

## **A reappraisal of the hermit crab genera *Catapagurus* A. Milne-Edwards and *Hemipagurus* Smith (Crustacea: Decapoda: Anomura: Paguridae), with the description of a new species**

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### **Abstract**

The discovery of a new species from the waters of eastern Australia and New Caledonia has required a reassessment of the merit of the reinstatement of the hermit crab genus *Hemipagurus* Smith, 1881. Reappraisal of all characters ascribed to both *Catapagurus* A. Milne-Edwards, 1880 and *Hemipagurus*, in light of the attributes of *Catapagurus franklinae* n. sp., has demonstrated unequivocally that there is no justification for the resurrection of *Hemipagurus*. Consequently, this genus is once again relegated to the status of junior synonym of *Catapagurus*, and all of the species reassigned to or recently described in the genus *Hemipagurus* are returned to, or transferred to, *Catapagurus*. *Catapagurus spinicarpus* de Saint Laurent & McLaughlin, 2000, and *C. danida* McLaughlin, 2002, two species not considered in the recent revision, are compared to their closest congeners, as is the new species.

**Key words:** Crustacea, Anomura, Paguridae, *Catapagurus*, *Hemipagurus*, reappraisal, new species

### **Introduction**

Prior to the major revision by Asakura (2001), *Hemipagurus* Smith, 1881a was considered a junior synonym of *Catapagurus* A. Milne-Edwards, 1880. Asakura (2001) restricted *Catapagurus* to its type species, *Catapagurus sharreri* A. Milne-Edwards, 1880, and reassigned his own *Icelopagurus tuberculatus* Asakura, 1999 to *Catapagurus*. Although Asakura (2001) overlooked *Catapagurus spinicarpus* de Saint Laurent and McLaughlin, 2000, he transferred the remaining eight species ascribed to *Catapagurus* to the reinstated *Hemipagurus* except for *C. doederleini* Doflein, 1902, which he assigned to the genus *Parapagurodes* McLaughlin & Haig, 1973. Additionally, Asakura (2001) described eight new species in *Hemipagurus*. Asakura's species descriptions and illustrations of all of the