

First records of four species of the long-legged flies (Diptera: Dolichopodidae) from Azerbaijan, with addition to the national checklist

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Abstract: First records of four species of the family Dolichopodidae are given. *Argyra ilonae* Gosseries, 1988 from subfamily Diaphorinae, *Dolichopus agilis* Meigen, 1824 from subfamily Dolichopodinae, *Medetera glauella* Kowarz, 1877 from subfamily Mediterinae and *Syntormon tarsatus* (Fallén, 1823) from subfamily Sympycninae increase the current national species list to 86 species. The completed nation checklist of long-legged flies of Azerbaijan is presented.

Key words: Diptera, Dolichopodidae, first records, checklist, Azerbaijan

Introduction

The inventory of the long-legged flies of Azerbaijan contains total 82 species (Negrobov 1971, Negrobov & Shamshev 1984, Grichanov 2004, Negrobov & Rodionova 2004, Negrobov et al. 2007, Grichanov & Tomkovich 2009, Maslova et al. 2011, Negrobov & Maslova 2011). So far from Azerbaijan 26 genera are noted, from subfamily Diaphorinae - 23 species (*Argyra* - 4 species, *Asyndetus* - 1 species, *Chrysotus* - 4 species, *Diaphorus* - 14 species), from subfamily Dolichopodinae - 19 species (*Dolichopus* - 9 species, *Gymnopternus* - 1 species, *Hercostomus* - 3 species, *Poecilobothrus* - 1 species, *Sybistroma* - 2 species, *Tachytrechus* - 3 species), from subfamily Hydrophorinae - 7 species (*Hydrophorus* - 2 species, *Liancalus* - 1 species, *Orthoceratium* - 1 species, *Thinophilus* - 3 species), from subfamily Mediterinae - 7 species (*Dolichophorus* - 1 species, *Medetera* - 4 species, *Systemus* - 1 species, *Thrypticus* - 1 species), from subfamily Peloropeodinae - 1 species (*Micromorphus*), from subfamily Rhaphiniinae - 6 species (*Rhaphium* - 6 species), from subfamily Sympycninae - 19 species (*Campsicnemus* - 5 species, *Lamprochromus* - 1 species, *Sympycnus* - 3 species, *Syntormon* - 6 species, *Telmaturgus* - 1 species, *Teuchophorus* - 3 species).

The present paper reports first records of four species for Azerbaijan: *Argyra ilonae* Gosseries, 1988, *Medetera glauella* Kowarz, 1877, *Dolichopus agilis* Meigen, 1824, *Syntormon tarsatus* (Fallén, 1823). This raises the current national species list to 86 species (See below: Checklist of Dolichopodidae of Azerbaijan).

Material and methods

The material we present in this paper was collected in the Azerbaijan during a sampling campaign from May 26. to June 4. 2017. Samples were collected at different sites by sweep-netting from vegetation along streams and lakes and light trapping by Ľ. Hrivniak and J. Barančok; collected material was preserved in 96% ethanol in the field. The material is deposited in the collection of the first author Oleg P. Negrobov (Laboratory of Insect Systematics of Zoological Institute of the Russian Academy of Sciences and Zoological Museum of Moscow State University) who also identified these species.

Results and Discussion

A total 8 species of Dolichopodidae were recorded from Azerbaijan during a sampling campaign (the closest environment in brackets).

***Argyra ilonae* Gosseries, 1988**

Material examined: 1♀, Lerik district, south from Lerik, river next to road (forest), N38.7559444/E48.5982778, 328 m a.s.l., 04.06.2017, L. Hrivniak leg.; 1♀, Massaly district, south from Davidonu, stream (forest, restaurant), N38.9475278/E48.4780556, 278 m a.s.l., 03.06.2017, L. Hrivniak and J. Barančok leg.

Distribution: Europe; S Russia: Adygea, Krasnodar; Ukraine: Crimea, Kharkiv (Grichanov 2007). **First record for Azerbaijan.**

***Campsicnemus umbripennis* Loew, 1856**

Material examined: 1♀, Quba district, Xinaliq village, mountain stream (mountains, rocks, pastures), N41.1834167/E48.1285833, 2 170 m a.s.l., 27.05.2017, L. Hrivniak leg.

Note: Known from territory of Azerbaijan (Grichanov & Tomkovich 2009).

***Dolichopus agilis* Meigen, 1824**

Material examined: 1♀, Quba district, west from Quba, light trap near Kudial-Chai river (forest), N41.3422778/E48.4190556, 730 m a.s.l., 26.05.2017, L. Hrivniak leg.

Distribution: Transpalearctic species. Europe; S Russia: Rostov; Ukraine: Kherson, Odessa (Grichanov 2007). **First record for Azerbaijan.**

***Medetera glauccella* Kowarz, 1877**

Material examined: 1♂, Lerik district, south from Lerik, river next to road (forest), N38.7559444/E48.5982778, 328 m a.s.l., 04.06.2017, L. Hrivniak leg.

Distribution: Europe; Ukraine: Crimea; Ural (Grichanov 2007). **First record for Azerbaijan.**

***Rhaphium caliginosum* (Zetterstedt, 1843)**

Material examined: 1♂, 4♀♀, Oghuz district, south from Oghuz, stream, sweep netting from riverbank vegetation, N40.9799444/E47.4950000, 423 m a.s.l., 30.05.2017, L. Hrivniak leg.

Note: Known from territory of Azerbaijan (Grichanov & Tomkovich 2009).

***Syntormon pallipes* (Fabricius, 1794)**

Material examined: 1♂, 1♀, Quba district, east of Xinaliq village, small stream, drain from small pond (mountains, pastures), N41.1862778/E48.2049444, 1 852 m a.s.l., 27.05.2017, L. Hrivniak leg.

Note: Known from territory of Azerbaijan (Grichanov & Tomkovich 2009).

***Syntormon pumilum* (Meigen, 1824)**

Material examined: 2♀♀, Quba district, east of Xinaliq village, small stream, drain from small pond (mountains, pastures), N41.1862778/E48.2049444, 1 852 m a.s.l., 27.05.2017, L. Hrivniak leg.

Note: Known from territory of Azerbaijan (Grichanov & Tomkovich 2009).

***Syntormon tarsatus* (Fallén, 1823)**

Material examined: 2♀♀, Quba district, east of Xinaliq village, small stream, drain from small pond (mountains, pastures), N41.1862778/E48.2049444, 1 852 m a.s.l., 27.05.2017, L. Hrivniak leg.

Distribution: Europe; E Russia: Buryatia, Kamchatka (Grichanov 2007). **First record for Azerbaijan.**

First records of four species *A. ilonae*, *D. agilis*, *M. glauccella* and *S. tarsatus* increase the current national species list to 86 species.

CHECKLIST OF DOLICHOPODIDAE OF AZERBAIJAN

Species new to Azerbaijan are marked with an asterisk (*), published country records are given between square brackets [].

DIAPHORINAE

Argyra argentina (Meigen, 1824) [Grichanov & Tomkovich 2009]

Argyra argyria (Meigen, 1824) [Grichanov & Tomkovich 2009]

Argyra diaphana (Fabricius, 1775) [Grichanov & Tomkovich 2009]

**Argyra ilonae* Gosseries, 1988

Argyra vestita (Weidemann, 1817) [Grichanov & Tomkovich 2009]

Asyndetus varus Loew, 1869 [Negrobov & Shamshev 1984, Grichanov & Tomkovich 2009]

Chrysotus cilipes Meigen, 1824 [Grichanov & Tomkovich 2009]

Chrysotus collini Parent, 1923 [Negrobov & Maslova 2011]

Chrysotus gramineus (Fallén, 1823) [Grichanov & Tomkovich 2009]

Chrysotus suavis Loew, 1857 [Grichanov & Tomkovich 2009]

Diaphorus deliquescens Loew, 1871 [Negrobov et al. 2007]

Diaphorus disjunctus Loew, 1857 [Negrobov et al. 2007]

Diaphorus dolichocercus Stackelberg, 1947 [Negrobov et al. 2007]

Diaphorus graecus Parent, 1932 [Negrobov et al. 2007]

Diaphorus halteralis Loew, 1869 [Negrobov et al. 2007]

Diaphorus lautus Loew, 1869 [Negrobov et al. 2007]

Diaphorus lichtwardti Parent, 1925 [Negrobov et al. 2007]

Diaphorus nigricans Meigen, 1824 [Grichanov 2004]

Diaphorus oculatus (Fallén, 1823) [Negrobov et al. 2007]

Diaphorus parenti Stackelberg, 1928 [Negrobov et al. 2007]

Diaphorus sublautus Negrobov, 2007 [Negrobov et al. 2007]

Diaphorus ussuriensis Stackelberg, 1928 [Negrobov et al. 2007]

Diaphorus varifrons Becker, 1918 [Negrobov et al. 2007]

Diaphorus vitripennis Loew, 1859 [Negrobov et al. 2007]

DOLICHOPODINAE

**Dolichopus agilis* Meigen, 1824

Dolichopus cilifemoratus Macquart, 1827 [Grichanov & Tomkovich 2009]

Dolichopus diadema Haliday, 1832 [Grichanov & Tomkovich 2009]

Dolichopus excisus Loew, 1859 [Grichanov & Tomkovich 2009]

Dolichopus griseipennis Stannius, 1831 [Grichanov & Tomkovich 2009]

Dolichopus latilimbatus Macquart, 1827 [Negrobov & Rodionova 2004, Grichanov & Tomkovich 2009]

Dolichopus nubilus Meigen, 1824 [Grichanov & Tomkovich 2009]

Dolichopus sabinus Haliday 1838 [Grichanov & Tomkovich 2009]

Dolichopus signifer Haliday 1838 [Grichanov & Tomkovich 2009]

Dolichopus zakhvatkini Maslova, Selivanova et Negrobov, 2011 [Maslova et al. 2011]

Gymnopternus blankaartensis (Pollet, 1991) [Grichanov & Tomkovich 2009]

Hercostomus caudatus (Loew, 1859) [Grichanov & Tomkovich 2009]

Hercostomus chetifer (Walker, 1849) [Grichanov & Tomkovich 2009]

Hercostomus convergens (Loew, 1857) [Grichanov & Tomkovich 2009]

Poecilobothrus regalis (Meigen, 1824) [Grichanov & Tomkovich, 2009]

Sybistroma discipes (Germar, 1817) [Grichanov & Tomkovich 2009]

Sybistroma lenkoranicum Negrobov, 1979 [Grichanov & Tomkovich 2009]

Tachytrechus kowarzi Mik, 1864 [Grichanov & Tomkovich 2009]

Tachytrechus notatus (Stannius 1831) [Grichanov & Tomkovich 2009]

Tachytrechus ripicola Loew, 1857 [Grichanov & Tomkovich 2009]

HYDROPHORINAE

Hydrophorus balticus (Meigen, 1824) [Grichanov & Tomkovich 2009]

Hydrophorus praecox (Lehmann, 1822) [Grichanov & Tomkovich 2009]

Liancalus virens (Scopoli, 1763) [Grichanov & Tomkovich 2009]

Orthoceratium lacustre (Scopoli, 1763) [Grichanov & Tomkovich 2009]

Thinophilus flavipalpis (Zetterstedt, 1843) [Grichanov & Tomkovich 2009]

Thinophilus ruficornis (Haliday, 1838) [Grichanov & Tomkovich 2009]

Thinophilus vanschuytbroeckii Negrobov, 1971 [Negrobov 1971]

MEDETERINAE

Dolichophorus kerteszi Lichtwardt, 1902 [Grichanov & Tomkovich 2009]

Medetera flavipes Meigen, 1824 [Grichanov & Tomkovich 2009]

**Medetera glauccella* Kowarz, 1877

Medetera muralis Meigen, 1824 [Grichanov & Tomkovich 2009]

Medetera peloria Negrobov, 1967 [Grichanov & Tomkovich 2009]

Medetera truncorum Meigen, 1824 [Grichanov & Tomkovich 2009]
Systemus scholtzi (Loew, 1850) [Grichanov & Tomkovich 2009]
Thrypticus bellus Loew, 1869 [Grichanov & Tomkovich 2009]

PELOROPEODINAE

Micromorphus shamshevi Negrobov, 2000 [Grichanov & Tomkovich 2009]

RHAPHIINAE

Rhaphium appendiculatum Zetterstedt, 1849 [Grichanov & Tomkovich 2009]
Rhaphium caliginosum (Zetterstedt, 1843) [Grichanov & Tomkovich 2009]
Rhaphium fascipes (Meigen, 1824) [Grichanov & Tomkovich 2009]
Rhaphium fissum Loew, 1850 [Grichanov & Tomkovich 2009]
Rhaphium lanceolatum Loew, 1850 [Grichanov & Tomkovich 2009]
Rhaphium micans (Meigen, 1824) [Grichanov & Tomkovich 2009]

SYMPYCNINAE

Campsicnemus barbitibia Stackelberg, 1947 [Grichanov & Tomkovich 2009]
Campsicnemus curvipes (Fallén, 1823) [Grichanov & Tomkovich 2009]
Campsicnemus magius (Loew, 1845) [Grichanov & Tomkovich 2009]
Campsicnemus umbripennis Loew, 1856 [Grichanov & Tomkovich 2009]
Campsicnemus varipes Loew, 1859 [Grichanov & Tomkovich 2009]
Lamprochromus bifasciatus (Macquart, 1827) [Grichanov & Tomkovich 2009]
Sympycnus desoutteri Parent, 1925 [Grichanov & Tomkovich 2009]
Sympycnus pulicarius (Fallén, 1823) [Grichanov & Tomkovich 2009]
Sympycnus simplicipes Strobl, 1910 [Grichanov & Tomkovich 2009]
Syntormon aulicum (Meigen, 1824) [Grichanov & Tomkovich 2009]
Syntormon denticulatum (Zetterstedt, 1843) [Grichanov & Tomkovich 2009]
Syntormon pallipes (Fabricius, 1794) [Grichanov & Tomkovich 2009]
Syntormon pumilum (Meigen, 1824) [Grichanov & Tomkovich 2009]
**Syntormon tarsatus* (Fallén, 1823)
Syntormon triangulipes Becker, 1902 [Grichanov & Tomkovich 2009]
Syntormon zelleri (Loew, 1850) [Grichanov & Tomkovich 2009]
Telmaturgus tumidulus (Raddatz, 1873) [Grichanov & Tomkovich 2009]
Teuchophorus calcaratus (Macquart, 1827) [Grichanov & Tomkovich 2009]
Teuchophorus monacanthus Loew, 1859 [Grichanov & Tomkovich 2009]
Teuchophorus spinigerellus (Zetterstedt, 1843) [Grichanov & Tomkovich 2009]

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