



**The identities of *Cancer arenarius* Toreen, in Osbeck, 1765, *Cancer arenarius* Zimmermann, in Cavolini, 1792, *Cancer (Mantis) arenarius* Herbst, 1793, and *Cancer (Gammarellus) arenarius* Herbst, 1793, and other names associated with the genus *Ocypode* Weber, 1795 (Crustacea: Amphipoda, Decapoda, Stomatopoda)**

MARTYN E. Y. LOW<sup>1</sup> & PETER K. L. NG<sup>2</sup>

<sup>1</sup>Department of Marine and Environmental Sciences, Graduate School of Engineering and Science, University of the Ryukyus, 1 Senbaru, Nishihara, Okinawa 903-0213, Japan. E-mail: m.low@me.com

<sup>2</sup>Tropical Marine Science Institute and Department of Biological Sciences, National University of Singapore, Kent Ridge, Singapore 119260, Republic of Singapore. E-mail: dbsngkl@nus.edu.sg

**Abstract**

The binomial name *Cancer arenarius* has been proposed in five different works for species of Crustacea. The earliest name, *Cancer arenarius* Toreen, in Osbeck, 1765, is identified with *Ocypode ceratophthalmus* (Pallas, 1772), with usage of the latter name being maintained by a reversal of precedence. We identify *Cancer arenarius* Zimmermann, in Cavolini, 1792, with *Eriphia verrucosa* (Forskål, 1775). *Cancer (Mantis) arenarius* Herbst, 1793, is a preoccupied and unavailable objective synonym of *Lysiosquillina maculata* (Fabricius, 1793), and we herein designate the neotype of the latter as the simultaneous neotype of the former to fix the identities of both names. *Cancer (Gammarellus) arenarius* Herbst, 1793, is identified with *Gammarellus homari* (Fabricius, 1779). *Cancer arenarius* Catesby, 1771, has been deemed not an available name by the Zoological Commission, but is identifiable with *Ocypode quadrata* (Fabricius, 1787). *Cancer eques* Aubert de la Chesnaye des Bois, 1759, and *Ocypoda ippeus* Olivier, 1804 (and its incorrect original spelling, *Cancer hippeus*), are both referred to *Ocypode cursor* (Linnaeus, 1758), while *Ocypoda edwardsi* Osorio, 1890, is a subjective junior synonym of *Ocypode africana* De Man, 1881. The authorship of *Cancer erythropus* (now *Dromia erythropus*): Edwards, in Catesby, 1771, is also clarified.

**Key words:** Brachyura, Stomatopoda, Amphipoda, *Ocypode ceratophthalmus*, *Ocypode quadrata*, *Ocypode cursor*, *Ocypode africana*, neotype designation, nomenclature, ICZN, Code, Article 23.9, *nomen protectum*, *nomen oblitum*

**Introduction**

The name *Cancer arenarius* has been proposed independently in five different post-1758 works: Toreen (in Osbeck 1765), Catesby (1771), Zimmermann (in Cavolini 1792), and twice by Herbst (1793a, b). All are apparently independent uses of the name *Cancer arenarius* and each must be treated as distinct nomenclatural entities. We identify each of these names and enact provisions within the *International Code of Zoological Nomenclature* (hereafter the Code, ICZN 1999) that best serve nomenclatural stability.

**Authorship of the name *Cancer arenarius* in the *Natural History of Carolina***

Mark Catesby (b. 1683, d. 1749) arrived in Virginia, USA and began his observations on natural history that resulted in, amongst other publications, the *Natural History of Carolina* (Catesby 1729–1747) (see Reveal 2009; 2012a, b for full details). Catesby (1729–1747) described and figured many North American animals for the first time (see Reveal 2012a, b). A second edition of the *Natural History of Carolina* was issued by George Edwards (as