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***Mimulus* Stimpson, 1860, a junior synonym of *Pugettia* Dana, 1851 (Decapoda: Brachyura: Majoidea: Epialtidae)**

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Abstract

William Stimpson (1860) established *Mimulus* (Brachyura: Majoidea: Epialtidae), with a single species, *M. foliatus*. Rathbun (1894) placed the genus in synonymy with *Pugettia* Dana, 18951, but subsequent authors have considered *Mimulus* to be a valid genus. Genetic evidence and re-examination of the morphology indicate that *M. foliatus* belongs to a clade of majoid crabs consisting of species of *Pugettia*. We therefore consider *Mimulus* to be a junior synonym of *Pugettia*. We provide a list of all species of *Pugettia*.

Key words: *Mimulus*, *Pugettia*, kelp crab

Introduction

William Stimpson (1860, 200, pl. 5, fig. 1) described and figured a new genus and species of brachyuran crab, *Mimulus foliatus*. A second species, *M. acutifrons* A. Milne-Edwards, 1867, was described without illustrations or a type locality. With the exception of Newcombe (1893) and Rathbun (1894), subsequent authors have used the name *M. foliatus* in reference to the species of *Mimulus* found in the northeastern Pacific. A recent genetic analysis co-authored by the second author (Hultgren & Stachowicz 2008b) indicates that *M. foliatus* is closely related to *Pugettia gracilis* Dana, 1851 and does not warrant designation as a species of a different genus. We examined specimens and studied descriptions and illustrations of *M. foliatus* and compared its morphology to that of species of *Pugettia* and other epialtid crabs. We herein synonymize *Mimulus* Stimpson, 1860 with *Pugettia* Dana, 1851, and provide a list of species.

Material and methods

Hultgren & Stachowicz (2008b: table 1) analyzed four specimens of *M. foliatus* from Bodega Bay, California (38°20'N 123°2.9'W) and compared them to 12 specimens of five other species of *Pugettia*. The first author examined specimens of a male (carapace width 38 mm) and a female (carapace width 22 mm) taken by scuba diving at 8 m on 7 August 1971 from Monastery Beach, Carmel, California (36°31.5'N 121°55.5'W) (Texas A&M University Teaching Collection). These specimens were compared with descriptions given by Stimpson (1860) and Garth (1958), and with a diagnosis given by Wicksten (2012). The gonopods of the male *M. foliatus* were compared with those of one specimen each of *Pugettia richii* Dana, 1851, and *P. producta* (Randall, 1840), from the Texas A&M Collection, and a male *Talipeus nuttallii* (Randall, 1840) from the Natural History Museum of Los Angeles County (LACM 41120), as well as with those illustrated by Garth (1958) for *M. foliatus*, six species of *Pugettia* and *T. nuttallii*. We follow the classification of Ng *et al.* (2008) for majoid crabs. The list of species of *Pugettia* is from Ng *et al.* (2008) with the addition of *P. ogasawarensis* Komatsu, 2011.