



The Coccidae (Hemiptera: Coccoidea) of Chile, with descriptions of three new species and transfer of *Lecanium resinatum* Kieffer & Herbst to the Kerriidae

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Abstract

Three new species of Coccidae: *Cryptinglisia chilensis* Kondo & Gullan **sp. nov.**, *Pulvinaria drimyswinteri* Kondo & Gullan **sp. nov.**, and *Stictolecanium cranstoni* Kondo & Gullan **sp. nov.**, are described and illustrated. An updated species list and a taxonomic key to the 13 coccid species now known to occur in Chile are provided. *Pulvinariella mesembryanthemi* (Vallot) is newly recorded for Chile. *Lecanium resinatum* Kieffer & Herbst, currently known as *Coccus resinatus* (Kieffer & Herbst), is transferred to the family Kerriidae as *Tachardiella resinata* (Kieffer & Herbst) **comb. nov.**, based on examination of the original German description.

Key words: soft scale insect, *Tachardiella*, taxonomic key, species list

Resumen

Tres nuevas especies de Coccidae: *Cryptinglisia chilensis* Kondo & Gullan **sp. nov.**, *Pulvinaria drimyswinteri* Kondo & Gullan **sp. nov.**, y *Stictolecanium cranstoni* Kondo & Gullan **sp. nov.**, son descritas e ilustradas. Se provee una lista actualizada y una clave taxonómica para las 13 especies de cóccidos que se reportan para Chile. *Pulvinariella mesembryanthemi* (Vallot) es registrada por primera vez para Chile. *Lecanium resinatum* Kieffer & Herbst, actualmente conocida como *Coccus resinatus* (Kieffer & Herbst), se transfiere a la familia Kerriidae como *Tachardiella resinata* (Kieffer & Herbst) **comb. nov.**, basándose en la examinación de la descripción original escrita en alemán.

Introduction

The scale insect (Coccoidea) fauna of Chile is currently composed of 105 species distributed in 11 families, i.e., Asterolecaniidae (3 spp.); Cerococcidae (1 sp.); Coccidae (10 spp.); Conchaspidae (1 sp.); Diaspididae (39 spp.); Eriococcidae (18 spp.); Lecanodiaspididae (1 sp.); Monophlebidae (3 spp.); Margarodidae (2 spp.); Ortheziidae (3 spp.), and Pseudococcidae (24 spp.) (Ben-Dov *et al.*, 2009). There have been recent studies of Chilean armoured scales (e.g., Claps *et al.*, 2001), eriococcids (Kondo *et al.*, 2006; Kozár & Konczné Benedicty, 2008) and mealybugs (e.g., González, 2003a,b; Kozár & Foldi, 2004; Granara de Willink & Szumik, 2007), but no recent taxonomic research on Chilean soft scales (Coccidae) has been done. Very few Coccidae have been described from Chile, although the study of these insects in Chile dates back to 1828, when Gray (1828) described *Coccus* (*Ceroplastes*) *chilensis* Gray (= *Ceroplastes ceriferus* (Fabricius)). Nine of the 10 species of Coccidae recorded from Chile are widespread and polyphagous (Ben-Dov, 2009). One species, *Coccus resinatus* (Kieffer & Herbst), is known only from the original collection in Chile, and was described just over one hundred years ago as *Lecanium resinatum* (Kieffer & Herbst, 1909), but was transferred to the genus *Coccus* Linnaeus by Ben-Dov (1993).