

the collection, one of which somewhat exceeds in size even the *Gnathophausia gigas*, the specimen secured being a full-grown female with enormously developed marsupium, and exhibiting a rather striking appearance from its thick-set form and very large, loosely attached carapace. This form, too, has proved to be identical with a peculiar Crustacean described by Professor Dohrn as *Lophogaster ingens*, from a very incomplete specimen sent to him from the museum in Hamburg. The *Gnathophausia zoëa* (see fig. 262) of Suhn, recalls in a most striking manner, by the form of its carapace, the larva (zoëa) of the Brachyura, and seems to be the most widely distributed species, being found on both sides of the Atlantic and also in the Pacific.

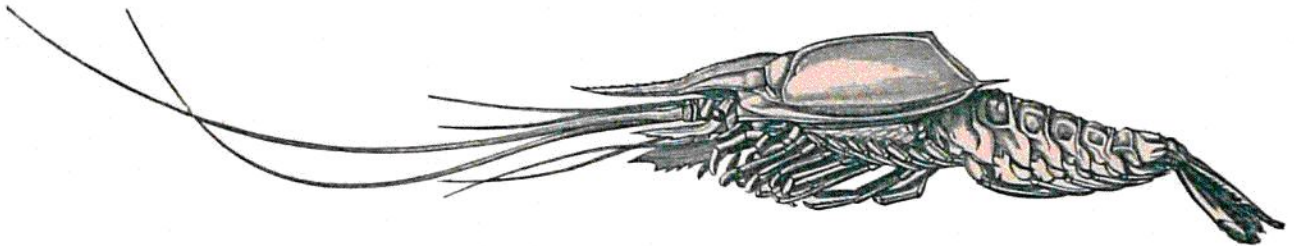


FIG. 261.—*Gnathophausia gigas*, Suhn. Lateral view.

“The remarkable form, *Eucopia australis*, Dana (= *Chalaraspis unguifer*, Suhn), seems also to be widely distributed in the great depths of the oceans, but, owing to its remarkably soft integument and fragile limbs, most of the specimens in the collection are in a more or less imperfect state.

“The subdivision Euphausiidae, in contrast to the Lophogastridae and Eucopiidae, seems to consist almost exclusively of true pelagic species, some of them being often found in great profusion swimming about near the surface of the sea, especially at night. As was first stated by Vaughan Thompson, these elegant and pellucid Crustacea are highly

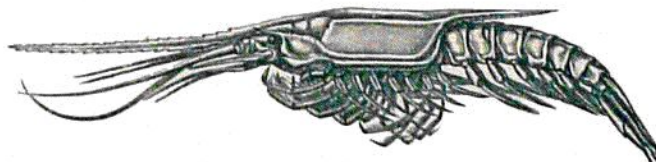


FIG. 262.—*Gnathophausia zoëa*, Suhn.

phosphorescent, the generic denomination, *Noctiluca*, given to them by that author being in fact derived from this peculiarity. The mode by which this phosphorescence is effected does not seem, however, to have been fully ascertained hitherto. It is true several authors have mentioned in these Crustacea a number of peculiar vivid-coloured globules, occurring both on the sides of the trunk and along the ventral face of the tail between the bases of the pleopods; but the structure of these globules generally has suggested the supposition that they were accessory eyes. The re-examination of the said