

problems directly connected with all his previous work. He believed the deeper sea would show forms of life akin to animals of earlier geological times, throwing new light on the relation between the fossil and the living world. In the letter above quoted, he even named the species he expected to find most prevalent in those greater depths: as, for instance, representatives of the older forms of Ganoids and Selachians; Cephalopods, resembling the more ancient chambered shells; Gasteropods, recalling the tertiary and cretaceous types; and Acephala, resembling those of the jurassic and cretaceous formations. He expected to find Crustaceans also, more nearly approaching the ancient Trilobites than those now living on the surface of the globe; and among Radiates he looked for the older forms of sea-urchins, star-fishes, and corals. Although the collections brought together on this cruise were rich and interesting, they gave but imperfect answers to these comprehensive questions. Owing to defects in the dredging apparatus, the hauls from the greatest depths were lost.

With reference to the glacial period he anticipated still more positive results. In the same letter the following passage occurs: