

## Two new species of *Paguristes sensu stricto* (Decapoda: Anomura: Paguroidea: Diogenidae) and a review of *Paguristes pusillus* Henderson

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### Abstract

A new species of the hermit crab genus *Paguristes*, *sensu stricto*, *Paguristes alcock* n. sp., is described and illustrated from materials collected in Australia, Indonesia and the Philippine Islands. It is proposed that this taxon, or a species identified simply as *Paguristes* sp. by Lewinsohn (1969) in his monograph of Red Sea Anomura, may be conspecific with the species incorrectly referred by Alcock (1905) and several subsequent carcinologists to *Paguristes ciliatus* Heller, 1862. Lewinsohn subsequently re-identified his material of *Paguristes* sp. as *Paguristes ciliatus* *sensu* Alcock, 1905 and *P. pusillus* Henderson, 1896. Alcock's single specimen of *P. ? ciliatus* from the Persian Gulf was not available for reexamination. Lewinsohn's specimens however, have been reviewed and compared with the present authors Indo-Pacific species and with a specimen identified by Henderson as *P. pusillus*. Lewinsohn's Red Sea specimens are described and illustrated herein as *P. lewinsohni* n. sp., as are the specimens identified as *P. pusillus* by Thompson (1943) from the John Murray Expedition. An illustrated description of *P. pusillus* is also provided to facilitate recognition of these superficially similar species. *Paguristes pusillus zhejiangensis* Wang & Tung, 1982 is considered to be a distinct taxon, not a subspecies of *P. pusillus*, and is herein elevated to full specific rank.

**Key words:** Decapoda; Anomura, Paguroidea, Diogenidae, *Paguristes*, new species, *Paguristes pusillus*, *Paguristes pusillus zhejiangensis*.

### Introduction

During ongoing, simultaneous, and albeit individual investigations of the genus *Paguristes sensu stricto* Dana, 1851, from Australia and Indonesia, both authors found a species that