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Fossil gastropod shells and coral ranging in age from Pleistocene to Eocene. The fossils are so well preserved that the biogenic aragonite (CaCO3) is not significantly recrystallized to the stable polymorph calcite. Uranium contents of these shells can exceed 10 parts per million. Absolute ages of such shells can be determined from the accumulation of helium-4, or from the relation of thorium-230 activity to transient equilibrium with uranium-234. See page 312. [Brookhaven National Laboratory]