



A new species of deep-sea crab of the genus *Chaceon* Manning & Holthuis, 1989 (Crustacea: Decapoda: Brachyura: Geryonidae) from Western Australia

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Abstract

Chaceon albus sp. nov. is described from off Western Australia. It is easily separated from the species with which it has long been confused, *C. bicolor* Manning, 1989, by proportions of the walking legs, orbital shape, gonopod form and colour. Characters to separate the new species from seven other Indian Ocean species are also discussed.

Key words: India Ocean, geryonid crabs, descriptions

Introduction

As part of a fishery survey report, Wadley & Evans (1991) first noted potential stocks of a large geryonid crab off Western Australia which they identified as *Chaceon bicolor* Manning & Holthuis, 1989. *Chaceon bicolor* was originally described from the eastern coastline of Australia and New Caledonia (Manning & Holthuis, 1989). Since then, various studies have recognised seven other species from the Indian Ocean, viz. *C. paulensis* (Chun, 1903), *C. macphersoni* (Manning & Holthuis, 1988), *C. crosnieri* Manning & Holthuis, 1989, *C. collettei* Manning, 1992, *C. somaliensis* Manning, 1993, *C. alcocki* Ghosh & Manning, 1993, and *C. goreni* Galil & Manning, 2001 (see Galil & Manning, 2001).

Independent investigations of the Western Australian specimens by the authors, led us to believe that the identity of Western Australian `C. bicolor' was unlikely. Jones & Morgan (1994) first provided figures of C. bicolor from Western Australia and Queensland which seemed to differ markedly in colour and body proportions. In October 1998, the second author worked with R. Melville-Smith (Western Australian Department of Fisheries) and Diana Jones (Western Australian Museum) while undertaking his revision of the eriphiid crab Hypothalassia Gistel, 1848 (Koh & Ng, 2000) and obtained several specimens of Western Australian 'C. bicolor' from the local fishermen. At that time, the fishery for 'C. bicolor' had just started but was growing. These specimens of 'C. bicolor' clearly differed from C. bicolor s. str. in its distinctly shorter and stouter walking legs as well as its much paler colouration. In 1999, the second author obtained numerous specimens of the same species of Chaceon brought in from Western Australia for the Singapore seafood market. Subsequent studies by the first two authors reinforced our view that the Western Australian Chaceon represented an undescribed species. Davie (2002) subsequently commented that the Western Australian 'C. bicolor' was likely to be a new species. In 2002, the third author began a parallel taxonomic study after receiving specimens obtained by Kim Smith, then undertaking a doctoral study on the biology of Western Australian Chaceon.

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