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**AN ANNOTATED LIST OF THE DROSOPHILID FLIES (DIPTERA:  
DROSOPHILIDAE) OF KRASNODARSKY KRAI**

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**Summary.** An annotated list of 33 species in 11 genera of the drosophilid flies of Krasnodarsky krai is given; among them 17 species are recorded from this region for the first time. The drosophilid fauna of Krasnodarsky krai is compared with fauna of the Republic of Adygea.

**Key words:** Diptera, Drosophilidae, fauna, new records, North Caucasus, Russia.

**Н. Г. Горностаев, Ю. В. Люпина. Аннотированный список мух-дрозофилид (Diptera: Drosophilidae) Краснодарского края // Дальневосточный энтомолог. 2023. N 490. С. 10-16.**

**Резюме.** Приведен аннотированный список 33 видов из 11 родов мух-дрозофилид Краснодарского края, из которых 17 видов впервые отмечаются для этого региона. Проведено сравнение фауны дрозофилид Краснодарского края и Республики Адыгеи.

**INTRODUCTION**

The previous regional list of the drosophilid flies (Drosophilidae) of Krasnodarsky krai includes sixteen species of seven genera (Gornostaev, 1997). Here we present new additions to this list after examination of the materials collected by both authors in this region.

**MATERIAL AND METHODS**

Drosophilid flies were collected in Krasnodarsky krai in Guamka (44°13' N, 39°54' E), Volkonka (43°52' N, 39°23' E), Lazarevskoe (43°54' N, 39°19' E), Olginka (44°11' N, 38°53' E) in 2007, 2009, 2012, 2013 by N.Gornostaev (NG) and Y.Lyupina (YL) on various mushrooms and decaying fruit. All collected specimens were stored in 70% ethanol and determined by the first author. New for Krasnodarsky krai records are asterisked (\*).

**LIST OF SPECIES**

**Family Drosophilidae**

**Subfamily Steganinae**

**\**Amiota (Amiota) albilabris* (Roth in Zetterstedt, 1860)**

**MATERIAL. Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 7 ♂ (NG).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

**\*Phortica (*Phortica*) variegata (Fallén, 1823)**

MATERIAL. **Russia:** Krasnodarsky krai, Guamka, 1–30.VIII 2012, 5 ♂ (NG).

DISTRIBUTION. Widespread in Europe and European Russia (Bächli & Rocha Pité, 1984; Gornostaev, 1997).

**\*Gitona distigma Meigen, 1830**

MATERIAL. **Russia:** Krasnodarsky krai, Olginka, 1–30.VIII 2007, 3 ♂, 5 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

***Leucophenga maculata* (Dufour, 1839)**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 3 ♂, 2 ♀ (NG); Guamka, 1–30.VIII 2012, 2 ♂, 3 ♀ (YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and in the south of Russia (Gornostaev, 1997; Sidorenko, 2001), recently found in Mordovia (Ruchin *et al.*, 2021; Gornostaev *et al.*, 2022).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**Subfamily Drosophilinae**

**\*Chymomyza amoena (Loew, 1862)**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 22 ♂, 25 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001), recently found in Adygea (Gornostaev & Lyupina, 2023).

***Chymomyza caudatula* Oldenberg, 1914**

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**\*Drosophila (*Dorsilopha*) busckii Coquillett, 1901**

MATERIAL. **Russia:** Krasnodarsky krai, Olginka, 1–30.VIII 2007, 2 ♂, 4 ♀ (NG, YL); Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 10 ♂, 15 ♀ (NG, YL).

DISTRIBUTION. Cosmopolitan synanthropic species (Bächli & Rocha Pité, 1984), widespread in Russia (Gornostaev, 1997; Sidorenko, 2001).

**\*Drosophila (*Drosophila*) funebris (Fabricius, 1787)**

MATERIAL. **Russia:** Krasnodarsky krai, Olginka, 1–30.VIII 2007, 8 ♂, 5 ♀ (NG, YL); Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 32 ♂, 45 ♀ (NG, YL).

DISTRIBUTION. Cosmopolitan synanthropic species (Bächli & Rocha Pité, 1984), widespread in Russia (Gornostaev, 1997; Sidorenko, 2001).

**\**Drosophila (Drosophila) histrio* Meigen, 1830**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 6 ♂, 7 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 4 ♂, 4 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

***Drosophila (Drosophila) hydei* Sturtevant, 1921**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 18 ♂, 21 ♀ (NG, YL).

DISTRIBUTION. Cosmopolitan synanthropic species (Bächli & Rocha Pité, 1984), widespread in Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**\**Drosophila (Drosophila) immigrans* Sturtevant, 1921**

MATERIAL. **Russia:** Krasnodarsky krai, Olginka, 1–30.VIII 2007, 1 ♂, 1 ♀ (NG, YL); Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 8 ♂, 11 ♀ (NG, YL).

DISTRIBUTION. Cosmopolitan synanthropic species (Bächli & Rocha Pité, 1984), widespread in Russia (Gornostaev, 1997; Sidorenko, 2001).

**\**Drosophila (Drosophila) kuntzei* Duda, 1924**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 26 ♂, 27 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 5 ♂, 6 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

**\**Drosophila (Drosophila) limbata* von Roser, 1840**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 1 ♂, 2 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 1 ♀ (NG).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

***Drosophila (Drosophila) littoralis* Meigen, 1830**

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Drosophila (Drosophila) lummei* Hackman, 1972**

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Drosophila (Drosophila) phalerata* Meigen, 1830**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 36 ♂, 42 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 14 ♂, 8 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Drosophila (Drosophila) testacea* von Roser, 1840**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 1 ♂, 2 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 2 ♂, 2 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Drosophila (Drosophila) transversa* Fallén, 1823**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 15 ♂, 12 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 3 ♂, 4 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Drosophila (Sophophora) helvetica* Burla, 1948**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 4 ♂ (NG).

DISTRIBUTION. Widespread in the south of Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**\**Drosophila (Sophophora) melanogaster* Meigen, 1830**

MATERIAL. **Russia:** Krasnodarsky krai, Olginka, 1–30.VIII 2007, 20 ♂, 25 ♀ (NG, YL); Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 232 ♂, 245 ♀ (NG, YL).

DISTRIBUTION. Cosmopolitan synanthropic species (Bächli & Rocha Pité, 1984), widespread in Russia (Gornostaev, 1997; Sidorenko, 2001).

***Drosophila (Sophophora) obscura* Fallén, 1823**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 35 ♂, 33 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 5 ♂, 5 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and European Russia (Gornostaev, 1997).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**\**Drosophila (Sophophora) simulans* Sturtevant, 1919**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 6 ♂, 2 ♀ (NG, YL).

DISTRIBUTION. Cosmopolitan synanthropic species (Bächli & Rocha Pité, 1984), found in Russia (Sidorenko, 2001).

***Drosophila (Sophophora) subobscura* Collin in Gordon, 1936**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 30 ♂, 35 ♀ (NG, YL); Guamka, 1–30.VIII 2012, 21 ♂, 25 ♀ (NG, YL).

DISTRIBUTION. Widespread in Europe (Bächli & Rocha Pité, 1984) and North Caucasus (Gornostaev, 1997).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Drosophila (Sophophora) tristis* Fallén, 1823**

MATERIAL. **Russia:** Krasnodarsky krai, Guamka, 1–30.VIII 2012, 3 ♂ (YL).

DISTRIBUTION. Widespread in Europe (Bächli & Rocha Pité, 1984) and North Caucasus (Gornostaev, 1997), recently found in Mordovia (Gornostaev et al., 2022).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Hirtodrosophila confusa* (Staeger, 1844)**

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**\**Hirtodrosophila toyohiokadai* (Sidorenko, 1990)**

MATERIAL. **Russia:** Krasnodarsky krai, Guamka, 1–30.VIII 2012, 1 ♂ (NG).

DISTRIBUTION. Widespread in Russia (Gornostaev, 1997; Sidorenko, 2001).

**\**Hirtodrosophila trivittata* (Strobl, 1893)**

MATERIAL. **Russia:** Krasnodarsky krai, Volkonka, 1–30.VIII 2009, 1–30.VI.2013, 3 ♂, 6 ♀ (NG, YL)

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

**\**Lordiphosa fenestrarum* (Fallén, 1823)**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 4 ♂, 5 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

***Mycodrosophila poecilogastra* (Loew, 1874)**

MATERIAL. **Russia:** Krasnodarsky krai, Guamka, 1–30.VIII 2012, 2 ♂, 4 ♀ (YL).

DISTRIBUTION. Widespread in the south of Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001), recently found in Moscow city and Tuva (Gornostaev & Kulikov, 2021).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Scaptodrosophila deflexa* (Duda, 1924)**

DISTRIBUTION. Widespread in Europe (Bächli & Rocha Pité, 1984) and North Caucasus (Gornostaev, 1997).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

***Scaptomyza (Parascapromyza) pallida* (Zetterstedt, 1847)**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 12 ♂, 7 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

NOTES. This species was recorded from Krasnodarsky krai by Gornostaev (1997).

**\**Scaptomyza (Scaptomyza) flava* (Fallén, 1823)**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 2 ♂, 3 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

**\**Scaptomyza (Scaptomyza) graminum* (Fallén, 1823)**

MATERIAL. **Russia:** Krasnodarsky krai, Lazarevskoe, 1–30.VIII 2009, 1–30.VI.2013, 1 ♂, 5 ♀ (NG, YL).

DISTRIBUTION. Widespread in Palearctic region (Bächli & Rocha Pité, 1984) and Russia (Gornostaev, 1997; Sidorenko, 2001).

### DISCUSSION

Now 33 species in 11 genera of Drosophilidae are known from Krasnodarsky krai, 17 of which are recorded here from this region for the first time. Totally 34 species of Drosophilidae are known from Krasnodarsky krai and Adygea: 33 species from Krasnodarsky krai (Gornostaev, 1997 and present data) and 31 species from adjacent Republic of Adygea (Gornostaev & Lyupina, 2023). Among them 3 drosophilid species (*Drosophila lummei*, *Hirtodrosophila toyohiokadai* and *Lordiphosa fenestrarum*) are found in Krasnodarsky krai only; one species (*Stegana hypoleuca* Meigen, 1830) is known from Adygea only, and 30 species (*Amiota albilabris*, *Phortica variegata*, *Gitona distigma*, *Leucophenga maculata*, *Chymomyza amoena*, *Ch. caudatula*, *Drosophila busckii*, *D. funebris*, *D. histrio*, *D. hydei*, *D. immigrans*, *D. kuntzei*, *D. limbata*, *D. littoralis*, *D. phalerata*, *D. testacea*, *D. transversa*, *D. helvetica*, *D. melanogaster*, *D. simulans*, *D. obscura*, *D. subobscura*, *D. tristis*, *Hirtodrosophila confusa*, *Hirtodrosophila trivittata*, *Mycodrosophila poecilogastra*, *Scaptodrosophila deflexa*, *Scaptomyza pallida*, *S. flava*, and *S. graminum*) are recorded in both Krasnodarsky krai and Adygea. Thus, the fauna of Drosophilidae of Krasnodarsky krai, apparently, is rather similar to the fauna of the Republic of Adygea.

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