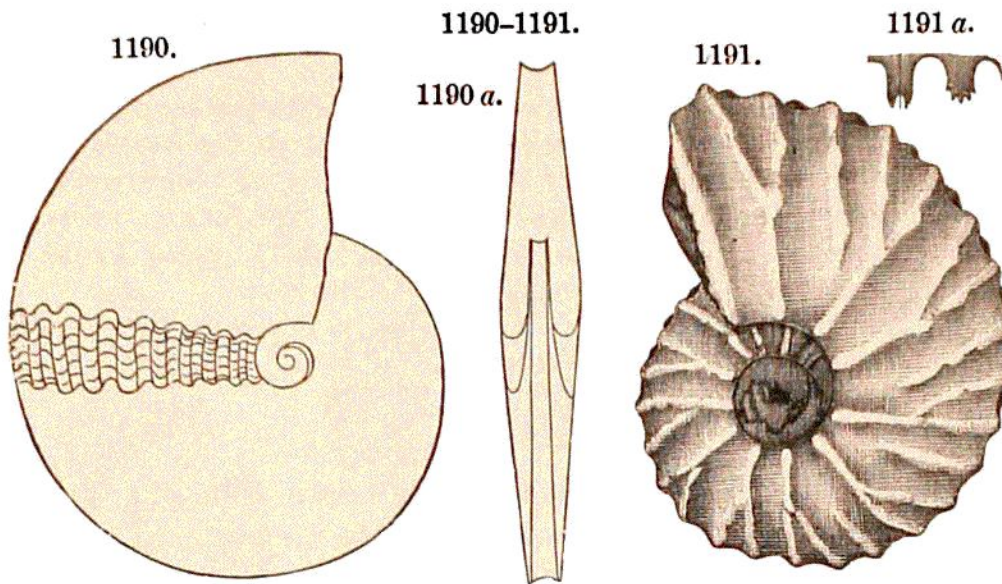


Cockroach group (Blattariæ); and out of the 17 species, 11 have the wings like those of the Paleozoic species as to transparency and nervures, and belong partly to described genera, while six are Mesozoic in the character of



AMMONITE FAMILY. — Fig. 1190, *Sageceras Haidingeri*; 1190 a, same in profile; 1191, *Trachyceras Whitneyi*; 1191 a, same, showing form of pockets. Gabb.

the nervures, and in having the fore wings more or less opaque, approaching thus the modern kinds. This commingling of Paleozoic and Mesozoic types leads Scudder to the conclusion that the beds are Triassic, although referred by Lesquereux, on the ground of some imperfectly preserved fossil leaves, to the Permian.

The Trias of Idaho, which Hyatt considers the lowest yet found in this country, contains, according to White (1879), *Terebratula augusta*, *T. semisimplex*, *Aviculopecten Idahoensis* Meek, *A. Pealsi*, *A. altus*, *Eumicrotis curta* Mk. & H., *Arcestes cirratus* (?), *Meekoceras aplanatum*, and others.

In western Nevada, West Humboldt region (King), *Orthoceras Blakei*, *Sageceras Haidingeri*, *Trachyceras Whitneyi*, *Arcestes Nevadensis* Mk., *A. Gabbii*, *Myophoria alta*, *Monotis subcircularis*, *Halobia dubia*, *Avicula Homfrayi*, *Halobia (Daonella) Lommeli*, *Pecten deformis*, *Pentacrinus asteriscus* (?), etc. Hyatt reports from Desatoya Mountains, New Pass, and Walker's Lake of Nevada, besides some of the above forms, *Gymnotoceras rotelliforme*, *Trachyceras Whitneyi*.

In the Taylorville region, Plumas County, Cal., occur, as identified by Hyatt (1829) from the successive beds: (a, or lowest) slates, the *Monotis* bed, *Monotis subcircularis* Gabb (which he says may be *M. salinaria* Schloth.), *Pecten deformis* Gabb, and at the top, *Daonella tenuistriata* Hyatt; (b) a limestone, the *Rhabdoceras* bed, with, besides the preceding, species of *Nucula*, *Lima*, *Modiola*, *Myacites*, *Rhynchonella*, and Ammonites of the genera *Ammonites* and *Arcestes*, *Rhabdoceras Russelli* (a strait *Ceratite*), with *Belemnites* of the genus *Atractites*; (c) the *Halobia* bed, with species of *Halobia*, *Arcestes*, *Tropites*; (d) the Hosselkus limestone, with the same Ammonites, and others of the genera *Ceratites*, *Badiotites*, and *Juvavites*. The upper subdivision is referred by Hyatt to the Lower Carnic of the Alpine (Upper) Trias, and the others to the Upper Noric.

From British Columbia have been reported by Whiteaves, who has described several of the species as new from Queen Charlotte Islands, the Ammonites *Arcestes Gabbii*,