

References

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SYRPHIDAE (DIPTERA, SYRPHIDAE) OF GEORGIA

Work contains following abbreviations: EG - Eastern Georgia, WG - Western Georgia, OD - Our data.

Family Syrphidae [8]
Genus Paragus Latreille, 1804

1.P. tibialis (Fallen, 1817)

Distribution: EG: Tbilisi, Kareli, Borjomi, Kekhisjvari, Tsikhisjvari, Mtskheta [OD, 4,5], WG: Mzisa [OD].

2.P. albifrons (Fallen, 1817)

Distribution: EG: Tbilisi (Tbilisis Zgva), Lagodekhi [OD], WG: Batumi [6].

3.P.bicolor(Fabricius, 1794)

Distribution: EG: Borjomi, Didi Tsemi [OD].

4.P. quadrifasciatus Meigen, 1822

Distribution: EG: Mtskheta, Gori [4]. Species are mentioned for the first time in the Republic fauna of invertebrate animals.

Genus Baccha Fabricius, 1775

5.B. elongate (Fallen, 1817)

Distribution: EG: Tbilisi, Mtskheta, Kojori, Manglisi [4], WG: Gagra [6].

- 6.B. *obscuripennis* (Meigen, 1822)
 Distribution: EG: Tbilisi, Gori, Bakuriani [4,6]. WG: Tsebelda [6].
 Genus *Platichirus* Le Peletier et Serville, 1828
- 7.P1. *manicatus* Meigen, 1822
 Distribution: EG: Tbilisi, Gori, Shaumiani, Tskhratskaro [4,OD],
- 8.P1. *peltatus* Meigen, 1822
 Distribution: EG: Bakuriani, Kojori [OD,4]. Rare species.
- 9.P1. *albimanus* (Fabricius, 1721)
 Distribution: EG: Batsara national reservation (Toloshani forest), Tskhratskaro. Gori [7,OD].
- 10.P1. *immarginatus* Zetterstend, 1843
 Distribution: EG: Batsara national reservation [7].
- 11.P1. *maniceris* Meigen, 1822
 Distribution: EG: Tbilisi, Shaumiani [OD,4], WG: Korukiashi [OD].
- 12.P1. *clypeatus* Meigen, 1822
 Distribution: WG: Tsebelda, Akhali Atoni [6].
 Genus *Xanthandras* Verrall
- 13.X. *compus* Harris, 1776
 Distribution: EG: Tsikhisjvari [6].
 Genus *Melanostoma* Shiner, 1860
- 14.M. *mellinum* (Linnaeus, 1758)
 Distribution: EG: Tbilisi, Digomi, Tskneti, Lagodekhi, Borjomi, Akhaldaba, (Kamis Vake, Nedzvi), Bakuriani, Tskhratskaro, Didi Tsemi, Shiraki (Kasris tskali, Kvemo Kedebi, Vashlovani state preserve), Rekha (Tskalka region), Desi (Kazbegi region). WG: Lentekhi, Glola (Oni regeon), Khobi, Gurshevi (Mestia region), Shovi, Khulevi (Sokhumi region), Guba, Mestia, Akhalsheni (Mestia region), Omalo (Akhmeta region), Avadkhara (River Lushaspe), Chikhareshi (Lentekhi region), Zeskho (Lentekhi region), Ushguli (Lentekhi region), Poti [OD,5,6]. Mass species.
- 15.M. *scalare* Fabricius, 1805
 Distribution: EG: Mtskheta, Lagodekhi, Bakuriani, Tskhratskaro, Birkiani (Akhmeta region) [4,6,7, OD].
 WG: Gagra [6].
 Genus *leucozona* Schiner, 1860
- 16.L. *lucorum* (Linnaeus, 1758)
 Distribution: EG: Tbilisi, Gori, Mameuli, Bakuriani [4,5]. WG: Tsebelda [6].
 Genus *Eriozona* Schiner, 1860
- 17.E. *syrphoides* (Fallen, 1817)
 Distribution: WG: Tsebelda [6]. Rare species.
 Genus *Ischyrosyrphus* Bigot, 1822
- 18.Isch. *laternarius* Muller
 Distribution: EG: Magniskhevi [OD]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 19.Isch. *glaucius* Linnaeus, 1758
 Distribution: EG: Manglisi [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
 Genus *Scaeva* Fallen, 1817
- 20.Sc. *albomaculata* Macquart, 1827
 Distribution: EG: Tbilisi [4,6].
- 21, Sc. *pyrastri*, Linnaeus, 1758
 Distribution: EG: Tbilisi, Shiraki (Kasris Tskali, Kvemo Kedebi, Vashlovani state preserve), Kvareli, Omalo, Lagodekhi, [OD, 4,5]. WG: Koruldashi [OD]. Mass species.
- 22.Sc. *selenitika* Meigen, 1822
 Distribution: EG: Tbilisi, Sioni (Tianeti region), Akhaldaba, Borjomi, Lagodekhi [OD, 6]. WG: Gagra, Gudauta, Bakhmaro, Gentsvishi (Gulribshi region) [6].
 Genus *Didea* Macquart, 1834
- 23.D. *fasciata* Macquart, 1834
 Distribution: EG: Borjomi [5]. Rare species.

- 24.D. *intermedia* loew, 1846
Distribution: WG: Goderdzi mountain pass [6]. Rare species.
Genus *Syrphus* Fabricius, 1775
- 25.S. *torvus* Osten-Sacken, 1875
Distribution: EG: Sioni, Akhaldaba (Kamis vake), Didi Tsemi, Bakuriani, Shiraki (Pantishar canyon), Birkiani, Borjomi, Batsara canyon, Lagodekhi, Tskhratskaro, Gudauri [OD,4,5,6,7]. WG: Gentsvishi [6].
- 26.S. *ribessii* (Linnaeus, 1758)
Distribution: EG: Tbilisi (Ortachala), Manglisi, Sioni, Didi tsemi, Akhaldaba, Shiraki (Kvemo Kedebi), Qmalo, Lagodekhi, Borjomi [4,5 1,2,3]. WG: Gurshevi, Avatkhara, Mestia [OD].
27. S. *vitripennis* Meigen, 1852
Distribution: EG: Tbilisi, Akhaldaba, Manglisi, Didi Tsemi, Bakurani, Tskhratskaro, Vashlijvari, Sioni, Shiraki (Kvemo Kedebi) Omalo [OD]. WG: Bakuriani, Avadkhara (River Lushaspe canyon), Gentsvishi [OD].
- 28.S. *albostriatus* (Fallen, 1817)
Distribution: EG: Sagarejo, Borjomi [OD,6]. WG: Gentsvishi [OD].
- 29.S. *tricinctus* (Fallen, 1817)
Distribution: EG: Omalo, Tskhratskaro [6]. WG: Tsebelda [6]. Rare species.
- 30.S. *annulipes* (Zetterstedt, 1843)
Distribution: WG: Tsebelda [6]. Rare species.
- 31 .S. *lunutatus* Meigen, 1822
Distribution: EG: Bakuriani [6]. WG: Zekar Mountain pass [6].
- 32.S. *gutatus* (Fallen, 1817)
Distribution: WG: Tsebelda [6]. Rare species.
- 33.S. *grossulariae* Meigen, 1822
Distribution: EG: Lagodekhi [6].
- 34.S. *campestris* Verall
Distribution: WG: Koruldashi (Lentekhi region) [OD]. Species are mentioned for the first time in the Republic fauna of invertebrate animals.
- 35.S. *bifasciatus* (Fallen, 1817)
Distribution: EG: Tbilisi, Mtskheta, Kojori [4,6]. Gagra [6]. Rare species.
- 36.S. *corollae* (Fallen, 1817)
Distribution: EG: Tbilisi, Mtskheta [4], Akhaldaba, Shiraki (Kasris Tskali, Kvemo Kedebi, Vashlovani state preserve, Pantishar canyon), Ketrisi (Kazbegi region), Batsara canyon, Tbatana (Akhmeta region) [7], Kvareli [OD]. WG: Avadkhara (River Lushaspe) [OD]. Mass species.
- 37.S. *latifasciatus* Macquart, 1827
Distribution: EG: Tbilisi, Sioni, Borjomi, Akhaldaba, Kareli, Kekhisjvari (Kareli region), Omalo [4,5,6, OD]. WG: Gudauta [6].
- 38.S. *lapponicus* Zetterstend, 1843
Distribution: EG: Borjomi [4]. WG: Tsebelda, Gentsvishi, Bakhmaro, Zekar Mountain pass [6].
- 39.S. *braueri* Egger
Distribution: EG: Batsara canyon, Omalo [7,6]. WG: Tsebelda [6].
- 40.S. *luniger* Meigen, 1822
Distribution: EG: Tbilisi, Kvareli, Lagodekhi, Akhali Sopeli, Birkiani (Akhmeta region) [7], Borjomi [OD].
- 41.S. *balteatus* (De Geer, 1776)
Distribution: EG: Tbilisi (Ortachala, Tbilisi Zgva), Rustavi, Kvareli, Lagodekhi, Akhaldaba (Nedzvi), Shiraki (Kvemo Kedebi, Pantishar canyon), Borjomi [OD,5]. WG: Batumi [OD].
- 42.S. *cinctellus* Zetterstend, 1843
Distribution: EG: Borjomi [5]. WG: Tsebelda [6]. Rare species.
43. S. *annulatus* Zetterstend, 1843
Distribution: WG: Tsebelda [6].
- 44.S. *compositaram* Verall
Distribution: EG: Kojori, Tskhratskaro, Omalo [4,6]. WG: Mestia [OD].
45. S. *cinctus* Fallen, 1817
Distribution: EG: Gori, Borjomi [4,5]. WG: Gagra [4,6]. Rare species.

46. *S. umbellatarum* (Fallen, 1817)
Distribution: EG: Sakheva (Akhmeta region), Lagodekhi, Kumisi [4,6]. WG: Tsebelda [6].
47. *S. eggeri* Schiner, 1860
Distribution: EG: Omalo [6]. Rare species.
48. *S. nitens* Zetterstend, 1843
Distribution: WG: Tsebelda [6].
49. *S. auricollis* Meigen, 1822
Distribution: EG: Bakuriani [1]. WG; Gentsvishi [6].
50. *S. venustus* Meigen, 1822
Distribution: EG: Bakuriani [4]. WG: Tsebelda [6].
51. *S. lasiophthalmus* Zetterstend, 1843
Distribution: WG: Tsebelda [6].
52. *S. punctullatus* Verall
Distribution: WG: Tsebelda [6].
53. *S. niticollis* Meigen, 1822
Distribution: EG: Tbilisi, Surami [4]. Species are mentioned for the first time in the Republic fauna of invertebrate animals.

Genus *Sphaerophoria* Le Peletier et Serville, 1828

54. *Sph. meppelli* (Wiedemann, 1830)
Distribution: EG: Tbilisi, Lagodekhi, Batsara canyon [7].
55. *Sph. picta* Meigen, 1882
Distribution: EG: Akhaldaba, Birkiani, Batsara canyon [7].
56. *Sph. scripta* Linnaeus, 1758
Distribution: EG: Tbilisi, Borjomi [6], Kojori [6], Shiraki (Kasris Tskali, Kvemo Kedebi, Vashlovani state preserve, Pantishar canyon), Omalo, Birkiani, Jokolo (Akhmeta region) [OD]. WG: Shovi, Tsana (Lentekhi region), Poti [OD]. Mass species.
57. *Sph. dubia* Zetterstend, 1843
Distribution: EG: Bakuriani [1].
58. *Sph. mentastri* Linnaeus, 1758
Distribution: EG: Tbilisi, Sioni, Lagodekhi, Akhaldaba (Kamis vake), Didi Tsemi, Bakuriani (Tskhratskaro), Detsi (Trialeti mount range), Tkemlovani, Omalo, Akhali sopeli (Tianeti region), Birkiani [7], Batsara canyon [7], Shiraki (Kasris Tskali, Vashlovani state preserve), Borjomi [OD,5]. WG: Glola (Oni region), Shovi, Akhasheni (Lentekhi region), Ushguli, Tsaglolo, Koruldashi, Gurshevi (Mamison Mountain), Mestia [OD]. Mass species.
59. *Sph. sarmatica* Bankovska, 1964
Distribution: EG: Lagodekhi, Omalo [6]. WG: Tsebelda [6].
60. *Sph. turkmenica* Bankovska, 1964
Distribution: EG: Borjomi [6].

Genus *Xanthogramma* Schiner, 1860

61. *Xanth. pedisequum* Harris (=ornatum Meigen), 1776
Distribution: EG: Sioni, Kojori, Borjomi [OD,5].
62. *Xanth. citrofasciatum* De Geer, 1776
Distribution: WG: Tsebelda, Zekar Mountain pass [6].

Genus *Chrysotoxum* Meigen, 1803

63. *Chr. cautum* Harris, 1776
Distribution: EG: Borjomi [5].
64. *Chr. bicinctum* Linnaeus, 1758
Distribution: EG: Tkemlovani (Trialeti Mount Range), Borjomi [OD,5].
65. *Chr. festivum* Linnaeus, 1758
Distribution: EG: Borjomi [5].
66. *Chr. octomacullatum* Curtis
Distribution: EG: Tbilisi, Borjomi, Omalo [6,5].
67. *Chr. elegans* Loew, 1848
Distribution: WG: Koruldashi [4]. Species are mentioned for the first time in the Republic fauna of invertebrate animals.

68. *Chr. verralli* Collin, 1931
Distribution: EG: Tbilisi [6].
69. *Chr. macqarti* Loew, 1848
Distribution: WG: Zekar mountain pass [OD], Species are mentioned for the first time in the Republic fauna of invertebrate animals.
70. *Chr. arcuatum* Linnaeus, 1758
Distribution: WG: Tsebelda [6]. Rare species.
71. *Chr. caucasicum* Linnaeus, 1758
Distribution: WG: Tsebelda [6]. Rare species.
72. *Chr. fasciolatum* De egger, 1776
Distribution: WG: Tsebelda [6]. Rare species.
Genus *Rhingia* Scopoli, 1763
73. *Rh. rostrata* Linnaeus, 1758
Distribution: EG: Surami, Kojori, Borjomi, Bakuriani [4,5,6]. WG: Sokhumi, Gagra, Bakhmaro [6].
74. *Rh. campestris* Meigen, 1822
Distribution: EG: Bakuriani [1]. WG: Tsebelda, Gudauta, Goderdzi Mountainpass [6].
Genus *Neoascia* Williston
75. *N. interrupta* Meigen, 1822
Distribution: WG: Gentsvishi [6]. Rare species.
76. *N. aenea* Meigen, 1822
Distribution: EG: Batsara canyon [7].
77. *N. podagrica* Fabricius, 1794
Distribution: EG: Tbilisi [6]. WG: Kakhaberi (Batumi region) [6].
78. *N. floralis* Meigen, 1822
Distribution: EG: Mitarbi, Borjomi, Bakuriani [4,6, OD]. WG: Avadkhara [6,OD].
79. *N. oblique* Coe
Distribution: EG: Bakuriani [6]. Rare species.
80. *N. geniculata* Meigen, 1822
Distribution: EG: Bogdanovka [6].
Genus *Pipizela* Rondani, 1861
- 8 LP. *virens* Fallen, 1817
Distribution: EG: Sioni, Bakuriani, Tsikhisjvari, Borjomi, Batsara canyon [5,OD].
Genus *pipiza* Fallen, 1810
82. *P. festiva* Meigen, 1822
Distribution: EG: Kojori [6]. WG: Gentsvishi [6].
83. *P. nocticula* Linnaeus, 1758
Distribution: EG: Omalo, Kojori [6,4]. WG: Gentsvishi [6].
Genus *Myiolepta* Newman
84. *M. luteola* Gmelin, 1730
Distribution: EG: Samukhi [6].
Genus *Liogaster* Rondani, 1861
85. *L. splendida* Meigen, 1822
Distribution: WG: Sukhun-Kale [6].
86. *L. metallina* Fabricius, 1777
Distribution: WG: Tsebelda [6].
Genus *Orhoneura* Macquart, 1829
87. *Orth. Plumbago* Loew, 1848
Distribution: EG: Akhaldaba [1].
88. *Orth. splendens* Meigen, 1822
Distribution: EG: Bakuriani [1].
89. *Orth. Nobilis* (Fallen, 1817)
Distribution: EG: Tbilisi, Borjomi, Tkemlovani (Trialeti Mount range) [4,6,OD]. WG: Tsebelda [6].
90. *Orth. brevicomis* Loew, 1848
Distribution: EG: Manglisi, Shaumiani [4].
- 9L *Orth. elegans* Meigen, 1822

- Distribution: WG: Tsebelda [6].
92. *Orth. nobilis* (Fallen, 1817)
 Distribution: EG: Tbilisi, Borjomi [4]. WG: Tsebelda [6].
 Genus *Chrysogaster* Meigen, 1822
93. *Chr. macquart* Loew, 1848
 Distribution: EG: Sioni, Bakuriani, Batsara region [7]. WG: Tsebelda, Goderdzi Mountain pass, Zekari pass [6,OD].
94. *Chr. solstitialis* (Fallen, 1817)
 Distribution: EG: Bakuriani [6]. WG: Tsebelda [6].
95. *Chr. viduata* Linnaeus, 1758
 Distribution: EG: Rekha (Tsalka region) [4]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
96. *Chr. musatovi* Stackelberg, 1956
 Distribution: EG: Borjomi [1]. WG: Tsebelda [6].
97. *Chr. brevicomis* Loew, 1848
 Distribution: EG: Manglisi, Shaumiani [4], Tsebelda [6].
98. *Chr. intermedia* Lenneke, 1758
 Distribution: EG: Bakuriani [4]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
99. *Chr. chalybeata* Meigen, 1822
 Distribution: EG: Tbilisi [4]. WG: Gagra [4]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
 Genus *Cheilosia* Meigen, 1822
100. *Ch. nigripes* Meigen, 1822
 Distribution: EG: Kojori, Borjomi, Akhaldaba (Kamis vake) [4,5, OD]. WG: Tsebelda [6].
101. *Ch. soror* Zetterstendt, 1843
 Distribution: EG: Tbilisi, Birkiani, Batsara canyon [6,7]. WG: Tsebelda [6].
102. *Ch. Scutellata* (Fallen, 1817)
 Distribution: EG: Sioni [OD], Borjomi [5], Omalo [6]. WG: Tsebelda, Goderdzi Mountain pass [6].
103. *Ch. alpine* Zetterstendt, 1843
 Distribution: EG: Lagodekhi, Batsara canyon [7].
104. *Ch. variabilis* Panzer, 1798
 Distribution: EG: Tbilisi [4], Gori [4], Tskhratskaro [1], Batsara canyon [7]. WG: Tsebelda, Zekar Mountain pass [6].
105. *Ch. canicularis* Panzer, 1798
 Distribution: EG: Borjomi, Bakuriani, Abastumani [5,6]. WG: Shovi, Kodori canyon, Gurshevi, Avadkhara, Gentsvishi, Rhexhashka, Kobuleti, Banks of the river Supsa [6].
106. *Ch. impressa* Loew, 1848
 Distribution: EG: Tbilisi [4]. WG: Gurshevi [OD]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
107. *Ch. velutina* Loew, 1848
 Distribution: EG: Bakuriani [1]. WG: Tsebelda [6].
108. *Ch. vernalis* (Fallen, 1817)
 Distribution: EG: Mtskheta, Manglisi, Bakuriani [4,OD]. WG: Tsebelda [6].
109. *Ch. chloris* Meigen, 1822
 Distribution: WG: Gurshevi [OD]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
110. *Ch. armeniaca* Stackelberg, 1956
 Distribution: EG: Omalo [6]. Endem of Caucasus.
111. *Ch. gigantea* Zetterstendt, 1843
 Distribution: EG: Tbilisi [4], Bakuriani [6]. WG: Batumi, Bakhmaro, Zekari pass, Goderdzi pass [6].
112. *Ch. grisella* (Becker, 1894)
 Distribution: EG: Bakuriani [6]. WG : Tsebelda [6].
113. *Ch. melanura* Becker, 1921
 Distribution: WG: Tsebelda, Zekari pass [6].

- 114.Ch. *mutabilis* (Fallen, 1817)
Distribution: EG: Tbilisi, Tana canyon [4], Kojori, Bakuriani, Tskhratskaro [6].
- 115.Ch. *pictipennis* Egger
Distribution: EG: Bakuriani [6]. WG: Tsebelda [6].
- 116.Ch. *ponilifacies* Stackelberg, 1956
Distribution: EG: Avadkhara, Goderdzi pass [6]. Endem of Caucasus.
- 117.Ch. *portschinskiana* Stackelberg, 1956
Distribution: EG: Borjomi, Bakuriani, Tskhratskaro, Lagodekhi, Pasaauri, Kazbegi [6]. WG: Tsebelda [6]. Endem of Caucasus.
- 118.Ch. *ruralis* Meigen, 1822
Distribution: EG: Lagodekhi [6].
- 119.CL *albipina* Meigen, 1822
Distribution: WG: Bakhmaro, Zekari pass, Goderdzi pass, Tsebelda [6].
- 120.Ch. *schnabli* Becker, 1921
Distribution: WG: Bakhmaro [6].
- 121.Ch. *transcaucasica* Stackelberg, 1956
Distribution: EG: Lagodekhi [6], WG: Goderdzi pass, Tsebelda [6]. Endem of Caucasus.
- 122.Ch. *zetterstendti* Becker, 1921
Distribution: WG: Goderdzi pass, Tsebelda [6].
- 123.Ch. *latifacies* Loew, 1846
Distribution: EG: Lagodekhi [4]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
- 124.Ch. *albitarsis* Meigen, 1822
Distribution: EG: Borjomi [4]. Species are mentioned for the first time in the Republic fauna of intertebrate animals.
- 125.Ch. *grossa* Meigen, 1822
Distribution: EG: Lagodekhi [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 126.Ch. *chrysocoma* Meigen, 1822
Distribution: EG: Mtskheta [4]. Species are mentioned for the first time in the Republics fauna of intertebrate animals.
- 127.Ch. *oestracae* (Linnaeus, 1758)
Distribution: EG: Tskhratskaro [4]. Species are mentioned for the first time in the Republics fauna of intertebrate animals.
- 128.Ch. *pagana* Meigen, 1822
Distribution: EG: Kumisi [4]. WG: Tsebelda [6].
- 129.CL *verae* Stackelberg, 1956
Distribution: WG: Bakhmaro, Goderdzi pass [6]. Endem of Caucasus.
- 130.Ch. *pseudogrossa* Stackelberg, 1956
Distribution: WG: Tsebelda [6]. Endem of Caucasus.
Genus *Ferdinanda* Rondani, 1861
- 131.F. *cuprea* Scopoli, 1763
Distribution: WG: Tsebelda [6].
- 132.F. *aurea* Rondani, 1861
Distribution: EG: Tbilisi [6].
Genus *Callicera* Panzer, 1798
- 133.C. *aenea* Fabricius, 1777
Distribution: EG: Lagodekhi [4]. WG: Akhali Atoni, Mzivi (Java region). [6].
Genus *Volucella* Geoffroy, 1762
- 134.V. *Bombylans* Zetterstendti, 1843.
Distribution: EG: Tbilisi, Mtskheta, Tkemlovani, Borjomi, Tana canyon, Bakuriani, Oamlo, Abastumani. WG: Batumi, Zekar mountain pass, Goderdzi Mountain pass, Tsebelda [OD,6].
- 135.V. *zonaria* Poda
Distribution: EG: Tkemlovani, Borjomi, Tbilisi [4,5, OD]. WG: Batumi [4].
- 136.V. *pellucens* Linnaeus, 1758

- Distribution: EG: Bakuriani, Tbilisi, Borjomi, Batsara canyon. [6,7]. WG: Shovi, Akhali Atoni, Gagra, Sokhumi, Glola, Tsebelda [4,5,6,7, OD].
- 137.V. *inanis* Linnaeus, 1758
Distribution: EG: Tsnori, Borjomi [5,6]. WG: Gentsvishi [6].
- 138.V. *inflata* (Fallen, 1817)
Distribution: WG: Akhali Atoni [6].
Genus *Arctophila* Shiner, 1860
- 139.Arct. *musatovi* (Fallen, 1817)
Distribution: EG: Tkemlovani [OD]. WG: Gurshevi [OD].
140. Arct. *bequarti* Have-Basin, 1914
Distribution: EG: Bakuriani [6]. WG: Batumi [6].
- 141 .Arct. *bomboformis* (Fallen, 1817)
Distribution: EG: Bakuriani [6].
Genus *Sericomyia* Meigen, 1822
- 142,Ser. *borealis ciscausica* Shtakelberg, 1976
Distribution: EG: Borjomi [5]. Endem of Cucasus.
Genus *Eristalis* Latreille, 1804
- 143.Er. *tenax* Linnaeus, 1758
Distribution: EG: Sioni, Birkiani, Mtskheta, Mameuli [6,7]. WG: Shovi, Utsera, Gurshevi, Poti [6, OD].
- 144.Er. *hordeola* DeGeer, 1776
Distribution: EG: Bakuriani, Borjomi, Gori [4,6]. WG: Utsera, Gurshevi [OD].
- 145.Er. *nemorum* Linnaeus, 1758
Distribution: EG: Akhaldaba, Bakuriani, Borjomi [OD,5,6]. WG: Gagra, Batumi [4].
- 146.Er. *arbustorum* Linnaeus, 1758
Distribution: EG: Tbilisi, Birkiani, Batsara canyon, Borjomi, Tsikhisjvari [4,5,7, OD].WG: Gurshevi [OD].
- 147.Er. *pertinax* Scopoli, 1763
Distribution: EG: Tbilisi, Borjomi, Bakuriani, Lagodekhi, Batsara canyon [5,6,7, OD]. WG: Mestia, Tsebelda, Gulripshi, Poti [6].
- 148.Er. *jugorum* Egger
Distribution: EG: Bakuriani [6]. WG: Tsebelda, Godedzi pass, Zekar pass [6].
- 149.Er. *Pratorum* Meigen, 1822
Distribution: EG: Tsebelda [6]. Rare species.
- 150.Er. *intrikarius* Linnaeus, 1758
Distribution: EG: Tbilisi, Mtskheta [4]. WG: Batumi [6]. Rare species.
- 151 .Er. *rapium* Fabricius, 1777
Distribution: EG: Lagodekhi, Bakuriani [4]. WG: Goderdzi pass [6].
- 152.Er. *sepulcralis* Linnaeus, 1758
Distribution: EG: Bakuriani [4]. Species are mentioned for the first time in the Republics fauna of intertebrate animals.
- 153.Er. *oestraceus* Linnaeus, 1758
Distribution: EG: Lagodekhi, Tskhratskaro, Bakuriani [4]. Species are mentioned for the first time in the Republics fauna of intertebrate animals.
Genus *Myiatropa* Rondani, 1861
- 154.M. *florae* Linnaeus, 1758
Distribution: EG: Tbilisi, Manglisi, Borjomi, Batsara canyon (Urani Mountain) [4,5,7, OD]. WG: Tsana, Kodori canyon [OD].
Genus *Helophilus* Meigen, 1822
- 155.Hel. *trivitatus* Fabricius, 1777
Distribution: EG: Tbilisi [6]. WG: Sokhumi, Gentsvishi, Tsebelda, Mestia, Goderdzi pass [6].
- 156.Hel. *pendulus* Linnaeus, 1758
Distribution: EG: Manglisi, Borjomi [4]. WG: Goderdzi pass [6].
- 157.Hel. *continuus* Loew, 1846

- Distribution: EG: Bakuriani [4]. WG: Goderdzi pass [6].
- 158.Hel. (Mesembriuc) peregrinus Loew, 1846
Distribution: EG: Tbilisi [6]. WG: Kobuleti [6].
- 159.Hel. lineatus (Fallen, 1817)
Distribution: EG: Tbilisi, Gori [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- Genus Merodon Meigen, 1822
- 160.M.ruficomis Meigen, 1822
Distribution: EG: Kojori, Tbilisi [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 161.M.abarrans Egger
Distribution: EG: Kojori, Bakuriani [4,6]. WG: Gurshevi [OD].
- 162.M. rufipes Sack, 1932
Distribution WG: Sokhumi, Gurshevi [4, OD]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 163.M. loewi (= graecus Loew) Vander Coot
Distribution: EG: Lagodekhi, Tskhratskaro [OD,6]. WG: Zekar Mountain pass.
- 164.M. caucasicus Potschinkyi, 1881
Distribution: EG: Borjomi, Mleta [5,6]. Endem ofCucanus.
- 165.M. spinipes Fabricius, 1794
Distribution: EG: Tbilisi, Omalo [4,6].WG:Batumi, Goderdzi Mountain pass.
- 166.M. batumicus Paramonov, 1925
Distribution WG: Batumi [6]. Endem ofCucanus.
- 167.M.portshinskyi Sthakelberg, 1956
Distribution: EG: Lagodekhi, Tskhratskaro [6]. WG: Godedzi Mountain pass, Tsebalda [6]. Endem of Caucasus.
- 168.M. gudauriensis Potshinskyi, 1881
Distribution: EG: Gudauri [6]. Endem ofCaucanus.
- 169.M.nanus Sack, 1932
Distribution: EG: Bakuriani [6].
- 170.M. cinereus Fabricius, 1777
Distribution WG: Bakhmaro [6].
- 171.M. femoralis Sack, 1932
Distribution WG: Batumi, Goderdzi Mountain pass [6].
- 172.M. aenus Meigen, 1822
Distribution: EG: Kojori [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 173.M. albifrons Meigen, 1822
Distribution: WG: Gagra [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- Genus Eumerus Meigen, 1822
- 174.E.strigatus (Fallen, 1917)
Distribution: EG: Akhaldaba (Kamis vake) [1].
- 175.E. clavatus Becker, 1921
Distribution: EG: Zirbiti [OD]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 176.E. argyropus Loew, 1848
Distribution: WG: Gagra [6].
- 177.E. caucasicus Shtakelberg 1956
Distribution: WG: Gudauta [6]. Endem ofCaucanus.
- 178.E. sogdianus Shtakelberg, 1956
Distribution: WG: Kutaisi [6].
- 179.E. tricolor Meigen, 1822
Distribution: EG: Kojori [4]. WG: Tsebalda [6].

- 180.E. ornatus Meigen, 1822
Distribution: EG: Tbilisi [4], Mtskheta [4], Lagodekhi [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
- 181.E. ovatus Loew, 1848
Distribution: EG: Tbilisi [4], Kojori [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
Genus Microdon Meigen, 1822
- 182.Micr. mutabilis (Linnaeus, 1758)
Distribution: EG: Batsara canyon, Bakuriani [7,6].WG: Akhali Atoni, Tsebelda [6].
- 183.Micr. egger Mick, 1897
Distribution: EG: Tbilisi [6]. WG: Tsebelda [6].
Genus Criorrhina Meigen, 1822
- 184.Cr. berberiana (Fallen, 1817)
Distribution: WG: Gagra, Bakhmaro, Tsebelda [6].
- 185.Cr. portshinski Shtakelberg, 1956
Distribution: WG: Tsebelda [6]. Endem of Caucasus.
Genus Xylota Meigen, 1822
- 186.X. lenta Linnaeus, 1758
Distribution: WG: Tsebelda [6].
- 187.X. tarda Meigen, 1822
Distribution: EG: Kojori, Borjomi [5], Pasanauri [6].
- 188.X. silvarum Linnaeus, 1758
Distribution: EG: Lagodekhi [OD,6], Borjomi [5]. WG: Tsebelda, Gentsvishi, Sokhumi [6].
- 189.X. segnis Linnaeus, 1758
Distribution: EG: Kojori, Manglisi, Tbilisi [4,6]. WG: Gagra, Sokhumi, Tsebelda [6].
- 190.X. pigra Fabricius, 1777
Distribution: WG: Tsebelda [6].
Genus Syritta Le Peletier et Serville, 1828
- 191.S.pipiens Linnaeus, 1758
Distribution: EG: Shiraki (Kvemo Kedebi, Kasris Tskali, Vashlovani state preserve, Pantishar canyon), Tbilisi, Desi (Kazbegi region), Borjomi, Kojori, Manglisi [4,5,6, OD].WG: Koruldashi, Tsebelda [OD,6].
Genus Calliprobola Rondani, 1861
- 192.C. speciosa Rossi, 1790
Distribution: EG: Borjomi [5].
Genus Spilomyia Meigen, 1803
- 193.Sp. manicata Rondani, 1862
Distribution: EG:Tbilisi, Pasanauri, Khashmi, Mtskheta [4,5,6]. WG: Gentsvishi [6].
- 194.Sp. diophtalma Linnaeus, 1758
Distribution: EG: Borjomi [5]. WG: Shovi [OD].
Genus Temnostoma Farg et Serv.
- 195,Temn. vespiforme Linnaeus, 1758
Distribution: EG:Tbilisi, Gori, Borjomi, Abastumani [4,5,6]. WG: Tsebelda, Tsana, Gurshevi [6, OD].
- 196.Temn. meridionale Krivocheina et Mamajev
Distribution: EG: Borjomi [5]. WG: Tsebelda [6].
Genus Ceriana Rafinesque
- 197.Cer. caucasica Paramonov, 1925
Distribution: EG: Samukhi [6].
Genus Hammerschmidtia Schummel
- 198.Hamm. ferruginea Fallen, 1817
Distribution: EG: Bakuriani [6].
Genus Lathyrophthalmus Mick, 1897
- 199.Lath. aenus (Scopoli, 1763)
Distribution: EG: Tbilisi, Lagodekhi [6].

200. Lath. quinquelineatus Fabricius, 1805
Distribution: EG: Borjomi [5].
Genus Brachypalpus Macquart, 1827
201. Br. chrysites Egger
Distribution: WG: Tsebelda, Zekar Mountain pass [6].
202. Br. nigrifacies Shtakelberg, 1958
Distribution: EG: Kojori [6]. WG: Tsebelda [6]. Endem of Caucasus.
Genus Conosyrphus Frey
203. Con. volucellus Portshinsky, 1881
Distribution: EG: Omalo [6]. Endem of Caucasus.
Genus Milesia Fabricius
204. Mil. crabroniformis Linnaeus, 1758
Distribution: WG: Poti [4], Akhali Atoni, Sokhumi, Tsikhisdziri [6].
Genus Sphegina Meigen, 1822
205. Sph. verecunda Collin, 1931
Distribution: WG: Tsebelda [6].
206. Sph. elunipes (Fallen, 1817).
Distribution: WG: Batumi [4]. Species are mentioned for the first time in the Republics fauna of invertebrate animals.
Genus Cnemodon
207. Cn. latitarsis Egger, 1776
Distribution: WG: Tsebelda [6].
Genus Chamaesyrphus Mick, 1758
208. Cham. scaevoides (Fallen, 1817)
Distribution: WG: Tsebelda [6].
Genus Ischiodon
209. Isch. scutellare Fabricius, 1794
Distribution: WG: Kobuleti [6].
Genus Eristalinus Rondani, 1845
210. Er. sepulclaris (Linnaeus, 1758)
Distribution: EG: Tbilisi, Bakuriani [6,4]. WG: Kobuleti [6].
Genus Conosyrphus Frey
211. Con. volucellinus Portshinski, 1881
Distribution: EG: Omalo [6]. Endem of Caucasus.

მ. გუჯაბიძე

საქართველოს სირფიდები (Diptera, Syrphidae)

რეზიუმე

ნაშრომში მოცემულია საქართველოში გავრცელებული სირფიდების (Diptera, Syrphidae) 211 სახეობის ფაუნისტური სია, რომელთაგან 27 სახეობა პირველად მოიხსენიება რესპუბლიკის უზენაესი ცხოველთა ფაუნისათვის.

М. Г. Гуджабидзе

Сирфиды (Diptera, Syrphidae) Грузии

Резюме

В работе представлен фаунистический список 211 видов сирфид, из которых 27 видов впервые упоминаются для фауны сирфид Грузии.

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ЧЕРНОМОРСКИЙ ЛОСОСЬ В ПРОШЛОМ, В НАСТОЯЩЕМ И В БУДУЩЕМ, РАЗРАБОТКА СТРАТЕГИИ МЕНЕДЖМЕНТА И РЕАБИЛИТАЦИИ

Первые сведения о лососевых черноморского бассейна появились еще в начале XIX-го века [47, 44]. По данным многих исследователей [29, 2, 27] популяция черноморского лосося в конце 19-го начале 20-го столетий у побережья Грузии достигала высокой численности и была представлена старшими возрастными группами. Черноморский лосось относился к ценным промысловым рыбам.

Описывая данный вид, Л. С. Берг [7] установил большое сходство черноморского лосося с атлантическим (*Salmo salar*) и назвал его *Salmo salar labrax*, а позднее пришел к выводу, что его все же следует рассматривать как подвид кумжи [8]. Некоторые авторы, в том числе и Барач [3] считали, что черноморский лосось ближе к северному лососю, чем к кумже, но настолько отличается и от него, что может быть выделен в особый вид *Salmo labrax*. Существовали и другие мнения относительно систематического положения черноморского лосося. Так, А. Н. Державин [20, 21] высказал предположение, что не форель произошла от кумжи, а наоборот, *Salmo trutta* произошла от *Salmo m. fario* L. и многие авторы [14, 15, 5, 1] стали именовать черноморского лосося *Salmo fario labrax*, то есть рассматривать его как подвид форели или даже как ее морфу - *Salmo fario morpha labrax*.

Таким образом, из-за отсутствия надежных критериев, отличающих черноморского лосося от *Salmo trutta* и *Salmo salar*, его видовая принадлежность долгое время оставалась предметом споров среди ихтиологов. Трудность выяснения систематического положения данного вида обычными методами потребовала более современных методов исследования. Так, экспериментальные работы по кариологии [23] и остеологии [24] окончательно разрешили данную проблему.

При исследовании кариотипов атлантического лосося (*Salmo salar*) и кумжи (*Salmo trutta*) [41, 48] были установлены отличия как в числе хромосом, так и в их строении. В кариотипе атлантического лосося диплоидное число хромосом равно 60, у кумжи - 80. Исследование кариотипа черноморского лосося [23] показало, что его диплоидный набор содержит 80 хромосом и не отличается строением от кариотипа кумжи. Это дало основание утверждать, что черноморский лосось генетически не связан с северным лососем. Результаты остеологических исследований также подтвердили правильность сделанного вывода, выявив наибольшую близость черноморского лосося и кумжи.

Рассматривая кумжу как представителя северной ихтиофауны, большинство исследователей [9, 10, 39, 40, 26, 33] связывают ее проникновение в бассейны Черного, Каспийского и Аральск-