

Additions to the Ascothoracidan Fauna of Australia and South-east Asia (Crustacea, Maxillopoda): Synagogidae (part), Lauridae and Petrarciidae

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ABSTRACT. Previous Australian records of Ascothoracida are summarised. In the Synagogidae, three new species of *Gorgonolaureus* Utinomi are described from primnoid (*Pterostenella plumatilis* (Rousseau)), paramuriceid (unidentified), and gorgoniid (*Eunicella* sp.) gorgonacean hosts off Western Australia, Vietnam, and New Caledonia, respectively. The first two species are from unusually shallow depths, 80 to 100 m, the third from bathyal depths. *Flatsia* n.gen., with one species from 73 to 82 m depth off New South Wales, host unknown, is provisionally assigned to the Synagogidae. In the Lauridae, two new species of *Baccalaureus* Broch are described from the subtidal zoanthid *Isaurus tuberculatus* Gray on the Great Barrier Reef and the solitary zoanthid *Sphenopus marsupialis* Steenstrup at several shallow sites (40–86 m) off Queensland and Western Australia and in the Andaman Sea. In the Petrarciidae, morphological and ecological notes on *Petrarca okadai* Grygier infesting the coral *Heteropsammia cochlea* (Spengler) at Lizard Island, Queensland, are presented. Two new species of *Petrarca* Fowler are described infesting the solitary coral *Fungiacyathus* sp. off Moreton Bay, Queensland, and the hermatypic reef coral *Turbinaria reniformis* Bernard at Lizard Island. An unnamed species of *Petrarca* from the solitary coral *Anthemiphyllia dentata* Alcock collected between 110 and 350 m off Queensland is partly described. A list and some photographs of other new records of galls caused by petrarcid ascothoracidans in various Indo-Pacific scleractinians, especially *Turbinaria* spp. and other dendrophylliids, are presented.

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