

NEW RECORDS OF ROBBER FLIES
(DIPTERA: ASILIDAE) FROM BELARUSV. V. SAKHVON^a^aBelarusian State University, Niezaliežnasci Avenue, 4, 220030, Minsk, Belarus

New records of robber flies (Diptera: Asilidae) from Belarus are presented, with new distribution records for 18 species: *Leptogaster cylindrica* (De Geer, 1776), *L. guttiventris* Zetterstedt, 1842, *Antipalus varipes* (Meigen, 1820), *Asilus crabroniformis* Linnaeus, 1758, *Dysmachus trigonus* (Meigen, 1804), *Echthistus rufinervis* (Meigen, 1820), *Erax barbatus* Scopoli, 1763, *Neomochtherus pallipes* (Meigen, 1820), *Pamponerus germanicus* (Linnaeus, 1758), *Tolmerus atricapillus* (Fallen, 1814), *T. cingulatus* (Fabricius, 1781), *Choerades marginata* (Linnaeus, 1758), *Dioctria atricapilla* Meigen, 1804, *D. hyalipennis* (Fabricius, 1794), *D. oelandica* (Linnaeus, 1758), *D. rufipes* (De Geer, 1776), *Cyrtopogon lateralis* (Fallén, 1814) and *Lasiopogon cinctus* (Fabricius, 1781). One subfamily: Stenopogoninae and two species: *Dysmachus trigonus* (Meigen, 1804) and *Cyrtopogon lateralis* (Fallén, 1814) are recorded from Belarus for the first time. So, at present moment the fauna of robber flies of Belarus includes 38 species.

Key words: robber flies; fauna; Belarus; Asilidae; new records.

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НОВЫЕ НАХОДКИ КТЫРЕЙ
(DIPTERA: ASILIDAE) В БЕЛАРУСИВ. В. САХВОН¹⁾¹⁾Белорусский государственный университет, пр. Независимости, 4, 220030, г. Минск, Беларусь

Приведены новые данные по видовому составу и распространению ктырей (Diptera: Asilidae) в условиях Беларуси: *Leptogaster cylindrica* (De Geer, 1776); *L. guttiventris* Zetterstedt, 1842; *Antipalus varipes* (Meigen, 1820); *Asilus crabroniformis* Linnaeus, 1758; *Dysmachus trigonus* (Meigen, 1804); *Echthistus rufinervis* (Meigen, 1820); *Erax barbatus* Scopoli, 1763; *Neomochtherus pallipes* (Meigen, 1820); *Pamponerus germanicus* (Linnaeus, 1758); *Tolmerus atricapillus* (Fallen, 1814); *T. cingulatus* (Fabricius, 1781); *Choerades marginata* (Linnaeus, 1758); *Dioctria atricapilla* Meigen, 1804; *D. hyalipennis* (Fabricius, 1794), *D. oelandica* (Linnaeus, 1758); *D. rufipes* (De Geer, 1776); *Cyrtopogon lateralis* (Fallén, 1814) and *Lasiopogon cinctus* (Fabricius, 1781). Подсемейство Stenopogoninae, а также два вида – *Dysmachus trigonus* (Meigen, 1804) и *Cyrtopogon lateralis* (Fallén, 1814) – являются новыми для территории Беларуси. К настоящему времени фауна ктырей Беларуси представлена 38 видами.

Ключевые слова: ктыри; фауна; Беларусь; Asilidae; новые регистрации.

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Introduction

The Asilidae is one of the largest families of Diptera, with over 7500 species in 555 genera [1]. By now 36 species have been recorded in Belarus [2–7]. For comparison, 30 species were recorded from Latvia [8], 35 species from Lithuania [9], about 50 species from the European part of Russia [10]. The present paper reviews the new data on the species of robber flies and their distribution in Belarus.

Materials and methods

The present study is based on the material collected by the author in 2015–2016. Robber flies were collected mostly by sweep net in preferable sites of robber flies. The author's material is deposited at the Department of Zoology of Belarusian State University, Minsk, Belarus. If the depository of the material is not indicated, it means that the specimens are kept at this institution. If the collector is not specified it means that this specimens are collected by author. Additionally the collections in the Institute of Biology and Soil Sciences, Vladivostok, Russia (IBSS) were examined. The species were identified mostly using the keys by Richter [10] and Geller-Grimm [11]. The classification and nomenclature follows Geller-Grimm [12]. The new records are asterisked (*).

Results and discussion

Family ASILIDAE

Subfamily Leptogasterinae

Leptogaster cylindrica (De Geer, 1776)

Material examined. **Brest Prov.:** Ivatsevichi Distr., near Koziki vill., 52°38'20.81" N and 25°30'0.01" E, 18.07.2015, 1 ♀; Luninets Distr., near Mikashevichi, 52°12'25.84" N and 27°27'39.07" E, polder, on herbs, 07.06.2015, 1 ♀; same place, 25.07.2015, 1 ♂, 3 ♀.

Notes. This species was recorded from *Brest and Minsk Prov. and should be distributed in Belarus everywhere [7].

Leptogaster guttiventris Zetterstedt, 1842

Material examined. **Minsk Prov.:** Dzerzhinsk Distr., near Staraya Mezenovka vill., 53°32'11.93" N and 26°58'40.71" E, pine clearing, 06.08.2016, 1 ♀.

Notes. This species was recorded from Minsk (the record is the most southern one for species) and Vitebsk Prov. [7; 13].

Subfamily Asilinae

Antipalus varipes (Meigen, 1820)

Material examined. **Brest Prov.:** near Pinsk, 22–23.07.1970, 2 specimens (A. Lelej); same place, 28.07–02.08.1979, 8 specimens (A. Lelej); same place, 10–22.07.1987, 6 specimens (A. Lelej) (all material – in IBSS); **Minsk Prov.:** Dzerzhinsk Distr., near Staraya Mezenovka vill., 53°32'28.95" N and 26°58'7.23" E, pine clearing, on herbs and logs, 06.08.2016, 1 ♂; Molodechno Distr., near Udranka vill., 25.07.2016, 1 ♂ (D. Petrov).

Notes. This species was recorded from *Brest and *Minsk Prov. It should be noted that this species was previously recorded from Belarus by P. Lehr [14] but without label data.

Asilus crabroniformis Linnaeus, 1758

Material examined. **Brest Prov.:** Luninets Distr., near Mikashevichi, 52°12'25.84" N and 27°27'39.07" E, polder, on sandy road, 20–21.08.2015, 2 ♂.

Notes. This species was recorded from Brest (the record in Luninets Distr. is the most southeastern one for species), Minsk, Mogilev and Vitebsk Prov. [2; 4; 5; 7] and should be distributed in Belarus everywhere.

**Dysmachus trigonus* (Meigen, 1804)

Material examined. **Brest Prov.:** Bereza Distr., 52°37'33.99" N and 24°47'8.98" E, near Zubachi vill., meadow near Selets Pond, on herbs, 24.05.2016, 1 ♂, 1 ♀; Ivatsevichi Distr., near Chemely vill., 52°46'27.80" N and 25°32'22.34" E, dry meadow, on herbs, 29.05.2016, 2 ♂, 2 ♀; near Ivatsevichi, 52°43'33.11" N and 25°22'7.27" E, 30.05.2015, 3 ♂, 3 ♀ (some in copula).

Notes. This species was recorded from *Belarus (*Brest Prov.) for the first time.

Echthistus rufinervis (Meigen, 1820)

Material examined. **Brest Prov.:** near Pinsk, 16.06.1973, 1 ♂, 1 ♀ (A. Lelej) (IBSS).

Notes. This species was recorded from *Brest, Mogilev and Vitebsk Prov. [2; 7].

***Erax barbatus* Scopoli, 1763**

Material examined. **Gomel Prov.:** Zhitkovichi distr., near Lenin vill., 52°22'39" N and 27°27'46" E, 03.04.2016, pine forest, on sandy road, 2 ♂, 1 ♀.

Notes. This species was recorded from Minsk and *Gomel Prov. [7].

***Neomochtherus pallipes* (Meigen, 1820)**

Material examined. **Grodno Prov.:** Smorgon, 17.07.2015, 1 ♂ (A. Roginsky).

Notes. This species was recorded from Brest, *Grodno and Minsk Prov. and should be distributed in Belarus everywhere [7; 14].

***Pamponerus germanicus* (Linnaeus, 1758)**

Material examined. **Vitebsk Prov.:** Dokshitsy Distr., near Stanislavtsy vill., 01–05.06.2016, edge of mixed forest with pine and field, 2 ♀.

Notes. This species was recorded from Brest, Minsk, Mogilev and *Vitebsk Prov. and should be distributed in Belarus everywhere [2; 4; 7].

***Tolmerus atricapillus* (Fallén, 1814)**

Material examined. **Brest Prov.:** Kobrin Distr., near Radostovo vill., 31.07.2016, 1 ♀ (A. Roginsky); **Grodno Prov.:** Grodno, Kolozhskii Park, on leaves of *Syringa vulgaris*, 10.07.2015, 1 ♂, 1 ♀ (F. Sautkin); Smorgon Distr., near Selets vill., 21.07.2015, 1 ♀ (S. Buha).

Notes. This species was recorded from Brest (the record in Kobrin Distr. is the most western one for Brest Prov.), Minsk, *Grodno and Vitebsk Prov. and should be distributed in Belarus everywhere [6; 7].

***Tolmerus cingulatus* (Fabricius, 1781)**

Material examined. **Grodno Prov.:** Grodno, Kolozhskii Park, on leaves of *Syringa vulgaris*, 10.07.2015, 2 ♂ (F. Sautkin); Lida, 16.07.2015, 1 ♂ (A. Roginsky); **Vitebsk Prov.:** Gorodok Distr., near Mininy vill., 28.08.2016, 1 ♂ (A. Roginsky).

Notes. This species was recorded from Brest, Minsk, *Grodno and Vitebsk Prov. (the record in Gorodok Distr. is the most northern one for Belarus) and should be distributed in Belarus everywhere [7].

Subfamily Laphriinae

***Choerades marginata* (Linnaeus, 1758)**

Material examined. **Vitebsk Prov.:** Gorodok Distr., near Astapkovichi vill., 28.08.2016, 1 ♂ (A. Roginsky).

Notes. This species was recorded from Brest, Minsk and Vitebsk Prov. (the record in Gorodok Distr. is the most northern one for Belarus) and should be distributed in Belarus everywhere [7].

Subfamily Dioctriinae

***Dioctria atricapilla* Meigen, 1804**

Material examined. **Vitebsk Prov.:** Dokshitsy Distr., near Stanislavtsy vill., 01–05.06.2016, edge of mixed forest with pine and field, 1 ♂, 1 ♀.

Notes. This species was recorded from Brest, Minsk, Mogilev and *Vitebsk Prov. and should be distributed in Belarus everywhere [2; 7].

***Dioctria hyalipennis* (Fabricius, 1794)**

Material examined. **Grodno Prov.:** Grodno, Kolozhskii Park, on leaves of *Syringa vulgaris*, 10.07.2015, 1 ♀ (F. Sautkin); **Mogilev Prov.:** Kostyukovichy, on *Salix* sp., 10.06.2016, 1 ♂ (A. Roginsky); **Vitebsk Prov.:** Chashniki Distr., near Marinty vill., 26.07.2015, 1 ♂ (A. Roginsky).

Notes. This species was recorded from Brest, *Grodno, Minsk, *Mogilev and Vitebsk Prov. (the record in Chashniki Distr. is the most northern one for Belarus) and should be distributed in Belarus everywhere [5–7].

***Dioctria oelandica* (Linnaeus, 1758)**

Material examined. **Brest Prov.:** near Ivatsevichi, 52°43'33.11" N and 25°22'7.27" E, edge of mixed forest with pine, on leaves of *Urtica* sp., 28.05.2016, 2 ♂; **Minsk Prov.:** Minsk (near Roshcha railway station), spruce-dominated forest, on herbs, 07.06.2016, 1 ♂.

Notes. This species was recorded from Brest (the record in Ivatsevichi Distr. is the most western one for Belarus) and *Minsk Prov. [7].

***Dioctria rufipes* (De Geer, 1776)**

Material examined. **Minsk Prov.:** Volozhin Distr., near Yatskovo-Zamostnye vill., 53°59'2.55" N and 26°41'1.52" E, meadow of Isloch Riv., on leaves of *Urtica* sp., 31.05.2016, 1 ♂.

Notes. This species was recorded from Brest, *Minsk and Vitebsk Prov. [3; 5; 7].

Subfamily Stenopogoninae

****Cyrtopogon lateralis* (Fallén, 1814)**

Material examined. **Brest Prov.:** Luninets Distr., near Mikashevichi, 52°12'20.49" N and 27°27'13.38" E, floodplain oak forest, on oak logs, 06.06.2015, 2 ♂, 1 ♀; **Minsk Prov.:** Uzda Distr., near Zenkovichi vill., 53°32'49.80" N and 27°15'12.48" E, oak-hornbeam clearing, on oak logs, 1 ♂, 1 ♀ (A. Pisanenko).

Notes. This species was recorded from *Belarus (*Brest and *Minsk Prov.) for the first time.

Subfamily Stichopogoninae

***Lasiopogon cinctus* (Fabricius, 1781)**

Material examined. **Gomel Prov.:** Zhitkovichi distr., near Lenin vill., 52°21'25.15" N and 27°27'14.47" E, pine clearing, 30.04.2016, 2 ♂, 2 ♀.

Notes. This species was recorded from Brest, *Gomel and Minsk Prov. and should be distributed in Belarus everywhere [5; 7].

So, new distribution data 18 species are presented above. Among them, one subfamily: Stenopogoninae and two species: *Dysmachus trigonus* (Meigen, 1804) and *Cyrtopogon lateralis* (Fallén, 1814) are newly recorded from Belarus. According with these data the fauna of robber flies of Belarus includes 38 species.

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