

and the upper, sloping beds accumulated during the Sangamon interglacial stage. Another possibility is that the upper beds represent a beach of the Pamlico sea. This is the interpretation advanced by Cooke (1939c, p. 53) in his "Scenery of Florida." The beds are at the proper altitude for a Pamlico beach, and the broken shells may have been derived from the older bed.

A cut on the new, direct road to Bunnell half a mile north-northwest of this place exposes 14 or 15 feet of similar coquina.

*Indian River County*—A shell bed composed of common existing species of mollusks was cut into by a drainage canal along Van Valkenburg Creek one mile north of Vero Beach. The bed, which was referred to the Anastasia by Chamberlin (1917, p. 26), is unconformably overlain by the Melbourne bone bed, a facies of the Pamlico sand.

*Levy County*—Large blocks of hard limestone have been dug from ditches about a mile and a half north of Gunntown, a station on the Atlantic Coast Line Railroad south of Otter Creek. The rock is gray to yellow, sandy, and somewhat resembles the hard parts of the Anastasia formation. It contains myriads of small miliolid foraminifers, *Chione cancellata*, and many fragments of flat echinoids. A few other fossils are preserved chiefly as internal molds. "Miliolite limestone" was also seen along the Chiefland road 10 miles north of Cedar Keys. Hard white "miliolite limestone" comes to the surface on the edge of Gulf Hammock three-quarters of a mile southwest of Ellzey and is said to occur throughout the hammock. This may represent the Avon Park limestone.

*Martin County*—Pleistocene shell marl is exposed in the banks of the St. Lucie Canal almost continuously from the lower locks to a point within 2 miles of Port Myaca, on Lake Okeechobee, but the underlying Caloosahatchee formation was cut into much of the way. Barren Pamlico sand overlies the Anastasia formation.

Jupiter Island is underlain by the Anastasia formation, which varies in composition and texture from coarse sandstone composed of consolidated "coral sand" (macerated shells) to a compact mass of only slightly worn shells. At Blowing Rocks, on the coast north of Jupiter Inlet, the Anas-