A FIELD GUIDE TO
CRUSTACEANS
OF
AUSTRALIAN WATERS

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Porcellanids on coral (Family Porcellanidae)

Species. The background colour is usually brown or cream, often with paler brown or red markings; some species are brightly coloured with iridescent blue-green marks, or distinct red markings on a white background. 

Sexes: Males grow larger than females. 

Habitat: Usually occurring beneath rocks, especially on medium to high wave energy coasts. They are also found on coral reefs, under rubble, or on the branches of live coral. Some species occur in mangrove forests.

Distribution: Found Australia-wide but they are most diverse and abundant in the tropics.

Notes: Porcelain crabs are, like the hairy stone crab, filter feeders. However, they filter water with their mouthpart appendages (the third maxillipeds), rather than with the antennae. In some habitats porcellanids can occur in very high densities. In WA, the genus *Petrolisthes* is most common in intertidal areas.


**Family Galatheidae**

These small crustaceans are rarely seen but can occur in large numbers and some species are known to swarm at certain times of the year. They bear some similarity to small lobsters, as is reflected by their common names.

*Galathea* spp., *Munida* spp.

Craylets, lobster krill, squat lobsters

Description: These animals show a superficial resemblance to small rock lobsters. The thorax is flattened, with a pronounced rostrum and the long, symmetrical abdomen is held under the
FAMILY GALATHEIDAE

Galathea sp.
whole animal, dorsal view
SCALE: x .9

Source: Baba, K. (1969)
**FAMILY GALATHEIDAE**

*Munida elegantissimum*
whole animal,
dorsal view

**SCALE:** x 0.8

- pollex
- dactyl
- chela
- carpus
- merus
- cephalothorax
- three spined rostrum
- clawed first thoracic appendage (cheliped)
- antennal flagellum
- thoracic appendages
- eye
- abdomen

Source: Baba, K. (1959)

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*Galathea* sp. (Family Galatheidae)

*Galathea* sp. (Family Galatheidae)

[Images of *Galathea* sp. (Family Galatheidae) by G. Morgan]
Family Hippidae

The common name of these unusual crustaceans stems from their habit of burrowing in soft sand and mud. Although they are not uncommon they are rarely seen.

*Hippa* spp.
Mole crabs

**Description:** The carapace is oval in shape, and the abdomen is folded beneath the thorax. The antennae are very long and hairy. The legs are flattened and spade-like, and almost obscured from view from above. These animals can grow up to 30 mm in carapace length.

**Colour:** Cream or pale brown.

**Sexes:** Females are larger than males.

**Habitat:** Occurring intertidally and shallow subtidally on open sandy beaches, burrowing just below the sediment surface.

**Distribution:** Found in the Perth region,
first and second pleopods are modified for sperm transfer and called genopods. The first pleopod is cylindrical and the second acts as a piston inside the first. The abdomen of the female is wider than that of the male. Eggs are attached to the female pleopods and carried under the abdomen.

There are many families of crabs that are encountered frequently in Australia. The following have been selected as examples to illustrate their immense diversity and variety.

**Family Dromiidae**

Dromiids are frequently called sponge crabs, due to the habit of most species of carrying a living sponge (or sometimes a sea-squirt) on the carapace. The last two pairs of legs are clawed and smaller than the preceding pairs and are used to grip the sponge. Dromiids are regarded as very primitive crabs.

**Dromidia spp., Petalomera spp., Cryptodromia spp.**

**Sponge crabs**

**Description:** The carapace is usually about as long as it is broad, with a variable number of spines on the sides, but the upper surface is always fairly smooth and often covered in fine hairs. The last two pairs of legs have claws and are smaller and more slender than the other legs. Large species can grow up to 80 mm in carapace width but most are considerably smaller than this.

**Colour:** Various shades of brown or red-brown.

**Sexes:** The females have distinct longitudinal grooves on the underside of the sternum of the thorax.

**Habitat:** Occurring in intertidal areas to a depth of at least 220 m, on a variety of bottoms, including mud, sand, rocks and coral, often in algal beds.

**Distribution:** Found Australia-wide.

**Notes:** The majority of species carry a living shelter, which provides protection and camouflage.

**References:** Hale (1927), Healy & Yaldwyn (1970).
*Galathea balssi* (Family Galatheidae)

*Munida militaris* (Family Galatheidae)

*Munida* sp. (Family Galatheidae)