

Pl. 1, Fig. 49), a large *Ranatra*, and several Coleoptera.

Numerous fossil Insects have recently been discovered in the Tertiary Gypsum of Fresh-water formation at Aix, in Provence. M. Marcel de Serres speaks of sixty-two Genera, chiefly of the Orders Diptera, Hemiptera, and Coleoptera; and Mr. Curtis refers all the specimens he has seen from Aix to European forms, and most of them to existing Genera.\* Insects occur also in the tertiary Brown coal of Orsberg on the Rhine.

### *General Conclusions.*

We have seen from the examples cited in the last four sections, that all of the four existing great Classes of the grand Division of Articulated animals, viz. Annelidans, Crustaceans, Arachnidans, and Insects, and many of their Orders, had entered on their respective functions in the natural world, at the early Epoch of the Transition Formations. We find evidences of change in the Families of these Orders, at several periods of the Secondary and Tertiary series, very distant from one another; and we further find each Family variously represented during different intervals by Genera, some of which are known

\* See Edinburgh New Phil. Journ. Oct. 1829.