



A new species of the genus *Pagurus* Fabricius, 1775 (Crustacea: Decapoda: Anomura: Paguridae) from the Ryukyu Islands, southwestern Japan*

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Abstract

A new species of pagurid hermit crab, *Pagurus tabataorum* n. sp., is described from Kume Island, Ryukyu Islands, southwestern Japan. It appears closest to *P. capsularis* McLaughlin, 1997, known from the Tanimbar Islands in Indonesia, but is readily distinguished by the possession of numerous arcuate or sinuous, transverse scutes on the dorsal surface of the chelae. Distributional patterns of species of the genus *Pagurus* Fabricius, 1775, hitherto recorded from the Ryukyu Islands are briefly reviewed.

Key words: Crustacea, Decapoda, Anomura, *Pagurus*, new species, Ryukyus

Introduction

The KUMEJIMA 2009 Expedition was an extensive survey on the coastal marine fauna around Kume Island, Ryukyu Islands, southwestern Japan. Dredgings and trawlings during the expedition were resulted in the findings of many species of decapod crustaceans including an unusual hermit crab species of the genus *Pagurus* Fabricius, 1775. The species is herein described as new to science and illustrated in detail.

The holotype of the new species is deposited in the Ryukyu University Museum, Fujukan (RUMF), Okinawa. The measurement provided is shield length (sl), measured from the tip of the rostral lobe to the midpoint of the posterior margin of the shield. The terminology follows McLaughlin (2003) and McLaughlin *et al.* (2007) for the most part, with exception of numbered thoracic sternites and dactylus (dactyli) for dactyl (dactyls).

Taxonomic account

Family Paguridae Latreille, 1802

Genus *Pagurus* Fabricius, 1775

Pagurus tabataorum n. sp.

[New Japanese name: Chura-honyadokari]

(Figs. 1–5)

Type material. Holotype: KUMEJIMA 2009, St. Dredge 11, 26°22.670–22.806'N, 126°48.035–48.327'E, 68 m, 10 November 2009, male (sl 4.0 mm), RUMF-ZC-1508.

Description. Eleven pairs of biserial, phyllobranchiate gills.

Shield (Fig. 1A) 1.1 times as long as broad; anterior margins between rostrum and lateral projections concave; anterolateral margins sloping, posterior margin roundly truncate; dorsal surface with few tufts of short setae anterolaterally. Rostrum roundly triangular, terminating bluntly. Lateral projections obtusely triangular, not