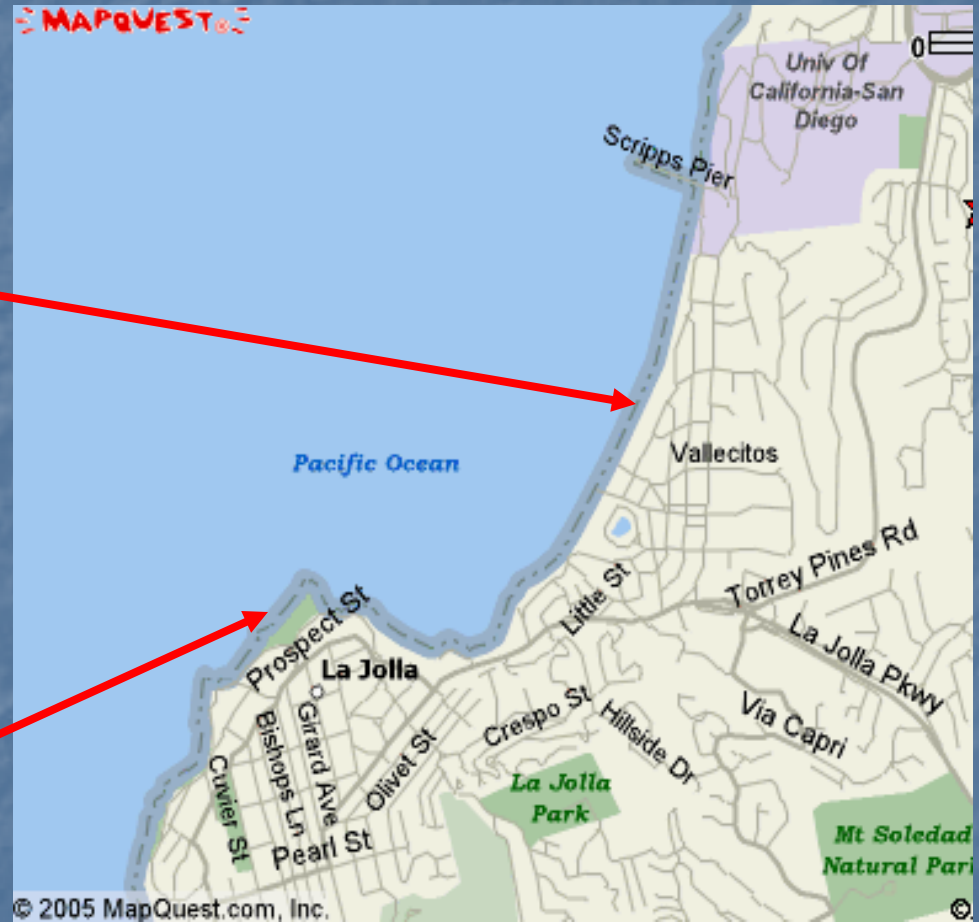


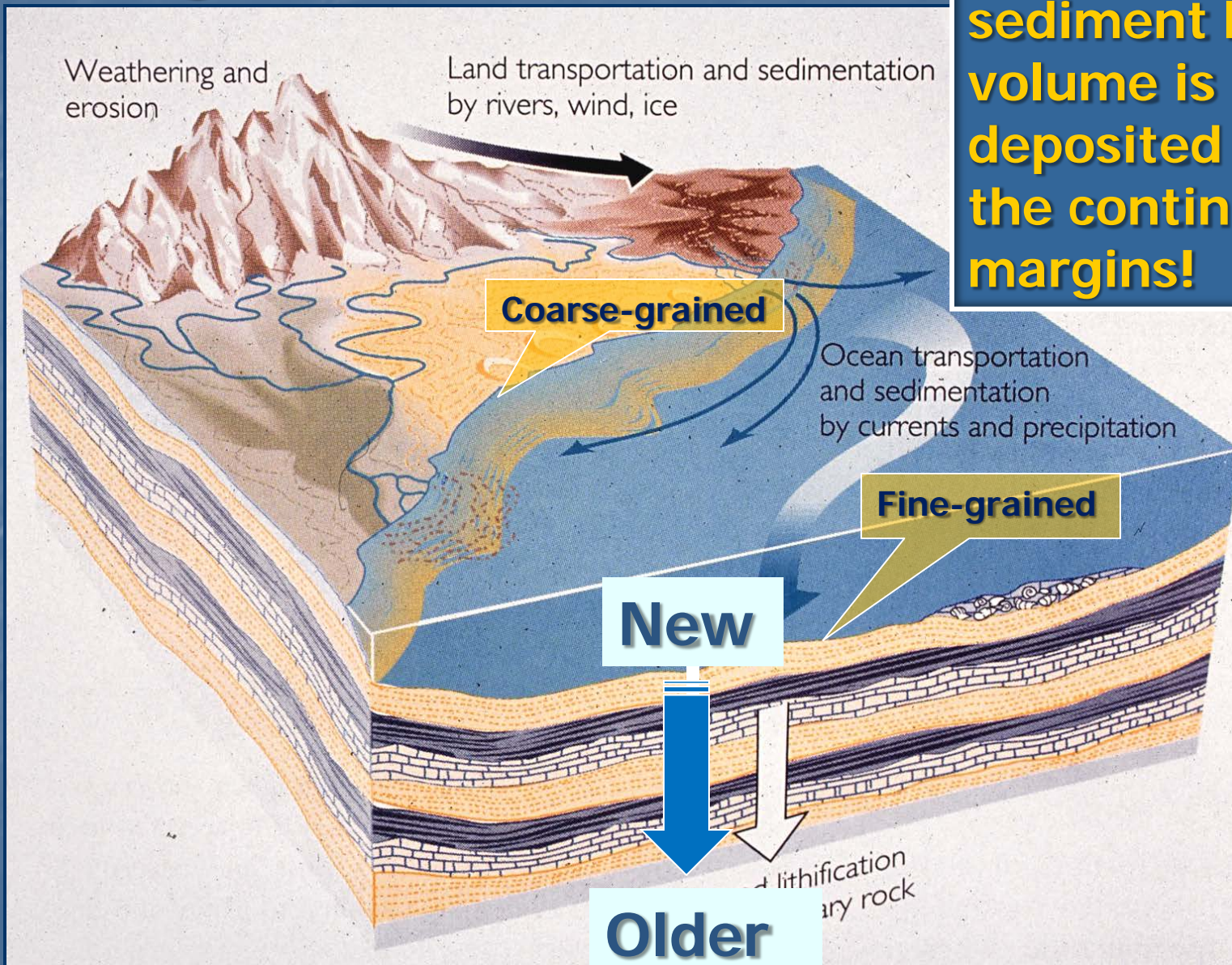
Q: Which beach has higher wave energy?



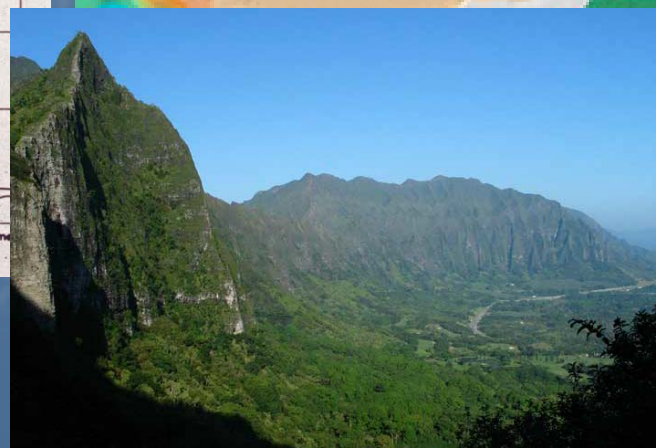
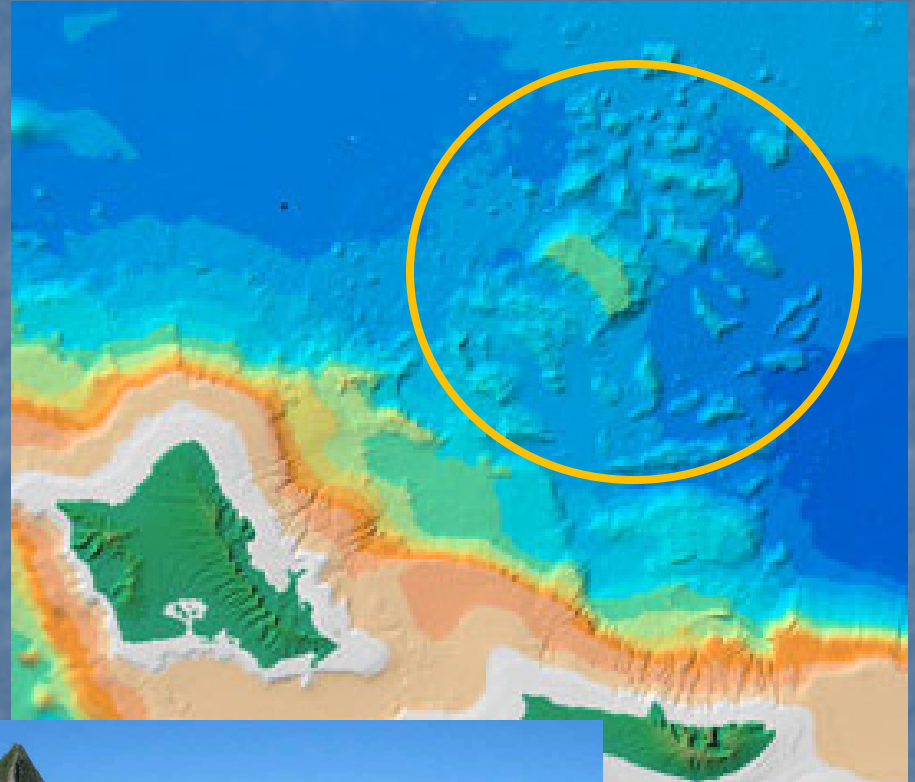
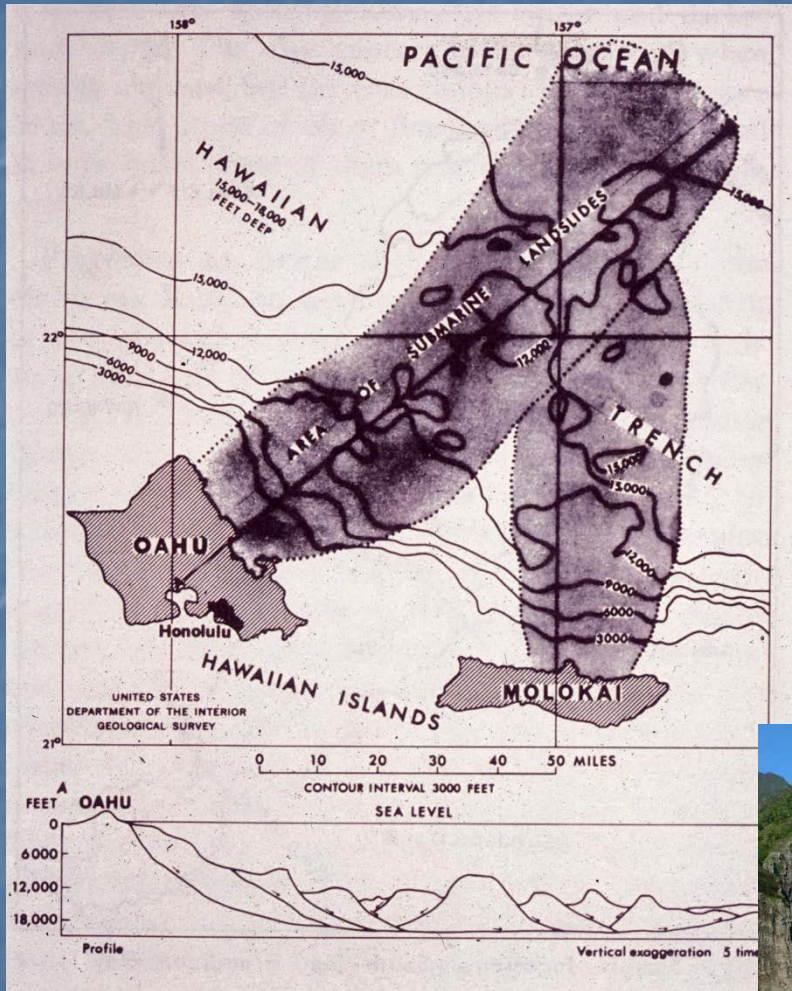
Larger size = higher energy!

Lithogenous Sediment

Most lithogenous sediment by volume is deposited along the continental margins!



Lithogenous Sediment... Landslides



Biogenous Sediment

- Organisms secrete their shells from dissolved components in seawater... "Productivity"
 - Sunlight + Nutrients = Productivity

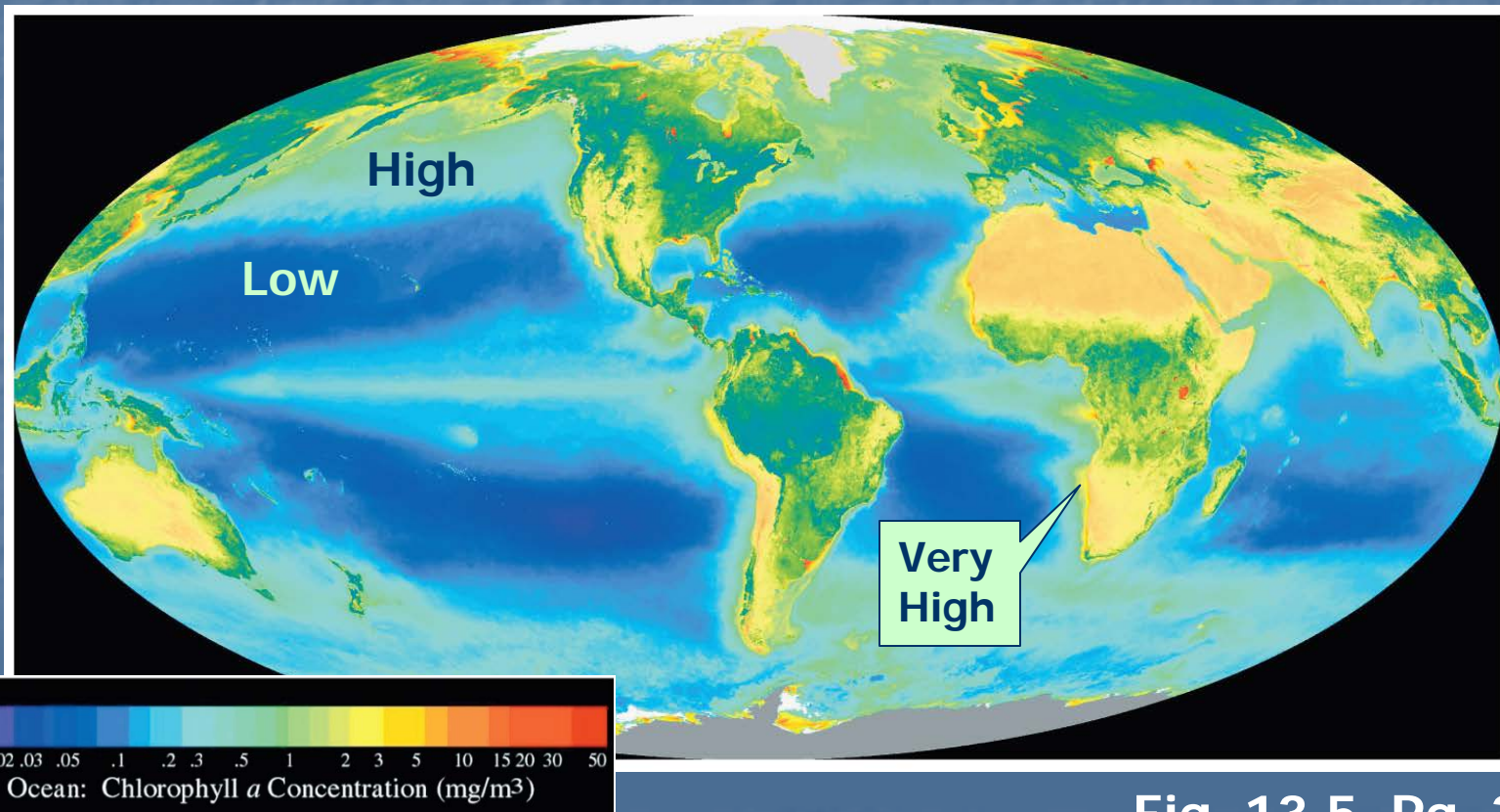
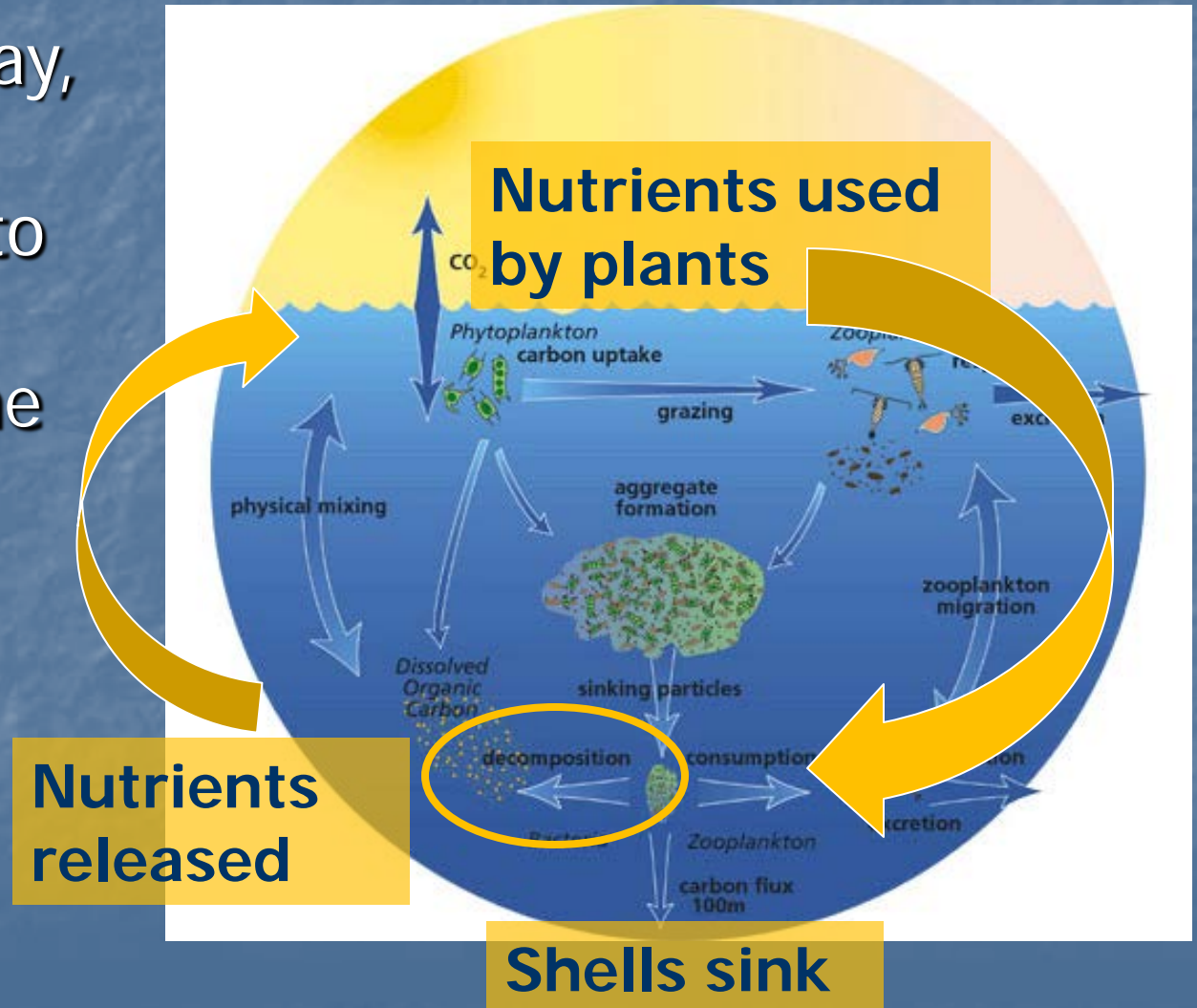


Fig. 13.5, Pg. 377

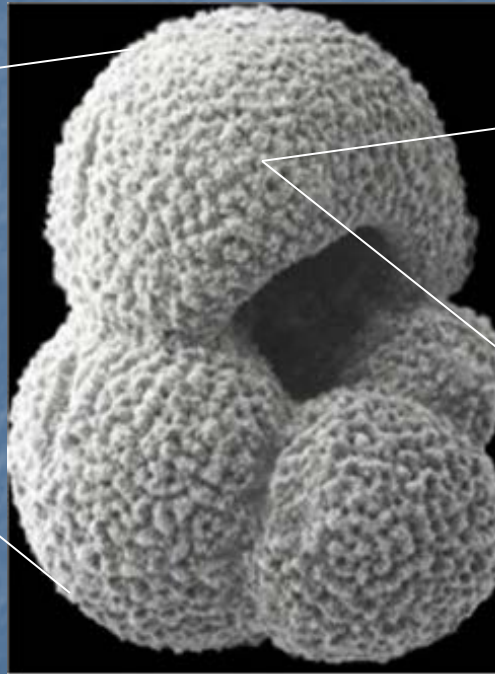
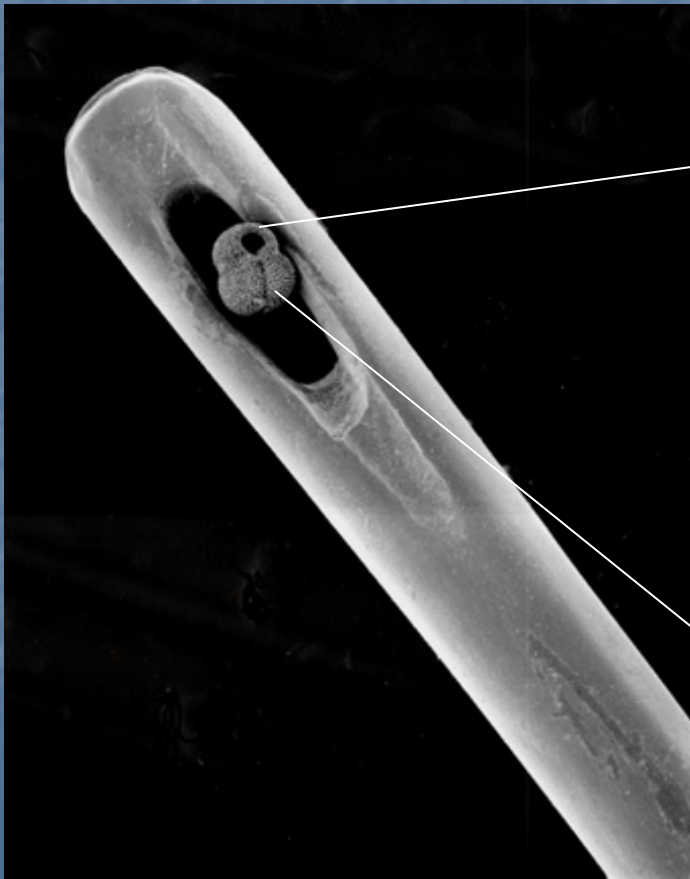
Biogenous Sediment

- Shells rain down onto the ocean floor...
- Tissues decay, and release nutrients into the deep waters of the ocean

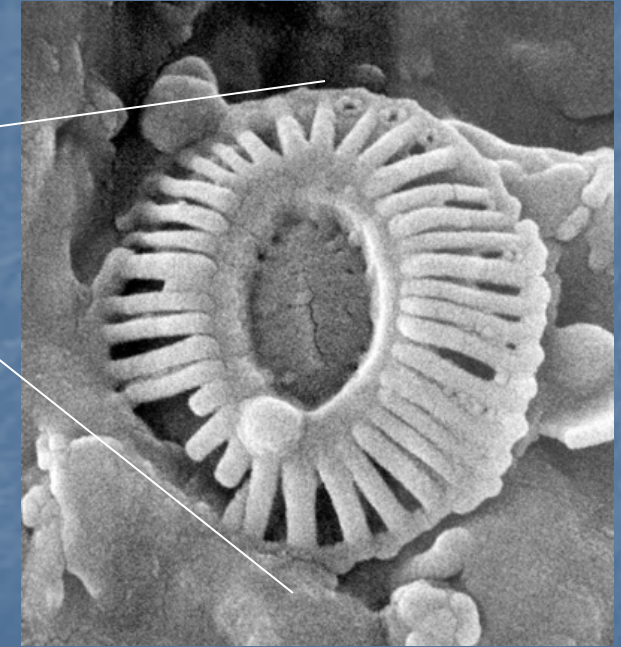


Biogenous Sediment: Calcareous

- The size of a foram and coccolith relative to a sewing needle



Foram

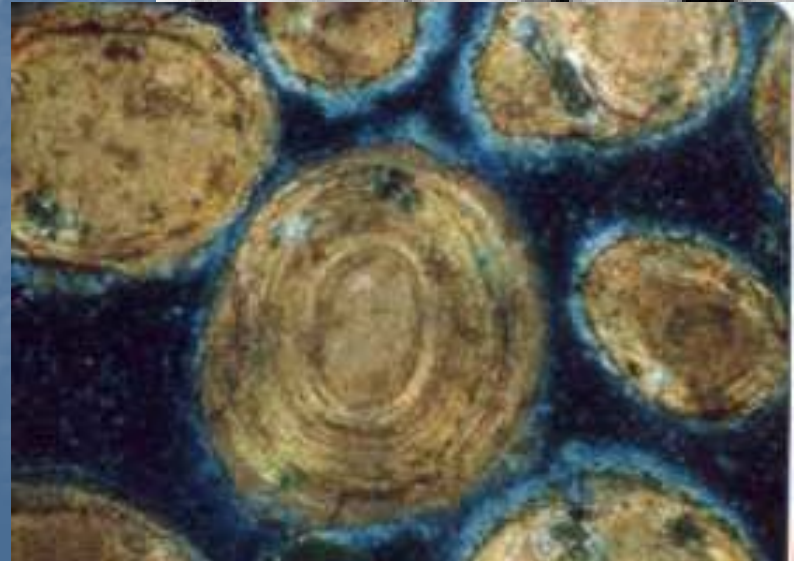
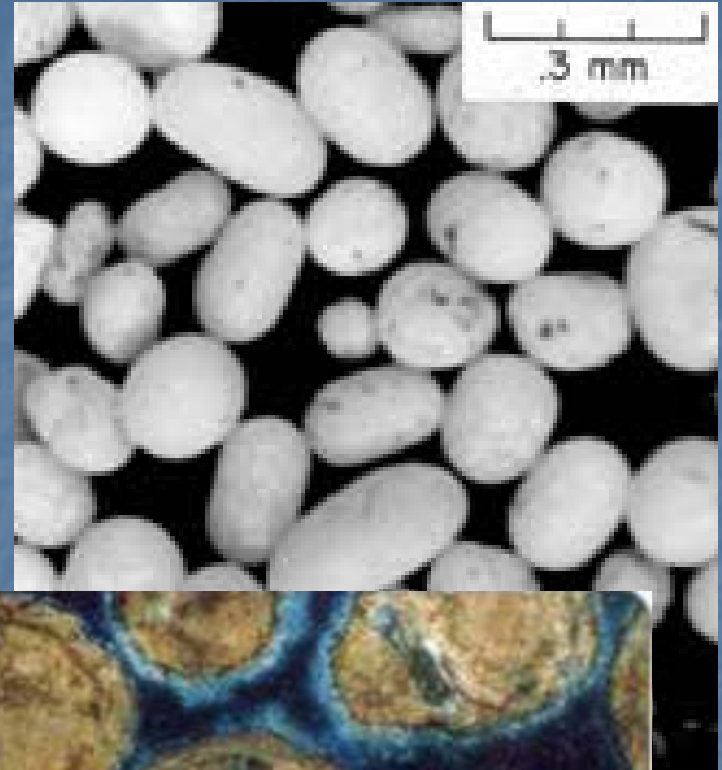


Coccolith

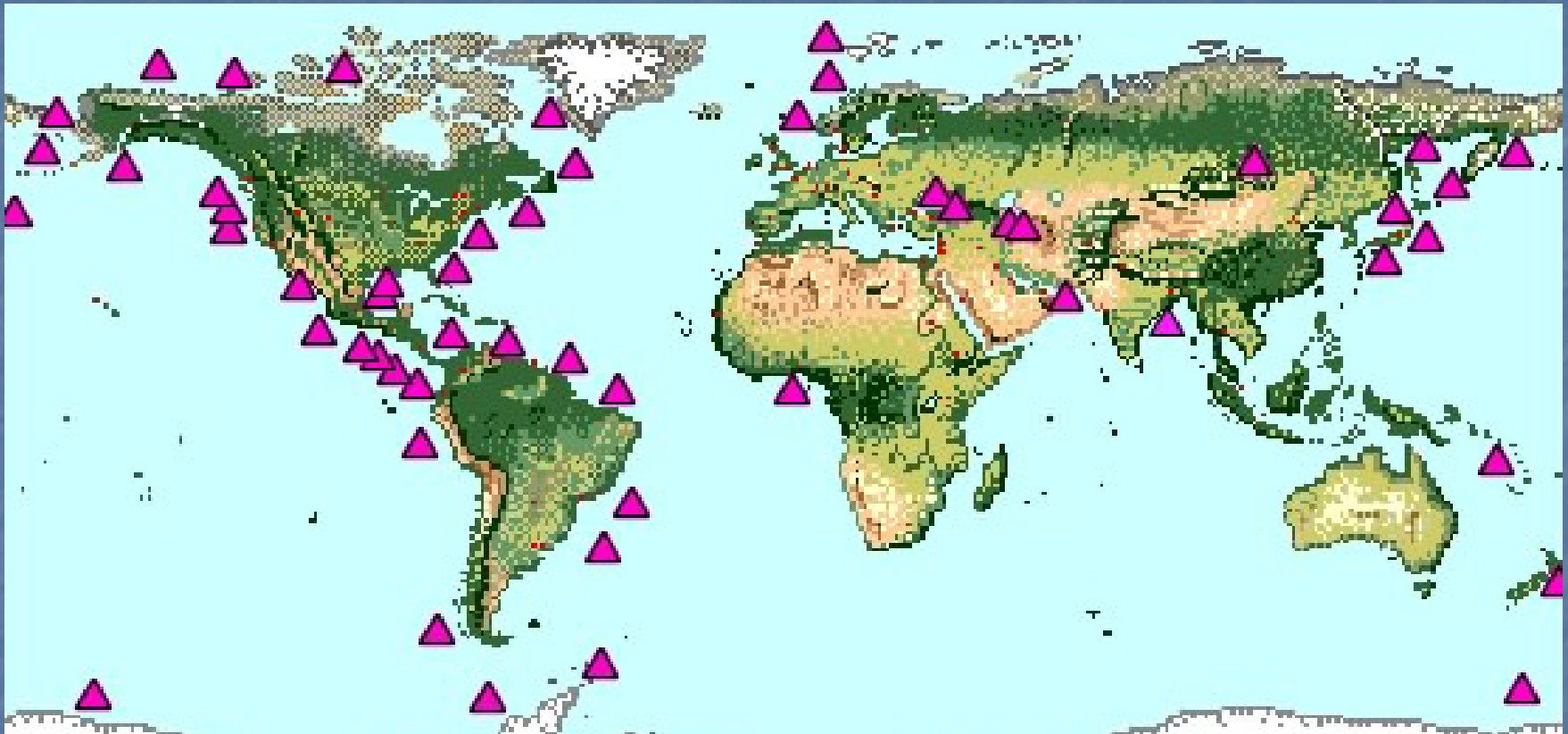
Hydrogenous sediments

Carbonates

- Oolites
- Wave-washed tropical shoals
- Onion structure



Distribution of Methane Hydrates



- Within sediments on continental margins
- Stable below 300m water depth due to cold temperatures and high pressures.