

Date.	Locality.
July 1875. April 9, 1876. April 29, 1876.	Pacific, north of Sandwich Islands. Tropical Atlantic. North Atlantic.

Hence the species would seem to have a rather extensive distribution, ranging, as it does, from the North Atlantic to the Pacific Ocean.

DEVELOPMENT OF EUPHAUSIIDÆ.

In his great work on the Crustacea of the United States Exploring Expedition, Dana has established, exclusive of certain other spurious genera, apparently founded on larval forms of *Macrura*, the three following schizopodous genera:—*Cyrtopia*, *Furcilia*, and *Calyptopis*. The first of these he ranks among the Euphausiidæ, whereas the two others are described in an Appendix to the Mysidæ together with the spurious genus *Zoëa* (first larval stage of *Brachyura*). As first shown by Professor Claus,¹ all these three genera represent but different stages in the development of Euphausiidæ, the genus *Calyptopis* being an earlier, the genus *Cyrtopia* a later, and the genus *Furcilia* an intermediate stage. In 1869 Metschnikoff described² a still earlier stage in the development of *Euphausia*, and in 1871 the same author stated³ that the young of *Euphausia* are hatched as true Nauplii, having a rounded, unsegmented body with only three pairs of developed limbs, viz., the two pairs of antennæ and the so-called mandibular legs. Thus not less than five principal stages occur in the larval development of the Euphausiidæ. The two first we shall designate, in accordance with earlier authors, the *Nauplius* stage and the *Metanauplius* stage. For the three succeeding stages I have seen fit to apply the generic denominations suggested by Dana, since none of these stages fully correspond with the *Zoëa* and *Mysis* stages in other Podophthalmia. Hence we have the following successive stages in the development of the Euphausiidæ. The *Nauplius*, *Metanauplius*, *Calyptopis*, *Furcilia*, and *Cyrtopia* stages. The first of these I have not had opportunity of examining, whereas the following will all be found described in detail below, as well as several intermediate or connecting stages.

I append here a short diagnosis of each of the principal stages peculiar to the development of the Euphausiidæ:—

1. *Nauplius Stage*.—Body oval, unsegmented. No compound eyes. Three pairs of

¹ Ueber einige Schizopoden und niedere Malacostraken Messina's, *Zeitschr. f. wiss. Zool.*, 1863.

² Ueber ein Larvenstadium von *Euphausia*, *Zeitschr. f. wiss. Zool.*, Bd. xix.

³ Ueber den Naupliuszustand der *Euphausia*, *Zeitschr. f. wiss. Zool.*, Bd. xxi.