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The genus *Cerithidea* Swainson, 1840 (Gastropoda: Potamididae) in the Indo-West Pacific region

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Abstract

Members of the genus *Cerithidea* are common components of the fauna of mangrove forests, tidal swamps and salt marshes in the Indo-West Pacific province, in marine and brackish conditions. The snails typically rest on the trunks of trees and other vegetation and migrate to the substrate to feed at low tide. In many areas mangrove habitats are under threat and some *Cerithidea* species are therefore considered to be endangered. In current taxonomic literature, ten species are recognized on the basis of shell morphology. A recently published molecular phylogenetic analysis has increased this to fifteen. The present study is a systematic account of these fifteen recognized species. Of these, two are newly described: *C. houbricki* and *C. andamanensis*. The species accounts include full synonymies, detailed descriptions of shells based on 621 museum samples, descriptions of living animals, distribution records and maps, reviews of habitat and ecology, and notes on conservation status.

Key words: COI, molecular phylogeny, mangrove, shell variation, endangered species

Introduction

For marine molluscs the mangrove forest is a physically challenging environment, characterized by a three-dimensional structure of trunks, roots and branches, by acidic and anoxic soil, and by variable salinity resulting from intermittent tidal inundation, evaporation in the tropical sun and heavy rainfall. Primary productivity is high, but leaves are a refractory food source and algal growth is restricted by the heavy shade of the tree canopy, so organic material is available mainly as detritus on the mud surface. In addition there is usually intense predation by crabs and fish and sometimes by terrestrial vertebrates. Nevertheless, a small number of molluscs show an obligate association with mangrove habitats, being variously dependent on the trees for substrate, food, shade or protection from marine predators (e.g. Vermeij 1973; Plaziat 1984; Reid 1986a; Glaubrecht 1997; Plaziat *et al.* 2001; Lozouet & Plaziat 2008). Of gastropods, these mangrove-associated species include less than 20 worldwide members of the otherwise large and ecologically diverse families Neritidae, Muricidae and Cerithiidae, and perhaps 200 or more of the relatively poorly studied Ellobiidae, Onchidiidae and Rissooidea. Taxonomically, the most well known of the mangrove gastropods are the Littorinidae (about 35 mangrove-associated species: Reid 1986a, b, 1999, 2001;

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