

Revision of Nearctic *Aleiodes* Wesmael (Part 8): the *coxalis* (Spinola) Species-Group (Hymenoptera: Braconidae, Rogadinae)

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Abstract

The *Aleiodes coxalis* (Spinola) species-group is defined as including the following previously described species: *A. coxalis* (Spinola) 1808, *A. bicolor* (Spinola) 1808, *signatus* (Nees) 1812, *A. alternator* (Nees) 1834, *A. tristis* Wesmael 1838, *A. aciculatus* Cresson 1869, *A. sanctihyacinthi* (Provancher) 1880, *A. arcticus* (Thomson) 1891, *A. incertus* (Kokoujev) 1898, *A. jakolewi* (Kokoujev) 1898, *A. coxator* (Telenga) 1941, *A. incertoides* (Telenga) 1941, *A. satanus* (Telenga) 1941, *A. nunbergi* (Noskiewicz) 1956, *A. negativus* (Tobias) 1961, *A. hellenicus* (Papp) 1985, *A. moldavicus* (Tobias) 1986, *A. itamevorus* Shaw and Marsh 2004, and *A. maritimus* Shaw and Marsh 2004. Nine new North American species are described in this paper: *A. aquilonius* NEW SPECIES, *A. brevis* NEW SPECIES, *A. cultrarius* NEW SPECIES, *A. dichromatus* NEW SPECIES, *A. floridensis* NEW SPECIES, *A. quadratus* NEW SPECIES, *A. shenefelti* NEW SPECIES, *A. whartoni* NEW SPECIES, and *A. wyomingensis* NEW SPECIES. The *A. coxalis* species group is regarded as monophyletic as distinguished by the rugose vertex and sculptured fourth metasomal tergum. An identification key, descriptions, illustrations, distribution and biological information are provided for thirteen North American species.

Key words: Hymenoptera, Braconidae, *Aleiodes*, parasitoids, new species

Introduction

The parasitoid wasp genus *Aleiodes* Wesmael is of global distribution but is especially species-rich in the Holarctic Region. *Aleiodes* is quite diversified in the Nearctic region, having at least 90 species in the United States and Canada (S. Shaw *et al.* 1997). This