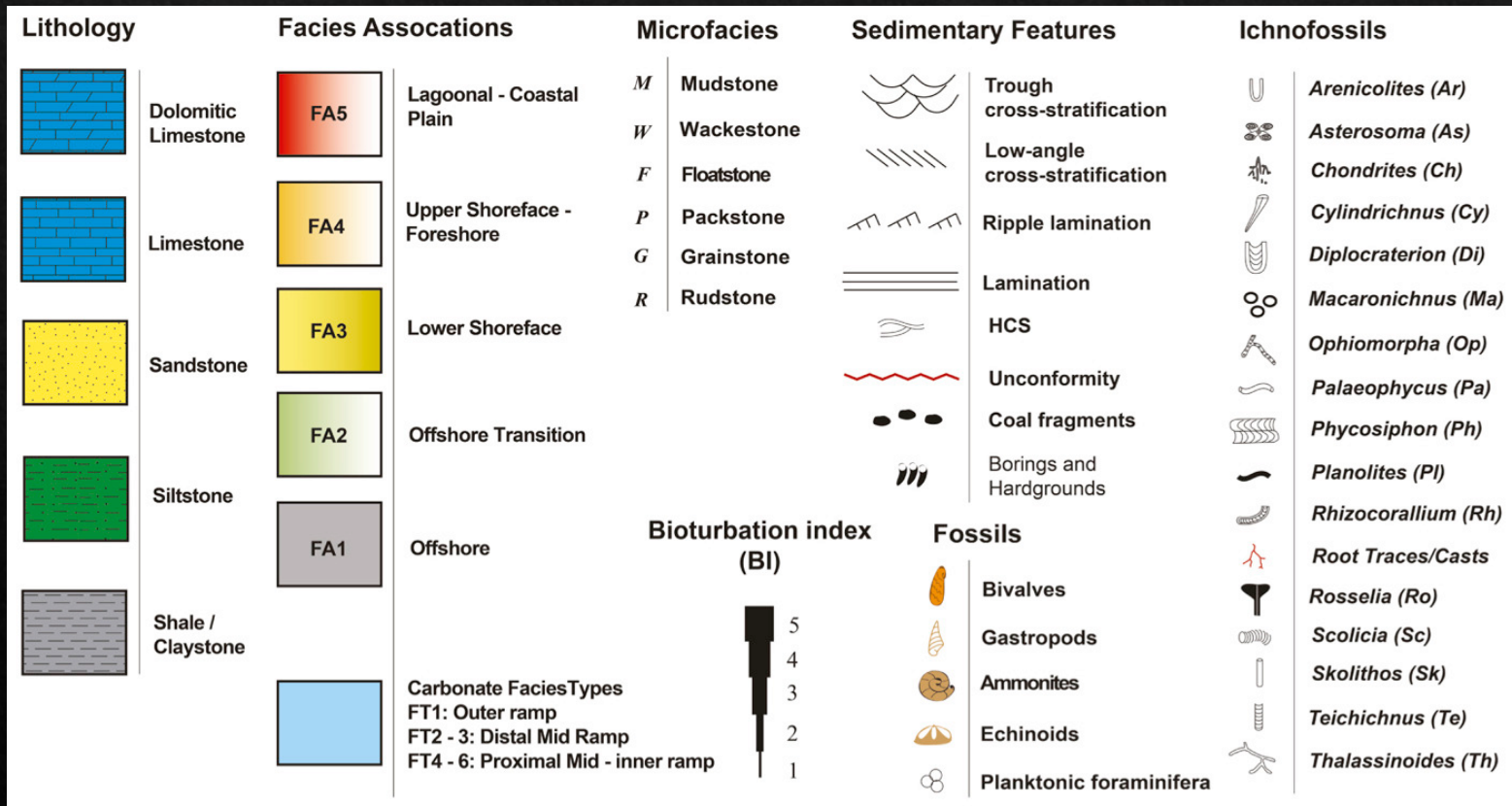
- ◇ Grain size coarsens upward
- ◇ Sea level shallows upward



Symbols

Symbols, intuitive.

Colors, personal preference.



To Correlate Stratigraphic Sections

- ◆ Start at the bottom, look for common rock type
- ◆ Draw lines from the top and bottom of the rock formation to the corresponding rock stratum of the other section
- ◆ Continue correlating to the top of the section
- ◆ Ideally, the vertical succession of rocks should match the lateral succession across sections
- ◆ However, this does not always happen. Remember that unconformities and faults can disrupt Walther's Law

Example

