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A preliminary list of Sciomyzidae (Diptera) of Dagestan

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Abstract. We offer the first report on the fauna of Sciomyzidae of the Republic of Dagestan. Our list is based on several collecting trips in 2021–2023 and studying of Sciomyzidae material at the Zoological Institute of Saint Petersburg. Totally, 25 Dagestan species are reported. We believe that this is quite a lot for a southern region, where Sciomyzidae are not as diverse as in the temperate zone. For the subspecies *Coremacera marginata pontica* Elberg, 1968, we investigated the type series, which turned out to be labeled partly incompletely and partly under another name.

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Keywords: Dagestan, fauna, Sciomyzidae, Diptera, *Coremacera marginata pontica*

Предварительный список Sciomyzidae (Diptera) Дагестана

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Аннотация. Мы предлагаем первую сводку по фауне Sciomyzidae Республики Дагестан. Наш список основан на нескольких экспедициях по сбору в 2021–2023 годах и изучении материала Sciomyzidae в Зоологическом институте Санкт-Петербурга. Всего в Дагестане зарегистрировано 25 видов, мы считаем, что это довольно много для южного региона, где Sciomyzidae не так разнообразны, как в умеренном поясе. Для подвида *Coremacera marginata pontica* Elberg, 1968 мы исследовали типовую серию, которая оказалась этикетированной частично неполно, а частично под другим названием.

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Ключевые слова: фауна, Дагестан, Sciomyzidae, Diptera, *Coremacera marginata pontica*

Introduction

The Republic of Dagestan is the southernmost region of the Russian Federation, its southern border reaches 41.2°N. The list of Sciomyzidae of Dagestan has never been published before. Thanks to several collecting trips to this region in 2021–2023 and studying of Sciomyzidae material in Saint Petersburg, below we present a list of 25 Dagestan species. Our list is not too long, but we have to take into account that Sciomyzidae are the most numerous and diverse in temperate and cold latitudes. Comparing these results with the material available to us from other regions of the Caucasus, we suppose that only about 5–8 more species can be added to the Dagestan list.

The examined material is stored at the Zoological Museum of Moscow University (not indicated in the text) and the Zoological Institute of Saint Petersburg (indicated as ZIN).

List of Sciomyzidae (Diptera) of Dagestan

Salticellinae

Salticella fasciata Meigen, 1830

Material. Nogai Steppe, Chervlyonnye Buruny (44.16°N, 45.62°E), 15.05.1972, V. Rikhter, 1♀; Terekli-Mekteb (44.17°N, 45.87°E), 16.05.1972, V. Rikhter, 1♂; Kizlyar env., near Terek R. (43.85°N, 46.75°E), 5.05.1925, Kirichenko, 1♀; 15 km SW of Sergokala (≈ 42.33°N, 47.55°E), 15.07.1983, E. Narchuk, 2♂, 1♀ (all ZIN).

Remarks. This interesting species was first briefly mentioned for the Dagestan fauna by Rozkosny (1987: 12).

Phaeomyiinae

Pelidnoptera nigripennis Fabricius, 1794

Material. Rutul (41.54°N, 47.42°E, 1400 m), 29.05.1972, V. Rikhter, 2♂ (ZIN); Derbent env., 42.043°N, 48.260°E, 400 m, 26.04.2023, D. Gavryushin, 1♂.

Sciomyzinae

Sciomyzini

Ditaeniella grisescens Meigen, 1830

Material. Samur Delta Forest, Primorskiy env., 41.85°N, 48.56°E, 15.09.2022, O. Kosterin, 5♂,

4♀; Bezdonnoe Lake, 42.570°N, 46.017°E, 2520 m, 5.08.2023, O. Kosterin, 1♂, 3♀.

Pherbellia albocostata Fallen, 1820

Material. Kuzhnik, 41.95°N, 47.80°E, 1300 m, 22.06.2021, O. Kosterin, 1♂, 1♀.

Pherbellia cinerella Fallen, 1820

Material. Derbent env., 42.043°N, 48.260°E, 400 m, 29.04.2023, N. Vikhrev, 1♂; Samur Delta Forest, Primorskiy env., 41.86°N, 48.55°E, 27.05.2023, O. Kosterin, 1♀; Bezdonnoe Lake, 42.570°N, 46.017°E, 2520 m, 5.08.2023, O. Kosterin, 1♂; Lake Debrishara, 4 km S of Chirag, Kokma Mt., 41.8°N, 47.41°E, 2800 m, 9.08.2023, O. Kosterin, 1♂.

Pherbellia dubia Fallen, 1820

Kuzhnik, 41.95°N, 47.80°E, 1300 m, 22.06.2021, O. Kosterin, 1♀.

Pherbellia griseola Fallen, 1820

Material. Gergebil Reservoir, 42.45°N, 47.03°E, 795 m, 12.09.2022, O. Kosterin, 1♂.

Pherbellia nana Fallen, 1820

Material. Upper Gakvari env., 42.54°N, 46.03°E, 2000 m, 6.08.2023, O. Kosterin, 1♂, 3♀.

Pherbellia schoenherri Fallen, 1826

Material. Samur Delta Forest, Primorskiy env., 41.86°N, 48.55°E, 25.06.2021, O. Kosterin, 1♀.

Tetanocerini

Coremacera catenata Loew, 1847

Material. Shura-Ozen River floodplain, 43.10°N, 47.46°E, 5.07.2015, D. Astakhov, 1♂; North slope of Shalbuzdag Mt (≈ 41.4°N, 47.8°E), 22.07.1983, E. Narchuk, 1♂ (ZIN).

Coremacera marginata pontica Elberg, 1968

Material. 15 km SW of Sergokala (≈ 42.33°N, 47.55°E), 15.07.1983, E. Narchuk, 15♂, 7♀ (ZIN).

Taxonomic remarks. *Coremacera marginata pontica* was described by Elberg (1968: 667). *C. m. pontica* differs from nominotypic *C. m. marginata* by a pure yellow colour of the femora and tibiae. The male holotype is from Crimea, Alma R. (≈ 44.84°N, 33.63°E), 10.08.1899, Bashenov (= Баженов or Bazhenov), it was found in ZIN collection. It has a red label 'Holotypus' without additional data. The majority of paratypes were also found in ZIN,

they are red-labeled as 'Paratypus' without additional information (apart from the common geographical labels). Only two paratypes have one more label: '*Coremacera marginata flavipes* / ssp. n. / K. Elberg, 1965'. We suppose that between 1965 and 1968 Elberg changed his original intention and named the new subspecies as *pontica* instead of *flavipes*, but he never changed his labels in ZIN. We marked the holotype and available paratypes listed in Elberg (1968) with additional label '*Coremacera marginata pontica* Elberg, 1968; det.: N. Vikhrev, 2023'. Several paratypes of *Coremacera marginata pontica* Elberg, 1968 were not found in ZIN collection, presumably, they are stored in Tartu, Estonia (where Elberg worked). One of the examined paratypes (♀, Iran, Razavi Khorasan province, Mesched, 36.3°N, 59.5°E, 15.09.1925, Jenikin) actually has dark legs and, therefore, it belongs to *C. m. marginata*.

Dichetophora finlandica Verbeke, 1964

Material. Kamilukh, 41.92°N, 46.59°E, 1930 m, 27.08.2022, O. Kosterin, 1♀.

Euthycera stictica Fabricius, 1805

Material. 15 km SW of Sergokala (≈ 42.33°N, 47.55°E), 15.07.1983, E. Narchuk, 1♀ (ZIN).

Hydromya dorsalis Fabricius, 1775

Material. 15 km SW of Sergokala (≈ 42.33°N, 47.55°E), 15.07.1983, E. Narchuk, 2♀ (ZIN); 2 km W of Khupri, 42.21°N, 45.82°E, 1600 m, 1–3.08.2023, O. Kosterin, 2♂, 1♀; Bezdonnoe Lake, 42.570°N, 46.017°E, 2520 m, 5.08.2023, O. Kosterin, 2♂; Upper Gakvari env., 42.54°N, 46.03°E, 2000 m, 6.08.2023, O. Kosterin, 1♂.

Ilione turcestanica Hendel, 1903

Material. 45 km S to Makhachkala (≈ 42.7°N, 47.7°E), 13.07.1983, E. Narchuk, 8♂, 1♀ (ZIN); Upper Gakvari env., 42.54°N, 46.03°E, 2000 m, 6.08.2023, O. Kosterin, 1♀; Gergebil Reservoir, 42.45°N, 47.03°E, 795 m, 12.09.2022, O. Kosterin, 1♂; Samur Delta Forest, Primorskiy env., 41.85°N, 48.55°E, 23–28.04.2023, N. Vikhrev, 1♂.

Limnia unguicornis Scopoli, 1763

Material. Samur Delta Forest, 41.86°N, 48.56°E, 25.06.2021, O. Kosterin, 1♂; Upper Gakvari env., 42.54°N, 46.03°E, 2000 m, 6.08.2023, O. Kosterin, 2♂, 1♀.

Pherbina coryleti Scopoli, 1763

Material. Gergebil Reservoir, 42.45°N, 47.03°E, 795 m, 12.09.2022, O. Kosterin, 2♂; Samur Delta Forest, 41.85°N, 48.56°E, 15.09.2022, O. Kosterin, 1♂.

Psacadina zernyi Mayer, 1953

Material. Samur Delta Forest, 41.85°N, 48.55°E, 23–28.04.2023, N. Vikhrev, 6♂, 5♀.

Sepedon sphegea sphegea Fabricius, 1775

Material. Gergebil Reservoir, 42.45°N, 47.03°E, 795 m, 12.09.2022, O. Kosterin, 1♂; Samur Delta Forest, 41.86°N, 48.56°E, 15.09.2022, O. Kosterin, 1♂; Samur Delta Forest, Primorskiy env., 41.85°N, 48.55°E, 23–28.04.2023, N. Vikhrev, 1♀.

Remarks. Here we follow our previous publication (Vikhrev, Yanbulat 2019), where two forms of *S. sphegea*, with a dark antennal scape or with a yellowish scape, are considered as subspecies. The nominotypic *S. s. sphegea* is distributed in the northwest of Eurasia, while *S. s. aenescens* Wiedemann, 1830 — in its southeast. Taking the opportunity, we want to clarify the distribution of these subspecies in Southwest Asia. *S. s. sphegea* was recorded from the Caucasus (from Krasnodar Region of Russia to Azerbaijan), N. Iran (Markazi province) and N. Turkey (Sakarya province). *S. s. aenescens* was recorded from S. Turkey (Antalya province) and S. Iran (Sistan and Baluchestan province).

Sepedon spinipes spinipes Scopoli, 1763

Material. Gergebil Reservoir, 42.45°N, 47.03°E, 795 m: 12.09.2022, O. Kosterin, 2♂, 1♀; 24.05.2023, O. Kosterin, 2♂, 1♀.

Tetanocera arrogans Meigen, 1830

Material. Samur Delta Forest, Primorskiy env., 41.85°N, 48.55°E, 23–28.04.2023, N. Vikhrev, 2♂.

Tetanocera ferruginea Fallen, 1820

Material. Samur Delta Forest, Primorskiy env., 41.85°N, 48.55°E, 23–28.04.2023, N. Vikhrev, 6♂, 1♀; Bezdonnoe Lake, 42.570°N, 46.017°E, 2520 m, 5.08.2023, O. Kosterin, 4♂, 4♀.

Tetanocera montana Day, 1881

Material. Upper Gakvari env., 42.54°N, 46.03°E, 2000 m, 6.08.2023, O. Kosterin, 2♂.

Trypetolimnia rossica Mayer, 1953

Material. 10 km W of Khadzhal'makhi (42.43°N, 47.05°E, 1400 m), pine-birch forest, 2.06.1972, V. Rikhter, 1♀; Sergokala (42.46°N, 47.66°E), broad-leaved forest, 31.05.1972, V. Rikhter, 1♂, 1♀ (all ZIN).

Trypetoptera punctulata Scopoli, 1763

Material. 15 km SW of Sergokala (≈ 42.33°N, 47.55°E), 15.07.1983, E. Narchuk, 2♂ (ZIN);

Samur Delta Forest, Primorskiy env., 41.86°N, 48.55°E, 27.05.2023, O. Kosterin, 2♂.

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