

Division PHYLLOBRANCHIATA.

The species of *Macrura* in this division consist of all those which possess a series of branchial plumes, developed in the form of broad foliaceous plates of extreme tenuity, attached to a central stalk.

They may conveniently be divided into those which are normal in their characteristic features, and those in which there is a greater or less aberrant departure from the more perfect structure.

Group ABERRANTIA.

This group consists of several tribes and families that in their adult condition approach more nearly to the characters common to other divisions, but which nevertheless during the progress of development pass through a stage common to the normal Phyllobranchiate *Macrura*.

This aberrant group has long been distinguished by carcinologists under the name of the *Anomura*, sometimes as a division of the *Macrura*, and sometimes as a distinct order. It is as a separate group of the former that they are here noticed; for undoubtedly in their earlier stages they pass through a morphological change that is essentially *Macrurous*, in which the scaphocerite and rhipidura are both present as well-developed appendages, the latter of which they never entirely lose.

The acknowledged species of this group belonging to the Challenger collection will be reported on by Professor John R. Henderson, M.B., F.L.S.,¹ but there are two or three immature specimens that appear to me not to belong to the normal forms of this division, and I have arranged them under this group, assuming that in their mature condition they may belong to some unknown aberrant species.

Zoontocaris, n. gen.

Carapace less than one-third the length of the animal, not covering the entire pereion, and anteriorly produced to a long rostrum that is broad at the base and sharp at the apex.

First somite of the pleon little broader than the succeeding ones.

Telson gradually increasing in width posteriorly and terminating in a sharp tooth at each angle.

Ophthalmopoda subpyriform and projecting laterally and posteriorly.

First pair of antennæ biflagellate.

¹ Zool. Chall. Exp., part lxix.