

a brief review of the systems successively adopted for their classification. The sixth chapter, containing this review, is admirably illustrated by five "tableaux synoptiques," which precede the plates at the end of the volume.

In Chapter VII. Desmarest gives notice that in his own classification of the Crustacea he proposes to follow essentially that inserted by Leach in the eleventh volume of the Linnæan Transactions, but modified and expanded to adapt it to the improved state of science on the subject. He had already explained in the preface that he had improved Leach's system by grafting upon it that of Latreille. Accordingly, he makes two subclasses, the Malacostraca and the Entomostraca, each divided into five orders. The Malacostraca are divided into two legions, of which the first, the Podophthalma, includes two orders, the Decapoda and Stomapoda; the second, the Edriophthalma, contains three orders, the Amphipoda, Læmodipoda, and Isopoda. As usual at this period, the mandibular palp comes into the definition of the Amphipoda, and is denied to the Læmodipoda. The Amphipoda are said to have *five* pairs of false feet under the tail.

The distribution of the Amphipoda is as follows:—

"I^o Section. *Deux antennes insérées une de chaque côté du front; queue terminée par des filets styliformes; tête grosse, verticale.*"

This includes *Phronima*, with the species *sedentaria* and *custos*.

"II^o Section. *Quatre antennes; deux feuillets aplatis, servant de nageoires, placés au bout de la queue, et remplaçant les styles; tête grosse, verticale.*" Herein he places *Hyperia*, Latr.

"Quatre antennes sétacées. Les dix pieds, proprement dits, médiocrement longs, et tous terminés par un article simple et pointu. Tête assez petite, ronde, plane en devant, point prolongée en rostre. Corps conique, terminé par deux lames triangulaires, allongées, horizontales. *Hyperie de Lesueur; Hyperia Suerii*, Latr.; *Phronima?* ejusd., Encycl. Mét. Crust., tab. 328, fig. 17 et 18. *Nota.* Je dois la communication des caractères de ce genre inédit à la complaisance de M. Latreille, son fondateur." In this section he also places "PHROSINE (*Phrosine*, Risso; *Dactylocerus*, Latr.)," with the species *Phrosine semilunata* and *Phrosine macrophthalma*.

"III^o Section. *Quatre antennes; queue terminée par des filets styliformes; tête médiocrement grosse, non verticale.*

"I^o Division. *Antennes formées de quatre articles dont le dernier est subdivisé en plusieurs autres fort petits; les supérieures très-petites et plus courtes que le pédoncule des inférieures, qui est composé de trois articles.*" *Talitrus* with the species *locusta*, and *Orchestia* with the species *littorea* occupy this division.

"II^o Division. *Antennes grandes, sétacées, formées de quatre articles dont le dernier est lui-même multiarticulé; les supérieures de bien peu plus courtes que les inférieures.*" This division has only *Atylus*, Leach, with the species *carinatus* of Fabricius. But the remark is added, "M. Latreille présume que le *Gammarus nugax* de Fabricius, figuré par Phipps (Voyage au pôle boréal, pl. 12, fig. 2), appartient au genre *Atylus*."

"III^o Division. *Antennes formées de trois articles dont le dernier est multiarticulé, et dont le premier est le plus petit de tous; les supérieures étant les plus longues.*" The genus *Dexamine* is included, with the species *spinosa*, and this is followed by "LEUCOTHOE (*Leucothoe*, Leach; *Gammarus*, Latr.; *Cancer*, Montagu; *Cuvieria*, Leach)," with the species *articulosa*, but no explanation is given to show where the synonym *Cuvieria* for the genus is to be met with.

"IV^o Division. *Antennes formées de quatre articles, dont le dernier est multiarticulé; les supérieures étant les plus longues.*

"Subdivision I. *Les quatre premiers pieds monodactyles; ceux de la seconde paire dans les mâles, ayant la main dilatée et comprimée.*" In this subdivision is included "MÉLITE (*Melita*, Leach; *Gammarus*, Latr., Lamck.; *Cancer*, Montagu; *Boscia*, Leach)," with the species *palmata*, and "MÆRA (*Mæra* Leach; *Gammarus*, Latr., Lamck.; *Mulleria*, Leach), with