

2. SYSTEMATIC CATALOGUE OF SPECIES

SUBORDER MACRURA REPTANTIA Bouvier, 1917

Macrura Reptantia Bouvier, 1917, Résultats Campagnes scientifiques Prince Albert I Monaco, 50:7,8,9.

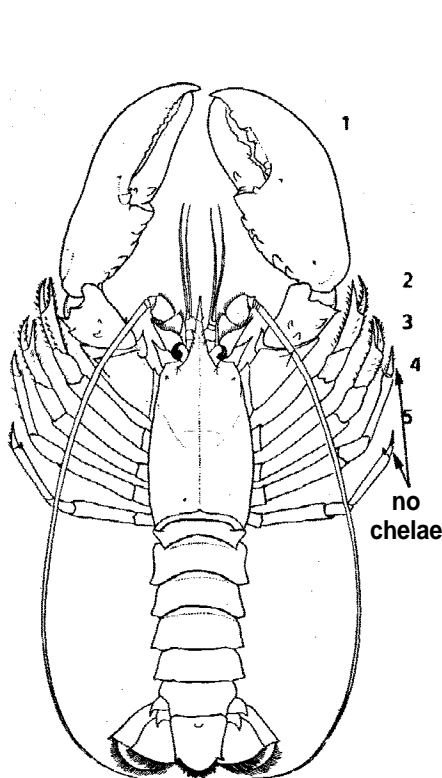
The suborder Macrura Reptantia consists of three infraorders: Astacidea (marine lobsters and freshwater crayfishes), Palinuridea (spiny lobsters and slipper lobsters) and Thalassinidea (mud lobsters). The infraorder Astacidea contains three superfamilies of which only one (the Nephropoidea) is considered here. The remaining two superfamilies (Astacoidea and Parastacoidea) contain the freshwater crayfishes. The superfamily Nephropoidea (40 species) consists, almost entirely of commercial or potentially commercial species, and their few non-commercial representatives are dealt with here also, so as to give a complete picture of this group.

The infraorder Palinuridea, also contains three superfamilies (Eryonoidea, Glypheoidea and Palinuroidea) all of which are marine. The Eryonoidea are deepwater species of insignificant commercial interest and are only treated superficially in this catalogue. The Glypheoidea, an almost exclusively fossil group, contains a single recent species, which is treated here. All species of the superfamily Palinuroidea (total about 120 species) are included in the catalogue. Members of the genus **Scyllarus** (over 40 species) are listed but only 7 species are treated in detail because they are the only ones known to be of (potential) interest to fisheries.

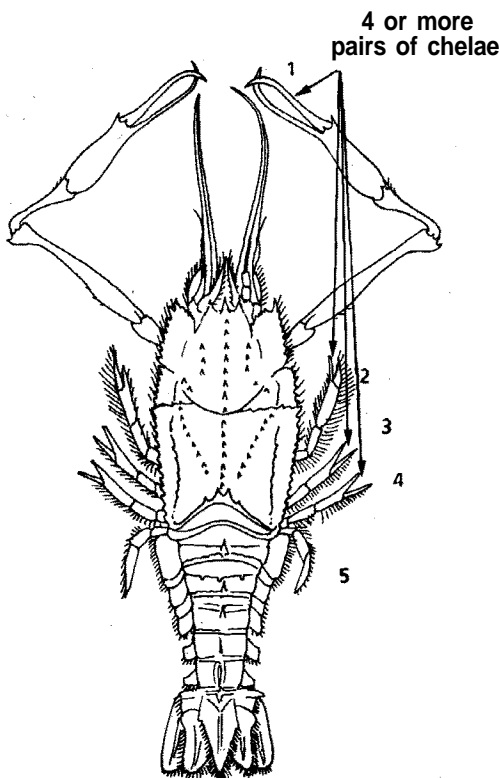
The third infraorder, the Thalassinidea, contains a single superfamily, the Thalassinidea which contains around 100 species. Only a few representatives of this superfamily are known to be used as food and bait and hence only these few species are treated in detail in this catalogue.

Key to the three Infraorders and their Superfamilies

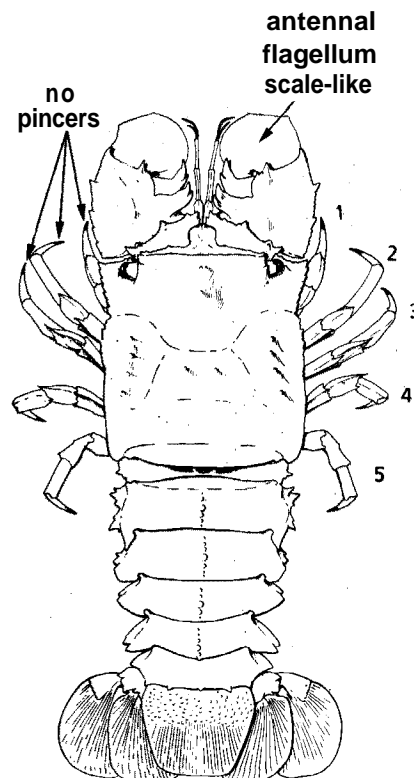
- 1a. First three pairs of pereopods with true chelae, the first pair the largest and most robust
- 2a. Fourth pereopod, and usually also the fifth, without true chelae. Carapace cylindrical, not flattened (Fig.18) Infraorder **Astacidea**, Superfamily **Nephropoidea**
- 2b. All pereopods, or at least the first four, with true chelae. Carapace flattened (Fig. 19). Deep-sea specie Infraorder **Palinuridea**, Superfamily **Eryonoidea**, Family **Polychelidae**
- 1b. Third pereopod never with a true chela, in most groups chelae also absent from first and second pereopods
- 3a. Antennal flagellum reduced to a single broad and flat segment, similar to the other antennal segments (Fig. 20) Infraorder **Palinuridea**, Superfamily **Palinuroidea**, Family **Scyllaridae**
- 3b. Antennal flagellum long, multi-articulate, flexible, whip-like, or more rigid



Infraorder **Astacidea**
Superfamily **Nephropoidea**
Fig. 18



Infraorder **Palinuridea**
Superfamily **Eryonoidea**
Family **Polychelidae** Fig. 19



Infraorder **Palinuridea**
Superfamily **Palinuroidea**
Family **Scyllaridae** Fig. 20

4a. Epistome long, about 1/3 of carapace length. Eyes on a median elevation of the cephalon (Fig. 21) Infraorder **Palinuridea**
 Superfamily **Glypheoidea**
 Family **Glypheidae**

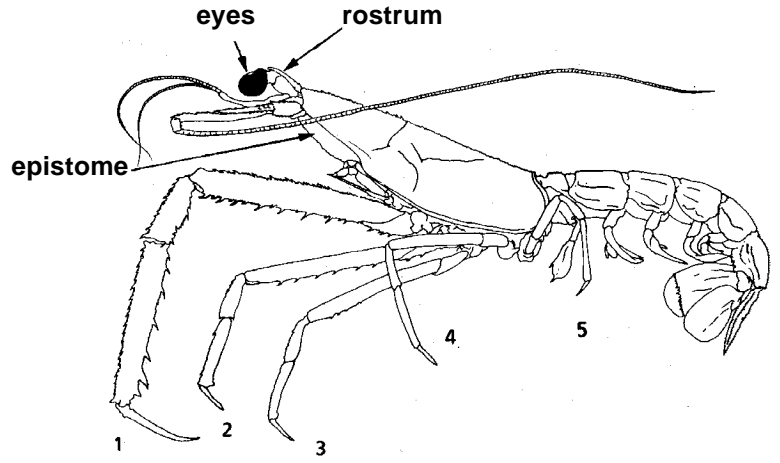
4b. Epistome short, far shorter than 1/3 of the carapace. Eyes not placed on an elevation of the cephalon

5a. Carapace with numerous strong and less strong spines and two frontal horns over the eyes. Rostrum absent or reduced to a single spine. Legs 2 to 4 (usually also 1) without chelae or subchelae (Fig. 22) . . Infraorder **Palinuridea**
 Superfamily **Palinuroidea**
 Family **Palinuridae**

5b. Carapace with at most a few spines; no frontal horns. Rostrum present, even though sometimes small. Legs 1 and 2 simple, chelate, or subchelate

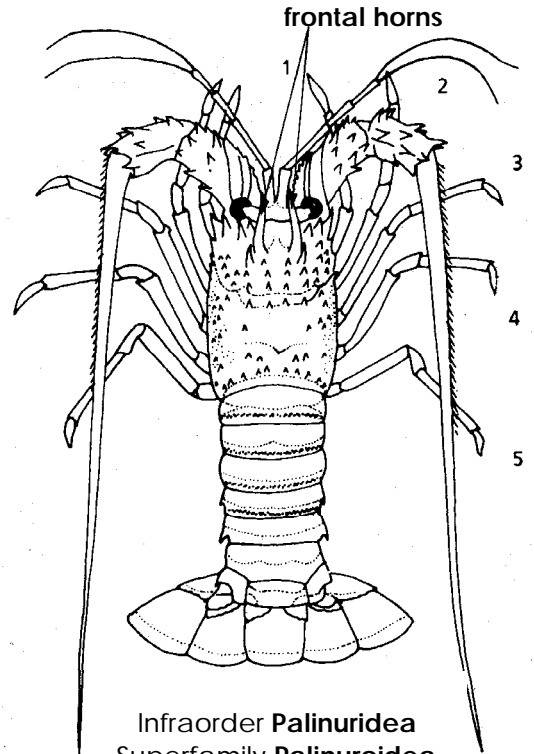
6a. First pereiopods simple, rostrum flat, broad and triangular or broadly oval (Fig. 23)..... Infraorder **Palinuridea**
 Superfamily **Palinuroidea**
 Family **Synaxidae**

6b. First pereiopod chelate or subchelate. Rostrum of diverse shapes (Fig. 24) . . Infraorder **Thalassinidea**



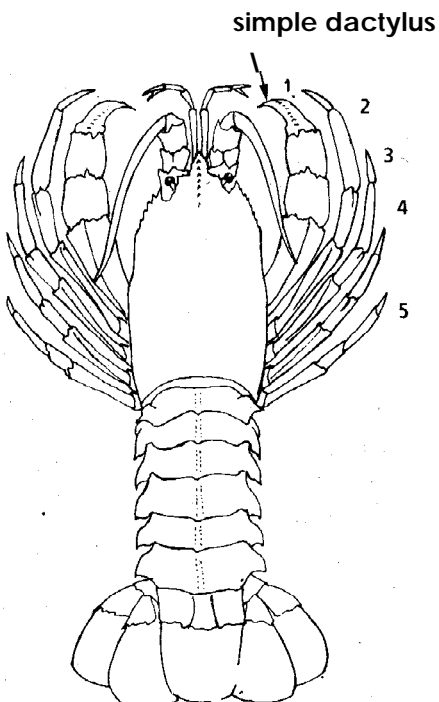
Infraorder **Palinuridea**
 Superfamily **Glypheoidea**
 Family **Glypheidae**

Fig. 21



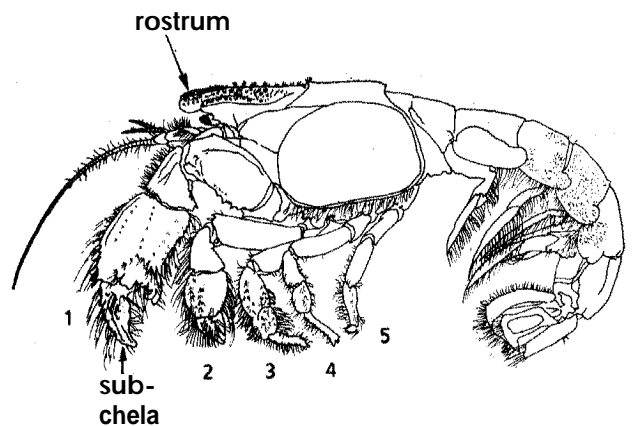
Infraorder **Palinuridea**
 Superfamily **Palinuroidea**
 Family **Palinuridae**

Fig. 22



Infraorder **Palinuridea**
 Superfamily **Palinuroidea**
 Family **Synaxidae**

Fig. 23



Infraorder **Thalassinidea**

Fig. 24