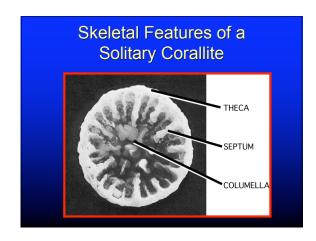
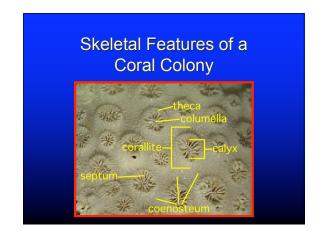


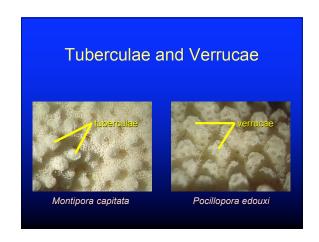
Skeletal Features of Scleractinian Coral corallum (pl. coralla) the entire coral skeleton corallite skeleton produced by a single polyp calyx (pl. calices) concave depression that houses the polyp theca corallite wall septum (pl. septa) skeletal plates that radiate into the calyx from the wall (sometimes called scleroseptum) coenosteum skeletal material between walls of adjacent corallites

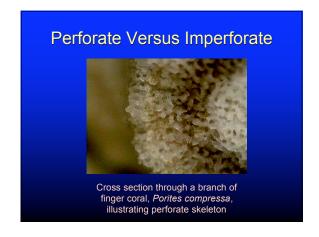


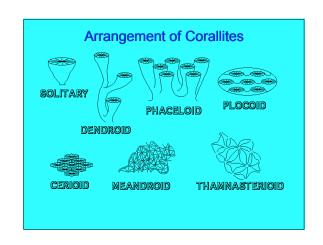


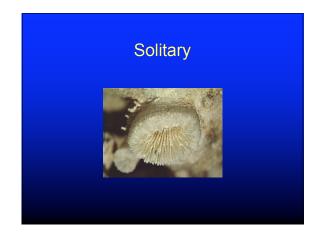
Skeletal Features of Scleractinian Coral

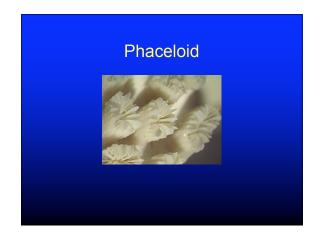
- costa (pl. costae)
 - extensions of the septa outside the wall of the corallite
- columella
 - central structure of the calyx formed by fusion of the lower elements of the septa
- tuberculae
- larger-than-polyp bumps occurring in the coenosteum
- verrucae
- larger-than-polyp bumps composed of several corallites
- papillae
 - smaller-than-polyp, nipple-like bumps on the surface of the skeleton



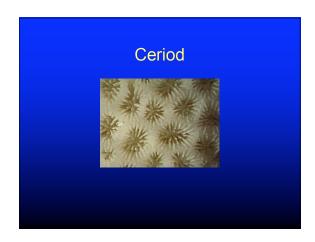






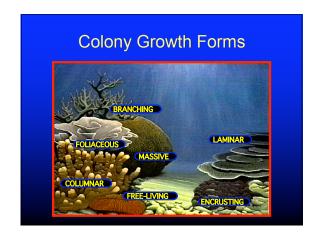


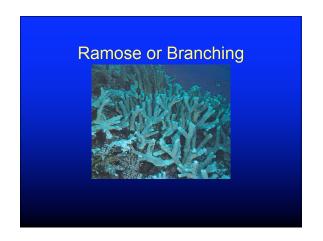






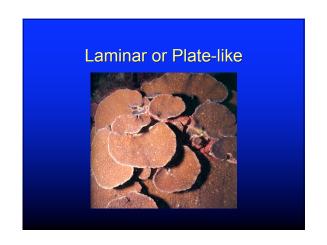


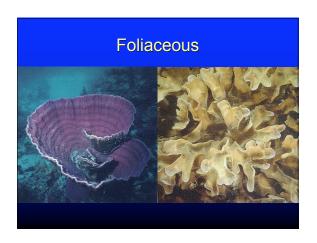




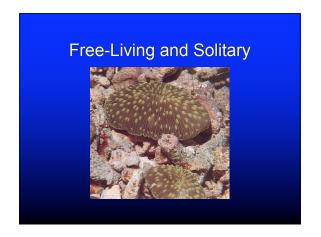










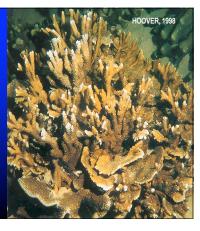


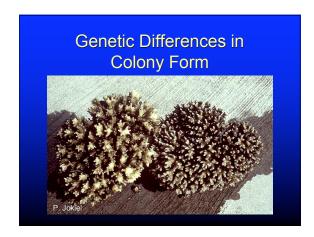
Factors Influencing Coral Colony Morphology

- Water Motion
- Light
- Biological Factors
 - Genetics
 - Coral Symbionts



Effects of Light Intensity on Colony Growth Form









Growth Rings in Corals



Figure 9.8. Daily growth lines of a Devonian coral. By analogy with modern corals these may be grouped statistically into monthly and annual divisions that correspond to oscillations in the tides. (American Museum of Natural History.)

Coral Growth Rates

- Depends upon environmental conditions.
- Massive corals slow growing (0.5-1.0 cm per year).
- Branching corals may grow more quickly (10-20 cm per year).
- Distinguish between individual coral colony growth and the growth of the reef as a whole.