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2.1, 1 plate.

Landward of the coast of Lake Michigan are the remnants of a series of arcuate sand ridges with intervening swales. The sand ridges are the position of previous shorelines, and mark the successive march of Indiana's coast into Lake Michigan. Individual "beach ridges" are formed from a fluctuation in the level of the lake (see Beach –Ridge Development diagrams); internally, their sedimentary deposits record the position and elevation of ancestral Lake Michigan (see Lake-Level Fluctuations graph). The study of the history of development of these landforms provides information on shoreline behaviour through time and the physical limits and timing of lake-level change. Unfortunately, little remains today of the beach ridges due to extensive urbanization of the area. The map below was created by tracing beach ridges from a series of aerial photographs of northern Lake and Porter Counties taken in 1938.

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