

Four new species of mealybug (Pseudococcidae) and a new species of soft scale (Coccidae: Coccoidea: Hemiptera) from Greenland and redescriptions of a mealybug and a soft scale from Arctic Canada

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Abstract

The adult females of four new mealybug species are described from Greenland (*Atrococcus groenlandensis*, *Chorizococcus multiporus* and *Trionymus bocheri* and *T. elymus*) and a key is provided for all mealybug species known from Greenland; a new species of Coccidae is also described from Greenland (*Pulvinaria glacialis*). In addition, the adult females of the mealybug *Atrococcus altoarcticus* Richards and the soft scale *Pulvinaria ellesmerensis* Richards from arctic Canada are redescribed and compared with their close relatives from Greenland.

Key words: Greenland, arctic Canada, Pseudococcidae, Coccidae, *Atrococcus*, *Chorizococcus*, *Trionymus*, *Pulvinaria*, adult females, key

Introduction

During the past century there have been many expeditions to Greenland surveying the fauna and flora and several of these have brought back Coccoidea, mainly collected in pit-fall traps. To-date, eleven species have been identified, *Arctorthezia cataphracta* (Olafsen) (Ortheziidae); two species of Eriococcidae (*Eriococcus munroi* (Boratynski) and *E. pseudinsignis* Green); a new species of Coccidae (*Pulvinaria glacialis*, described as new below), and seven species of Pseudococcidae: *Peliococcus balteatus* (Green), *Spinococcus calluneti* (Lindinger), *Trionymus thulensis* Green, and four new species, one each in *Atrococcus* and *Chorizococcus*, and two in *Trionymus*. The adult females of all the new species are described and illustrated below. The new species of *Pulvinaria* and *Atrococcus*