A review of the Oriental and Australasian *Ptilocera* species
(Diptera: Stratiomyidae)

FRANCO MASON¹ & RUDOLF ROZKOŠNÝ²

¹ Corpo Forestale dello Stato, Centro Nazionale Biodiversità Forestale “Bosco Fontana”, Verona, Via Carlo Ederle 16/a, I – 37100
Verona, Italy. E-mail: fmason@tin.it
² Department of Botany and Zoology, Faculty of Science, Masaryk University, Kotlářská 2, CZ - 61137 Brno, Czech Republic.
E-mail: roz@sci.muni.cz

Table of contents

Abstract ............................................................. 1
Introduction .......................................................... 2
Materials and methods ............................................. 2
*Ptilocera* Wiedemann, 1820 ....................................... 3
Key to species of *Ptilocera* ....................................... 5
  *Ptilocera amethystina* Snellen van Vollenhoven, 1857 ........ 6
  *Ptilocera aureopilosa* sp. nov. ................................ 8
  *Ptilocera bergi* James, 1948 .................................. 8
  *Ptilocera continua* Walker, 1851 ............................... 10
  *Ptilocera kerteszi* sp. nov. .................................... 12
  *Ptilocera paradisea* Lindner, 1951 ............................. 13
  *Ptilocera quadridentata* Fabricius, 1805 ...................... 14
  *Ptilocera simplex* sp. nov. .................................... 15
  *Ptilocera smaragdina* Walker, 1849 ........................... 17
  *Ptilocera violacea* Edwards, 1915 ............................ 19

Acknowledgements .................................................. 21
References .......................................................... 21
Figures ............................................................ 23

Abstract

The species of *Ptilocera* Wiedemann, 1820 are re-examined on the basis of extensive historical as well as recent material from several institutions and a critical evaluation of published records. Ten species are distinguished and three of them, *P. aureopilosa* sp. nov., *P. kerteszi* sp. nov. and *P. simplex* sp. nov. are described as new. *Ptilocera fastuosa* Gerstaecker, 1857, is considered to be a synonym of *P. continua* Walker, 1851, and *P. smaragdifera* Walker, 1859 is interpreted as a synonym of *P. smaragdina* Walker, 1849. Lectotypes are designated for *P. amethystina* Snellen van Vollenhoven, 1857, *P. fastuosa*, *P. quadridentata* (Fabricius, 1805) and *P. smaragdifera*. Seven species (*P. amethystina*, *P. continua*, *P. kerteszi* sp. nov., *P. paradisea* Lindner, 1951, *P. quadridentata*, *P. simplex* sp. nov. and *P. smaragdina*) are mainly confined to the Oriental Region and three to the Australasian Region (*P. aureopilosa* sp. nov., *P. bergi* James, 1948, and *P. violacea* Edwards, 1915). *Ptilocera quadridentata* was introduced to Japan and Fiji, and *P. smaragdina* to New Britain. *P. bergi* is newly recorded from Australia, *P. amethystina*, *P. continua* and *P. quadridentata* from Cambodia, Laos and Vietnam, the first two species also from Myanmar, *P. amethystina* also from Malaysia and Thailand, and *P. continua* also from Nepal and Singapore. Diagnostic characters including terminalia of both sexes are illustrated for all species examined and an identification key is compiled.

**Key words:** Revision, new species, lectotypes, variation, distribution, introduction