

## HOMOLOGY OF THE RECENT PHYLLOCARIDA.

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In the following pages I propose to discuss more in detail the homologies of the several parts in the Nebaliidæ, as compared with those in other recent Crustacea. As has been indicated at the beginning of this Report, my view as to the relationship of the genus *Nebalia* to other known Crustacea somewhat differs from that set forth by most other naturalists, and the examination of the two related new generic types procured by the Challenger Expedition, and described above, has confirmed me still more in the opinion at first adopted from a thorough investigation of our common northern form, *Nebalia bipes*, Fabricius.

It is certainly astonishing that the great resemblance of *Nebalia* to certain Copepoda,

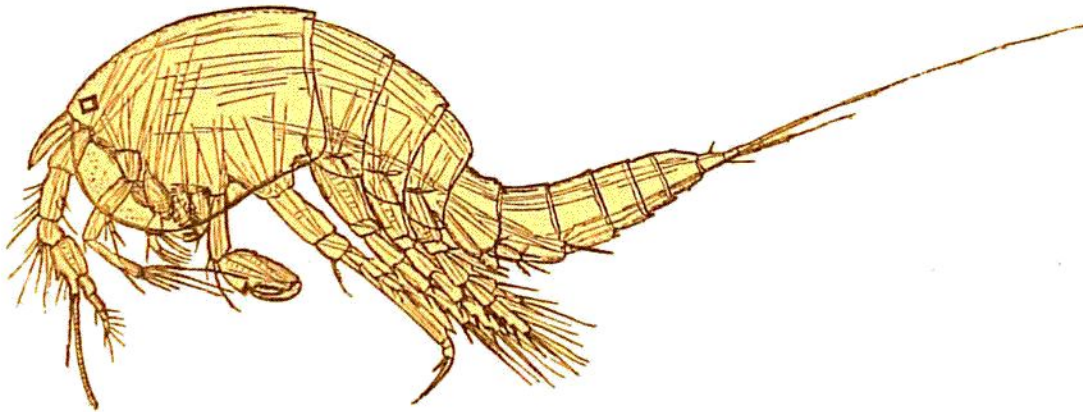


FIG. 2.—*Diosaccus tenuicornis* (Claus), male.

has escaped the attention of most naturalists who have subjected this genus to a closer examination, whereas the much more remote affinity to the Podophthalmia has always been dwelt upon, and even Professor Claus, to whom we are, as is well known, indebted for an admirable work on the free living Copepoda, does not seem to have been aware of this unmistakable resemblance; I think it may be readily found by a closer comparison, that the affinity of *Nebalia* to the Copepoda is in fact much greater than to the Podophthalmia, both as regards the external appearance and the structure of the several appendages. In some other important points it exhibits, on the other hand, an evident agreement with the Phyllopoda, and for that reason it ought to be, in my judgment,