

to *Calliope ossiani* or *Calliope fingalli*, Bate and Westwood; "*Gammaropsis erythrophthalmus*, Lilljeborg = *Eurystheus erythrophthalmus*, B. & W.;" "*Probolium* (= *Montagua*, Bate): fragment"; and "*Ægina phasma* (Montagu) = *Protella phasma*, Bate."

1875. PACKARD, A. S.

Life-histories of the Crustacea and Insects. The American Naturalist. Volume IX. Salem, Mass., 1875. pp. 583-622.

At page 599, speaking of the embryo in *Oniscus* and *Asellus*, he says, "The abdomen is curved up and backwards, while in the Amphipods it is bent beneath the body, as in Fig. 254, and this is really, as Fritz Müller observes, the only important difference between the embryos, at an early stage, of the two groups. The embryo Isopod at the time of hatching closely resembles the adult, there being no metamorphosis.

"The development of the Amphipods or beach fleas, is nearly identical with that of the Isopods. The eggs of certain species undergo total segmentation, while those of other species of the same genus (*Gammarus*) partially segment, as in the spiders, and in a less degree the insects, showing the slight importance to be attached to this matter, and that Haeckel's term *Morula* when used for the total segmentation of Crustacea is of little significance, how [ever] much it may be in the lower animals."

"Summary of changes:—

"1. Segmentation of the yolk partial, or total (*Morula*).

"2. Nauplius state in the egg.

"3. Larva hatching in the form of the adult with the full number of feet; no metamorphosis."

He refers to the works of E. van Beneden, Dohrn, Rathke, and Bobretzky, all concerned with the embryology of Isopods.

1875. POWELL, LL.

Description of a new Crustacean, *Phronima novæ-zealandiæ*. Transactions and Proceedings of the New Zealand Institute, 1874. Vol. VII. pp. 294, 295, pl. xxi. figs. 1-2, 1875.

This species will be considered later on in this Report. It bears a strong general resemblance to *Phronima sedentaria*, Forskål, the distinction between the two being based on characters which are not very striking at first sight.

1875. ROUGEMONT, PHILIPP DE, born 1850, died 1881.

Quæstio inauguralis: Die Fauna der dunkeln Orte. München, 1875. 13 pp.

The author bases an argument on the relationship between *Gammarus pulex* and *Gammarus puteanus*. He makes the pungent observation that the errors which zoologists have made in the establishment of species during the last fifty years it will take a hundred years to correct.

1875. ROUGEMONT, PH. DE.

Natur-Geschichte von *Gammarus puteanus* Koch. Inaugural-Dissertation. München. 1875. 40 pp.

The general structure of the Gammaridæ is described and the sensory appendages discussed. The cylindrical appendages to the flagellum of the upper antennæ are recognised, in