

## The adult males of Coccoidea (Hemiptera: Sternorrhyncha) known from Greenland

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### Abstract

The males of nine of the 11 species of Coccoidea known from Greenland are described: 6 of species of Pseudococcidae (*Atrococcus groenlandensis* Gertsson & Hodgson, *Chorizococcus multiporus* Gertsson & Hodgson, *Peliococcus balteatus* (Green), *Trionymus bocheri* Gertsson & Hodgson, *T. elymus* Gertsson & Hodgson, and *T. thulensis* Green), 2 of species of Eriococcidae (*Eriococcus munroi* (Boratynski) and *E. pseudinsignis* Green), and one of Coccidae (*Pulvinaria glacialis* Gertsson & Hodgson). The question of their correct identification is discussed and a key is provided.

**Key words:** Greenland, Coccoidea, males, descriptions, key

### Introduction

As part of a survey and review of the insect fauna of Greenland, the females of the Coccoidea have been studied by Gertsson & Hodgson (2005). In addition, the males of nine of the 11 species now known from Greenland were collected and these are described and illustrated below. This is the first attempt to describe the males of all Coccoidea from a country, although most of the males of the family Coccidae have been described for North America (Miller, 1991; Miller & Williams, 1995, 2002) and for New Zealand (Hodgson & Henderson, 2004). Previous other major works on male Coccoidea are Theron (various families, 1958), Ghauri (Diaspididae, 1962), Giliomee (Coccidae, 1967), and Afifi (Pseudococcidae and Eriococcidae, 1968).

However, the question arises as to the correct identification of these males from Greenland! Species of Coccoidea are almost always described based on female structure and most males are so poorly known that they are unidentifiable. Even when a male is bred from pupae associated with females of a known species, there is still some doubt about the association as more than one species of scale insect is frequently found on a