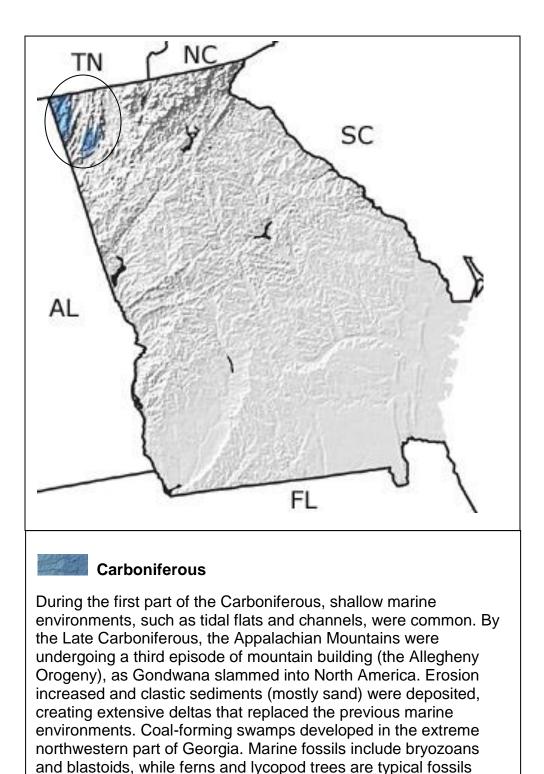
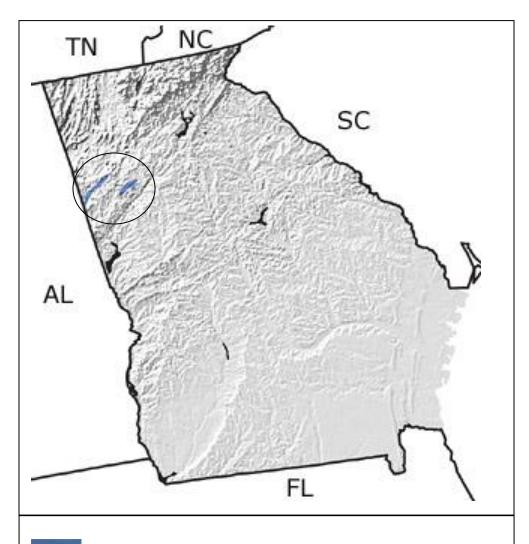


Georgia – Paleozoic Eras

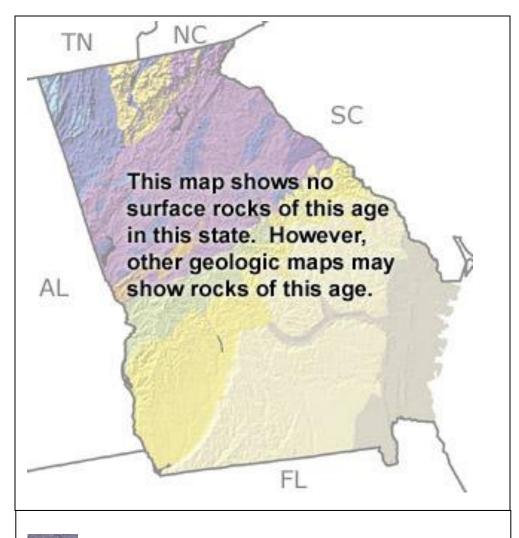


found in the coal deposits.



Devonian

In the Devonian, a broad and relatively deep marine environment spread into the northern part of Georgia. Reducing circulation caused oxygen-poor conditions and the deposition of muds rich in organic material. Not much marine life was able to live in these bottom waters, although some burrows indicate sporadic colonization of the sea floor. The Appalachians were undergoing a second episode of mountain building (the Acadian Orogeny), which was caused by the closing of the lapetus Ocean. In the north-central part of Georgia, large bodies of igneous material solidified below the surface as a result of this orogeny. The most famous of these structures is Stone Mountain, a large granitic intrusion now exposed near Atlanta. This map indicates the presence of Devonian rocks in northwestern Georgia; however, no Devonian fossils are known from the state.

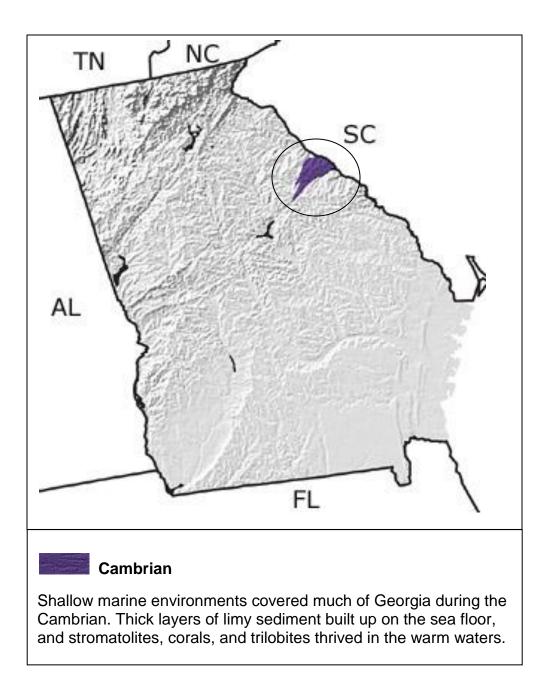


Silurian

During the Silurian, large amounts of sand and mud eroding from the ancestral Appalachian Mountains were deposited in shallow marine environments in the northern part of the state. These environments were frequently hit by tropical storms that deposited thick beds of sand, often burying the marine life that lived on the sea floor. Marine communities of the Silurian included brachiopods, cephalopods, crinoids, and some burrowers, probably trilobites.

Ordovician

Early in the Ordovician, shallow marine environments covered much of Georgia. However, toward the end of the Ordovician, the ancient continent of Laurentia collided with an oceanic plate. This collision caused the first of three episodes of mountain building that contributed to the formation of the Appalachians. Large amounts of sediment eroding from the mountains were carried to the sea and formed extensive tidal flats. These were later replaced by estuaries as more fresh water flowed into the seaway. Typical Ordovician fossils include brachiopods and bivalves, as well as traces of burrows, most likely formed by trilobites.



Georgia – Precambrian Era

