

are referred to the Middle Silurian. It is a portion of the frond of a *Neuropteris*.

ANIMALS. — The *genera* of Corals, Crinoids, Brachiopods, Trilobites, and of other classes are to a large extent the same as in America. A Crinoid of an unusual form is represented in Fig. 828, a *Crotalocrinus*; Corals, in Figs. 826, 827; a common *Pentamerus*, in Fig. 829.

Trilobites are common, as in the American rocks. Some of the species are represented in Figs. 832–841. Figs. 832, 835, and 838 are of species from the Wenlock; Figs. 833, 834, 836, 837, 839, and 840 range below, and all but 840 above, the Wenlock.

Fig. 831, from Salter, is that of a large Limuloid, of the genus *Pterygotus*, from the Wenlock beds. It shows well the chelate termination of the antennæ, but it is imperfect in wanting the four pairs of slender legs which

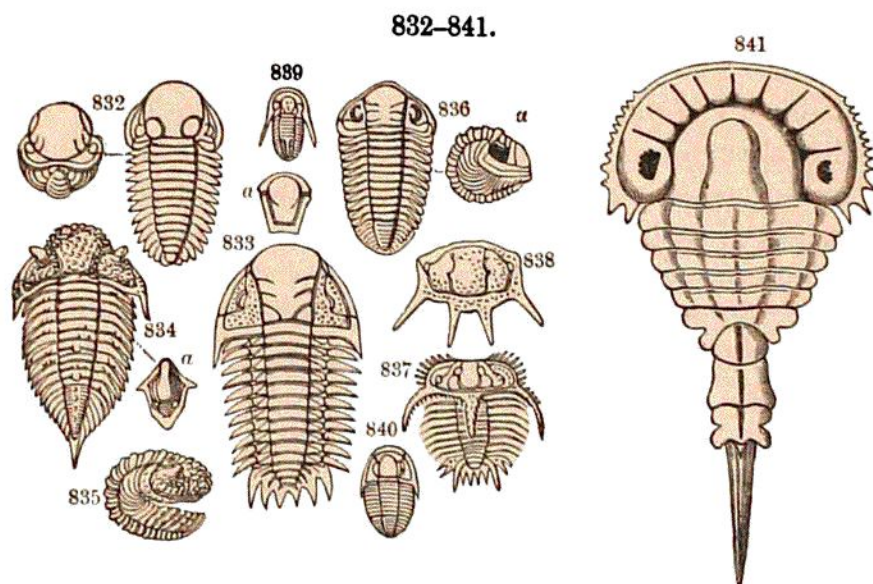


Fig. 832, *Sphærexochus mirus*; 833, *a*, *Cheirurus bimucronatus*; 834, *a*, *Encrinurus punctatus*; 835, *E. variolaris*; 836, *a*, *Phacops Downingii*; 837, *Aeldaspis Brightii*; 838, *A. Barrandii*; 839, *Cyphaspis megalops*; 840, *Proetus latifrons*; 841, *Hemiaspis limuloides*. Figs. 832 to 840, after Murchison; 841, after Woodward.

are situated between it and the large posterior pair (see page 623). The jaws in the figure, one of which is separately shown in Fig. 831 *a*, are the basal portions of the posterior legs.

Fig. 841 represents the *Hemiaspis limuloides* of Woodward, a form intermediate between a modern *Limulus* and the Eurypterids; the genus has species in both the Wenlock and Ludlow beds.

A *Ceratiocaris* of the Ludlow group is shown in Fig. 842. Fig. 845, a spine (referred to a genus of Sharks, *Onchus*), is supposed to be from a *Ceratiocaris*.

The first of Amphipod Crustaceans, *Necrogammarus Salweyi*, is reported from the Ludlow.

A Scorpion has been found in the Upper Ludlow beds of Lesmahago in Lanarkshire, Scotland, and in beds of nearly the same age in Gothland, Sweden; the latter is named the *Palæophonus nuncius* by Torell and Lind-