The Jurassic of Dakota, Wyoming, and Utah have afforded Ostrea stringilecula, Tancredia extensa, Camptonectes bellistriatus, and the Ammonite Quenstedioceras cordiforme. That of Idaho afforded White: Pentacrinus asteriscus, Ostrea stringilecula, species of Tancredia, Trigonia, Myacites, etc. In the Uintah Mountains, where the rocks are shales and sandstones with limestone, occur Pentacrinus asteriscus, Belemnites densus, Trigonia, Gryphæa calceola, Myophoria lineata, Camptonectes bellistriatus, Eumicrotis curta, etc.; and in the Wasatch have been found Cucullæa Haguei, Myophoria lineata, Myacites subcompressa, Volsella scalpra (King's Report on the 40th Parallel).

In the West Humboldt region, west Nevada, occur Belemnites Nevadensis, species of Montlivaltia, etc.; and probably from this region came the Ammonite, Arnioceras Humboldti; in Esmeralda County, Nev., Vermiceras Crossmani, Arnioceras Nevadense; in Inyo County, Cal., Arnioceras Woodhulli.

Jurassic beds at Taylorville, Cal., on the Sierra Nevada, afforded Hyatt, in the lower beds referred to the Lias, besides the most of the above genera, species of Pinna, Entolium, Goniomya, Pleuromya; also an Echinoderm of the genus Cidaris and a Crustacean of the genus Glyphæa. The Middle Oölytic beds contain, among the species, Ammonites of the genera Grammoceras and Sphæroceras; and the Upper Oölyte, species of the genus Rhacophyllites, with 3 species of Trigonia in the lower bed referred to the Callovian division of the Oölyte, and several species of Coral of the genus Stylina referred to the Corallian, besides the Camptonectes bellistriatus Mk., and the Rhacophyllites of the Upper Oölyte. Hyatt speaks of the contrast of the species with those of the summit region of the Black Hills, southeastern Wyoming, whose Ammonites are of the Cardioceras family and whose beds are Callovian or Oxfordian.

The Mariposa beds extending to near Colfax, Placer County, Cal., contain, according to Hyatt, Cardioceras dubium of Oxfordian age, and striated Aucellae (Figs. 1203-1205) in great numbers, Perisphinctes of the same types as those found in the Upper Jura, Upper Oxfordian, and Volgian of Russia, namely, Perisphinctes virgulatiformis, P. Colfaxi, P. Mühlbachi, and Belemnites Pacificus. None of these species pass into the Knoxville beds.

The Queen Charlotte beds have afforded Whiteaves (Mesozoic Foss., Can. Survey, 1884) species of the Ammonite group of the genera Lytoceras, Haploceras, Ancyloceras (A. Remondi of Gabb), Hamites, and also species of Trigonia, Inoceramus, Aucella, Amusium, Yoldia, etc.; also Belemnites densus.

Among the Arctic fossils of this period, there are, at Prince Patrick Island, Ammonites M'Clintocki, a species near A. concavus Sow., of the Lower Oölyte; and at Cook's Inlet, Ammonites Wosnessenski, A. biplex Sow. (?), Belemnites paxillosus (B. niger List?), and Pleuromya unioides Br. (Unio liassinus Schubler). A. biplex also is reported to occur in the Chilean Andes, in latitude 34° S., as well as in Britain and Europe.

- 1. Fishes. Fishes are rare fossils. The teeth of Ceratodus Güntheri of Marsh have been described from the Upper Jurassic (Atlantosaurus beds) of Colorado.
- 2. Reptiles. The Upper Jurassic formation of Colorado and Wyoming has afforded remains of a few Amphibians, many great and small Reptiles, and of some Mammals. The specimens are thus far from the "Baptanodon and Atlantosaurus beds" of Colorado and Wyoming. They include Sea-Saurians related to the Ichthyosaurs (page 784), and also Dinosaurs, Crocodilians, Turtles, and Pterosaurs or Flying Reptiles.

Enaliosaurians (Ichthyopterygians). — These Sea-Saurians are the most fish-like of Reptiles. This appears (1) in their biconcave vertebræ (Fig.