

**Two New Species of *Periclimenes*
(Crustacea: Decapoda: Palaemonidae)
from Lizard Island, Queensland,
with Notes on Some Related Taxa**

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ABSTRACT. Two new species of *Periclimenes* caught in traps at Lizard Island, Queensland, *P. lacertae* and *P. priodactylus*, are described. *Periclimenes denticulatus* Nobili, *P. agag* Kemp and *Periclimenes laccadivensis* (Alcock & Anderson) are reported from Australia for the first time. Further information is presented on other Australian specimens of *Periclimenes*, *P. platycheles* Holthuis, *P. attenuatus* Bruce, *P. amboinensis* (De Man), and on *Parapontonia nudirostris* Bruce, with remarks on some non-Australian specimens of *Periclimenes*, *P. lanipes* Kemp, *P. pholeter* Holthuis and "*P. consobrinus*" Balss (*non* De Man). The extraordinary occurrence of *P. pholeter* in traps at 1825 m in the Red Sea, previously known only from anchialine habitats, represents the greatest depth from which a palaemonid shrimp has so far been recorded. Its first occurrence in the western Pacific Ocean is also recorded.

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Very few pontonine shrimps have been reported from traps and the few records have been of deep-water species. It is therefore of interest that small traps set in shallow water at Lizard Island, Queensland, by Dr J.K. Lowry and S.J. Keable, have provided specimens of two undescribed species of *Periclimenes*, *P. lacertae* n.sp., and *P. priodactylus* n.sp., and one very poorly known species, *P. denticulatus* Nobili. Other *Periclimenes* species of interest were also caught in the traps, and are discussed in this report. Further pontonine material also included in this report is derived from a study of

the commensal associates of crinoids on the northern Great Barrier Reef carried out by Ms K. Fabricius. The first Australian specimen of *Periclimenes laccadivensis* (Alcock & Anderson) from 720 m, off Cape Freycinet, Tasmania, is also reported. Additional information is also provided upon the *Pola* Expedition material referred to *P. consobrinus* by Heinrich Balss (1915) and on specimens of *P. brocki* from Singapore Straits by Johnson (1961, 1979). Recent collections of *P. pholeter* from deep-water traps in the central Red Sea, from R.V. *Meteor* material, are also recorded and further specimens