

their segments and directed forwards, last *three* articulated at posterior ends of their segments and directed backwards. Abdomen long, of six distinct segments, last joined to telson. Sixth pair of pleopoda biramous, styliiform. Telson large, subconical." See Note on Thomson and Chilton, 1886.

1883-GERSTAECKER, A.  
1884.

Gliedfüssler: Arthropoda. Dr. H. G. Bronn's Klassen und Ordnungen des Thierreichs wissenschaftlich dargestellt in Wort und Bild. Fortgesetzt von Dr. A. Gerstaecker. Mit auf Stein gezeichneten Abbildungen. Fünfter Band. II. Abtheilung. 9.-15. Lieferung. Leipzig und Heidelberg. 1883, 1884. *Siebente Ordnung*. Amphipoda. Flohkrebse. pp. 279-416. Taf. XXVII.-XLVIII.

This work contains a full and clear account of the organisation and development of the Amphipoda, compiled from all the best authorities, and illustrated by figures given in facsimile from the original works. There is an introductory account of the history of the subject, and a list of authors in a chronological order determined by their first publications about the Amphipoda.

In most cases names of genera and species have been accepted from authors without criticism, it not being within the plan of the work to rectify minor details of classification. The transfer, however, of the Tanaidæ to the Amphipoda is made without reserve. See further, Note on Gerstaecker, 1886.

1883. JOSEPH, GUSTAV.

Berliner Entom. Zeitschrift. XXVII. p. 7. 1883.

The blind *Niphargus orcinus* recorded from the caves of Potis Kawez and Mrzla jama, Carniolia, 51 mm. long. (Zool. Record.)

1883. MARION, A. F.

Esquisse d'une topographie zoologique du golfe de Marseille. Mémoire No 1. Annales du Musée d'histoire naturelle de Marseille.—Zoologie. Tome 1<sup>er</sup>. Marseille, 1883.

In the "Description des Faunes," the occurrence of *Gammarus locusta* in several localities is recorded, and of other well-known Amphipods at different points. In the "zone émergée," of the littoral zone, it is noticed that *Gammarus marinus* wears "une livrée brunâtre, parfaitement en rapport avec la teinte des débris décomposés de zostères. Souvent, lorsque la vague accumule des débris d'algues vertes (Ulves et conferves), ces Crustacés changent, par mimétisme, de coloration" (p. 42). In the "zone littorale immergée 0 à 2 mètres," "*Melita palmata* et *Nicea nudicornis* ne sont pas rares," under stones scarcely covered by the waves, and *Gammarella brevicaudata* among Algæ (pp. 46, 47). In the "Faune littorale immergée (0 à 2 mètres), dans la région des eaux vives," "les Edriophthalmes des algues encroûtées comprennent les *Caprella acutifrons*, Latr., *Caprella æquilibra*, Say, *Caprella grandimana*, P. May., *Caprella dentata*, Heller, *Tanais vittatus*, Rathke, *Eurysteus erythrophthalmus*, Lij., *Leptochelia Edwardsii*, Kroy., *Podocerus pulchellus*, Leach, *Allorchestes imbricatus*, Sp. Bate (nombreuses variations mimétiques dans la coloration), *Amphithoë littorina*, Sp. Bate (coloration variée)" p. 49.