



Two new species of *Phora* Latreille (Diptera: Phoridae) from China, with a key to species

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Abstract

Two new species, *Phora rostrata* and *P. concava*, collected in Ningxia, China are described and illustrated. In addition, *P. amplifrons* is reported for the first time in China and a key is provided for the Chinese species of *Phora*.

Key words: Diptera, Phoridae, *Phora*, China

Introduction

The genus *Phora* Latreille, 1796 is a large taxonomic group, comprising 74 living species in the world. They are distributed in the Palaearctic (51 species), Nearctic (15), Oriental (18), Afrotropical (1) and Neotropical regions (3).

In China, 17 living species have been reported. Schmitz (1933) described *Phora capillosa* from south Gansu. Goto (1984) reported *Phora lacunifera* Goto which was represented in Taiwan. Thereafter, Liu and Chou (1994) recognized seven species of *Phora*, including one new species. In recent years, Mostovski (2001) recorded *Phora pubipes* Schmitz from Taiwan and Gotoh (2006) described 15 species of *Phora* from China and neighbouring countries.

In the present paper, two new species, *P. rostrata* and *P. concava*, are described and illustrated. The *P. amplifrons* Goto is reported for the first time from China. A key to the males of the species in China is given. The type specimens are deposited in the College of Biological and Environmental Engineering, Shenyang University, Shenyang, Liaoning Province, China.

Materials and methods

The specimens were collected with sweep nets in the Liu P'an Mountains and put in 75% ethanol vials. The head, hind leg and terminalia were detached and left in cold 10% solution of KOH for several days, then transferred to cavity slide with glycerin for further study. When finished, all specimens examined were transferred to small vials with 75% ethanol. The drawing of the terminalia and frons were made in transmitted light using a Leica DM 2000 microscope with drawing attachment. A right wing mounted on a slide was measured by the method of Disney (1983). The methods for calculating indices which followed that of Goto (1984) and Schmitz (1938) were used in this paper.

Morphological terminology mostly follows that of McAlpine (1981) and Brown (1992). Measurements are given in millimeters.