Sedimentary Archives

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Clues in Sediment Type

- Clastic (Terrigenous) Sediments
- Chemical/ Biochemical Sediments
- Organic Sediments

Clues in Sediment Color

Clues in Grain Size/Sediment Type

Clues in Sediment Shape
Clues in Sediment Sorting

Clues in Different Flavors of Sandstone

Clues in Sedimentary Structures

Clues in Fossils

Putting it all Together: Facies Analysis!

Examples of Deposition Environments
Example 1: Fluvial Environment

Example 2: Delta Environment

Example 3: Reef Environment

Example 4: Marginal Marine Environment

Putting it all Together: Lithofacies Map

Facies Analysis and Paleogeographic Maps
Paleogeographic Maps

How do we see rocks below the surface?
Geologic Mapping

How do we see rocks below the surface?
Geophysics