

## **A Review of the Biology and Host Plants of Australian Buprestidae (Coleoptera) Known to Breed in Eucalyptus Species (Myrtaceae)**

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### **ABSTRACT**

Published records of 22 species in 12 genera (6 subfamilies) of Australian Buprestidae known to develop in the wood of *Eucalyptus* species (Myrtaceae) are reviewed and discussed. A total of 23 identified *Eucalyptus* species and several unidentified taxa are presently known to be utilized by Australian Buprestidae as larval hosts. Some genera and species of Australian Buprestidae appear to be host-specific to *Eucalyptus* while others show a broader polyphagy, indicating a weaker association with *Eucalyptus*.

*Key words:* Coleoptera, Buprestidae, Australia, larval host records, biology, *Eucalyptus*, co-evolutionary relationships.

### **INTRODUCTION**

For the past 20 years, the author has been undertaking and publishing extensive field research concerning the biology and host plants (both larval and adult) of the Australian Buprestidae fauna in order to learn something of their host preferences, larval morphology and evolution (e.g. Hawkeswood, 1985a, 1985b, 1986a, 1986b, 1988, 1990, 1992a, 1992b, 1993; Hawkeswood & Peterson, 1982; Hawkeswood & Turner, 1992, 1994, 1997a, 1997b; Turner & Hawkeswood, 1994a, 1994b, 1995a, 1995b, 1995c, 1995d, 1995e, 1995f, 1996a, 1996b, 1996c, 1997a, 1997b; Volkovitsh & Hawkeswood, 1987, 1990, 1993, 1994, 1999). Since earlier works on the larval host plants were provided (Hawkeswood & Peterson, 1982) new data from the field have appeared and other references previously overlooked (e.g. Tepper, 1887) have been located which provide additional important data for