



World review of *Laricobius* (Coleoptera: Derodontidae)

RICHARD A. B. LESCHEN

New Zealand Arthropod Collection, Landcare Research, Auckland, New Zealand. E-mail: leschenr@landcareresearch.co.nz

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Abstract

The Holarctic genus *Laricobius* (Derodontidae) is reviewed and a key to the species provided. There are 21 known species and those with known life history are predators of adelgids. The type specimen of *L. minutus* Nikitsky was lost prior to this study and types of *L. caucasicus* Rost were never located, though one specimen which lacks the abdomen is attributed to this species. One new species is described (*Laricobius naganoensis* n. sp.) and lectotypes were designated for *L. erichsonii* Rosenhauer and *L. sahlbergi* Reitter. Europe has one described species, North America 3, and Asia 17. A cladistic analysis, based on 20 species, resulted in two broad groups, one which is confined to south-eastern Asia and Himalaya and has more shortened species with a narrower pronotum lacking explanate margins, and a more widespread Holarctic group, which is more typical of the genus type, being more elongate, with a transverse, fully explanate pronotum. The latter group includes four Asian species without ocelli, collected from *Tsuga* (hemlock) infested with *Adelges tsugae* Anand.

Key words: *Laricobius*, Derodontidae, bio-control, phylogeny