

Can marine sediments "tell us" where they came from and how were they transported?

Sediment = particles that accumulate in a loose unconsolidated form

Sources:

- weathering and erosion
- activity of living organisms
- volcanic eruptions
- chemical processes within the water
- space

Transportation:

- rivers
- wind
- direct precipitation

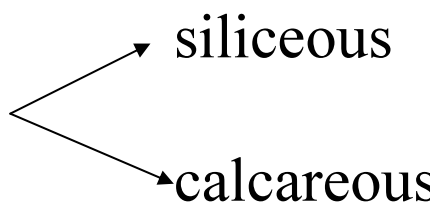
Classification of sediments

A. by particle size

- boulder	- sand
- cobble	- silt
- pebble	- clay
- granule	

well sorted ←————→ poorly sorted

B. by source

- terrigenous
- biogenous 
 - siliceous
 - calcareous
- hydrogenous
- cosmogenous

DISTRIBUTION of marine sediments

- * neritic (of the coast)
- * pelagic (of the sea)

The sediments of Continental Margins

- mostly terrigenous
- some biogeneous

The sediments of Deep-Ocean Basins

- turbidites
- clays
- oozes (siliceous & calcareous)
- hydrogenous sediments (manganese nodule)

Evaporites

- salts - sodium chloride (table salt)
- calcium carbonate
- gypsum