

CATALOGUE OF LADYBIRDS (COLEOPTERA: COCCINELLIDAE) OF LATVIA

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Catalogue contains information about 61 ladybird species found in Latvian territory. It was established by summarizing information from 44 literature sources about ladybirds in Latvian fauna, which has been published between 1778 - 2010 period. In this article there is analysed the history about researches of fauna of ladybirds' family over the last decade since the previous Latvian ladybird catalogue compiled by Z. Spuris published in 1990.

Key words: Coccinellida, Coleoptera, fauna, Latvia, research history

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INTRODUCTION

Researches of fauna of ladybirds' family (Coleoptera: Coccinellidae) have long history in Latvia. First data about 5 ladybird species found in the territory of Latvia have been published already in the end of the 17th century (Fischer 1778). In later period till nowadays information about ladybird species in Latvia can be found in 44 works. The research history of Latvian ladybirds has been summarized by Z. Spuris (1990) in Part 8 of the Catalogue of Latvian Insects, which is dedicated to ladybirds' family. In the catalogue Z. Spuris indicates 56 ladybirds' species for Latvian fauna. In the sight of Z. Spuris the contents of ladybirds' family species in Latvia have been researched practically completely. "It seems that the contents of species have been defined almost entirely, further only 2 – 3 species could be found," so writes Z. Spuris in 1990.

However notwithstanding the above mentioned in the 90-ties of the 20th century and beginning of the 21st century the researches of fauna of Latvian beetles, including ladybirds, became more active. Mostly it was related to development of coleopterological researches in Daugavpils University. 11 articles were published, in which data about ladybirds in Latvian fauna can be found, they include Lists of Latvian Beetles (Barševskis 1997, Telnov 2004), Lists of North-European Beetles (Lundberg, 1995, Silfverberg 1992, 2004). Catalogue of Palearctic Beetles (Part Coccinellidae) (Kovař 2007), in which information about distribution of ladybirds in Latvia can be found, was issued. The systematics of ladybirds' family has changed as well. In the result it was necessary to summarize the faunistic literature about Latvian ladybirds, which has been published after 1990 and prepare new version of catalogue of Latvian ladybirds.

The aim of this catalogue is to aggregate information published in the scientific literature and elaborate catalogue of Latvian ladybirds conforming modern systematic.

Due to the fact that many ladybird species are distributed unevenly in the territory of Latvia it is very important to define their chorological peculiarities. After publishing of this catalogue the authors have intended to publish series of articles about occurrence of ladybirds in various geo-botanical regions of Latvia and thus additionally update the data of ladybirds' chorology in Latvia.

At the moment of publishing of this catalogue 61 ladybird species were found in Latvian fauna.

Systematics of this family used in Catalogue of Palearctic Beetles (Löbl, Smetana 2007) lies in the basis of this catalogue.

In the catalogue synonyms, if any, and references to literature sources, where the appropriate species indicated for Latvian fauna, have been specified for each species after its scientific title.

HISTORY OF LADYBIRDS' RESEARCHES IN LATVIA

During the research information about ladybirds in Latvian fauna, published in scientific literature from 1778 till 2010, was summarized. For elaboration of the catalogue altogether 44 literature sources, in which information about ladybirds in Latvian fauna was found, have been used. Information published till 1990 in the catalogue of Z. Spuris was applied in compilation of this catalogue.

In 1988 in Daugavpils A. Barševskis' (1988) article about beetles' fauna in various habitats in South-Eastern part of Latvia was issued. Z. Spuris did not have information about this article therefore it was not included in the catalogue compiled by him (Spuris 1990). This article comprises data about 20 species. Unfortunately particular findings are not indicated for the species in the

South-Eastern part of Latvia, only the most characteristic their habitats. Majority of the species at that time were collected in Ilgas, Daugavpils district and Daugava River Valley.

In 1992 in Helsinki (Finland) H. Silfverberg catalogue „Enumeratio Coleopterorum Fennoscandiae, Daniae et Baltiae” (Silfverberg 1992), in which 55 ladybird species are indicated for Latvia, was published.

In 1993 A. Barševskis' (1993) monograph “East Latvian Beetles” was published, information about distribution of 1872 species in Eastern Latvia was given, 320 of the species were defined as new for Latvian fauna. In this monograph 44 ladybird species were indicated for eastern region of Latvia. They include *Scymnus femoralis* Gyll. From Izvalta, this was defined as new species for Latvian fauna.

7 ladybird species are given in A. Barševskis' (1996) article about new and rare species for Latvian fauna, which was published in collection “Nature and Museum”. *Cynegetis impunctata* (Linnaeus), which was collected in Ilgas and is very rare in Latvia, was mentioned as well.

In D. Telnov' (1996) article about 63 new or rare species for Latvian fauna 1 new for Latvian fauna ladybird species *Semiadalia undecimnotata* (Schneider) was included. The mentioned species was collected by the author in Kolka.

In 1997 Check - List of Latvian Beetles was published, authors of it are D. Telnov, A. Barševskis, F. Savičs, F. Kovaļevskis, S. Berdnikovs, M. Doronins, R. Cibuļskis, D. Ratniece (Barševskis 1997). Ladybirds' Family was compiled by A. Barševskis in this list. In the list 59 species of ladybirds' family have been mentioned for Latvia. In 2004 D. Telnovs alone re-published the list in the second edition with small changes in systematics (Telnov 2004), indicating 61 ladybird species in it.

In the report about researches of researches of beetles' fauna in Slītere National Park N. Jansson (1999) indicates 4 ladybird species *Scymnus*

frontalis, *Scymnus bipunctatus*, *Nephus bipunctatus* and *Hyperaspis campestris* for this specially protected nature territory.

Information about finding of two rare for Latvian fauna ladybird species *Coccinella magnifica* Redtenbacher and *Sospita vigintiguttata* (Linnaeus) in Ilgas was published by A. Barševskis in 2001 in the first volume of *Baltic Journal of Coleopterology*.

A. Barševskis has made the list of ladybirds' family species in Nature Park "Silene" as well, which has been published in the book "Fauna, Flora and Vegetation in Nature Park "Silene"" (Barševskis et al 2002). In the time period till December 1, 2002 in Nature Park "Silene" 40 ladybird species were found, the list of them was published in the mentioned book.

In the article about fauna of Latvian beetles, published in 2004 by A. Barševskis, M. Bičevskis, U. Valainis, N. Savenkovs, R. Cibulskis, M. Kalniņš and N. Strode (Barševskis et al 2004), information about new findings of 3 species of ladybirds' family *Coccinella magnifica* Redtenbacher, *Scymnus ferrugatus* (Moll) and *Scymnus suturalis* Thunberg was given. In the same year the new version of H. Silfverberg (2004) catalogue „Enumeratio nova Coleopterorum Fennoscandiae, Daniae et Baltiae” was published, 59 species were indicated for Latvia in it.

In the chapter about ladybirds of Catalogue of Palearctic Beetles (Coccinellidae) (Kovář 2007) 40 species are indicated for Latvia. It lacks information about 21 species: *Coccidula scutellata* (Herbst), *Hyperaspis campestris* (Herbst), *H. reppensis* (Herbst), *Nephus* (*Nephus*) *quadrifasciatus* (Herbst), *Scymnus* (*Scymnus*) *suffrianioides apetzoides* Capra & Fursch, *S. (S.) femoralis* Gyllenhal, *S. (S.) jakowlewi* Weise, *S. (S.) rubromaculatus* (Goeze), *S. (Pullus) ferrugatus* (Moll), *Chilochorus renipustulatus* (Scriba), *Parexochomus nigromaculatus* (Goeze), *Vibidia duodecimguttata* (Poda), *Adalia conglomerata* (Linnaeus), *Calvia decemguttata* (Linnaeus), *C. quinquedecimguttata* (Fabricius),

Ceratomegilla undecimnotata (Schneider), *Coccinella* (*Coccinella*) *saucerotti* Mulsant, *C. (C.) trifasciata trifasciata* Linnaeus, *Sospita vigintiguttata* (Linnaeus), *Cynegetis impunctata* (Linnaeus), *Harmonia axyridis* Pallas were found in Latvian fauna later, after publishing of the catalogue (Barševskis 2009).

In the article about Latvian fauna of beetles published in 2008 by A. Barševskis, A. Bukejs and A. Anichtchenko (Barševskis et al 2008) data about 14 ladybird species is given. The information given in the article significantly complement the information about distribution of published species in Latvia.

In 2010 by D. Lazdāns and A. Barševskis published new article about Latvian ladybird fauna (Lazdāns, Barševskis 2010). In this article there data about the distribution of the species of ladybird beetles (Coleoptera: Coccinellidae) is given. These information are obtained by processing the materials from the collections of Natural History Museum of Latvia and Institute of Biology, University of Latvia. Totally 742 specimens from 28 species were determined.

CATALOGUE

Coccinellidae Latreille, 1807

Coccidulinae Mulsant, 1846

Coccidulini Mulsant, 1846

Coccidula Kugelann, 1798

1. *Coccidula rufa* (Herbst, 1783)

Fleischer 1829; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

2. *Coccidula scutellata* (Herbst, 1783)

Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004.

Scymninae Mulsant, 1846

Hyperaspini

***Hyperaspis* Chevrolat, 1837**

3. *Hyperaspis campestris* (Herbst, 1783)

Mikutowicz 1911; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997a, 1997b; Lundberg 1995, Jansson 1999; Barševskis et al. 2002, 2008; Telnov 2004.

4. *Hyperaspis reppensis* (Herbst, 1783)

Seidlitz 1872, 1888; Lackschewitz, Mikutowicz 1939; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997a, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004.

Scymnini Mulsant, 1846

***Nephus* Mulsant, 1846**

5. *Nephus (Bipunctatus) bipunctatus* (Kugelann, 1794)

Precht 1818; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1997b; Lundberg 1995, Jansson 1999; Telnov 2004; Kovář 2007.

6. *Nephus (Nephus) quadrimaculatus* (Herbst, 1783)

Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004.

7. *Nephus (Nephus) redtenbacheri* (Mulsant, 1846)

Mikutowicz 1911; Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis, 1997a, 1997b; Barševskis et al 2002; Telnov 2004; Kovář 2007.

***Scymnus* Kugelann, 1794**

8. *Scymnus (Parapullus) abietis* (Paykull, 1798)

Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004; Kovář 2007.

9. *Scymnus (Scymnus) suffrianioides apetzoides* Capra & Fursch, 1967

Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004.

10. *Scymnus (Neopullus) ater* Kugelann, 1794

Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004; Kovář 2007.

11. *Scymnus (Pullus) auritus* Thunberg, 1795

Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007.

12. *Scymnus (Pullus) ferrugatus* (Moll, 1785)

Fleischer 1829; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977, 1983; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002, 2004; Telnov 2004.

13. *Scymnus (Scymnus) femoralis* Gyllenhal,

Barševskis 1993, 1997b; Telnov 2004; Silfverberg, 2004.

14. *Scymnus (Scymnus) frontalis* (Fabricius, 1787)

Fleischer 1829; Seidlitz 1872, 1888; Lindberg 1932; Priedītis 1973; Pūtele 1977, 1983; Barševskis 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Jansson 1999; Barševskis et al. 2002, 2008; Telnov 2004; Kovář 2007.

15. *Scymnus (Neopullus) haemorrhoidalis* Herbst, 1797

Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007.

- 16. *Scymnus (Scymnus) jakowlewi* Weise, 1892**
Telnov 2004
- 17. *Scymnus (Neopullus) limbatus* Stephens, 1832**
Barševskis 1997b; Telnov 2004; Silfverberg, 2004; Kovář 2007.
- 18. *Scymnus (Scymnus) nigrinus* Kugelann, 1794**
Seidlitz 1972, 1888; Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.
- 19. *Scymnus (Scymnus) rubromaculatus* (Goeze, 1777)**
Seidlitz 1872, 1888; Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Telnov 2004.
- 20. *Scymnus (Pullus) suturalis* Thunberg, 1795**
Fleischer 1829; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Telnov 2004; Barševskis et al. 2004, 2008; Kovář 2007, Lazdāns, Barševskis 2010.
- Stethorini* Dobrzhanskiy, 1924**
***Stethorus* Weise, 1885**
- 21. *Stethorus (Stethorus) pusillus* (Herbst, 1797)**
Syn.: *Stethorus punctillum* (Weise, 1891)
Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Telnov 2004; Kovář 2007.
- Chilochorinae Mulsant, 1846**
Chilochorini Mulsant, 1846
***Chilochorus* Leach, 1815**
- 22. *Chilochorus bipustulatus* (Linnaeus, 1758)**
Precht 1818; Kawall 1865; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004; Kovář 2007.
- 23. *Chilochorus renipustulatus* (Scriba, 1790)**
Gimmerthal 1829; Fleischer 1829; Kawall 1865; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977, 1983; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004, Lazdāns, Barševskis 2010.
- Parexochomus* Barovskij, 1922**
- 24. *Parexochomus nigromaculatus* (Goeze, 1777)**
Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004.
- Exochomus* Redtenbacher, 1843**
- 25. *Exochomus quadripustulatus* (Linnaeus, 1758)**
Fischer 1784, 1791; Precht 1818; Gimmerthal 1829; Seidlitz 1872, 1888; Danka, Stiprais 1972; Priedītis 1973; Pūtele 1977, 1983; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.
- Platynaspidini* Mulsant, 1846**
***Platynaspis* Redtenbacher, 1843**
- 26. *Platynaspis luteorubra* (Goeze, 1777)**
Precht 1818; Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004; Kovář 2007.

Coccinellinae Latreille, 1807**Halyziini Mulsant, 1846*****Halyzia* Mulsant, 1846****27. *Halyzia sedecimguttata* (Linnaeus, 1758)**

Precht 1818; Gimmerthal 1829; Fleischer 1829; Seidlitz 1872, 1888; Križus 1938; Danka, Stiprais 1972; Pūtele 1977, 1983; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997a, 1997b; Barševskis et al. 2002, 2008; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

Psyllobora* Chevrolat, 1836*28. *Psyllobora (Thea) vigintiduopunctata* (Linnaeus, 1758)**

Precht 1818; Gimmerthal 1829; Seidlitz 1872, 1888; Lackschewitz, Mukutowicz 1939; Priedītis 1973; Pūtele 1977, 1983, 1984; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis, 1997; Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

Vibidia* Mulsant, 1846*29. *Vibidia duodecimguttata* (Poda, 1761)**

Precht 1818; Seidlitz 1872, 1888; Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al. 2008; Telnov 2004.

Tytthaspidini Crotch***Anisosticta* Chevrolat, 1837****30. *Anisosticta novemdecimpunctata* (Linnaeus, 1758)**

Fleischer 1829; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

Coccinula* Dobzhansky, 1925*31. *Coccinula quatuordecimpustulata* (Linnaeus, 1758)**

Precht 1818; Gimmerthal 1829; Kawall 1865; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977, 1983, 1984; Rūtenberga 1980; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

Tytthaspis* Crotch, 1874*32. *Tytthaspis sedecimpunctata* (Linnaeus, 1761)**

Precht 1818; Gimmerthal 1829; Seidlitz, 1872, 1888; Priedītis 1973; Pūtele 1977, 1983, 1984; Barševskis 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

Coccinellini Latreille, 1807***Adalia* Mulsant, 1850****33. *Adalia bipunctata* (Linnaeus, 1758)**

Fischer 1778, 1784, 1791; Groschke 1805; Gimmerthal 1829; Fleischer 1829; Kawall 1866; Seidlitz 1872, 1888; Priedītis 1958, 1973; Lūsis 1961, 1973; Danka, Stiprais 1972; Pūtele 1977; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

34. *Adalia conglomerata* (Linnaeus, 1758)

Fleischer 1829; Kawall 1866; Lackschewitz 1939; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004.

35. *Adalia decempunctata* (Linnaeus, 1758)

Fischer 1778, 1784, 1791; Groschke 1805; Precht 1818; Fleischer 1829; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977, 1983; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007.

Anatis Mulsant, 1846

36. Anatis ocellata (Linnaeus, 1758)

Precht 1818; Gimmerthal 1829; Seidlitz 1872, 1888; Priedītis 1958, 1973; Pūtele 1977, 1983, 1984; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

Aphidecta Weise, 1899

37. Aphidecta oblitterata (Linnaeus, 1758)

Fleischer 1829; Seidlitz 1872, 1888; Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004; Kovjū 2007; Lazdāns, Barševskis 2010.

Calvia Mulsant, 1846

38. Calvia decemguttata (Linnaeus, 1767)

Mikutowicz 1905; Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004; Lazdāns, Barševskis 2010.

39. Calvia quatuordecimguttata (Linnaeus, 1758)

Fischer 1778, 1791; Groschke 1805; Precht 1818; Gimmerthal 1829; Kawall 1866; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977, 1983; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002;

Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

40. Calvia quinqueguttata (Fabricius, 1777)

Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Telnov 2004.

Ceratomegilla Crotch, 1873

Syn.: *Semiadalia Crotch, 1874*

41. Ceratomegilla notata (Laicharting, 1781)

Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Barševskis 1993, 1997b; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007.

42. Ceratomegilla undecimnotata (Schneider, 1792)

Telnov 1996, 2004.

Coccinella Linnaeus, 1758

43. Coccinella (Coccinella) magnifica Redtenbacher, 1843

Syn.: *Coccinella distincta* Faldermann, 1837

Seidlitz 1872, 1888; Spuris 1990; Barševskis 1993, 1997a, 1997b, 2001; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al. 2002, 2004, 2008; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

- . Coccinella exclamationis Eschscholtz, 1818 – nomina dubia

Eschscholtz 1818 (Livonia); Kovjū 2007.

44. Coccinella (Coccinella) hieroglyphica hieroglyphica Linnaeus, 1758

Precht 1818; Gimmerthal 1829; Fleischer 1829; Seidlitz 1872, 1888; Brammanis 1930; Priedītis

1973; Pūtele 1977, 1983, 1984, 1993; Barševskis 1988, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

45. *Coccinella (Coccinella) quinquepunctata* Linnaeus, 1758

Fischer 1784, 1791, Groschke 1805; Precht 1818; Gimmerthal 1829; Kawall 1865; Seidlitz 1872, 1888; Heyden 1903; Brammanis 1930; Priedītis 1958, 1973; Danka, Stiprais 1972; Pūtele 1977, 1983, 1984; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

46. *Coccinella (Coccinella) saucerotti* Mulsant, 1850

Pūtele 1977; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004.

47. *Coccinella (Coccinella) septempunctata* Linnaeus, 1758

Fischer 1778, 1791; Groschke 1805; Precht 1818; Gimmerthal 1829; Kawall 1865, 1866; Seidlitz 1872, 1888; Brammanis 1930; Priedītis 1958, 1973; Danka, Stiprais 1972; Pūtele 1977, 1983, 1984; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

48. *Coccinella (Coccinella) trifasciata trifasciata* Linnaeus, 1758

Seidlitz 1891; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004.

49. *Coccinella (Spilota) undecimpunctata undecimpunctata* Linnaeus, 1758

Fischer 1778, 1791; Precht 1818; Gimmerthal 1829; Seidlitz 1872, 1888; Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997b; Telnov 2004; Kovář 2007.

Harmonia Mulsant, 1846

50. *Harmonia axyridis* Pallas, 1773

Barševskis 2009.

51. *Harmonia quadripunctata* (Pontoppidan, 1763)

Seidlitz 1872, 1888; Spuris 1990; Barševskis 1993, 1997b; Silfverberg, 1992, 2004; Lundberg 1995, Telnov 2004; Kovář 2007.

Hyppodamia Chevrolat, 1837

52. *Hyppodamia (Hemisphaerica) septemmaculata* (De Geer, 1775)

Seidlitz 1872, 1888; Lackschewitz, Mikutowicz 1939; Pūtele 1977; Spuris 1990; Barševskis 1993, 1997b; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

53. *Hyppodamia (Hemisphaerica) tredecimpunctata* (Linnaeus, 1758)

Precht 1818; Gimmerthal 1829; Kawall 1865; Seidlitz 1872, 1888; Priedītis 1973; Pūtele 1977; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

54. *Hyppodamia (Hyppodamia) variegata* (Goeze, 1777)

Precht 1818; Fleischer 1829; Kawall 1865; Seidlitz 1872, 1888; Brammanis 1930; Priedītis 1958, 1973; Pūtele 1977; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

Myrra Mulsant, 1846

55. *Myrra (Myrrha) octodecimguttata* (Linnaeus, 1758)

Precht 1818; Gimmerthal 1829; Kawall 1866; Seidlitz 1872, 1888; Danka, Stiprais 1972; Priedītis 1973; Pūtele 1977, 1983; Barševskis 1988, 1989, 1993, 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

***Myzia* Mulsant, 1846**

56. *Myzia oblongoguttata oblongoguttata* (Linnaeus, 1758)

Precht 1818; Gimmerthal 1829; Seidlitz 1872, 1888; Brammanis 1930; Pūtele 1977; Barševskis 1988, 1989, 1993 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al. 2002, 2008; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

***Oenopia* Mulsant, 1850**

Syn.: *Synharmonia* Ganglbauer, 1899

57. *Oenopia conglobata conglobata* (Linnaeus, 1758)

Precht 1818; Seidlitz 1872, 1888; Danka, Stiprais 1972; Priedītis 1973; Pūtele 1977; Barševskis 1988, 1989, 1993; 1997b; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Telnov 2004; Kovāņ 2007.

***Propylea* Mulsant, 1846**

58. *Propylea quatuordecimpunctata* (Linnaeus, 1758)

Fischer 1784, 1791; Precht 1818; Seidlitz 1872, 1888; Danka, Stiprais 1972; Priedītis 1973; Pūtele 1977, 1983, 1984; Barševskis 1988, 1989, 1993; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007; Lazdāns, Barševskis 2010.

***Sospita* Mulsant, 1846**

59. *Sospita vigintiguttata* (Linnaeus, 1758)

Precht 1818; Gimmerthal 1829; Kawall 1865, 1866; Seidlitz 1872, 1888; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997a, 1997b, 2001; Barševskis et al. 2002, 2008; Telnov 2004.

***Epilachninae* Mulsant, 1846**

***Cynegetini* C.G.Thomson, 1866**

***Cynegetis* Chevrolat, 1837**

60. *Cynegetis impunctata* (Linnaeus, 1767)

Precht, 1818; Gimmerthal 1829; Fleischer 1829; Pūtele 1983; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis 1997a, 1997b; Telnov 2004

***Epilachnini* Mulsant, 1850**

***Subcoccinella* Agassiz, 1846**

61. *Subcoccinella vigintiquatuorpunctata* (Linnaeus, 1758)

Precht 1818; Gimmerthal 1829; Seidlitz 1872, 1888; Pūtele 1977, 1983; Barševskis 1997b, 1993, 1988, 1989; Spuris 1990; Silfverberg, 1992, 2004; Lundberg 1995, Barševskis et al 2002; Telnov 2004; Kovář 2007, Lazdāns, Barševskis 2010.

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