

remains of beetles, dragon-flies, and other insects which had been blown or washed off the land. The waters were tenanted by a few brachiopods (*Rhynchonella concinna* and *Terebratula*), by lamellibranchs (*Gervillia acuta*, *Pholadomya acuticosta*, *Lima*, *Ostrea gregaria*, *Pecten*, *Astarte*, *Modiola*, *Trigonia*, etc.), by gasteropods (*Natica*, *Nerita*, *Patella*, *Trochus*, etc.), by a few ammonites (*A. gracilis*) and belemnites (*B. fusiformis*, *B. bessinus*), and by elasmobranch and ganoid fishes, of which about 50 species are known (*Ceratodus*, *Ganodus*, *Hybodus*, *Lepidotus*, *Pholidophorus*, *Pycnodus*, etc.). The reptiles comprise representatives of turtles, with species of *Plesiosaurus*, *Cetiosaurus*, *Teleosaurus*, *Megalosaurus*, and *Rhamphocephalus*. But the most important organic relics from this geological horizon are the marsupial mammalia already referred to.

The fauna of the Great Oolite proper is distinguished, among other characteristics, by the number and variety of its corals (including the genera *Isastræa*, *Cyathophora*, *Thamnastræa*). The echinoderms, which rank next to the ammonites in stratigraphical value, are well represented. Among the regular echinoids the most frequent forms are *Hemicidaris*, *Acrosalenia*, *Pseudodiadema*, and *Cidaris*. The irregular echinoids are represented by species of *Echinobrisus*, *Clypeus*, *Pygurus*, etc.; the asteroids by *Astropecten* and *Goniaster*; the crinoids by *Apiocrinus*, *Millericrinus*, and *Pentacrinus*. Polyzoa are abundant (*Diastopora*, *Heteropora*). The brachiopods are represented by species of *Terebratula*, *Rhynchonella*, *Waldheimia*, *Terebratella*, *Crania*, etc. Of the whole British Jurassic lamellibranchs, numbering about 100 genera and nearly 1400 species, more than half the genera, and about one-fifth of the species, are found in the Great Oolite. Specially conspicuous are the genera *Pecten*, *Lima*, *Ostrea*, *Avicula*, *Astarte*, *Modiola*, *Pholadomya*, *Trigonia*, *Cardium*, *Arca*, *Tancredia*. The characteristic gasteropods of the Great Oolite include *Actæonina*, *Nerinæa*, *Nerita*, *Purpuroidea*, *Brachytrema*, *Patella*. Species of ammonite peculiar to the Great Oolite are *Am. arbustigerus*, *A. discus* (passes to *Cornbrash*), *A. gracilis*, *A. micromphalus*, *A. morisea*, *A. subcontractus*, and *A. Waterhousei*. Characteristic likewise are *Nautilus Baberi*, *N. dispansus*, *N. subcontractus*, *Belemnites aripistillum*, and *B. bessinus*. Of the fishes, the genera most abundant in species are *Mesodon*, *Ganodus*, *Hybodus*, and *Strephodus*, with *Acrodus*, *Lepidotus*, *Pholidophorus*, etc. The reptilian remains include the crocodilians *Teleosaurus* and *Steneosaurus*, *Plesiosaurus*,