

Additions to monograph of Cerretti *et al.*, 2020: The world woodlouse flies (Diptera, Rhinophoridae)

Yuriy Verves

Department of Ecological Monitoring, Institute for Evolutionary Ecology, National Academy of Sciences of Ukraine, Kyiv, Ukraine, Academician Lebedev Str. 37, Kyiv, Ukraine, 03143.

(Email: yuryverves@gmail.com)

Abstract

Recently presented faunistics' data omitted in the monograph (Cerretti *et al.*, 2020) are given for 23 woodlouse flies' (Diptera: Rhinophoridae) species according to 28 literary sources, including 15 those are not indicated in the monograph.

Keywords: *Rhinophoridae*, word catalog, additions, corrections.

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Introduction

Rhinophoridae (Diptera: Calyptrata) comprises of 33 genera and 177 species worldwide (Cerretti *et al.*, 2020). The larvae are obligate endoparasitoids of woodlice (terrestrial Isopoda, Malacostraca, Crustacea). The eggs deposited on the soil hatch and the 1st instar larva attaches itself to the body of a passing woodlouse. The larva may waves its anterior end slowly forward and sideward in an attempt to attach itself to the body of a passing woodlouse (Bedding, 1973; Bürgis, 1991a, b, 1992a, b; Pape and Arnaud, 2001; Wood *et al.*, 2018). Adults often visit flowers; some species may be trapped in great numbers by yellow dishes, found on foliage or sitting on tree trunks and may be captured by Malaise traps, on vertebrate carcasses or they emerge from heaps of decaying wood (Petanidou, 1991; Verves *et al.*, 2019).

Materials and Methods

The complex revisions of high ranges' systematic groups (families, etc.) determine the direction of the study of these taxa for many decades to come. Therefore, all data in such publications should be as complete as possible. Unfortunately, a comparison of the materials of the species catalog (Cerretti *et al.*, 2020) with previously published data showed a number of drawbacks. This is an incomplete reflection of the data of the cited works and the lack of information on a number of important faunistics' publications (Villeneuve,

1929; Sassaman and Garthwaite, 1984; Hedström, 1988; Petanidou, 1991; Zeegers and Veen, 1993; Pape *et al.*, 1995; González, 1998; Menzel and Ziegler, 2002; Dumčius and Pakalniškis, 2004; Verves, 2004; Sharkey, 2005; Pakalniškis *et al.*, 2006; Zeegers, 2009; Pohjoismäki and Kahanpää, 2014; Koçak and Kemal, 2015) in the list of references. Below are the necessary additions that are not in the catalog for the use of the faunal data of the peer-reviewed work.

Results

1. *Baniassa fenestrata* Zeegers, 2008. Afrotropical: Yemen (Zeegers, 2008).
2. *Bezzimyia bulbosa* Pape and Arnaud, 2001. Nearctic: USA: Florida, Texas (Peris and González-Mora, 2007). Neotropical: Panama (Peris and González-Mora, 2007).
3. *Bezzimyia busckii* Townsend, 1919. Neotropical: Colombia (Sharkey, 2005).
4. *Bezzimyia thompsonorum* Pape and Arnaud, 2001. Nearctic: USA: Texas (Pape and Arnaud, 2001).
5. *Melanophora roralis* (Linnaeus, 1758). Nearctic: USA: North Carolina (Sassaman and Garthwaite, 1984). Neotropical: Chile: Chacabuco, Elqui, Llanquihue (González, 1998); Virgin Is.: St. Thomas I. (Crosskey, 1977). Palaearctic: Finland (Pohjoismäki and

- Kahanpää, 2014); Lithuania (Dumčius and Pakalniškis, 2004; Pakalniškis *et al.*, 2006); Madeira (Peris and González-Mora, 2007); Serbia (Fauna europaea) instead of former “Yugoslavia” in Cerretti *et al.*, 2020.
6. *Oplisa aterrima* Strobl, 1899. Palaearctic: Malta (Ebejer, 2011).
 7. *Oplisa oldenbergi* (Herting, 1961). Palaearctic: Bulgaria (Zeegers, 2011); The Netherlands (Zeegers and Veen, 1993).
 8. *Oplisa pollinosa* Kugler, 1978. Palaearctic: Palestinian Authority (Koçak and Kemal, 2015); Syria: Golan Heights (Kugler, 1978).
 9. *Oplisa tergestina* (Schiner, 1862). Palaearctic: The Netherlands (Zeegers and Veen, 1993); Ukraine: Donetsk (Verves, 2005).
 10. *Paykullia brevicornis* (Zetterstedt, 1844). Palaearctic: Finland (Pohjoismäki and Kahanpää, 2014).
 11. *Paykullia kugleri* (Herting, 1961). Palaearctic: Palestinian Authority (Kugler, 1978); Syria: Holan heights (Kugler, 1978).
 12. *Paykullia maculata* (Fallén, 1815). Palaearctic: Finland (Pohjoismäki and Kahanpää, 2014); Lithuania (Dumčius and Pakalniškis, 2004; Pakalniškis *et al.*, 2006); Russia: Moscow (Internet-2013), Ukraine: Kyiv (Verves, 2004).
 13. *Paykullia nubilipennis* (Löw, 1847). Palaearctic: France: mainland (Herting, 1961).
 14. *Phyto abbreviata* Villeneuve, 1920. Palaearctic: Egypt: Mariout (Villeneuve, 1929).
 15. *Phyto adolescens* Rondani, 1861. Palaearctic: Greece (Petanidou, 1991). Comments: Cerreretti *et al.*, 2020: 87, treated this species as “firstly recorded” for Greece.
 16. *Phyto cingulata* (Zetterstedt, 1844): Palaearctic: Germany (Dunk, 1999).
 17. *Phyto discrepans* Pandellé, 1896: Palaearctic: Germany (Herting, 1961); The Netherlands (Zeegers and Veen, 1993); Ukraine: Cherekasy (Verves, 2005), Crimea (Verves, 2005), Luhansk (Verves, 2005). Australasian: introduced to New Zealand (Peris and González-Mora, 2007).
 18. *Phyto fernandezyepezi* Baez, 1988: Palaearctic: Canary Is.: Tenerife (Peris and González-Mora, 2007).
 19. *Phyto melanocephala* (Meigen, 1824): Palaearctic: Sweden (Hedström, 1988); Russia: “Central European Territory”; misidentification; correctly: South European Territory: Krasnodar (Verves, 2005).
 20. *Phyto similis* Stein 1924: Palaearctic: The Netherlands (Zeegers and Veen, 1993).
 21. *Rhinomorinia sarcophagina* (Schiner, 1862): Palaearctic: Lithuania (Dumčius and Pakalniškis, 2004; Pakalniškis *et al.*, 2006).
 22. *Rhinomorinia verticalis* Crosskey, 1977: Afrotropical: South Africa: KwaZulu-Natal (Peris and González-Mora, 2007).
 23. *Rhinophora lepida* Meigen, 1824 Palaearctic: Austria (Menzel and Ziegler, 2002); Italy [incorrectly as ‘firstly recorded’]: mainland (Pape *et al.*, 1995); Israel (Kugler, 1978); Ukraine: Poltava (Verves and Khrokalo, 2010), Sumy (Verves and Khrokalo, 2010).

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