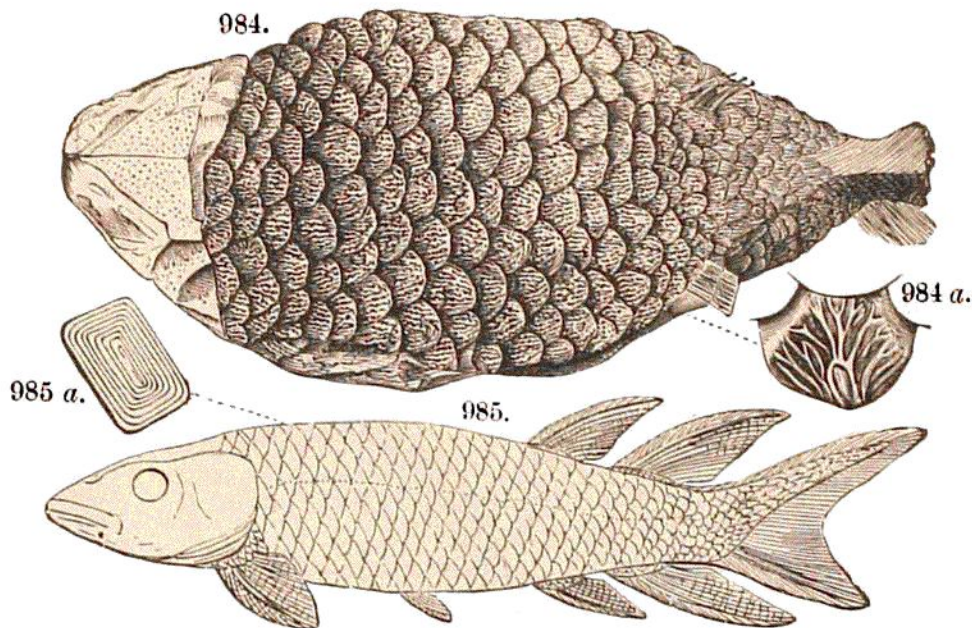


through. Two species of Myriapods have been described from the lower Old Red sandstone of Forfarshire, Scotland, *Kampecaris Forfurensis* Page, and *Archidesmus MacNicolii* Peach.

The Fishes of the Old Red sandstone have come mostly from bituminous flags in northern Scotland and North Wales, and include species of the Placoderm genera *Cephalaspis* (Fig. 980), *Pteraspis*, *Cyathaspis*, *Auchenaspis*, *Holaspis*; *Asterolepis*, *Pterichthys* (Figs. 982, 983), *Bothriolepis*, *Coccosteus* (Fig. 981); also the Dipnoan genera, *Dipterus*, *Phaneropleuron*; and the true Ganoids, *Holoptychius*, *Glyptolepis*, *Dendrodus*, *Cheiracanthus*. The Cephalaspids are absent from the Upper Devonian of Scotland.

984-985.



GANOID. — Fig. 984, *Holoptychius* ($\times \frac{1}{2}$); 984 a, a scale. DIPNOAN. — 985, *Dipterus macrolepidotus* ($\times \frac{1}{2}$); 985 a, a scale.

The Devon beds have an estimated thickness of 10,000' to 12,000'. They afford a large variety of Corals, Brachiopods, and other species, a number of them related to those of the American Devonian.¹ The Lower, Middle, and Upper divisions are: (1) the LOWER or LYNTON group of sandy slates and grits, affording *Actinocrinus tenuistriatus*, *Favosites cervicornis*, *Orthis arcuata*, *O. granulosa*, *Spirifer canaliferus*, *S. hystericus*, *S. levicostatus*, *Streptorhynchus umbraculum*, *Chonetes Hardrensis*; (2) the MIDDLE or ILFRACOMBE group of slate and grits, with beds of limestone, containing several species of Crinoids; many Corals, including *Heliophyllum Halli*, *Cyathophyllum cæspitosum*, species of *Favosites*, *Acerularia*, etc.; *Stromatopora* of several species; *Atrypa reticularis*, *A. lævis*, *A. aspera*, *Rhynchonella cuboides*, *Merista plebeia*, *Orthis striatula*, *Spirifer curvatus*, *S. disjunctus*, *Stringocephalus Burtini*, *Streptorhynchus crenistria*, *Strophomena rhomboidalis*, *Platyceras vetustum*, species of *Euomphalus*, *Loxonema*, *Murchisonia*; *Goniatites*, *Orthoceras*, *Cyrtoceras*; *Tentaculites scalaris*; *Phacops latifrons*, *P. granulata*, and also species of *Bronteus*, *Harpes* and *Ceraurus*; (3) UPPER, including Pickwell Down and Pilton beds,

¹ In the following lists of foreign species, the new generic names of Brachiopods, recently introduced by Hall and Clarke in their revision of the subject, are not inserted, as they are not yet in use in any foreign work on geology or paleontology.