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**FURTHER RECORDS OF EPHYDRIDAE (DIPTERA) FROM THE
REPUBLIC OF MORDOVIA (EUROPEAN RUSSIA)**

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Summary. An annotated list of 63 species of Ephydridae from the Republic of Mordovia (Russia) is given, of them *Allotrichoma schumanni* Papp, 1974, *Diasemocera bornholmi* (Becker, 1926), *Ditrichophora strandi* (Duda, 1942), *Hydrellia porphyrops* Haliday, 1839, *Hydrellia subalbiceps* Collin, 1966, *Parydra mitis* (Cresson, 1930), *Philygria femorata* (Stenhammar, 1844), and *Ptilomyia orsovana* (Enderlein, 1922) are recorded from Russia for the first time. Additional 31 species are first records for republic. Nowadays, totally 74 species of Ephydridae are known from the Republic of Mordovia.

Key words: Diptera, shore flies, biodiversity, fauna, new records, Europe.

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Резюме. Приведен список 63 видов Ephydridae (Diptera) из Республики Мордовия (Россия). *Allotrichoma schumanni* Papp, 1974, *Diasemocera bornholmi* (Becker, 1926), *Ditrichophora strandi* (Duda, 1942), *Hydrellia porphyrops* Haliday, 1839, *Hydrellia subalbiceps* Collin, 1966, *Parydra mitis* (Cresson, 1930), *Philygria femorata* (Stenhammar, 1844) и *Ptilomyia orsovana* (Enderlein, 1922) являются первыми указаниями для фауны России, а 31 вид впервые приводится для республики. В настоящее время из Республики Мордовия достоверно отмечено 74 вида Ephydridae.

INTRODUCTION

Shore flies (Ephydridae) belong to the acalyptrate dipterans (Diptera) and are one of the more species-rich families with around 2000 known species worldwide (Mathis et al., 2021). Shore flies are mostly small species of less than 5 mm. They can occur in large numbers in suitable places. Most shore flies live in wetlands where larvae feed on algae, decomposing organic plant material or phytophagous in plants. They might be the dominant insect species at sparsely vegetated shores of lakes or rivers. Several species are adapted to the hyaline conditions (Shayhutdinova & Krivosheina 2020, Yakovleva et al., 2024). Specific information on the lifestyle of shore flies (both adults and larvae) is available only for a few species. Overall, shore flies belong to the less studied dipteran families.

At least 200 species of Ephydriidae are known in Russia (Nartshuk, 2003) but this clearly underestimates the number of Russian shore flies, which might be distinctly more than 300. Since the work of Nartshuk, numerous new faunistic records was published and several new species have been described, in particular by Marina Krivosheina and colleagues (Gavrushin & Krivosheina, 2010; Krivosheina, 2009a, 2009b, 2010, 2012a, 2012b, 2018, 2022, 2023; Krivosheina & Ozerov 2015, 2020, 2021, 2022, 2025; Krivosheina *et al.*, 2024). This proves that knowledge of the taxonomy and faunistics of the Ephydriidae of Russia is currently still inadequate.

Plavil'schikov (1964) gives the earliest records of shore flies from the Republic of Mordovia. Additions made by MacGowan *et al.* (2021) and Esin *et al.* (2023). A total of 35 shore flies species are reported for Mordovia in these works. The aim of the present work is to report further recent findings from the area and to complete the species spectrum.

MATERIAL AND METHODS

Material was collected 2021–2023 with Malaise traps, hand netting, pitfall traps, yellow pan traps and afterwards stored in alcohol. Few specimens were afterwards dried. Specimens stored in the collection of J.-H. Stuke were placed in a microvial filled with glycerine. The following literature was used to identify the samples: *Allotrichoma* (Stuke, 2022a), *Athyroglossa* (Stuke, 2021a), *Axysta* (Stuke, 2022b), *Clanoneurum* (Canzoneri & Meneghini, 1983), *Cnestrum* (Becker, 1926), *Coenia* (Stuke, 2022c), *Diasemocera* (Zatwarnicki, 2018), *Dichaeta* (Drake, 2001), *Discocerina* (Zatwarnicki & Mathis, 2001), *Discomyza* (Zatwarnicki & Mathis, 2007), *Ditrichophora* (Stuke, 2010a; Zatwarnicki, 2022), *Gymnoclasiopa* (Stuke, 2010a; Zatwarnicki, 2022), *Hyadina* (Stuke, 2024), *Hydrellia* (Collin, 1966; Stuke, 2010a, b; Zatwarnicki, 2022), *Limnelli* (Andersson, 1971), *Nostima* (Gavrushin & Krivosheina, 2010), *Notiphila* (Drake, 2001), *Ochthera* (Irwin, 1985), *Paracoenia* (Mathis, 1975), *Parydra* (Stuke, in preparation), *Pelina* (Krivosheina, 1992), *Philotelma* (Mathis *et al.*, 2009), *Philygria* (Hollmann-Schirmacher, 1998), *Polytrichophora* (Stuke, 2021c), *Psilopa* (Stuke, 2010b; Zatwarnicki, 2018), *Ptilomyia* (Stuke, 2021b; Zatwarnicki, 2022), *Scatella* (Olafsson, 1991; Zatwarnicki & Irwin, 2018; Stuke, 2014), *Scatophila* (Stuke, in preparation), *Setacera* (Krivosheina & Ozerov, 2020), Stuke, 2025). Some or all females of the genera *Allotrichoma*, *Coenia*, *Diasemocera*, *Hydrellia*, *Notiphila*, *Philygria* and *Scatophila* could not be identified. Nomenclature has been checked against the original descriptions. For examination of the male terminalia the abdomen was dissected, macerated for about 4 hours in an aqueous solution of sodium hydroxide NaOH(aq) before being neutralized with acetic acid CH₃–COOH. The material is deposited in the collection in the Mordovia State Nature Reserve (Republic of Mordovia, Russia), and in the private collection of J.-H. Stuke.

New for the region records are asterisked (*). New for the fauna of Russia species is double asterisked (**). The following abbreviations are used: MSNR – Mordovia State Nature Reserve, NPS – National Park “Smolny”, distr. – distr., spec. – specimen. The following abbreviations are used for collectors: AR – A.B. Ruchin; ME – M.N. Esin; GS – G.B. Semishin; KT – K.P. Tomkovich.

LIST OF SPECIES

****Allotrichoma filiforme* Becker, 1896**

MATERIAL. Atyurevo district, 1 km west of Atyurevo village, 54.3153°N, 43.3817°E, quarry, 7–11.IV 2023, 1♂, ME; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 17–29.VIII 2022, 2♂, GS.

DISTRIBUTION. Palearctic.

*****Allotrichoma schumanni* Papp, 1974**

MATERIAL. NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 1–5.VIII 2022, 1♂, GS.

DISTRIBUTION. Europe.

***Athyroglossa glabra* (Meigen, 1830)**

MATERIAL. Kovylkino district, 4 km north of Pervomaisky settlement, 54.1565°N, 44.0478°E, 8–14.IX 2021, 1♀, ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

****Axysta cesta* (Haliday, 1833)**

MATERIAL. Zubova Polyana district, 12 km north of Potma settlement, 54.1903°N, 42.8966°E, 3–15.VIII 2021, 1♂, 1♀, ME; Tengushevo district: 14 km west of Barashevo settlement, 54.5375°N, 42.7358°E, 23–26.VII 2021, 1♂, ME; 2 km north-west of Ivanovka village, 54.673°N, 42.828°E, 9–13.VII 2021, 1♀, ME; Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 1♂, ME.

DISTRIBUTION. Europe.

****Clanoneurum cimiciforme* (Haliday, 1855)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 25–31.V 2021, 1♀, AR, ME.

DISTRIBUTION. Palearctic.

NOTE. This species is considered halophilic in Western Europe (personal observation Stuke). However, in our studies, it was recorded near a freshwater reservoir.

****Cnestrum lepidopes* Becker, 1896**

MATERIAL. Zubova Polyana district, 12 km north of Potma settlement, 54.1903°N, 42.8966°E, 3–15.VIII 2021, 1♀, ME; Tengushevo district: Aleksandrovka village, 54.7068°N, 42.8136°E, Alnetum urticosum, 13–16.VII 2021, 2♂, 2♀, ME; Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 1♀, ME.

DISTRIBUTION. Palearctic.

***Coenia curvicauda* (Meigen, 1830)**

MATERIAL. Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 2♂, ME; Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 4♂, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, ME; Zubova Polyana district: 3 km south of Molochnitsa settlement, 54.2138°N, 42.8778°E, 3–15.VIII 2021, 1♂, ME; Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 2♂, ME; MSNR: Pushta settlement, 54.7055°N, 43.2235°E, meadow, 21–25.VIII 2023, 2♂, KT; Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 1♂, KT.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Coenia palustris* (Fallen, 1823)**

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

****Coenia vulgata* Krivosheina, 2001**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 1♂, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 6♂, ME.

*****Diasemocera bornholmi* (Becker, 1926)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 22–25.VI 2021, 1♂, AR, ME; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 24.VI–5.VII, 24–29.VIII 2022, 2♂, 1♀, GS.

DISTRIBUTION. Europe.

NOTE. It is registered in two places (in a clearing near a reservoir and on the edge of a pine forest).

***Diasemocera glabricula* (Fallén, 1813)**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 44♂, 69♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 13♂, 26♀, ME; MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 25–31.V 2021, 1♀, AR, ME.

DISTRIBUTION. Europe. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

****Diasemocera leucostoma* (Meigen, 1830)**

MATERIAL. Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, 2♀, ME.

DISTRIBUTION. Holarctic.

***Diasemocera marginella* (Fallén, 1823)**

MATERIAL. Atyashevo district, 2.5 km south-west of Alasheevka village, 54.6158°N, 46.1806°E, forest belt along agrofields, 16.VII–16.VIII 2022, 1♂, SL; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 23.V–7.VI, 5–12.VII, 12–24.VIII 2022, 2♂, 6♀, GS.

DISTRIBUTION. Europe. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

NOTE. It is registered in soil traps on the border of the agroecosystem and the windproof forest strip, as well as in the Malaise trap on the edge of the pine forest.

***Diasemocera maritima* (Perris, 1847)**

DISTRIBUTION. Europe. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Dichaeta caudata* (Fallén, 1813)**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 102♂, 220♀, ME; Aleksandrovka village, 54.7068°N, 42.8136°E, Alnetum urticosum, 13–16.VII 2021, 1♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 79♂, 116♀, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 19–21.VII, 30.VII–2.VIII.2021, 2♂, AR, ME; cordon Valzenskiy, 54.7184°N, 43.2369°E, pond, 24–27.VIII 2023, 1♂, 7♀, KT; Pushta settlement, 54.7055°N, 43.2235°E, meadow, 21–25.VIII 2023, 3♀, KT; Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 1♀, KT; NPS, sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII 2022, 1♀, GS.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Discocerina obscurella* (Fallén, 1813)**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 3♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 3♂, 5♀, ME.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

****Discomyza incurva* (Fallén, 1823)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 25–31.V, 12–15.VII, 21–27.VII 2021, 3♀, AR, ME; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 11–15.VI, 19–24.VI, 5–12.VII, 1–5.VIII, 9–13.IX 2021, 3♂, 2♀, GS.

DISTRIBUTION. Holarctic.

****Ditrichophora fuscella* (Stenhammar, 1844)**

MATERIAL. Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 1♂, 6♀, ME; Tengushevo district: 2 km north-west of Ivanovka village, 54.673°N, 42.828°E, 9–13.VII 2021, 1♀, ME; 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 1♀, ME; Aleksandrovka village, 54.7068°N, 42.8136°E, Alnetum urticosum, 13–16.VII 2021, 2♂, 2♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 2♂, 1♀, ME; Zubova Polyana district, 12 km north of Potma settlement, 54.1903°N, 42.8966°E, 3–15.VIII 2021, 1♀, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 2–5.VIII 2021, 1♂, AR, ME; Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 2♂, 9♀, KT; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 24.VI–5.VII, 20–28.VII, 9–13.IX 2022, 3♀, GS; sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII 2022, 1♀, GS.

DISTRIBUTION. Palearctic.

*****Ditrichophora strandi* (Duda, 1942)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 15–19.VII 2021, 1♀, AR, ME; Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♀, ME.

DISTRIBUTION. Europe.

***Ephydra scholtzi* Becker, 1896**

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Gymnoclasiopa nigerrima* (Strobl, 1893)**

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

****Gymnoclasiopa pulchella* (Meigen, 1830)**

MATERIAL. MSNR, Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 1♀, KT.

DISTRIBUTION. Palearctic.

***Hyadina guttata* (Fallén, 1813)**

MATERIAL. Atyurevo district, Novochadovo village, 54.3819°N, 43.3430°E, meadow gully, 7–11.IV 2023, 1♀, ME; Temnikov district, 1 km south-east of Dasaev village, 54.5520°N, 43.3839°E, abandoned lands, 7–11.IV 2023, 1♂, ME; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, mixed forest, 23.06–12.VII 2022, 1♂, GS; Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII 2022, 1♀, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Hyadina rufipes* (Meigen, 1830)**

MATERIAL. NPS, Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII.2022, 2♂, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Hyadina vernalis* (Robineau-Desvoidy, 1830)**

MATERIAL. Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♀, ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Hydrellia albifrons* (Fallén, 1813)**

MATERIAL. MSNR, Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 5♂, KT; Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

****Hydrellia albilabris* (Meigen, 1830)**

MATERIAL. Atyurevo district, Novochadovo village, 54.3819°N, 43.3430°E, meadow gully, 7–11.IV 2023, 2♂, 6♀, ME; Kovytkino district: 4 km north of Pervomaisky settlement, 54.1565°N, 44.0478°E, 8–14.IX 2021, 2♀, ME; 7 km south-east of Kochelaev village, 53.9881°N, 44.1198°E, 8–14.IX 2021, 7♂, 3♀, ME; Temnikov district: 2 km north of Babeevo village, 54.5871°N, 43.2279°E, floodplain meadow, 6–09.VII 2021, 1♀, ME; 3 km north of Klemeshchey, 54.6067°N, 42.8412°E, 9–13.VII 2021, 1♂, ME; Klemeshchey village, 54.5715°N, 42.8671°E, 9–13.VII 2021, 4♂, 7♀, ME; Tengushevo district: 2 km north-west of Ivanovka village, 54.673°N, 42.828°E, 9–13.VII 2021, 1♂, 2♀, ME; 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 3♂, 4♀, ME; 3 km south of Molochnitsa settlement, 54.2138°N, 42.8778°E, 3–15.VIII 2021, 3♂, 4♀, ME; Aleksandrovka village, 54.7060°N, 42.8130°E, betuletum herbosum, 13–16.VII 2021, 1♂, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 4♂, 1♀, ME; Zubova Polyana district, Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 2♂, 2♀, ME; Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 1♂, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 15–19.VII, 2–15.VIII, 28–31.VIII, 13–16.IX 2021, 3♂, 3♀, AR, ME; Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 5♂, 6♀, KT; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 26.IV–11.V, 15–20.VII, 1–5.VIII 2022, 1♂, 2♀, GS.

DISTRIBUTION. Holarctic.

NOTE. The biotopes of registration of this species are diverse. It has been repeatedly found near bodies of water (lakes, ponds) and in floodplain meadows. However, it is also found far from reservoirs at a distance of 6–7 km.

****Hydrellia fulviceps* (Stenhammar, 1844)**

MATERIAL. Zubova Polyana district, Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 1♂, ME.

DISTRIBUTION. Palearctic.

***Hydrellia griseola* (Fallén, 1813)**

MATERIAL. Kovytkino district, 4 km north of Pervomaisky settlement, 54.1565°N, 44.0478°E, 8–14.IX 2021, 1♂, ME; Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 3♂, ME; Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, ME; Zubova Polyana district, 12 km north of Potma settlement, 54.1903°N, 42.8966°E, 3–15.VIII 2021, 1♂, ME; MSNR, quarter 383, 54.7562°N, 43.2020°E, burned area of the forest, 14–18.VI 2023, 2♂, AR; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 28.VII–1.VIII 2022, 1♂, GS; sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII 2022, 1♂, GS; Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII 2022, 2♂, GS.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Hydrellia obscura* (Meigen, 1830)**

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

*****Hydrellia porphyrops* Haliday, 1839**

MATERIAL. MSNR, Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 1♂, KT.

DISTRIBUTION. Europe.

*****Hydrellia subalbiceps* Collin, 1966**

MATERIAL. Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, ME.

DISTRIBUTION. Palearctic.

****Hydrellia tarsata* Haliday, 1839**

MATERIAL. MSNR, quarter 383, 54.7562°N, 43.2020°E, burned area of the forest, 14–18.VI 2023, 6♂, AR; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 19–5.VII 2022, 2♂, GS; sanatorium «Alatyr», 54.739°N, 45.3830°E, 16–19.VI, 3–08.VII 2022, 11♂, 4♀, GS; Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 7♂, ME.

DISTRIBUTION. Palearctic.

NOTE. It is a monophage on *Stratiotes* (Stuke, 2023). It is found mainly in 200–500 m from reservoirs of various types. However, one locality (MSNR, quarter 383) is located 8 km from the nearest reservoir where this plant grows.

***Ilythea spilota* Curtis, 1832**

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Limnellia quadrata* Fallén, 1813**

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Limnellia stenhammari* (Zetterstedt, 1846)**

MATERIAL. Zubova Polyana district: 3 km south of Molochnitsa settlement, 54.2138°N, 42.8778°E, 3–15.VIII 2021, 1♂, ME; Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 1♂, ME; MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 17–20.V, 8–12.VII 2021, 2♀, AR, ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

****Nostima picta* (Fallén, 1813)**

MATERIAL. Temnikov district, 1 km south-east of Dasaevo village, 54.5520°N, 43.3839°E, abandoned lands, 7–11.IV 2023, 1♀, ME; Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 1♂, ME; 3 km south of Molochnitsa settlement, 54.2138°N, 42.8778°E, 3–15.VIII 2021, 4♂, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 17–25.V, 3–15.VI, 5–15.VII, 19.VII–2.VIII 2021, 17♂, 15♀, AR, ME; Pushta settlement, 54.7055°N, 43.2235°E, meadow, 1♀, KT; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 23.V–7.VI, 11–24.VI, 5–12.VII, 15–28.VII, 21–25.VIII 2023, 10♂, 4♀, GS.

DISTRIBUTION. Palearctic.

***Notiphila dorsata* Stenhammar, 1844**

MATERIAL. NPS, sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII.2022, 1♂, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Notiphila riparia* Meigen, 1830**

MATERIAL. Tengushevo district, 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 1♂, ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

****Ochthera manicata* (Fabricius, 1794)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 11–19.X 2021, 1♂, 2♀♀, AR, ME.

DISTRIBUTION. Palearctic.

***Ochthera mantis* (De Geer, 1776)**

MATERIAL. Tengushevo district, 14 km west of Barashevo settlement, 54.5375°N, 42.7358°E, 23–26.VII 2021, 1♂, ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Paracoenia fumosa* (Stenhammar, 1844)**

MATERIAL. Tengushevo district: 3 km east of Dachny settlement, 54.5550°N, 42.6876°E, 23–26.VII 2021, 1♂, ME; 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 54♂, 57♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 4♂, 9♀, ME; Zubova Polyana district, Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 3♀, ME; MSNR, quarter 383, 54.7562°N, 43.2020°E, burned area of the forest, 14–18.VI 2023, 1♂, AR; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 24.VI–5.VII 2022, 3♂, 5♀, GS; sanatorium «Alatyr», 54.739°N, 45.3830°E, 16–19.VI, 3–08.VII 2022, 18♂, 16♀, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Parydra aquila* (Fallén, 1813)**

MATERIAL. NPS: sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII.2022, 1♂, GS; Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII.2022, 2♀♀, GS.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

****Parydra fossarum* (Haliday, 1833)**

MATERIAL. Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 1♂, ME; Tengushevo district: 2 km north-west of Ivanovka village, 54.673°N, 42.828°E, 9–13.VII 2021, 1♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♀, ME; MSNR, Pushta settlement, 54.706°N, 43.223°E, pond, 1–06.IX 2023, 1♂, KT.

DISTRIBUTION. Palearctic.

****Parydra hecate* (Haliday, 1833)**

MATERIAL. Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 1♀, ME.

DISTRIBUTION. Palearctic.

*****Parydra mitis* (Cresson, 1930)**

MATERIAL. Zubova Polyana district, 5 km south of Dachny settlement, 54.5233°N, 42.6308°E, alder forest, 23–26.VII 2021, 1♂, ME.

DISTRIBUTION. Europe.

****Parydra nubecula* Becker, 1896**

MATERIAL. Tengushevo district, 2 km north-west of Ivanovka village, 54.673°N, 42.828°E, 9–13.VII 2021, 8♂, 16♀, ME.

DISTRIBUTION. Palearctic.

****Parydra pusilla* (Meigen, 1830)**

MATERIAL. Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 2♂, 2♀, ME; Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 1♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, 1♀, ME; MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 25–31.V 2021, 1♀, AR, ME; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 23.V–7.VI 2022, 1♀, GS.

DISTRIBUTION. Palearctic.

****Parydra quadripunctata* (Meigen, 1830)**

MATERIAL. Tengushevo district, 2 km north-west of Ivanovka village, 54.673°N, 42.828°E, 9–13.VII 2021, 1♂, ME.

DISTRIBUTION. Palearctic.

****Pelina aenea* (Fallén, 1813)**

MATERIAL. NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 5–8.VIII 2022, 1♂, GS; Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII 2022, 1♂, GS.

DISTRIBUTION. Palearctic.

****Philotelma defectum* (Haliday, 1833)**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 4♂, 3♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 2♂, 7♀, ME; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 15–20.VII.2022, 1♀, GS.

DISTRIBUTION. Holarctic.

*****Philygria femorata* (Stenhammar, 1844)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 22–25.VI 2021, 1♂, AR, ME.

DISTRIBUTION. Europe.

****Philygria flavipes* (Fallén, 1823)**

MATERIAL. Temnikov district, Klemeshchey village, 54.5715°N, 42.8671°E, 9–13.VII 2021, 1♀, ME.

DISTRIBUTION. Palearctic.

****Philygria interstincta* (Fallén, 1813)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 10–28.VI, 5–12.VII, 27.VII–2.VIII, 5–15.VIII 2021, 35♂, 20♀, AR, ME; NPS: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 7–10.VI 2021, 1♀, AR, ME; cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 23.V–7.VI, 11–15.VI, 19.VI–12.VII, 15–20.VII, 5–8.VIII 2022, 4♂, 6♀, GS.

DISTRIBUTION. Europe.

****Philygria posticata* (Meigen, 1830)**

MATERIAL. MSNR, Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII 2023, 1♂, KT.

DISTRIBUTION. DISTRIBUTION. Palearctic.

****Philygria vittipennis* (Zetterstedt, 1838)**

MATERIAL. MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 20.V–7.VI, 18–28.VI, 8–12.VII 2021, 20♂, 1♀, AR, ME; NPS, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 7–10.VI 2021, 3♂, 1♀, AR, ME.

DISTRIBUTION. Palearctic.

****Polytrichophora duplosetosa* (Becker, 1896)**

MATERIAL. NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 17–24.VIII 2022, 1♂, GS.

DISTRIBUTION. Europe.

***Psilopa compta* (Meigen, 1830)**

MATERIAL. Temnikov district, 4 km south-west of Kemlya village, 54.6613°N, 45.1747°E, 28.VI 2022, 2♂, GS; Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♂, 2♀, ME; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 23.V–7.VI 2022, 1♂, GS; sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII 2022, 1♀, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Plavilshchikov 1964; Esin *et al.*, 2023).

***Psilopa nitidula* (Fallén, 1813)**

MATERIAL. Temnikov district, 2 km north of Babeevo village, 54.5871°N, 43.2279°E, floodplain meadow, 6–09.VII 2021, 1♂, 2♀, ME; Zubova Polyana district, 3 km south of Molochnitsa settlement, 54.2138°N, 42.8778°E, 3–15.VIII 2021, 2♀, ME; Kovylkino district, 4 km north of Pervomaisky settlement, 54.1565°N, 44.0478°E, 8–14.IX 2021, 1♀, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 17–25.V, 31.V–3.VI, 18–22.VI, 21–27.VII 2021, 6♂, 5♀, AR, ME; Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII 2023, 1♂, 2♀, KT; Pushta settlement, 54.7055°N, 43.2235°E, meadow, 21–25.VIII 2023, 1♀, KT; Pushta settlement, 54.7190°N, 43.2260°E, sandy area, 3.IX 2023, 1♂, KT; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, 20–22.V 2022, 1♂, 2♀, GS; cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 28.VII–1.VIII, 9–13.IX 2021, 2♀, GS; Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII 2022, 2♂, 1♀, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

***Psilopa polita* (Macquart, 1835)**

MATERIAL. Zubova Polyana district, 3 km south of Molochnitsa settlement, 54.2138°N, 42.8778°E, 3–15.VIII 2021, 1♀, ME; Kovylkino district, 4 km north of Pervomaisky settlement, 54.1565°N, 44.0478°E, 8–14.IX 2021, 1♂, ME; MSNR: Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII 2023, 3♀, KT; Pushta settlement, 54.7190°N, 43.2260°E, sandy area, 3.IX 2023, 4♂, 1♀, KT; NPS, Obrezki settlement, 54.8355°N, 45.3795°E, 26–28.VIII 2022, 1♀, GS.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (Plavilshchikov, 1964; MacGowan *et al.*, 2021).

****Psilopa stackelbergi* Nartshuk, 1970**

MATERIAL. Tengushevo district, Telimerki village, 54.736°N, 42.788°E, 16.VI–20.VII 2021, 1♀, ME.

DISTRIBUTION. Europe.

*****Ptilomyia orsovana* (Enderlein, 1922)**

MATERIAL. Tengushevo district, 14 km west of Barashevo settlement, 54.5375°N, 42.7358°E, 23–26.VII 2021, 1♂, ME; Temnikov district, 2 km north of Babeevo village, 54.5871°N, 43.2279°E, floodplain meadow, 6–09.VII 2021, 1♂, ME.

DISTRIBUTION. Palearctic.

***Scatella lacustris* (Meigen, 1830)**

MATERIAL. Staroe Shaigovo distr., 3 km north-west of Bogdanovka village, 54.318°N, 44.327°E, 17–22.VII 2023, 19♂, 9♀, ME; Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 16♂, 26♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 11♂, 21♀, ME; Zubova Polyana district, 5 km south of Dachny settlement, 54.5233°N, 42.6308°E, alder forest, 23–26.VII 2021, 1♂, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 20–25.V 2021, 1♀, AR, ME; Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII 2023, 2♂, KT; quarter 383, 54.7562°N, 43.2020°E, burned area of the forest, 14–18.VI 2023, 1♂, 4♀, AR; NPS: cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 19–24.VI, 5–8.VIII 2022, 2♂, 1♀, GS; cordon Mokrov, 54.7591°N, 45.6124°E, mixed forest, 23.06–12.VII 2022, 2♂, 3♀, GS; sanatorium «Alatyr», 54.739°N, 45.3830°E, 16–19.VI, 3–08.VII 2022, 2♂, 2♀, GS.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Scatella obsoleta* Loew, 1861**

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Scatella paludum* (Meigen, 1830)**

MATERIAL. Vinischi village, meadow, 54.5869°N, 42.5081°E, yellow pan traps, 26–31.V 2023, 1♀, leg. ME.

DISTRIBUTION. Palearctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

****Scatophila noctula* (Meigen, 1830)**

MATERIAL. Zubova Polyana district, Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 1♂, ME.

DISTRIBUTION. Europe.

****Scatophila pumilio* (Loew, 1860)**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181°E, 13–16.VII 2021, 1♂, ME; Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 1♂, 3♀, ME; MSNR, cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 5–15.VIII 2021, 1♂, AR, ME.

DISTRIBUTION. Europe.

***Scatophila quadriguttata* (Meigen, 1830)**

(Esin *et al.*, 2023)

MATERIAL. MSNR, Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII.2023, 1♂, KT.

DISTRIBUTION. Europe. Recorded from the Republic of Mordovia (Esin *et al.*, 2023).

****Setacera aurata* (Stenhammar, 1844)**

MATERIAL. NPS, sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII 2022, 1♂, GS.
DISTRIBUTION. Palearctic.

****Setacera breviventris* (Loew, 1860)**

MATERIAL. Tengushevo district: 3 km north-east of Standrovo village, 54.6708°N, 42.7181° E, 13–16.VII 2021, 1♂, 1♀, ME; Telimerki village, 54.736°N, 42.788°E, 16–20.VII 2021, 1♀, ME; Zubova Polyana district, Molochnitsa settlement, 54.2299°N, 42.8798°E, 3–15.VIII 2021, 1♂, ME; MSNR: cordon Inorskiy, 54.7277°N, 43.1510°E, forest glade on the lake shore, 30.VII–2.VIII, 18–28.VIII, 31.VIII–3.IX 2021, 1♂, 2♀, AR, ME; Pushta, 54.7200°N, 43.2266°E, 12–15.IX 2021, 1♂, AR; Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII 2023, 2♂, 7♀, KT; NPS, sanatorium «Alatyr», 54.739°N, 45.3830°E, 3–08.VII 2022, 2♀, GS.
DISTRIBUTION. Palearctic.

***Setacera micans* (Haliday, 1833)**

MATERIAL. MSNR, Pushta settlement, 54.7191°N, 43.2236°E, 3–07.VII 2023, 3♂, 4♀, KT; NPS, cordon Mokrov, 54.7591°N, 45.6124°E, edge of the pine forest, 19–24.VI 2022, 1♀, GS.

DISTRIBUTION. Holarctic. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

***Setacera trina* Collin, 1963**

DISTRIBUTION. Europe. Recorded from the Republic of Mordovia (MacGowan *et al.*, 2021).

DISCUSSION

At all 1621 specimens belonging to 63 species of shore flies can be reported here. Of these eight species are new for Russia: *Allotrichoma schumanni* Papp, 1974, *Diasemocera bornholmi* (Becker, 1926), *Ditrichophora strandi* (Duda, 1942), *Hydrellia porphyrops* Haliday, 1839, *Hydrellia subalbiceps* Collin, 1966, *Parydra mitis* (Cresson, 1930), *Philygria femorata* (Stenhammar, 1844), and *Ptilomyia orsovana* (Enderlein, 1922). Additional 31 species are reported for the Republic of Mordovia for the first time. The list of published Ephydriidae for the Republic of Mordovia comprises therewith to date 74 species.

Interesting data were obtained for some species, which we found in significant numbers. Thus, *Diasemocera bornholmi* was found quite often. The habitats of the species were floodplain areas and clearings located on the edges of the forest near the floodplain terraces. The species *Diasemocera marginella*, rare in Europe, was found in a Malaise trap at the edge of a pine forest and a clearing near a floodplain meadow. *Clanoneurum camiciforme*, which is considered halophilic, was found in a clearing near a large floodplain lake.

These results show that not only is the species spectrum of the Ephydriidae of Mordovia insufficiently known, but also that the habitat connectivity of the species in Mordovia cannot be transferred from Western European countries.

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REFERENCES

- Andersson, H. 1971. The European Species of *Limnolia* (Dipt., Ephydriidae). *Entomologica Scandinavica*, 2: 53–59.
- Becker, T. 1926. 56a. Ephydriidae und 56b. Canaceidae. In: Lindner, E. (Ed.). *Die Fliegen der palaearktischen Region VI.1*. E. Schweizerbart. 115 pp.
- Canzoneri, S. & Meneghini, D. 1983. Ephydriidae - Canaceidae. *Fauna d' Italia* 20. 337 pp.
- Collin, J.E. 1966b. A contribution to the knowledge of the male genitalia of species of *Hydrellia* (Diptera, Ephydriidae). *Bollettino del Museo Civico di Storia Naturale di Venezia*, 16: 7–18, 26 pl.
- Drake, C. M. 2001. The British species of *Notiphila* Fallén (Diptera, Ephydriidae), with the description of a new species. *Dipterists Digest*, 2nd. Series, 8: 91–125.
- Esin, M.N., Ruchin, A.B., Gavryushin, D.I., Xi, Y.-Q., Dvořák, L. & Dvořáková, K. 2023. Diptera species, new for the Republic of Mordovia. *Nature Conservation Research*, 8: 98–105. DOI: 10.24189/ncr.2023.011
- Gavrushev, D.I. & Krivosheina, M.G. 2010. The first record of the shore-fly *Nostima semialata* (Collin, 1913) for the fauna of Russia. *Russian Entomological Journal*, 19: 143–144.
- Hollmann-Schirmacher, V. 1998. Phylogeny of the subfamily Ilytheinae (Diptera, Ephydriidae) with special references to the genus *Philygria*. *Studia dipterologica Supplement*, 5: 1–144.
- Irwin, A.G. 1985. British *Ochthera* (Diptera, Ephydriidae). *Entomologist's Monthly Magazine*, 121: 151–154.
- Kahanpää, J. & Zatwarnicki, T. 2015. Notes on shore flies (Diptera: Ephydriidae) from Finland and north-western Russia. *Biodiversity Data Journal*, 3: e4701.
- Krivosheina, M.G. 1992. A review of Palearctic Dipterans of the Genus *Pelina* (Diptera, Ephydriidae) with description of two new species. *Vestnik Zoologii*, 1992(4): 38–44.
- Krivosheina, M.G. 2009a. A new species of the shore-fly genus *Scatophila* Becker, 1896 (Diptera, Ephydriidae) from Kamchatka. *Far Eastern Entomologist*, 202: 1–5.
- Krivosheina, M.G. 2009b. On the distribution of the shore-fly *Scatella crassicauda* Becker, 1896 (Diptera, Ephydriidae) in the Far East of Russia. *Euroasian Entomological Journal*, 8: 115–116.
- Krivosheina, M.G. 2010. Shore-flies (Diptera, Ephydriidae) of Lake Baskunchak. *Euroasian Entomological Journal*, 9: 666–667.
- Krivosheina, M.G. 2012a. Restoration of the name *Dichaeta ussuriica* Krivosheina, 1986 (Diptera: Ephydriidae). *Far Eastern Entomologist*, 252: 27–31.
- Krivosheina, M.G. 2012b. Review of the shore-fly genus *Limnolia* Malloch, 1925 (Diptera, Ephydriidae) of Russia. *Far Eastern Entomologist*, 246: 1–7.
- Krivosheina, M.G. 2018. A new species of the genus *Oedenops* Becker, 1903 (Diptera: Ephydriidae) from the Russian Far East. *Far Eastern Entomologist*, 360: 21–24. DOI: 10.25221/fee.360.3
- Krivosheina, M.G. 2022. On distribution of the shore fly *Lamproscatella aklavik* Mathis, 1979 (Diptera: Ephydriidae) in the Palearctic Region. *Far Eastern Entomologist*, 451: 16–18. DOI: 10.25221/fee.451.3
- Krivosheina M.G. 2023. A new replacement name for *Notiphila indica* Krivosheina, 2001 (Diptera: Ephydriidae). *Far Eastern Entomologist*, 478: 29–30. DOI: 10.25221/fee.478.3
- Krivosheina, M.G. & Ozerov, A.L. 2015. A new species of the shore-fly genus *Scatophila* Becker, 1896 (Diptera, Ephydriidae) with reduced wings from Wrangel Island, Russia. *Far Eastern Entomologist*, 311: 1–6.

- Krivosheina, M.G. Ozerov, A.L. 2020. A review of the shore fly genus *Setacera* Cresson 1930 (Diptera, Ephydriidae) in the fauna of Russia. *Zoologicheskii Zhurnal*, 99: 900–910. [In Russian]
- Krivosheina, M.G. & Ozerov, A.L. 2021. A review of the shore-fly genus *Ephydra* Fallén, 1810 (Diptera: Ephydriidae) of Russia. *Russian Entomological Journal*, 30(3): 345–360.
- Krivosheina, M.G. & Ozerov, A.L. 2022. A New Species of the Genus *Hyadina* Haliday, 1839 (Diptera, Ephydriidae) from the Tyva Republic, Russia. *Entomological Review*, 102(1): 135–139.
- Krivosheina, M.G. & Ozerov, A.L. 2025. New data on the distribution of the shore flies from the genus *Allotrichoma* Becker, 1896 (Diptera: Ephydriidae) in Russia. *Far Eastern Entomologist*, 525: 1–4. DOI: 10.25221/fee.525.1
- Krivosheina, M.G., Ozerov, A.L. & Mathis, W.N. 2024. Clarified and new data for three closely related species of the genus *Ephydra* Fallén, 1810 (Diptera: Ephydriidae): *E. flavipes* Macquart, 1844, *E. murina* Wirth, 1975 and *E. pseudomurina* Krivosheina, 1983. *Russian Entomological Journal*, 33(2): 256–264.
- MacGowan, I., Vikhrev, N.E., Krivosheina, M.G., Ruchin, A.B. & Esin, M.N. 2021. New records of Diptera from the Russia. *Far Eastern Entomologist*, 423: 9–20. DOI: 10.25221/fee.423.3
- Mathis, W.N. 1975. A systematic study of *Coenia* and *Paracoenia* (Diptera: Ephydriidae). *Great Basin Naturalist*, 35: 65–85.
- Mathis, W.N., Zatwarnicki, T. & Kubátová-Hiršová, H. 2009. A revision of the shore fly genus *Philotelma* Becker. *Insect Systematics & Evolution*, 40: 121–158.
- Mathis, W.N., Zatwarnicki, T. & Irwin, A.G. 2021. Ephydriidae (Shore Flies). P. 2193–2230. In: Kirk-Spriggs, A.H. & Sinclair, B. J. (Eds.). *Manual of Afrotropical Diptera. Volume 3. Cyclorhapha, excluding Calyptratae*. SUNBY. 2379 pp.
- Nartshuk E.P. 2003. Key to families of Diptera (Insecta) of the fauna of Russian and adjacent countries. *Proceedings of the Zoological Institute, St. Petersburg*, 294: 1–252.
- Olafsson, E. 1991. Taxonomic revision of western Palearctic species of the genera *Scatella* R.-D. and *Lamproscatella* Hendel, and studies on their phylogenetic positions within the family Ephydriinae (Diptera, Ephydriidae). *Entomologica Scandinavica. Supplement*, 37: 1–100.
- Plavilshchikov, N.N. 1964. List of insect species found on the territory of the Mordovia State Reserve. *Proceedings of the Mordovia State Nature Reserve*, 3: 105–134.
- Shayhutdinova, A.A. & Krivosheina, M.G. 2020. Invertebrates of hyperhaline reservoirs of the Orenburg Region (Russia). *Russian Entomological Journal*, 29: 337–342.
- Stuke, J.-H. 2010a. Die Uferfliegen Niedersachsens und Bremens (Diptera: Ephydriidae) – Teil I. *Entomologische Zeitschrift*, 120: 171–189.
- Stuke, J.-H. 2010b. Die Uferfliegen Niedersachsens und Bremens (Diptera: Ephydriidae) – Teil II. *Entomologische Zeitschrift*, 120: 195–222.
- Stuke, J.-H. 2014. Neue Funde von Ephydriden (Diptera) aus Griechenland, mit der Beschreibung einer neuen Art. *Studia dipterologica*, 20: 189–213.
- Stuke, J.-H. 2021a. New European species of *Athyroglossa* Loew, 1860 (Diptera: Ephydriidae) from Finland and the Republic of Georgia. *Bonn Zoological Bulletin*, 70: 85–95. DOI: 10.20363/BZB-2021.70.1.085
- Stuke, J.-H. 2021b. Taxonomic and faunistic remarks on European *Ptilomyia* Coquillett (Diptera: Ephydriidae). *Zootaxa*, 5068(4): 579–586. DOI: 10.11646/zootaxa.5068.4.7
- Stuke, J.-H. 2021c. Another overlooked European species of *Polytrichophora* Cresson (Diptera: Ephydriidae). *Entomologist's Monthly Magazine*, 157: 185–192.

- Stuke, J.-H. 2022a. Faunistic and taxonomic remarks on European *Allotrichoma* Becker, 1896 (Diptera: Ephydridae) with the description of a new species from Georgia. *Russian Entomological Journal*, 31: 297–311.
- Stuke, J.-H. 2022b. A second European *Axysta* species (Diptera: Ephydridae). *Acta Zoologica Academiae Scientiarum Hungaricae*, 68: 159–168.
- Stuke, J.-H. 2022c. *Coenia caucasica* Krivosheina, 2001, recorded in Germany and Finland (Diptera: Ephydridae). *Entomologist's Monthly Magazine*, 158: 207–212.
- Stuke, J.-H. 2023. *Hydrellia* (Diptera: Ephydridae) mining in *Stratiotes aloides*: a long history of confusion. *Zoosystematica Rossica*, 32: 99–111.
- Stuke, J.-H. 2024. An identification key for the European species of *Hyadina* Haliday and a new interpretation of *Hyadina vernalis* (Robineau-Desvoidy). *Spixiana*, 47: 49–62.
- Stuke, J.-H. 2025. Distribution of *Setacera freidbergi* Mathis and a key for the females of European *Setacera* Cresson (Diptera, Ephydridae). *Dipterists Digest, 2nd. Series*, 32: 98–101.
- Zatwarnicki, T. 2018. Solving the puzzle of taxonomic position of the petroleum fly by resurrection of *Diasemocera* Bezzi from *Psilopa* Fallén (Diptera: Ephydridae) with proposed specific and generic synonymies. *Annales Zoologici*, 68(3): 527–552. DOI: 10.3161/00034541ANZ2018.68.3.012
- Zatwarnicki, T. 2022. Notes on Selected Genera of Shore Flies (Diptera: Ephydridae), with removals to Drosophilidae, Heleomyzidae and Milichiidae. *Annales Zoologici*, 72(3): 389–432. DOI: 10.3161/00034541ANZ2022.72.3.003
- Zatwarnicki, T. & Irwin, A.G. 2018. Taxonomic notes on the genera *Scatella* and *Scatophila* (Diptera: Ephydridae) with a remark on *Trixoscelis chilensis* (Trixoscelididae). *Zootaxa*, 4377(1): 91–109. DOI: 10.11646/zootaxa.4377.1.6
- Zatwarnicki, T. & Mathis, W.N. 2001. A Generic classification of the tribe Discocerini (Diptera: Ephydridae). *Annales Zoologici*, 51: 5–51.
- Zatwarnicki, T. & Mathis, W.N. 2007. A revision of the Palearctic species of the shore fly genus *Discomyza* Meigen (Diptera: Ephydridae). *Insect Systematics and Evolution*, 38: 241–266.
- Yakoleva, E.Y., Naimark, E.B., Sivunova, D.D., Krivosheina, M.G. & Markov, A.V. 2023. Larva morphology of shore flies *Ephydra riparia* and *Paracoenia fumosa* (Diptera: Ephydridae) and adaptation of Diptera to increased salinity. *Zhurnal obshchei biologii*, 84: 177–194. [In Russian]

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