

Goniatite (Adorf, Iberg) limestone, Cypridina slates and Clymenia limestone of the Eifel and Rhine.

In North Devon this palæontological grouping has not been so satisfactorily made out; but in that region there is an insensible gradation upward through various sandy and muddy sediments into the Culm or Carboniferous system. The micaceous flaggy sandstones of Baggy Point contain *Cucullæa trapezium*, *C. Hardingii*, *Avicula damnoniensis*, *Lingula squamiformis*, *Discina*, *Rhynchonella laticosta*, *Strophalosia productoides*, *Spirifer disjunctus*, etc. The greenish slates and calcareous bands of Pilton near Barnstaple have yielded some characteristic fossils of the uppermost part of the Devonian system, such as *Petraia celtica*, *Cyathocrinus pinnatus*, *Spirifer Verneuili*, *Athyris concentrica*, *Streptorhynchus crenistria*, *Productus prælongus*, *Strophalosia productoides*, *S. caperata*, *Rhynchonella pleurodon*, and *Chonetes hardrensis*. Remains of land-plants are found in the Upper Devonian rocks of North Devon: *Sagenaria* (*Knorria*) *veltheimiana*, *Archæopteris* (*Palæopteris*) *hibernica*. The higher red and yellow sandy portions of these rocks shade up insensibly at Barnstaple in North Devon into strata which by their fossils are placed at the base of the Carboniferous Limestone series. But in no other British locality save in Devonshire can such a passage be observed. In all other places, the Carboniferous system, where its true base can be seen, passes down into the red sandy and marly strata of the Upper Old Red Sandstone without marine fossils.

Central Europe.—A large tract of Devonian rocks extends across the heart of Europe from the north of France through the Ardennes, the south of Belgium, Rhenish Prussia, Westphalia and Nassau. But that the same rocks have a much wider spread under younger formations which cover them is shown by their reappearance far to the west in Brittany,¹³⁰ and to the east in the Harz and the Thuringer Wald. They present a much clearer sequence of strata than their British equivalents, for they can be seen in many places to pass down into Silurian strata as well as to graduate upward into the Carboniferous system. In the Belgian and Eifelian tracts they have been subdivided as shown on page 1305.

¹³⁰ A ridge of Devonian rocks stretches eastward under the south of England (where its existence has been proved by well-borings at Loudon), and no doubt joins the Devonian area of the Boulonnais.