

as the Wicomico shore generally lay far from the Sunderland shore, the Sunderland sediments under the Wicomico formation are probably very thin and may be wanting altogether.

*Paleogeography*—The generalized location of the shore during Sunderland time is shown by a solid line in figure 43. It extended eastward through western Florida, where it was broken by an embayment up the valley of the Apalachicola and apparently also up the other large streams. It curved northeastward into Georgia, far back from the present Atlantic coast. Most of Florida was submerged. There were several rather small islands east of Tampa and others in the northeastern part of the State. From the largest of these, which lay in Putnam County along the eastern edge of a shoal, a long, narrow bar (now Trail Ridge) extended northward and partly enclosed a shallow sound in the area now partly occupied by Okefenokee Swamp. The water within the sound was rarely deeper than 40 feet, whereas outside of the bar it deepened rapidly to 100 feet or more. These relations are shown on the topographic maps of the Lawtey and McClenny quadrangles.

*Fauna*—No fossils have been reported from the Sunderland formation itself, though a member of the Fort Thompson formation, which is suspected to be partly equivalent, contains marine shells. Calcareous shells in porous sand would soon dissolve in rain water if not protected by an impervious stratum above them.

*Utilization*—The Sunderland formation may contain workable beds of sand and possibly brick clay.

#### LOCAL DETAILS

*Escambia County*—The flat-topped divides between the streams draining the south half of the Muscogee quadrangle lie within the limits (170-100 feet) of the Sunderland terrace, and they are probably underlain by the Sunderland formation. One such flat area extends from Cantonment to Gonzalez. Another, larger area is crossed by U.S. Highway 29 for several miles both north and south of Ensley.

*Okaloosa County*—The Holt quadrangle shows traces of the Sunderland shore near the 170-foot contour line, which