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CURRENT STATE OF KNOWLEDGE ON THE ARANEO- AND ENTOMOFAUNA OF "SYNIOHORA" NATIONAL NATURE PARK (IVANO-FRANKIVSK REGION, UKRAINE)

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The data on Arachnida (Araneae) and Insecta diversity of the "Syniohora" National Nature Park are generalized in the paper. The territory covers central and highest part of the Gorgany mountain range in the Ukrainian Carpathians (Ivano-Frankivsk region, Ukraine). A brief overview of the history of research on the araneo- and entomofauna of the Park is provided, and the state of knowledge about selected groups of arthropods is analyzed. Information about species included in international, national, and regional conservation lists is summarized. The taxonomic list of spiders and insects was created based on unpublished data from the authors' collections, scientific reports, literapure sources and annual nature chronicles available in the Park, as well as information located on online resources on biodiversity (UkrBIN, iNaturalist, "Biodiversity of Ukraine"). For each species, the relevant sources according to which it was included in the list are indicated, as well as (if available) its conservation status and critical comments by the authors. As of 2025, 177 species from 24 families of spiders and 1,300 species from 142 families and 14 orders of insects are known from the "Syniohora" National Nature Park. Among them, 51 species have a conservation status. In particular, 16 insect species are protected at the national level and are listed in the current edition of the Red Data Book of Ukraine (2021); 42 species are protected at the regional level, including 17 species of spiders in the Red List of Spiders of the Carpathians (Gajdoš et al., 2014), and 26 species of insects in the Red Book of the Ukrainian Carpathians (2011). There are 5 species under international protection included in the conservation lists of the Bern Convention (Appendix II and Resolution No. 6). The presented taxonomic list does not claim to be complete, but it serves as a basis for further inventorying and monitoring the diversity of arthropods, as well as maintaining a cadastre of the protected area and protecting the natural complexes of the Syniohora National Nature Park. Further research in the Park should focus on the study of poorly investigated and previously unrecorded groups of invertebrates, the refinement and expansion of habitat inventories, and the implementation of long-term monitoring and analyses of invertebrate community structure.

Key words: *insects, spiders, taxonomic list, fauna, biodiversity, protected species, Gorgany, Ukrainian Carpathians.*

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Сучасний стан вивчення аранео- та ентомофауни НПП «Синьогора» (Івано-Франківська область, Україна)

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У роботі узагальнено відомості про різноманіття павуків (Arachnida: Araneae) і комах (Insecta) національного природного парку «Синьогора», розташованого в центральній та найвищій частині гірського масиву Ґорґани Українських Карпат (Івано-Франківська область, Україна). Зроблено короткий нарис історії досліджень аранео- та ентомофауни території НПП та проаналізовано стан вивченості обраних груп членистоногих. Підсумовано інформацію про види, які включені до природоохоронних списків міжнародного, національного та регіонального рівнів. Таксономічний перелік павуків і комах створений на підставі неопублікованих даних про матеріали, представлені у зборах і колекціях авторів, узагальнення інформації з публікацій та наявних у Парку наукових звітів і щорічних Літописів природи, а також відомостей, розташованих на онлайн-ресурсах про біорізноманіття (UkrBIN, iNaturalist, "Biodiversity of Ukraine"). Для кожного виду вказані відповідні джерела, за якими його включено до списку, а також (за наявності) охоронний статус і критичні зауваження авторів. Станом на 2025 рік з НПП «Синьогора» відомо 177 видів з 24 родин павуків та 1300 видів зі 142 родин і 14 рядів комах. Серед них 51 вид має природоохоронний статус. У тому числі, 16 видів комах охороняються на національному рівні та занесені до чинної редакції Червоної книги України (2021); 42 види перебувають під охороною на регіональному рівні, у тому числі 17 видів павуків включені до Червоного списку павуків Карпат (Gajdoš et al., 2014), а 26 видів комах – до Червоної книги Українських Карпат (2011). 5 видів мають міжнародний охоронний статус і включені до охоронних списків Бернської конвенції (Додаток II і Резолюція № 6). Представлений таксономічний список не претендує на повноту, але є основою для подальшої інвентаризації та моніторингу різноманіття членистоногих, а також ведення кадастру заповідної території й охорони природних комплексів НПП «Синьогора». Подальші дослідження Парку мають бути зосереджені на вивченні слабо досліджених груп безхребетних, уточненні та розширенні інвентаризації оселищ, проведенні довготривалого моніторингу та аналізу структури угруповань безхребетних.

Ключові слова: *комахи, павуки, таксономічний список, фауна, біорізноманіття, охоронювані види, Ґорґани, Українські Карпати.*

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Introduction

The inventory of fauna in protected areas is a fundamental component of biodiversity research, as it provides the basis for effective management and long-term monitoring. Particular attention should be paid to highly diverse and ecologically significant groups of invertebrates, notably spiders (Araneae) and insects, which play key roles in ecosystem functioning as predators, decomposers, and pollinators. Despite their importance, these taxa often remain insufficiently

studied, and their actual diversity is underestimated in many regions. Comprehensive faunistic studies not only contribute to refining species composition and distribution patterns but also enable the identification of rare, endemic, and threatened species. In this context, the systematization of data and proper documentation are essential for determining conservation priorities, tracking environmental changes, and ensuring effective mechanisms for the conservation of invertebrate diversity within protected areas.

The Syniohora National Nature Park (hereinafter referred to as «the Park») was established in 2009 based on the State Organization "Residence Syniohora" of the State Administration of Affairs of the Office of the President of Ukraine to preserve, restore, and rationally using typical and unique natural complexes of the Carpathian region that are of significant environmental, scientific, aesthetic, recreational, and health importance. However, the Park only began to function fully in 2021. It was registered as a legal entity in December 2021, and the "Regulations on the Syniohora National Nature Park" were approved by Order No. 190 of the Ministry of Environment on March 15, 2021, as amended by Order No. 603 of September 17, 2021. The Park covers an area of 10,886 hectares. According to the functional zoning, the protected area covers 2,187.4 ha (20.1 %), the regulated recreation zone covers 5,452.7 ha (50.2 %), the stationary recreation zone covers 90.3 ha (0.8 %), and the economic zone covers 3,135.6 ha (28.9 %).

The Park is located in the central and highest part of the Gorgany mountain range in the Ukrainian Carpathians. There are four peaks here with altitudes of over 1,800 m above sea level: Mount Syvulia Velyka (1,837 m), Mount Syvulia Mala (1,808 m), Mount Ihrovets (1,804 m), and Mount Vysoka (1,803 m). The Park covers a single continuous massif within the upper Bystrytsia Solotvynska River basin at elevations ranging from 660 to 1,837 m above sea level, thus representing a typical example of a mountain landscape ecosystem. Its relief is dissected by deep river valleys, which divide the territory into several mountain ranges of varying altitudes within a single geological formation.

In terms of geomorphology, the Park is located within the medium-altitude Skybovi Gorgany range of the Outer Carpathians, with rocky scree slopes and deep transverse valleys. The mountain ridges have relatively steep slopes, especially in the northeast, and the ridges are often sharp. The peaks are rounded cones or roof-like. The landscape is complemented by rocky ridges, stony slopes and peaks with barrens and scree, rocky river beds (Tsys 1962). The parent rocks are mainly light-colored, massive, thin-bedded flysch sandstones of the Yamna Formation of the Paleocene epoch (Tsarnenko 1988).

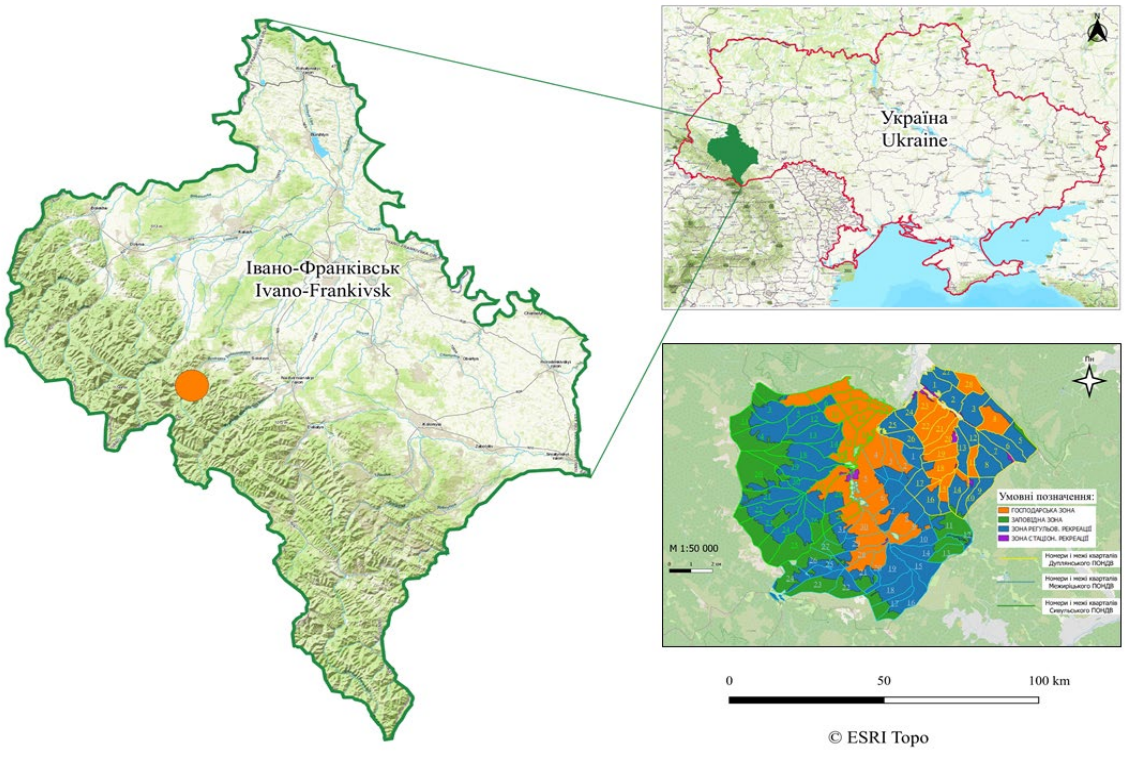

Fig. 1. Map of the study area of "Syniohora" National Nature Park

In terms of geobotany, the territory belongs to two geobotanical regions: the Bolekhiv-Berehomet area of mixed fir and beech forests within the Rakhiv-Turka-Berehomet geobotanical district and the Gorgany area of spruce forests within the Vyshkovo-Hryniava geobotanical district of the Eastern Carpathian mountain subprovince and the Central European province of the European broadleaf forest region (Heobotanichne ... 1977). The ecosystems of the three montane vegetation zones of the Ukrainian Carpathians are well represented and preserved here: beech and mixed fir-spruce and spruce-beech forests (up to 1000–1100 m a.s.l.); spruce forests (approximately 1000 to 1400 m a.s.l.); subalpine dwarf pinewood of *Pinus mugo* with an admixture of *Pinus cembra* (over 1350–1450 m a.s.l.). On the highest peaks (Syvulia Velyka and Syvulia Mala, Ihrovets, Vysoka), there are fragments of alpine rocky heathland with the participation of *Juncus trifidus*, *Empetrum nigrum*, and other high-mountain plant species. Within zones of beech and spruce forests, there are various types of post-forest meadows (mesophile, heathland, peatbog, wetland) of the alliances of *Nardion strictae, Molinion caeruleae, Polygono-Trisetion flavescentis*, *Caricion nigrae,* etc., as well as tall-grass communities of overgrown clearings (*Epilobion angustifolii*) and riparian thickets of mountain streams (*Petasition officinalis*, *Arunco-Petasition albi*). Small mesotrophic sedge-moss and sphagnum fens and bogs have been preserved in some places on the terraces of the Bystrytsia Solotvynska River valley (*Oxycocco-Sphagnetea*) (Fig. 2).

Material and methods

The material used for this work consists of critically reviewed abstract data from literary sources during the period from the mid-late 19th century to the present day including data of Park's reports (Litopys … 2022; 2023), as well as data available on online biodiversity resources (UkrBIN, iNaturalist, "Biodiversity of Ukraine"), on the one hand, and the results of the authors' current research, on the other hand.

The collection and laboratory processing of the material were carried out using well-known methods and techniques of arachnological and entomological research. The identification of spiders and some insects was carried out using binocular magnifying glasses and an MBS-10 binocular microscope. If necessary, mandibles, genitalia, and other body parts were dissected according to standard methods (Bennett 1929; Robinson, 1976).

The general classification system for arthropods is presented according to the fundamental work of J. Zhang et al. (Zhang 2011). The nomenclature of individual taxonomic groups is given in accordance with the latest developments in systematics, in particular, Araneae (World Spider Catalog 2025), Odonata (Bybee et al. 2021; Paulson et al. 2024), Orthoptera (Cigliano et al. 2024), Hymenoptera (Sharkey 2007; Aguiar et al. 2011; Sharkey et al. 2011); Coleoptera (Cai et al. 2022), Lepidoptera (Nieukerken et al. 2011), Diptera (Evenhuis, Pape 2021), etc. In the annotated checklist, after the full scientific name of each species, there is a reference to the sources on the basis of which it was included here. In the checklist, each species is provided with the source of information. If the species is recorded under an invalid (synonymous or erroneous) name, it is indicated next to the corre-

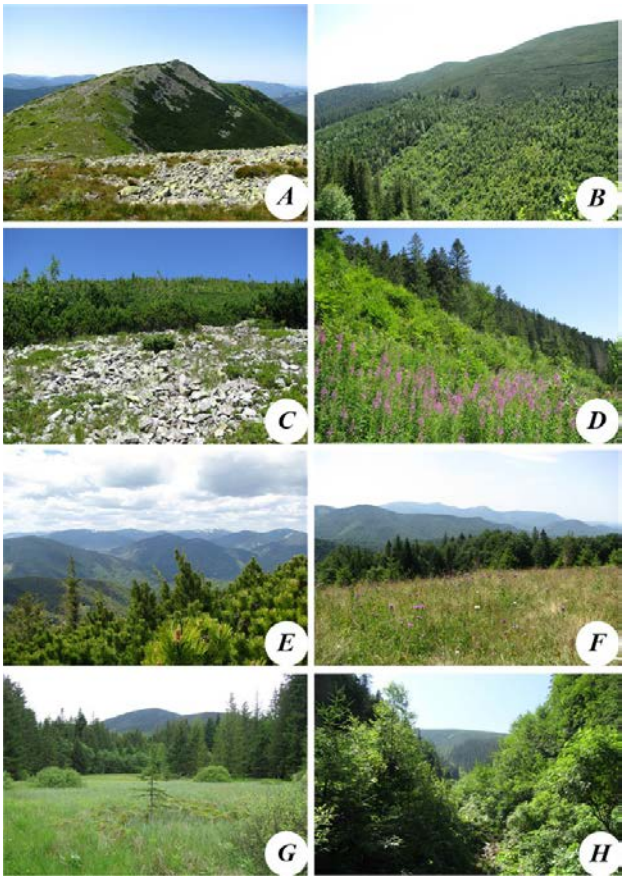

Fig. 2. Main types of habitats of Syniohora National Nature Park: *A* – alpine rocky heathland, Mt Syvulia; *B* – tree line and subalpine scrub above, Polonyna Ruschyna; *C* – subalpine dwarf pinewood and screes, Mt Syvulia; *D* – tall-grass community of overgrown clearing in a spruce forest, Bystrytsia Solotvynska river valley; *E* – subalpine dwarf pinewood against the backdrop of the Central Gorgans panorama, Mt Ihrovets; *F* – montane mesophile hay meadow, Polonyna Ripna; *G* – montane fen, Lysytsia site; *H* – riparian thickets of mountain stream valley, Stara Huta vicinity

sponding reference. Species erroneously listed for the Park are placed in square brackets without numbers [...], while doubtful species are marked with a question mark (?). In both cases, relevant reasonable comments are provided.

The species protected at the regional, national, or international levels are marked with exclamation (!), with an indication of the relevant protection lists where they are included.

History of research on the araneo- and entomofauna of the Park

No special studies of the Park's araneofauna have been conducted until 2022, and old collections from the territory now belonging to the Park are limited to only a few specimens. In particular, specimens of three species labeled "Plajek-Gorgan", 1934 from the collection of the Polish arachnologist S. Pilawski are deposited in the Natural History Museum of the University of Wrocław, Poland (Hirna 2015: as Gajek-Gorgan.

In 2023, based on the modern materials collected by A. Hirna, which formed the basis of this work, data on the discovery of *Zelotes similis* (Kulczyński, 1887) in Ukraine was published (Hirna, Yanul 2023). All other spider species included in the taxonomic list are reported for the Park's territory for the first time. Some of the data for 2022-2024 on the diversity of the group is included in the Chronicles of Nature of the Syniohora National Nature Park, which reflects the research of the corresponding years; these records also contain information on the specific sampling localities.

Until recently, research on the entomofauna in the area that is now part of the Park was very sporadic and fragmentary. The first information about insects from this area can be found in the works of M. Łomnicki (Łomnicki 1878a; 1878b; 1880). However, for the next almost 100 years, this area was overlooked by entomologists, and the next sporadic entomofaunal studies were conducted in the 1970s by Ye. M. Savchenko, who studied dipterans (Savchenko 1982; 1985; 1986). After that, there was another pause, which lasted until 1992, when S. H. Popov studied hymenopterans on Mount Ihrovets and in its vicinity (Popov, Pliushch 2004). Finally, more or less intensive and regular studies of the Park's entomofauna began in the 2000s and are associated with the work of professors and students of the Faculty of Natural Sciences of the Vasyl Stefanyk Carpathian National University – R. M. Bidychak, A. Y. Bobyliak, Ya. V. Ilnytskyi, S. Ya. Melnyk, P. S. Mykytsei, A. M. Nykolin, V. S. Pushkar, V. Yu. Shparyk, A. H. Sirenko, V. R. Tretiak, O. O. Varga, V. V. Zabroda, A. M. Zamoroka, R. M. Zhyrak, and others.

Since the Park began operating, research into biodiversity, including entomofauna, has been conducted by I. M. Fufalko, a researcher associate in the scientific department. Scientists from a number of other scientific institutions are also involved in the inventory of the Park's entomofauna, including O. O. Varga from the Institute of Zoology of the National Academy of Sciences of Ukraine; Yu. M. Geryak and Yu. V. Kanarsky from the Institute of Ecology of the Carpathians of the National Academy of Sciences of Ukraine; S. V. Glotov, V. I. Diedus, and V. B. Rizun from the State Natural History Museum of the National Academy of Sciences of Ukraine; A. M. Zamoroka A. H. Sirenko, and V. Yu. Shparyk from the Vasyl Stefanyk Carpathian National University, and others. At the same time, recent fragmentary information about insect records in the Park is presented on Internet platforms for collecting, accumulating, and exchanging data on biodiversity – UkrBIN [*https://www.ukrbin.com*], iNaturalist [*https://www.inaturalist.org*], and "Biodiversity of Ukraine" [*http://dc.smnh.org*].

The entomofauna of the Syniohora National Park has been studied very unevenly. Only certain groups, which have been the subject of special research by relevant specialists, can be considered relatively well studied. In particular, thanks to the research of M. Łomnicki, the diversity of the Orthoptera and Coleoptera of the Park has been relatively well covered. Among the latter, the best studied are the Cerambycidae, which have been studied here for many years by A. M. Zamoroka (Zamoroka 2018; 2024). Among other beetle familia, there is current information about findings of Carabidae, Staphylinidae, Elateridae, Chrysomelidae, Cantharidae, Lucanidae, Geotrupidae, Scarabaeidae, Byturidae, Lymexylidae, Tenebrionidae, Coccinellidae, and Curculionidae (Mykytsei 2012; Bureiko, Zamoroka 2024; Rizun 2024; unpublished data from the authors).

Among Diptera, the best studied family is Syrphidae, which has been the subject of special studies by V. Yu. Shparyk and A. H. Sirenko (Shparyk, Sirenko 2006; 2013; Shparyk 2012; 2013; Sirenko, Shparyk 2008; 2014). Other families of the order remain poorly studied or have not been studied at all.

The order Hymenoptera has been studied very unevenly. In particular, thanks to the many years of work by O. O. Varga (Varga 2014a; 2014b; 2014c; 2014d; 2015; Nuzhna, Varga 2015; Varga 2019; 2020; Varga et al. 2020; Varga 2024), the Syniohora territory is one of the best studied in Ukraine in terms of Ichneumonidae. In addition, representatives of

the familia Siricidae (Bobyliak, Sirenko 2009), Tenthredinidae (Zabroda 2007), and Apidae (Zhyrak 2004; 2008) have been studied in the Park. However, the rest of the family remains almost unexplored.

R. M. Bidychak, Yu. M. Geryak, Yu. V. Kanarsky, and Ye. V. Khalaim are working on studying the diversity of Lepidoptera in the Park. As of now, the species diversity of the Rhopalocera here is fairly well known (Popov, Pliushch 2004; unpublished data from the authors), as well as some Heterocera, in particular Drepanidae, Lasiocampidae, Saturniidae, and Sphingidae, and to a lesser extent Geometridae and Noctuoidea. In addition, research has begun on the so-called Microlepidoptera. Information about modern records of Lepidoptera has been transferred to the Park's Nature Chronicle and partially published by the authors (Geryak et al. 2022; Kanarsky et al. 2024).

As for other insect orders in the Park's fauna, only fragmentary information is available on Ephemeroptera, Odonata, Plecoptera, Dermaptera, Blattodea, Hemiptera, Trichoptera, Neuroptera, and Mecoptera.

It should be noted that the study of the Park's entomofauna is ongoing, and the taxonomic checklist of identified insects is constantly being updated. In particular, at the time of the Park's creation, 544 species of insects were known here (Proiect ... 2021; Zamoroka 2022). However, in 2023, 618 species were already identified (Fufalko 2024), and as a result of field studies in 2024, another 318 insect species new to the Park were found (Geryak et al. 2025).

Results

As a result of study of the known literary sources, scientific reports and nature chronicles, Internet resources containing information about invertebrates from the studied territory, as well as a summary of unpublished materials from our own research, it was established that 177 species of 24 families of the order Araneae (class Arachnida) and 1,300 species of 142 families and 14 orders of the class Insecta have been currently recorded in the Park.

Systematic list of spiders (Arachnida: Araneae) and insects (Insecta) of the Syniohora National Nature Park (as of 2025)

PHYLUM **ARTHROPODA**
CLASS **ARACHNIDA**
ORDER **ARANEAE**
Family **Agelenidae**

1. *Agelena labyrinthica* (Clerck, 1757) – Hirna (unpublished data).

2. (!) *Coelotes carpathensis* Ovtchinnikov, 1999 – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

3. *Coelotes terrestris* (Wider, 1834) – Hirna (unpublished data).

4. *Histopona torpida* (C. L. Koch, 1837) – Hirna (unpublished data).

5. *Inermocoelotes inermis* (L. Koch, 1855) – Hirna (unpublished data).

6. *Tegenaria domestica* (Clerck, 1757) – Hirna (unpublished data).

7. *Tegenaria ferruginea* (Panzer, 1804) – Hirna (unpublished data).

8. *Tegenaria silvestris* L. Koch, 1872 – Hirna (unpublished data).

Family **Amaurobiidae**

9. *Amaurobius fenestralis* (Ström, 1768) – Hirna (unpublished data).

10. *Callobius claustrarius* (Hahn, 1833) – Hirna (unpublished data).

Family **Anyphaenidae**

11. *Anyphaena accentuata* (Walckenaer, 1802) – Hirna (unpublished data).

Family **Araneidae**

12. *Aculepeira ceropegia* (Walckenaer, 1802) – Hirna (unpublished data).

13. *Araneus alsine* (Walckenaer, 1802) – Hirna (unpublished data).

14. *Araneus diadematus* Clerck, 1757 – Hirna (unpublished data).

15. *Araneus marmoreus* Clerck, 1757 – Hirna (unpublished data).

16. *Araneus quadratus* Clerck, 1757 – Hirna (unpublished data).

17. *Araneus sturmi* (Hahn, 1831) – Hirna (unpublished data).

18. *Araniella alpica* (L. Koch, 1869) – Hirna (unpublished data).

19. *Araniella cucurbitina* (Clerck, 1757) – Hirna (unpublished data)

20. *Argiope bruennichi* (Scopoli, 1772) – Hirna (unpublished data).

21. *Cyclosa conica* (Pallas, 1772) – Hirna (unpublished data).

22. *Larinioides patagiatus* (Clerck, 1757) – Hirna (unpublished data).

23. *Leviellus stroemi* (Thorell, 1870) – Hirna (unpublished data).

24. *Mangora acalypha* (Walckenaer, 1802) – Hirna (unpublished data)

25. *Nuctenea umbratica* (Clerck, 1757) – Hirna (unpublished data).

Family **Cheiracanthidae**

26. *Cheiracanthium erraticum* (Walckenaer, 1802) – Hirna (unpublished data).

27. (!) *Cheiracanthium punctorium* (Villers, 1789) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

Family **Clubionidae**

28. (!) *Clubiona alpicola* Kulczyński, 1882 – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

29. *Clubiona comta* C. L. Koch, 1839 – Hirna (unpublished data).

30. *Clubiona subsultans* Thorell, 1875 – Hirna (unpublished data).

31. *Clubiona trivialis* C. L. Koch, 1843 – Hirna (unpublished data).

Family **Cybaeidae**

32. *Cryphoeca silvicola* (C. L. Koch, 1834) – Hirna (unpublished data).

33. *Cybaeus angustiarum* L. Koch, 1868 – Hirna (unpublished data).

Family **Dictynidae**

34. *Dictyna pusilla* Thorell, 1856 – Hirna (unpublished data).

Family **Dolomedidae**

35. *Dolomedes fimbriatus* (Clerck, 1757) – Hirna (unpublished data).

Family **Dysderidae**

36. *Harpactea rubicunda* (C. L. Koch, 1838) – Hirna (unpublished data).

Family **Gnaphosidae**

37. *Drassodes pubescens* (Thorell, 1856) – Hirna (unpublished data).

38. *Drassyllus pusillus* (C. L. Koch, 1833) – Hirna (unpublished data).

39. *Haplodrassus signifer* (C. L. Koch, 1839) – Hirna (unpublished data).

40. *Haplodrassus silvestris* (Blackwall, 1833) – Hirna (unpublished data).

41. *Micaria pulicaria* (Sundevall, 1831) – Hirna (unpublished data).

42. *Zelotes apricorum* (L. Koch, 1876) – Hirna (unpublished data).

43. *Zelotes clivicola* (L. Koch, 1870) – Hirna (unpublished data).

44. *Zelotes similis* (Kulczyński, 1887) – Hirna, Yanul 2023.

45. *Zelotes subterraneus* (C. L. Koch, 1833) – Hirna (unpublished data).

Family **Hahniidae**

46. *Antistea elegans* (Blackwall, 1841) – Hirna (unpublished data).

47. (!) *Hahnia pusilla* C. L. Koch, 1841 – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

Family **Linyphiidae**

48. *Agyneta rurestris* (C. L. Koch, 1836) – Hirna (unpublished data).

49. (!) *Anguliphantes tripartitus* (Miller & Svatoň, 1978) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

50. *Asthenargus paganus* (Simon, 1884) – Hirna (unpublished data).

51. *Bathyphantes nigrinus* (Westring, 1851) – Hirna (unpublished data).

52. (!) *Bathyphantes similis* Kulczyński, 1894 – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

53. *Bolyphantes alticeps* (Sundevall, 1833) – Hirna (unpublished data).

54. *Centromerus arcanus* (O. Pickard-Cambridge, 1873) – Hirna (unpublished data).

55. (!) *Centromerus cavernarum* (L. Koch, 1872) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

56. *Centromerus pabulator* (O. Pickard-Cambridge, 1875) – Hirna (unpublished data).

57. *Centromerus sellarius* (Simon, 1884) – Hirna (unpublished data).

58. (!) *Centromerus silvicola* (Kulczyński, 1887) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

59. *Centromerus sylvaticus* (Blackwall, 1841) – Hirna (unpublished data).

60. *Ceratinella brevis* (Wider, 1834) – Hirna (unpublished data).

61. *Ceratinella brevipes* (Westring, 1851) – Hirna (unpublished data).

62. *Diplocephalus latifrons* (O. Pickard-Cambridge, 1863) – Hirna (unpublished data).

63. *Diplocephalus picinus* (Blackwall, 1841) – Hirna (unpublished data).

64. *Diplostyla concolor* (Wider, 1834) – Hirna (unpublished data).

65. *Dismodicus elevatus* (C. L. Koch, 1838) – Hirna (unpublished data).

66. *Drapetisca socialis* (Sundevall, 1833) – Hirna (unpublished data).

67. *Erigone dentipalpis* (Wider, 1834) – Hirna (unpublished data).

68. *Floronia bucculenta* (Clerck, 1757) – Hirna (unpublished data).

69. *Gonatium rubellum* (Blackwall, 1841) – Hirna (unpublished data).

70. (!) *Kaestneria torrentum* (Kulczyński, 1882) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

71. *Leptorhoptrum robustum* (Westring, 1851) – Hirna (unpublished data).

72. *Linyphia triangularis* (Clerck, 1757) – Hirna (unpublished data).

73. *Macrargus rufus* (Wider, 1834) – Hirna (unpublished data).

74. (!) *Maro minutus* O. Pickard-Cambridge, 1907 – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

75. *Maso sundevalli* (Westring, 1851) – Hirna (unpublished data).

76. *Metopobactrus prominulus* (O. Pickard-Cambridge, 1873) – Hirna (unpublished data).

77. *Microlinyphia pusilla* (Sundevall, 1830) – Hirna (unpublished data).

78. *Microneta viaria* (Blackwall, 1841) – Hirna (unpublished data).

79. *Minyriolus pusillus* (Wider, 1834) – Hirna (unpublished data).

80. *Mughiphantes mughi* (Fickert, 1875) – Hirna (unpublished data).

81. *Neriene clathrata* (Sundevall, 1830) – Hirna (unpublished data).

82. *Neriene emphana* (Walckenaer, 1841) – Hirna (unpublished data).

83. *Neriene montana* (Clerck, 1757) – Hirna (unpublished data).

84. *Neriene peltata* (Wider, 1834) – Hirna (unpublished data).

85. *Neriene radiata* (Walckenaer, 1841) – Hirna (unpublished data).

86. *Oedothorax agrestis* (Blackwall, 1853) – Hirna (unpublished data).

87. *Oedothorax fuscus* (Blackwall, 1834) – Hirna (unpublished data).

88. (!) *Oedothorax gibbifer* (Kulczyński, 1882) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

89. *Oedothorax gibbosus* (Blackwall, 1841) – Hirna (unpublished data).

90. (!) *Palliduphantes milleri* (Starega, 1972) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

91. *Pelecopsis elongata* (Wider, 1834) – Hirna (unpublished data).

92. *Pelecopsis radicicola* (L. Koch, 1872) – Hirna (unpublished data).

93. *Porrhomma convexum* (Westring, 1851) – Hirna (unpublished data).

94. *Saloca kulczynskii* Miller & Kratochvíl, 1939 – Hirna (unpublished data).

95. *Sintula corniger* (Blackwall, 1856) – Hirna (unpublished data).

96. *Stemonyphantes lineatus* (Linnaeus, 1758) – Hirna (unpublished data).

97. *Tallusia experta* (O. Pickard-Cambridge, 1871) – Hirna (unpublished data).

98. *Tapinocyba affinis* Lessert, 1907 – Hirna (unpublished data).

99. *Tapinocyba pallens* (O. Pickard-Cambridge, 1873) – Hirna (unpublished data).

100. *Taranucnus beskidicus* Hirna, 2018 – Hirna (unpublished data).

101. (!) *Taranucnus setosus* (O. Pickard-Cambridge, 1863) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

102. *Tenuiphantes alacris* (Blackwall, 1853) – Hirna (unpublished data).

103. *Tenuiphantes cristatus* (Menge, 1866) – Hirna (unpublished data).

104. *Tenuiphantes flavipes* (Blackwall, 1854) – Hirna (unpublished data).

105. *Tenuiphantes mengei* (Kulczyński, 1887) – Hirna (unpublished data).

106. *Tenuiphantes tenebricola* (Wider, 1834) – Hirna (unpublished data).

107. *Thyreosthenius parasiticus* (Westring, 1851) – Hirna (unpublished data).

108. *Walckenaeria alticeps* (Denis, 1952) – Hirna (unpublished data).

109. *Walckenaeria atrotibialis* (O. Pickard-Cambridge, 1878) – Hirna (unpublished data).

110. *Walckenaeria cuspidata* Blackwall, 1833 – Hirna (unpublished data).

111. *Walckenaeria dysderoides* (Wider, 1834) – Hirna (unpublished data).

112. *Walckenaeria furcillata* (Menge, 1869) – Hirna (unpublished data).

113.*Walckenaeria mitrata* (Menge, 1868) – Hirna (unpublished data).

Family **Lycosidae**

114.*Alopecosa aculeata* (Clerck, 1757) – Hirna 2015: revision of S. Pilawski's collection; Hirna (unpublished data).

115.*Alopecosa cuneata* (Clerck, 1757) – Hirna 2015: revision of S. Pilawski's collection

116.*Alopecosa pulverulenta* (Clerck, 1757) – Hirna (unpublished data).

117.*Alopecosa taeniata* (C. L. Koch, 1835) – Hirna (unpublished data).

118.(!) *Arctosa cinerea* Fabricius, 1777– Hirna (unpublished data) Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

119.(!) *Arctosa maculata* (Hahn, 1822) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

120. *Pardosa agrestis* (Westring, 1861) – Hirna (unpublished data).

121. *Pardosa alacris* (C. L. Koch, 1833) – Hirna (unpublished data).

122. *Pardosa amentata* (Clerck, 1757) – Hirna (unpublished data).

123. *Pardosa lugubris* (Walckenaer, 1802) – Hirna (unpublished data).

124. (!) *Pardosa nigra* (C. L. Koch, 1834) – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

125. *Pardosa palustris* (Linnaeus, 1758) – Hirna (unpublished data).

126. *Pardosa prativaga* (L. Koch, 1870) – Hirna (unpublished data).

127. *Pardosa pullata* (Clerck, 1757) – Hirna (unpublished data).

128. *Pardosa riparia* (C. L. Koch, 1833) – Hirna (unpublished data).

129. *Piratula hygrophila* (Thorell, 1872) – Hirna (unpublished data).

130. *Piratula knorri* (Scopoli, 1763) – Hirna (unpublished data).

131. *Piratula latitans* (Blackwall, 1841) – Hirna (unpublished data).

132. *Trochosa ruricola* (De Geer, 1778) – Hirna (unpublished data).

133. *Trochosa spinipalpis* (F. O. Pickard-Cambridge, 1895) – Hirna 2015: revision of S. Pilawski's collection

134. *Trochosa terricola* Thorell, 1856 – Hirna (unpublished data).

135. *Xerolycosa nemoralis* (Westring, 1861) – Hirna (unpublished data).

Family **Miturgidae**

136. *Zora spinimana* (Sundevall, 1833) – Hirna (unpublished data).

Family **Philodromidae**

137. *Philodromus aureolus* (Clerck, 1757) – Hirna (unpublished data).

138. *Philodromus collinus* C. L. Koch, 1835 – Hirna (unpublished data).

139. *Tibellus oblongus* (Walckenaer, 1802) – Hirna (unpublished data).

Family **Pholcidae**

140. *Pholcus alticeps* Spassky, 1932 – Hirna (unpublished data).

141. *Pholcus opilionoides* (Schrank, 1781) – Hirna (unpublished data).

Family **Phrurolithidae**

142. *Phrurolithus festivus* (C. L. Koch, 1835) – Hirna (unpublished data).

Family **Pisauridae**

143. *Pisaura mirabilis* (Clerck, 1757) – Hirna (unpublished data).

Family **Salticidae**

144. *Attulus caricis* (Westring, 1861) – Hirna (unpublished data).

145. *Attulus rupicola* (C. L. Koch, 1837) – Hirna (unpublished data).

146. *Ballus chalybeius* (Walckenaer, 1802) – Hirna (unpublished data).

147. *Dendryphantes rudis* (Sundevall, 1833) – Hirna (unpublished data).

148. *Euophrys frontalis* (Walckenaer, 1802) – Hirna (unpublished data).

149. *Evarcha arcuata* (Clerck, 1757) – Hirna (unpublished data).

150. *Evarcha falcata* (Clerck, 1757) – Hirna (unpublished data).

151. *Neon reticulatus* (Blackwall, 1853) – Hirna (unpublished data).

Family **Segestriidae**

152. *Segestria senoculata* (Linnaeus, 1758) – Hirna (unpublished data).

Family **Tetragnathidae**

153. *Metellina mengei* (Blackwall, 1869) – Hirna (unpublished data).

154. *Metellina segmentata* (Clerck, 1757) – Hirna (unpublished data).

155. *Pachygnatha clercki* Sundevall, 1823 – Hirna (unpublished data).

156. *Pachygnatha listeri* Sundevall, 1830 – Hirna (unpublished data).

157. *Tetragnatha dearmata* Thorell, 1873 – Hirna (unpublished data).

158. *Tetragnatha pinicola* L. Koch, 1870 – Hirna (unpublished data).

Family **Theridiidae**

159. *Enoplognatha ovata* (Clerck, 1757) – Hirna (unpublished data).

160. *Neottiura bimaculata* (Linnaeus, 1767) – Hirna (unpublished data).

161. *Parasteatoda lunata* (Clerck, 1757) – Hirna (unpublished data).

162. *Parasteatoda simulans* (Thorell, 1875) – Hirna (unpublished data).

163. *Parasteatoda tepidariorum* (C. L. Koch, 1841) – Hirna (unpublished data)

164. *Phylloneta impressa* (L. Koch, 1881) – Hirna (unpublished data)

165. *Phylloneta sisyphia* (Clerck, 1757) – Hirna (unpublished data).

166. *Platnickina tincta* (Walckenaer, 1802) – Hirna (unpublished data).

167. *Robertus lividus* (Blackwall, 1836) – Hirna (unpublished data).

168. (!) *Robertus scoticus* Jackson, 1914 – Hirna (unpublished data). Listed in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014).

169. *Steatoda bipunctata* (Linnaeus, 1758) – Hirna (unpublished data).

170. *Theridion varians* Hahn, 1833 – Hirna (unpublished data).

Family **Thomisidae**

171. *Diaea dorsata* (Fabricius, 1777) – Hirna (unpublished data).

172. *Misumena vatia* (Clerck, 1757) – Hirna (unpublished data).

173. *Ozyptila trux* (Blackwall, 1846) – Hirna (unpublished data).

174. *Xysticus audax* (Schrank, 1803) – Hirna (unpublished data).

175. *Xysticus bifasciatus* C. L. Koch, 1837 – Hirna (unpublished data).

176. *Xysticus cristatus* (Clerck, 1757) – Hirna (unpublished data).

177. *Xysticus ulmi* (Hahn, 1831) – Hirna (unpublished data).

CLASS **INSECTA**

ORDER **EPHEMEROPTERA**

Family **Baetidae**

1. *Baetis rhodani* (Pictet, 1845) – Proiect ... 2021.

2. *Baetis vernus* Curtis, 1834 – Proiect ... 2021.

Family **Ephemerellidae**

3. *Serratella ignita* (Poda, 1761) – Proiect ... 2021.

Family **Heptageniidae**

4. *Ecdyonurus dispar* (Curtis, 1834) – Proiect ... 2021.

5. *Ecdyonurus venosus* (Fabricius, 1775) – Proiect ... 2021.

6. *Rhithrogena gorganica* Klapálek, 1907 – Proiect ... 2021.

7. *Rhithrogena semicolorata* (Curtis, 1834) – Proiect ... 2021.

ORDER **ODONATA**

Suborder **Zygoptera**

Family **Calopterygidae**

8. *Calopteryx splendens* **(**Harris, 1782) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

9. (!) *Calopteryx virgo* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data). Listed in the Red Book of Ukraine (2021) and the Red Book of the Ukrainian Carpathians (2011).

Suborder **Anisoptera**

Family **Aeshnidae**

10. *Aeshna cyanea* (Müller, 1764) – Proiect ... 2021.

11. (!) *Anax imperator* Leach, 1815 – Proiect ... 2021. Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

Family **Gomphidae**

12. *Onychogomphus forcipatus* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Cordulegastridae**

13. (!) *Cordulegaster bidentata* Selys, 1843 – Zamoroka et al. 2017; Proiect ... 2021; "Biodiversity of Ukraine"; Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

Family **Libellulidae**

14. *Libellula depressa* Linnaeus, 1758 – Geryak et al. 2025.

ORDER **ORTHOPTERA**

Suborder **Ensifera**

Family **Tettigoniidae**

15. *Meconema thalassinum* (De Geer, 1773) – Łomnicki 1878a; 1878b; Proiect ... 2021.

16. *Isophya camptoxypha* (Fieber, 1853) – Łomnicki, 1878; Proiect ... 2021; iNaturalist.

17. *Phaneroptera falcata* (Poda, 1761) – Łomnicki, 1878; Proiect ... 2021.

18. *Barbitistes constrictus* (Brunner von Wattenwyl, 1878) – Łomnicki 1878a; 1878b; Proiect ... 2021; iNaturalist.

19. *Tettigonia cantans* (Fuessly, 1775) – Łomnicki 1878a; 1878b; Proiect ... 2021.

20. *Tettigonia caudata* (Charpentier, 1842) – Łomnicki 1878a; 1878b; Proiect ... 2021.

21. *Tettigonia viridissima* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021; Geryak, Khalaim (unpublished data).

22. *Decticus verrucivorus* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021.

Family **Gryllidae**

23. *Gryllus campestris* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021.; Geryak, Khalaim (unpublished data).

24. *Acheta domesticus* Linnaeus, 1758 – Łomnicki 1878a; 1878b; Proiect ... 2021.

Family **Myrmecophilidae**

25. *Myrmecophilus acervorum* (Panzer, 1799) – Łomnicki 1878a; 1878b; Proiect ... 2021.

Family **Gryllotalpidae**

26. *Gryllotalpa gryllotalpa* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021; Geryak, Khalaim (unpublished data).

Suborder **Caelifera**

Family **Tetrigidae**

27. *Tetrix bipunctata* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021.

28. *Tetrix subulata* (Linnaeus, 1761) – Łomnicki 1878a; 1878b; Proiect ... 2021.

Family **Acrididae**

29. *Miramella alpina* (Kollar, 1833) – Łomnicki 1878a; 1878b; Proiect ... 2021.

30. *Chorthippus albomarginatus* (De Geer, 1773) – Łomnicki 1878a; 1878b; Proiect ... 2021.

31. *Chorthippus biguttulus* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021.

32. *Chorthippus dorsatus* (Zetterstedt, 1821) – Łomnicki 1878a; 1878b; Proiect ... 2021.

33. *Chorthippus vagans* (Eversmann, 1848) – Łomnicki 1878a; 1878b; Proiect ... 2021.

34. *Chrysochraon dispar* (Germar, 1836) – Łomnicki 1878a; 1878b; Proiect ... 2021.

35. *Gomphocerippus rufus* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021.

36. *Omocestus viridulus* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021; iNaturalist.

37. *Stenobothrus lineatus* (Panzer, 1796) – Łomnicki 1878a; 1878b; Proiect ... 2021.

38. *Stenobothrus stigmaticus* (Rambur, 1838) – Łomnicki 1878a; 1878b; Proiect ... 2021.

39. *Stethophyma grossum* (Linnaeus, 1758) – Łomnicki 1878a; 1878b; Proiect ... 2021.

ORDER **PLECOPTERA**

Family **Perlidae**

40. *Perla marginata* Panzer, 1799 – Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

41. *Perla pallida* Guérin, 1838 – Proiect ... 2021.

42. *Isoperla grammatica* (Poda, 1761) – Proiect ... 2021.

Family **Perlodidae**

43. *Perlodes dispers* (Linnaeus, 1758) – Proiect ... 2021.

Family **Leuctridae**

44. *Leuctra albida* Kempny, 1899 – Proiect ... 2021.

45. *Leuctra fusca* (Linnaeus, 1758) – Proiect ... 2021.

Family **Nemouridae**

46. *Nemoura cinerea* (Retzius, 1783) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

ORDER **DERMAPTERA**

Family **Forficulidae**

47. *Forficula auricularia* Linnaeus, 1758 – Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

48. *Chelidura acanthopygia* (Gene, 1832) – Geryak et al. 2025.

ORDER **BLATTODEA**

Family **Ectobiidae**

49. *Ectobius (Ectobius) lapponicus* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

ORDER **HEMIPTERA**

Suborder **Sternorrhyncha**

Family **Coccidae**

50. *Pulvinaria* sp. – iNaturalist.

Family **Adelgidae**

51. *Adelges abietis* (Linnaeus, 1758) – iNaturalist.

Suborder **Auchenorrhyncha**

Family **Cercopidae**

52. *Cercopis sanguinolenta* (Scopoli, 1763) – Geryak et al. 2025; UkrBIN.

53. *Cercopis vulnerata* Rossi, 1807 – Geryak et al. 2025.

Family **Cicadellidae**

54. *Evacanthus interruptus* (Linnaeus, 1758) – iNaturalist.

Family **Aphrophoridae**

55. *Aphrophora alni* Fallén, 1805 – iNaturalist.

56. *Aphrophora salicina* (Goeze, 1778) – iNaturalist.

Suborder **Heteroptera**

Family **Miridae**

57. *Calocoris affinis* (Herrich-Schäffer, 1835) – iNaturalist.

58. *Deraeocoris ruber* (Linnaeus, 1758) – iNaturalist.

59. *Stenodema holsata* (Fabricius, 1787) – iNaturalist.

Family **Nabidae**

60. *Nabis limbatus* Dahlbom, 1851 – iNaturalist.

Family **Tingidae**

61. *Corythucha arcuata* (Say, 1832) – iNaturalist.

Family **Coreidae**

62. *Coreus marginatus* (Linnaeus, 1758) – iNaturalist.

Family **Pentatomidae**

63. *Dolycoris baccarum* (Linnaeus, 1758) – Geryak et al. 2025.

64. *Graphosoma italicum* (O.F. Müller, 1766) – Geryak et al. 2025.

65. *Palomena prasina* (Linnaeus, 1761) – Geryak et al. 2025; iNaturalist.

66. *Pentatoma rufipes* (Linnaeus, 1758) – Geryak et al. 2025.

67. *Picromerus bidens* (Linnaeus, 1758) – iNaturalist.

Family **Pyrrhocoridae**

68. *Pyrrhocoris apterus* (Linnaeus, 1758) – Geryak et al. 2025.

ORDER **HYMENOPTERA**

Suborder **Symphyta**

Family **Cimbicidae**

69. *Cimbex connatus* (Schrank, 1776) – Geryak et al. 2025.

Family **Tenthredinidae**

70. *Eriocampa ovata* (Linnaeus, 1760) – iNaturalist.

71. *Euura proxima* (Serville, 1823) – iNaturalist.

72. *Nematinus fuscipennis* (Serville, 1823) – iNaturalist.

73. *Nematinus steini* Blank, 1998 – iNaturalist.

74. *Pontania proxima* (Serville, 1823) – iNaturalist.

75. *Tenthredo campestris* Linnaeus, 1758 – Zabroda 2007; Sirenko, Zabroda 2013.

76. *Tenthredo albicornis* Geoffroy, 1785 – Zabroda 2007; Sirenko, Zabroda 2013.

77. *Tenthredo velox* Fabricius, 1798 – Zabroda 2007; Sirenko, Zabroda 2013.

Family **Siricidae**

78. *Sirex noctilio* Fabricius, 1773 – Bobyliak, Sirenko 2009.

79. *Tremex fuscicornis* (Fabricius, 1787) – Bobyliak, Sirenko 2009.

80. (!) *Urocerus augur* (Klug, 1803) – Bobyliak, Sirenko 2009. Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

81. *Urocerus gigas* (Linnaeus, 1758) – Bobyliak, Sirenko 2009; Geryak, Khalaim (unpublished data).

82. *Xeris spectrum* (Linnaeus, 1758) – Bobyliak, Sirenko 2009.

Suborder **Apocrita**

Family **Cynipidae**

83. *Diplolepis rosae* (Linnaeus, 1758) – "Biodiversity of Ukraine".

Family **Ichneumonidae**

84. *Arotes albicinctus* Gravenhorst, 1829 – Varga 2024.

85. *Coleocentrus excitator* (Poda, 1761) – Varga 2013.

86. *Adelognathus acantholydae* Kasparyan, 1986 – Varga 2024.

87. *Adelognathus dorsalis* (Gravenhorst, 1829) – Varga 2024.

88. *Adelognathus nigrifrons* Holmgren, 1857 – Varga 2024.

89. *Adelognathus obscurus* Kasparyan, 1986 – Varga 2024.

90. *Adelognathus pilosus* Thomson, 1888 – Varga 2024.

91. *Adelognathus pusillus* Holmgren, 1857 – Varga 2024.

92. *Agriotypus armatus* Curtis, 1832 – Varga 2024.

93. *Agrypon anxium* (Wesmael, 1849) – Nuzhna, Varga 2015.

94. *Agrypon flexorium* (Thunberg, 1824) – Nuzhna, Varga 2015; Proiect ... 2021.

95. *Heteropelma amictum* (Fabricius, 1775) – Nuzhna, Varga 2015; Proiect ... 2021.

96. *Heteropelma megarthrum* (Ratzeburg, 1848) – Nuzhna, Varga 2015; Proiect ... 2021.

97. *Therion circumflexum* (Linnaeus, 1758) – Nuzhna, Varga 2015; Proiect ... 2021.

98. *Therion giganteum* (Gravenhorst, 1829) – Nuzhna, Varga 2015; Proiect ... 2021.

99. *Cryptopimpla anomala* (Holmgren, 1860) – Varga 2024.

100. *Leptocampoplex cremastoides* (Holmgren, 1860) – Varga 2024.

101. *Rhimphoctona longicauda* Horstmann, 1980 – Varga 2017b; Proiect ... 2021.

102. *Rhimphoctona obscuripes* (Holmgren, 1860) – Varga 2017b.

103. *Rhimphoctona pectoralis* (Kriechbaumer, 1890) – Varga 2017b.

104. *Rhimphoctona rufocoxalis* (Clément, 1924) – Varga 2017b.

105. *Rhimphoctona teredo* (Hartig, 1847) – Varga 2017b; Proiect ... 2021.

106. *Collyria trichophthalma* (Thomson, 1877) – Varga 2020; Proiect ... 2021.

107. *Demopheles corruptor* (Taschenberg, 1865) – Varga 2024.

108. *Echthrus reluctator* (Linnaeus, 1758) – Varga 2024.

109. *Cylloceria caligata* (Gravenhorst, 1829) – Varga, Kostro-Ambroziak 2021.

[*Diplazon flixi* Klopfstein, 2014] – Proiect ... 2021. Incorrect indication (report by O. Varga).

110. *Diplazon laetatorius* (Fabricius, 1781) – Varga 2020.

111. *Diplazon pectoratorius* (Thunberg, 1822) – Varga 2020; Proiect ... 2021.

112. *Diplazon scutatorius* Teunissen, 1943 – Varga 2024.

113. *Enizemum ornatum* (Gravenhorst, 1829) – Varga 2020.

114. *Homotropus collinus* (Stelfox, 1941) – Varga 2020; Proiect ... 2021.

115. *Homotropus elegans* (Gravenhorst, 1829) – Varga 2020.

116. *Homotropus megaspis* (Thomson, 1890) – Varga 2020; 2024.

117. *Homotropus pictus* (Gravenhorst, 1829) – Varga 2020; Proiect ... 2021.

118. *Homotropus signatus* (Gravenhorst, 1829) – Varga 2024.

119. *Promethes melanaspis* (Thomson, 1890) – Varga 2020.

120. *Sussaba dorsalis* (Holmgren, 1858) – Varga 2020.

121. *Sussaba pulchella* (Holmgren, 1858) – Varga 2020; 2024.

122. *Sussaba punctiventris* (Thomson, 1890) – Varga 2020; Proiect ... 2021.

123. *Syrphoctonus fissorius* (Gravenhorst, 1829) – Varga 2020.

124. *Syrphoctonus tarsatorius* (Panzer, 1809) – Varga 2020; Proiect ... 2021.

125. *Syrphophilus bizonarius* (Gravenhorst, 1829) – Varga 2024.

126. *Syrphophilus tricinctorius* (Thunberg, 1822) – Varga 2020.

127. *Tymmophorus obscuripes* (Holmgren, 1858) – Varga 2020.

128. *Woldstedtius biguttatus* (Gravenhorst, 1829) – Varga 2024.

129. *Woldstedtius citropectoralis* (Schmiedeknecht, 1926) – Varga 2020; Proiect ... 2021.

130. *Woldstedtius flavolineatus* (Gravenhorst, 1829) – Varga 2020; Proiect ... 2021.

131. *Euceros serricornis* (Haliday, 1838) – Varga 2024.

132. *Coelichneumon nobilis* (Wesmael, 1857) – Varga et al., 2020; Proiect ... 2021.

133. *Coelichneumon sugillatorius* (Linnaeus, 1758) – Varga et al. 2020; Proiect ... 2021.

134. *Syspasis tauma* (Heinrich, 1951) – Varga et al. 2020; Proiect ... 2021.

135. *Amblyteles armatorius* (Forster, 1771) – Varga et al. 2020; Proiect ... 2021.

136. *Aoplus altercator* (Wesmael, 1855) – Varga et al. 2020; Proiect ... 2021.

137. *Aoplus defraudator* (Wesmael, 1845) – Varga et al. 2020; Proiect ... 2021.

138. *Aoplus ochropis* (Gmelin, 1790) – Varga et al. 2020; Proiect ... 2021.

139. *Cratichneumon dissimilis* (Gravenhorst, 1829) – Varga et al. 2020; Proiect ... 2021.

140. *Cratichneumon flavifrons* (Schrank, 1781) – Varga et al. 2020; Proiect ... 2021.

141. *Cratichneumon rufifrons* (Gravenhorst, 1829) – Varga et al. 2020; Proiect ... 2021.

142. *Cratichneumon viator* (Scopoli, 1763) – Varga et al. 2020; Proiect ... 2021.

143. *Diphyus latebricola* (Wesmael, 1845) – Varga et al. 2020; Proiect ... 2021.

144. *Diphyus mercatorius* (Fabricius, 1793) – Varga et al. 2020; Proiect ... 2021.

145. *Diphyus trifasciatus* (Gravenhorst, 1829) – Varga et al. 2020; Proiect ... 2021.

146. *Homotherus berthoumieui* (Pic, 1899) – Varga et al. 2020; Proiect ... 2021.

147. *Homotherus varipes* (Gravenhorst, 1829) – Varga et al. 2020; Proiect ... 2021.

148. *Ichneumon cessator* Müller, 1776 – Varga et al.,2020; Proiect ... 2021.

149. *Ichneumon formosus* Gravenhorst, 1829 – Varga et al. 2020; Proiect ... 2021.

150. *Ichneumon freyi* Kriechbaumer, 1880 – Varga et al. 2020; Proiect ... 2021.

151. *Ichneumon fulvicornis* Gravenhorst, 1829 – Varga et al. 2020; Proiect ... 2021.

152. *Ichneumon gracilentus* Wesmael, 1845 – Varga et al. 2020; Proiect ... 2021.

153. *Ichneumon gracilicornis* Gravenhorst, 1829 – Varga et al. 2020; Proiect ... 2021.

154. *Ichneumon ingratus* (Hellén, 1951) – Varga et al. 2020; Proiect ... 2021.

155. *Ichneumon primatorius* Forster, 1771 – Varga et al. 2020; Proiect ... 2021.

156. *Ichneumon simulans* Tischbein, 1873 – Varga et al. 2020; Proiect ... 2021.

157. *Ichneumon stramentarius* Gravenhorst, 1820 – Varga et al. 2020; Proiect ... 2021.

158. *Ichneumon submarginatus* Gravenhorst, 1829 – Varga et al. 2020; Proiect ... 2021.

159. *Limerodops unilineatus* (Gravenhorst, 1829) – Varga et al. 2020; Proiect ... 2021.

160. *Patrocloides sputator* (Fabricius, 1793) – Varga et al. 2020; Proiect ... 2021.

161. *Thyrateles camelinus* (Wesmael, 1845) – Varga et al. 2020; Proiect ... 2021.

162. *Thyrateles haereticus* (Wesmael, 1854) – Varga et al. 2020; Proiect ... 2021.

163. *Eriplatys sawoniewiczi* Diller, 1993 – Varga et al. 2020; Proiect ... 2021.

164. *Misetus oculatus* Wesmael, 1845 – Varga et al. 2020; Proiect ... 2021.

165. *Stenodontus marginellus* (Gravenhorst, 1829) – Varga et al. 2020; Proiect ... 2021.

166. *Tycherus capitosus* (Holmgren, 1890) – Varga et al. 2020; Proiect ... 2021.

167. *Tycherus flavidens* (Wesmael, 1845) – Varga et al. 2020; Proiect ... 2021.

168. *Tycherus flavoclypeatus* Strobl, 1901 – Varga et al. 2020; Proiect ... 2021.

169. *Tycherus fuscibucca* (Berthoumieu, 1901) – Varga et al. 2020; Proiect ... 2021.

170. *Tycherus osculator* (Thunberg, 1822) – Varga et al. 2020; Proiect ... 2021.

171. *Tycherus parvitor* Aubert, 1982 – Varga et al. 2020; Proiect ... 2021.

172. *Tycherus planipectus* (Holmgren, 1890) – Varga et al. 2020; Proiect ... 2021.

173. *Tycherus septentrionalis* (Holmgren, 1890) – Varga et al. 2020; Proiect ... 2021.

174. *Astiphromma splenium* (Curtis, 1833) – Riedel, Varga 2019.

175. *Astiphromma striatum* (Brischke, 1880) – Riedel, Varga 2019.

176. *Astiphromma varipes* (Holmgren, 1860) – Riedel, Varga 2019.

177. *Cyclolabus axillatorius* (Thunberg, 1824) – Varga et al. 2020; Proiect ... 2021.

178. *Platylabus rufus* Wesmael, 1845 – Varga et al. 2020; Proiect ... 2021.

179. *Platymischos bassicus* (Tischbein, 1868) – Varga et al. 2020; Proiect ... 2021.

180. *Mesochorus alpigenus* Strobl, 1904 – Riedel, Varga 2022.

181. *Mesochorus angustatus* Thomson, 1886 – Riedel, Varga 2022.

182. *Mesochorus atriventris* Cresson, 1872 – Riedel, Varga 2022.

183. *Mesochorus curvulus* Thomson, 1886 – Riedel, Varga 2022.

184. *Mesochorus frondosus* Schwenke, 1999 – Riedel, Varga 2022.

185. *Mesochorus fulgurans* Curtis, 1833 – Riedel, Varga 2022.

186. *Mesochorus gemellus* Holmgren, 1860 – Riedel, Varga 2022.

187. *Mesochorus globulator* (Thunberg, 1822) – Riedel, Varga 2022.

188. *Mesochorus laricis* Hartig, 1838 – Riedel, Varga 2022.

189. *Mesochorus marginatus* Thomson, 1886 – Riedel, Varga 2022.

190. *Mesochorus pectinipes* Bridgman, 1883 – Riedel, Varga 2022.

191. *Mesochorus pictilis* Holmgren, 1860 – Riedel, Varga 2022.

192. *Mesochorus politus* Gravenhorst, 1829 – Riedel, Varga 2022.

193. *Mesochorus punctipleuris* Thomson, 1886 – Riedel, Varga 2022.

194. *Mesochorus rubeculus* Hartig, 1838 – Riedel, Varga 2022.

195. *Mesochorus tachypus* Holmgren, 1860 – Riedel, Varga 2022.

196. *Mesochorus testaceus* Gravenhorst, 1829 – Riedel, Varga 2022.

197. *Mesochorus thomsonii* Dalla Torre, 1901 – Riedel, Varga 2022.

198. *Mesochorus vitticollis* Holmgren, 1860 – Riedel, Varga 2022.

199. *Batakomacrus karelicus* Humala, 2010 – Varga 2024.

200. *Batakomacrus subarcticus* Humala, 2010 – Varga 2024.

201. *Dialipsis exilis* Forster, 1871 – Varga 2024.

202. *Neurateles papyraceus* Ratzeburg, 1848 – Varga 2024.

203. *Delomerista pfankuchi* Brauns, 1905 – Varga 2018c; Proiect ... 2021.

204. *Dolichomitus aciculatus* (Hellen, 1915) – Varga 2014a.

205. (!) *Dolichomitus cephalotes* (Holmgren, 1860) – Varga 2012; 2014a. Listed in the Red Book of Ukraine (Chervona … 2021).

206. *Dolichomitus curticornis* (Perkins, 1943) – Varga 2014a.

207. *Dolichomitus diversicostae* (Perkins, 1943) – Varga 2014a.

208. *Dolichomitus imperator* (Kriechbaumer, 1854) – Varga 2014a.

209. *Dolichomitus mesocentrus* (Gravenhorst, 1829) – Varga 2014a.

210. *Dolichomitus quercicolus* Zwakhals, 2010 – Varga 2014a.

211. *Dolichomitus terebrans* (Ratzeburg, 1844) – Varga 2014a.

212. *Dolichomitus tuberculatus* (Geoffroy, 1785) – Varga 2014a.

213. *Endromopoda detrita* (Holmgren, 1860) – Varga 2019; Proiect ... 2021.

214. *Endromopoda nigricoxis* (Ulbricht, 1910) – Varga 2019; Proiect ... 2021.

215. *Ephialtes duplicauda* Heinrich, 1949 – Varga 2019; Proiect ... 2021.

216. *Exeristes longiseta* (Ratzeburg, 1844) – Varga 2017a; Proiect ... 2021.

217. *Exeristes roborator* (Fabricius, 1793) – Varga 2017a.

218. *Liotryphon crassiseta* (Thomson, 1877) – Varga 2019; Proiect ... 2021.

219. *Paraperithous gnathaulax* (Thomson, 1877) – Varga 2019.

220. *Scambus alpestrator* Aubert, 1966 – Varga 2019.

221. *Scambus buolianae* (Hartig, 1838) – Varga 2019; Proiect ... 2021.

222. *Scambus inanis* (Schrank, 1802) – Varga 2019; Proiect ... 2021.

223. *Scambus nigricans* (Thomson, 1877) – Varga 2019; Proiect ... 2021.

224. *Scambus sagax* (Hartig, 1838) – Varga 2019; Proiect ... 2021.

225. *Scambus signatus* (Pfeffer, 1913) – Varga 2019; Proiect ... 2021.

226. *Scambus strobilorum* (Ratzeburg, 1848) – Varga 2019; Proiect ... 2021.

227. *Townesia tenuiventris* (Holmgren, 1860) – Varga 2019; Proiect ... 2021.

228. *Tromatobia ovivora* (Boheman, 1821) – Varga 2018a; Proiect ... 2021.

229. *Apechthis quadridentata* (Thomson, 1877) – Varga 2018b

230. *Apechthis rufata* (Gmelin, 1870) – Varga 2018b

231. *Itoplectis alternans* (Gravenhorst, 1829) – Varga 2018b

232. *Itoplectis aterrima* Jussila, 1965 – Varga 2018b

233. *Itoplectis insignis* Perkins, 1957 – Varga 2018b

234. *Itoplectis maculator* (Fabricius, 1775) – Varga 2018b

235. *Pimpla arctica* Zetterstedt, 1838 – Varga 2018b

236. *Pimpla flavicoxis* Thomson, 1877 – Varga 2018b

237. *Pimpla insignatoria* (Gravenhorst, 1807) – Varga 2018b

238. *Pimpla turionellae* (Linnaeus, 1758) – Varga 2018b

239. *Deuteroxorides elevator* (Panzer, 1799) – Varga 2015.

240. *Neoxorides collaris* (Gravenhorst, 1829) – Varga 2015.

241. *Poemenia brachyura* Holmgren, 1860 – Varga 2015.

242. *Poemenia hectica* (Gravenhorst, 1829) – Varga 2015.

243. *Pseudorhyssa nigricornis* (Ratzeburg, 1852) – Varga 2015.

244. (!) *Megarhyssa rixator* (Schellenberg, 1802) – Varga 2014b; "Biodiversity of Ukraine". Listed in the Red Book of Ukraine (Chervona … 2021).

245. *Rhyssa amoena* Gravenhorst, 1829 – Varga 2014b; "Biodiversity of Ukraine".

246. (!) *Rhyssa kriechbaumeri* Ozols, 1973 – Varga 2014b; "Biodiversity of Ukraine". Listed in the Red Book of Ukraine (Chervona … 2021).

247. *Rhyssa persuasoria* (Linnaeus, 1758) – Varga 2014b; "Biodiversity of Ukraine".

248. *Astrenis nigrifacies* Vikberg, 2000 – Varga 2023.

249. *Phrudus defectus* Stelfox, 1966 – Varga 2023.

250. *Ctenochira propinqua* (Gravenhorst, 1829) – Varga 2024.

251. *Eclytus multicolor* (Kriechbaumer, 1896) – Varga 2024.

252. *Exenterus amictorius* (Panzer, 1801) – Varga 2024.

253. *Hercus fontinalis* (Holmgren, 1857) – Varga 2024.

254. *Polyblastus tener* Habermehl, 1909 – Varga 2024.

255. *Ischnoceros rusticus* (Geoffroy, 1785) – Varga 2014c.

256. *Odontocolon dentipes* (Gmelin, 1790) – Varga 2014c.

257. *Odontocolon geniculatum* (Kriechbaumer, 1889) – Varga 2014c.

258. *Odontocolon punctulatum* (Thomson, 1877) – Varga 2014c.

259. *Odontocolon spinipes* (Gravenhorst, 1829) – Varga 2014c.

260. *Xorides brachylabis* (Kriechbaumer, 1889) – Varga 2014d.

261. *Xorides gravenhorstii* (Curtis, 1831) – Varga 2014d.

Family **Mutillidae**

262. *Mutilla marginata* Baer, 1848 – iNaturalist.

Family **Vespidae**

263. *Polistes sp.* – iNaturalist.

264. *Vespa crabro* Linnaeus, 1758 – Proiect ... 2021.

265. *Vespula germanica* (Fabricius, 1793) – Proiect ... 2021.

Family **Formicidae**

266. *Formica fusca* Linnaeus, 1758 – iNaturalist.

267. *Formica rufa* Linnaeus, 1761 – iNaturalist.

268. *Formica sanguinea* Latreille, 1798 – iNaturalist.

269. *Formica truncorum* Fabricius, 1804 – iNaturalist.

270. *Myrmica sp.* – iNaturalist.

Family **Andrenidae**

271. *Andrena sp.* – iNaturalist.

Family **Apidae**

272. *Apis mellifera* **(**Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

273. *Bombus barbutellus* (Kirby, 1802) – Zhyrak 2008.

274. *Bombus distinguendus* Morawitz, 1869 – Zhyrak 2004; 2008.

275. *Bombus hortorum* (Linnaeus, 1761) – Rymarchuk et al., 2002; Zhyrak 2004; 2008.

276. *Bombus lapidarius* (Linnaeus 1758) – Zhyrak 2004; Proiect ... 2021; "Biodiversity of Ukraine"; Geryak, Khalaim (unpublished data).

277. *Bombus lucorum* (Linnaeus 1761) – Rymarchuk et al. 2002; Zhyrak 2004; 2008; Proiect ... 2021; iNaturalist.

278. *Bombus pascuorum* (Scopoli, 1763) – Rymarchuk et al. 2002 (- *agrorum*); Zhyrak 2004; 2008; iNaturalist; UkrBIN.

279. *Bombus pratorum* (Linnaeus 1758) – Zhyrak 2004; 2008; Proiect ... 2021; iNaturalist.

280. (!) *Bombus pyrenaeus* (Perez 1758) – Zhyrak 2008; Proiect ... 2021; iNaturalist. Listed in the Red Book of the Ukrainian Carpathians (Chervona … 2011).

281. *Bombus ruderarius* (Müller, 1776) – "Biodiversity of Ukraine".

282. *Bombus rupestris* (Fabricius, 1793) – Zhyrak 2008.

283. *Bombus terrestris* (Linnaeus 1758) – Rymarchuk et al. 2002; Zhyrak 2004; 2008; Proiect ... 2021; Geryak, Khalaim (unpublished data).

284. *Bombus vestalis* (Geoffroy, 1785) – Zhyrak 2008.

285. (!) *Bombus wurfleini* (Radoszkowski 1859) – Proiect ... 2021. Listed in the Red Book of the Ukrainian Carpathians (2011).

ORDER **COLEOPTERA**

Suborder **Adephaga**

Family **Dytiscidae**

286. *Agabus bipustulatus* (Linnaeus, 1767) – Łomnicki 1880; Proiect ... 2021.

287. *Agabus guttatus* (Paykull, 1798) – Łomnicki 1880; Proiect ... 2021.

288. *Agabus melanarius* Aubé, 1837 – Łomnicki 1880; 1886: - *tarsatus* Zett.

289. *Colymbetes fuscus* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

290. *Dytiscus marginalis* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

291. *Hydroporus planus* (Fabricius, 1782) – Łomnicki 1880; Proiect ... 2021.

292. *Hydroporus pubescens* (Gyllenhal, 1808) – Łomnicki 1880; Proiect ... 2021.

293. *Platambus maculatus* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

294. *Rhantus notaticollis* (Aubé, 1837) – Łomnicki 1880; 1886.

Family **Gyrinidae**

295. *Gyrinus natator* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

Family **Cicindelidae**

296. *Cicindela campestris* Linnaeus, 1758 – Kanarsky, Fufalko (unpublished data).

297. *Cicindela hybrida* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

298. *Cicindela sylvicola* Dejean in Latreille et Dejean, 1822 – Łomnicki 1880; "Biodiversity of Ukraine".

Family **Carabidae**

299. *Leistus piceus* (Froelich, 1799) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

300. *Nebria jockischi* (Sturm, 1815) – Łomnicki 1880; Proiect ... 2021; Rizun 2024; "Biodiversity of Ukraine".

301. *Nebria reitteri* Rybinski, 1902 – Proiect ... 2021.

302. *Nebria rufescens* (Strom, 1768) – Łomnicki 1880: - *gyllenhalli* Schh.; "Biodiversity of Ukraine"; Rizun 2024.

303. *Nebria transsylvanica* Germar, 1824 – Proiect ... 2021; "Biodiversity of Ukraine".

304. *Notiophilus biguttatus* (Fabricius, 1779) – Łomnicki 1880; Rizun 2024; "Biodiversity of Ukraine".

305. *Carabus arcensis* Herbst, 1784 ssp. *carpathus* Born, 1902 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; Rizun 2024; Geryak, Kanarsky, Khalaim (unpublished data).

306. (!) *Carabus auronitens* Fabricius, 1792 ssp. *escheri* Palliardi, 1825 – Łomnicki 1880; 1886; Proiect ... 2021; Rizun 2024; iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data). Listed in the Red Book of the Ukrainian Carpathians (2011).

307. *Carabus cancellatus* Illiger, 1798 – Łomnicki 1880; Proiect ... 2021; Rizun 2024; iNaturalist; Kanarsky (unpublished data).

308. *Carabus coriaceus* Linnaeus, 1758 – Proiect ... 2021; Kanarsky (unpublished data).

309. *Carabus glabratus* Paykull, 1790 – iNaturalist; Kanarsky (unpublished data).

310. *Carabus granulatus* Linnaeus, 1758 – Geryak, Khalaim (unpublished data).

311. (!) *Carabus fabricii* Duftschmid, 1812 ssp. *ucrainicus* Lazorko, 1951 – Łomnicki 1880; Zamoroka 2004; Zamoroka et al. 2005; Proiect ... 2021; Rizun 2024; iNaturalist; "Biodiversity of Ukraine"; Geryak, Kanarsky, Khalaim (unpublished data). Listed in the Red Book of the Ukrainian Carpathians (2011).

312. (!) *Carabus irregularis* Fabricius, 1792 – Proiect ... 2021. Listed in the Red Book of the Ukrainian Carpathians (2011).

313. *Carabus linnei* Panzer, 1810 – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

314. *Carabus obsoletus* Sturm, 1815 – Łomnicki 1880; Proiect ... 2021; Rizun 2024; Geryak, Kanarsky, Khalaim (unpublished data).

315. *Carabus violaceus* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; Rizun 2024; Geryak, Kanarsky, Khalaim (unpublished data).

316. (!) *Carabus variolosus* Fabricius, 1787 – Łomnicki 1880: - *nodulosus* Creutz.; Proiect ... 2021: - *nodulosus* Creutz.; Rizun 2024; Geryak, Khalaim (unpublished data). Protected under Resolution No. 6 of the Bern Convention.

317. (!) *Carabus zawadzkii* Kraatz, 1854 – Łomnicki 1880: - *preissleri* Dft.; Proiect ... 2021; Rizun 2024; "Biodiversity of Ukraine"; Kanarsky (unpublished data). Protected under Resolution No. 6 of the Bern Convention.

318. *Cychrus caraboides* Linnaeus, 1758 – Łomnicki 1880: - *rostratus* L.; Proiect ... 2021; Rizun 2024; "Biodiversity of Ukraine"; Geryak, Kanarsky, Khalaim (unpublished data).

319. *Trechus carpaticus* Rybiński, 1902 – "Biodiversity of Ukraine".

320. *Trechus latus* Putzeys, 1847 – Łomnicki 1880; 1886; Proiect ... 2021; Rizun 2024; "Biodiversity of Ukraine".

321. *Trechus striatulus* Putzeys, 1847 – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

322. *Bembidion bipunctatum* Linnaeus, 1761– Łomnicki 1880; Rizun 2024.

323. *Bembidion decorum* (Panzer, 1799) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

324. *Bembidion glaciale* Heer, 1837 – "Biodiversity of Ukraine".

325. *Bembidion lampros* (Herbst, 1784) – Łomnicki 1880; Rizun 2024.

326. *Bembidion litorale* Olivier, 1790 – Łomnicki 1880; Rizun 2024.

327. *Bembidion millerianum* Heyden, 1883 – Łomnicki 1880: - *basale* Mill.; Rizun 2024.

328. *Bembidion modestum* Fabricius, 1801 – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

329. *Bembidion quadrimaculatum* (Linnaeus, 1761) – Łomnicki 1880: - *4-maculatum* L.; Rizun 2024.

330. *Bembidion tetracolum* Say, 1823 – Proiect ... 2021.

331. *Bembidion tibiale* (Duftschmid, 1812) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

332. *Bembidion varicolor* Fabricius, 1803 – Łomnicki 1880: - *tricolor* F.; Proiect ... 2021; Rizun 2024.

333. *Bembidion varium* Olivier, 1795) – Proiect ... 2021.

334. *Elaphropus quadrisignatus* (Duftschmid, 1812) – Łomnicki 1880: - *4-signatus* Dft.; Rizun 2024.

335. *Patrobus quadricollis* Miller 1868 – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

336. *Tachyta nana* (Gyllenhal, 1810) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

337. (!) *Deltomerus carpathicus* (L. Miller, 1868) – Proiect ... 2021; Kanarsky (unpublished data). Listed in the Red Book of the Ukrainian Carpathians (2011).

338. *Poecilus lepidus* (Leske, 1785) – Łomnicki 1880; Rizun 2024.

339. *Poecilus versicolor* (Sturm, 1824) – Kanarsky (unpublished data).

340. *Pterostichus aterrimus* (Herbst, 1784) – "Biodiversity of Ukraine".

341. (?) (!) *Pterostichus burmeisteri* Heer, 1838 – Proiect ... 2021. This is probably a mistake, as the species does not extend this far east, reaching at most the Skolivski Beskydy and Vododilno-Verkhovynskyi ridges (*note by Yu. Kanarsky*). The presence of this species in the Park`s fauna needs to be confirmed. Listed in the Red Book of the Ukrainian Carpathians (2011).

342. *Pterostichus cordatus* Letzner, 1842) – Łomnicki 1880: - *rufitarsis* Dej.; Proiect ... 2021: - *rufitarsis* Dej.; Rizun 2024.

343. *Pterostichus foveolatus* (Duftschmid, 1812) – Łomnicki 1880; 1886: - *foveolata* v. *interruptestriata* Bz.; Proiect ... 2021; Rizun 2024; "Biodiversity of Ukraine"; Kanarsky (unpublished data).

344. *Pterostichus jurinei* (Panzer, 1803) ssp. *heydeni* Heer, 1838 – Łomnicki 1880; 1886; Rizun 2024; "Biodiversity of Ukraine"; Kanarsky (unpublished data).

345. *Pterostichus melanarius* (Illiger, 1798) – Geryak et al. 2025.

346. *Pterostichus niger* (Schaller, 1783) – Łomnicki 1880; Proiect ... 2021; Rizun 2024; Geryak, Kanarsky, Khalaim (unpublished data).

347. *Pterostichus oblongopunctatus* (Fabricius, 1787) – Łomnicki 1880; Rizun 2024.

348. *Pterostichus pilosus* (Host, 1789) – Łomnicki 1880: - *fossulata* Schh.; Proiect ... 2021; Rizun 2024; Geryak, Kanarsky, Khalaim (unpublished data).

349. *Pterostichus strenuus* (Panzer, 1796) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

350. *Pterostichus unctulatus* Duftschmid, 1812 – Łomnicki 1880: - *subsinuata* Dej.; Proiect ... 2021: - *subsinuatus* Dej.; Rizun 2024; "Biodiversity of Ukraine"; Geryak, Khalaim (unpublished data).

351. *Pterostichus vernalis* (Panzer, 1796) – Łomnicki 1880; Proiect ... 2021; Rizun 2024; "Biodiversity of Ukraine".

352. *Abax parallelepipedus* (Piller et Mitterpacher, 1783) – Łomnicki 1880: - *striola* F.; Rizun 2024; Geryak, Kanarsky, Khalaim (unpublished data).

353. *Abax parallelus* (Duftschmid, 1812) – Kanarsky, Fufalko (unpublished data).

354. *Abax schueppeli* Palliardi, 1825 ssp. *rendschmidti* Germar, 1839 – Geryak, Kanarsky, Khalaim (unpublished data).

355. *Molops piceus* Bonelli, 1810 – Łomnicki 1880: - *terricola* F.; "Biodiversity of Ukraine"; Kanarsky (unpublished data).

356. *Calathus melanocephalus* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

357. *Calathus metallicus* Dejean, 1828 – Łomnicki 1880; Proiect ... 2021; Rizun 2024; Kanarsky (unpublished data).

358. *Synuchus vivalis* Illiger,1798 – Kanarsky (unpublished data).

359. *Agonum muelleri* Herbst, 1784 – Łomnicki 1880; Rizun 2024.

360. *Platynus assimile* (Paykull, 1790) – Łomnicki 1880: - *junceus* Scop.; Rizun 2024; Kanarsky (unpublished data).

361. *Amara* sp. – Kanarsky, Fufalko (unpublished data).

362. *Harpalus affinis* (Schrank, 1781) – Łomnicki 1880: - *aeneus* F.; Proiect ... 2021: - *aeneus* F.; Rizun 2024.

363. *Harpalus rufipes* (De Geer, 1774) – Geryak et al. 2025.

364. *Trichotichnus laevicollis* (Duftschmid, 1812) – Łomnicki 1880; Proiect ... 2021; Rizun 2024; Kanarsky (unpublished data).

365. *Licinus hoffmannseggi* (Panzer, 1797) – Kanarsky, Fufalko (unpublished data).

366. *Lebia cruxminor* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; Rizun 2024.

367. *Dyschirius globosus* Herbst, 1784 – "Biodiversity of Ukraine".

368. *Elaphrus aureus* P.W.J. Müller, 1821 – "Biodiversity of Ukraine".

Suborder **Polyphaga**

Family **Scirtidae**

369. *Helodes minuta* (Linnaeus, 1767) – Łomnicki 1880; Proiect ... 2021.

Family **Byrrhidae**

370. *Byrrhus fasciatus* (Forster, 1771) – Łomnicki 1880; 1886.

371. *Byrrhus glabratus* Heer, 1841 – Łomnicki 1880.

372. *Byrrhus pilula* (Linnaeus, 1758) – Łomnicki 1880: - *regalis* Steff.; Geryak et al. 2025.

Family **Buprestidae**

373. *Agrilus integerrimus* (Ratzeburg, 1837) – Łomnicki 1880; Proiect ... 2021.

374. *Agrilus viridis* (Linnaeus, 1758) – Łomnicki 1880; 1886; Proiect ... 2021.

375. *Anthaxia quadripunctata* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; iNaturalist; "Biodiversity of Ukraine".

Family **Elateridae**

376. *Actenicerus sjaelandicus* (Müller, 1764) – Łomnicki 1880: - *tessellatus* L.; Mykytsei 2012; Proiect ... 2021; Geryak, Khalaim (unpublished data).

377. *Adelocera conspersa* (Gyllenhal, 1808) – Mykytsei 2012.

378. *Adrastus axillaris* Erichson, 1841 – Mykytsei 2012.

379. *Adrastus lacertosus* Erichson, 1841 – Mykytsei 2012.

380. *Agriotes lineatus* (Linnaeus, 1758) – Mykytsei 2012.

381. *Agriotes obscurus* (Linnaeus, 1758) – Mykytsei 2012.

382. *Agriotes ustulatus* (Schalerl, 1838) – Mykytsei 2012.

383. *Agrypnus murinus* (Linnaeus, 1758) – Łomnicki 1880; Mykytsei 2012; Proiect ... 2021.

384. *Ampedus aethiops* (Lacordaire, 1835) – Mykytsei 2012.

385. *Ampedus erythrogonus* (Müller, 1821) – Łomnicki 1880; Proiect ... 2021.

386. *Ampedus pomorum* (Herbst, 1784) – Łomnicki 1880; Proiect ... 2021.

387. *Ampedus praeustus* (Fabricius, 1792) – Mykytsei 2012.

388. *Ampedus sanguineus* (Linnaeus, 1758) – Mykytsei 2012.

389. *Ampedus tristis* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

390. *Anostirus purpureus* (Poda, 1761) – Mykytsei 2012.

391. *Athous carpathophilus* Reitter, 1910 – Mykytsei 2012.

392. *Athous haemorrhoidalis* (Fabricius, 1801) – Kanarsky, Fufalko (unpublished data).

393. *Athous hirtus* (Herbst, 1784) – Mykytsei 2012.

394. *Athous mollis* Reitter, 1910 – Mykytsei 2012.

395. *Athous niger* Linnaeus, 1758 – Mykytsei 2012.

396. *Athous subfuscus* (Müller, 1764) – Łomnicki 1880; Mykytsei 2012; Proiect ... 2021; UkrBIN.

397. *Athous zebei* Bach, 1852 – Mykytsei 2012.

398. *Cidnopus pilosus* (Leske, 1785) – Mykytsei 2012; iNaturalist.

399. *Ctenicera cuprea* (Fabricius, 1775) – Łomnicki 1880; 1886; Mykytsei 2012; Proiect ... 2021.

400. *Ctenicera virens* (Schrank, 1781) – Mykytsei 2012; iNaturalist.

401. *Corymbites pectinicornis* Linnaeus, 1758 – Mykytsei 2012; Proiect ... 2021; Geryak, Khalaim (unpublished data).

402. *Danosoma fasciatum* (Linnaeus, 1758) – iNaturalist.

403. *Denticollis linearis* (Linnaeus, 1758) – iNaturalist.

404. *Dolopius marginatus* (Linnaeus, 1758) – Łomnicki 1880; Mykytsei 2012; Proiect ... 2021.

405. *Pheletes aeneoniger* (De Geer, 1774) – Łomnicki 1880; Proiect ... 2021.

406. *Liotrichus affinis* (Paykull, 1800) – Łomnicki 1880; Proiect ... 2021.

407. *Melanotus rufipes* (Herbst, 1784) – Mykytsei 2012.

408. *Nothodes parvulus* (Panzer, 1799) – Łomnicki 1880.

409. *Paranomus guttaus* German, 1817 – Mykytsei 2012.

410. *Selatosomus aeneus* (Linnaeus, 1758) – Łomnicki 1880; Mykytsei 2012; Proiect ... 2021; Geryak, Khalaim (unpublished data).

411. *Selatosomus infuscatus* (Eschsholtz, 1829) – Mykytsei 2012.

412. *Sericus brunneus* (Linnaeus, 1758) – Łomnicki 1880; Mykytsei 2012; Proiect ... 2021; Geryak, Khalaim (unpublished data).

413. *Synapus filiformis* (Fabricius, 1781) – Mykytsei 2012.

Family Lycidae

414. *Lygistopterus sanguineus* (Linnaeus, 1758) – Łomnicki 1880.

415. *Pyropterus nigroruber* (De Geer, 1774) – Łomnicki 1880; iNaturalist.

Family **Lampyridae**

416. *Lamprohiza splendidula* (Linnaeus, 1767) – Geryak et al. 2025.

417. *Lampyris noctiluca* (Linnaeus, 1767) – UkrBIN

Family **Cantharidae**

418. *Ancistronycha erichsonii* Bach, 1854 – Łomnicki 1880.

419. *Cantharis figurata* Mannerheim, 1843 – Łomnicki 1880; Proiect ... 2021.

420. *Cantharis flavilabris* Fallén, 1807 – Łomnicki 1880: - *ater* L.; Proiect ... 2021.

421. *Cantharis fusca* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

422. *Cantharis livida* Linnaeus 1758 – Turys 2022.

423. *Cantharis obscura* Linnaeus, 1758 – Łomnicki 1880.

424. *Cantharis nigricans* (Müller, 1776) – Łomnicki, 1886.

425. *Cantharis pagana* Rosenhauer, 1847 – Łomnicki 1880: - *albomarginatus* Mark.; Proiect ... 2021.

426. *Cantharis pellucida* Fabricius, 1792 – Łomnicki 1880; Proiect ... 2021.

427. *Cantharis rustica* Fallen, 1807 – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

428. *Malthodes flavoguttatus* Kiesenwetter, 1852 – Łomnicki 1880; 1886; Proiect ... 2021; Turys 2022.

429. *Podabrus alpinus* (Paykull, 1798) – Łomnicki 1880; 1886; Proiect ... 2021; iNaturalist.

430. *Podistra pilosa* (Paykull, 1798) – Turys, 2022.

431. *Podistra prolixa* (Maerkel in Kiesenwetter 1852) – Łomnicki 1886; Turys 2022.

432. *Podistra ruforestacea* (Letzner 1845) – Turys 2022.

433. *Podistra schoenherri* (Dejean, 1837) – Łomnicki 1880: - *pilosus* Payz.; Proiect ... 2021.

434. *Rhagonycha atra* (Linnaeus 1767) – Turys 2022.

435. *Rhagonycha fulva* (Scopoli, 1763) – Łomnicki 1880; iNaturalist.

436. *Rhagonycha nigripes* Redtenbacher, 1842 – Łomnicki 1880: - *fugax v. nigripes* Redt.; Turys 2022.

437. *Rhagonycha testacea* (Linnaeus, 1758) – Łomnicki 1880.

Family **Hydrophilidae**

438. *Hydrobius fuscipes* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

Family **Lucanidae**

439. (!) *Ceruchus chrysomelinus* (Hochenwarth, 1785) – Geryak, Khalaim (unpublished data). Listed in the Red Book of the Ukrainian Carpathians (2011).

440. *Dorcus parallelipipedus* (Linnaeus, 1785) – iNaturalist.

441. *Platycerus caraboides* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Geotrupidae**

442. *Geotrupes stercorarius* Linnaeus, 1758 – Kanarsky, Fufalko (unpublished data).

443. *Anoplotrupes stercorosus* (Scriba, 1791) – Geryak et al. 2025; iNaturalist; UkrBIN.

Family **Scarabaeidae**

444. *Aphodius alpinus* Scopoli, 1763 – Łomnicki 1880; Proiect ... 2021.

445. *Protaetia* (*Potosia*) *metallica* (Herbst, 1782) – Łomnicki 1880; 1886: *Cetonia floricola* Hbst; Proiect ... 2021: *Cetonia floricola* Hbst; Geryak, Khalaim (unpublished data).

446. *Cetonia aurata* Linnaeus, 1758 – iNaturalist; Geryak, Khalaim (unpublished data).

447. *Oxythyrea funesta* (Poda, 1761) – iNaturalist.

448. *Melolontha hippocastani* Fabricius, 1801 – Łomnicki 1880.

449. *Melolontha melolontha* (Linnaeus, 1761) – Łomnicki 1880: - *vulgaris* F.; Proiect ... 2021: - *vulgaris* F.; Geryak, Khalaim (unpublished data).

450. *Oryctes nasicornis* Linnaeus, 1746 – iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data).

451. *Phyllopertha horticola* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

452. *Trichius fasciatus* (Linnaeus, 1758) – Łomnicki 1880; Sirenko et al. 2002; Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

453. *Amphimallon solstitiale* (Linnaeus, 1758) – Geryak et al. 2025.

454. *Serica brunnea* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Staphylinidae**

455. *Aleochara curtula* (Goeze, 1777) – Geryak et al. 2025.

456. *Aleochara cuniculorum* Kraatz, 1858 – Glotov, Kanarsky (unpublished data).

457. *Aleochara lanuginosa* Gravenhorst, 1802 – Glotov, Kanarsky (unpublished data).

458. *Aleochara sparsa* Heer, 1839 – Glotov, Kanarsky (unpublished data).

459. *Amischa analis* (Gravenhorst, 1802) – Geryak et al. 2025.

460. *Atheta crassicornis* (Fabricius, 1792) – Glotov, Kanarsky (unpublished data).

461. *Atheta gagatina* (Baudi di Selve, 1848) – Łomnicki 1880; Proiect ... 2021; " Biodiversity of Ukraine".

462. *Atheta sodalis* (Erichson, 1837) – Glotov, Kanarsky (unpublished data).

463. *Plataraea brunnea* (Fabricius, 1798) – Glotov, Kanarsky (unpublished data).

464. *Mocyta fungi* (Gravenhorst, 1806) – Geryak et al. 2025.

465. *Leptusa pulchella* (Mannerheim, 1830) – Glotov, Kanarsky (unpublished data).

466. *Bolitochara pulchra* (Gravenhorst, 1806) – Geryak et al. 2025.

467. *Gyrophaena affinis* Mannerheim, 1830 – Glotov, Kanarsky (unpublished data).

468. *Gyrophaena boleti* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

469. *Gyrophaena* (*Gyrophaena*) *joyi* Wendeler, 1924 – Glotov, Kanarsky (unpublished data).

470. *Gyrophaena joyioides* Wusthoff 1937 – Glotov, Kanarsky (unpublished data).

471. *Gyrophaena gentilis* Erichson, 1839 – Glotov, Kanarsky (unpublished data).

472. *Gyrophaena minima* Erichson, 1837 – Glotov, Kanarsky (unpublished data).

473. *Gyrophaena pulchella* Heer, 1839 – Glotov, Kanarsky (unpublished data).

474. *Alevonota hepatica* (Erichson, 1839) – Glotov, Kanarsky (unpublished data).

475. *Anomognathus cuspidatus* (Erichson, 1839) – Glotov, Kanarsky (unpublished data).

476. *Ilyobates mech* (Baudi di Selve, 1848) – Geryak et al. 2025.

477. *Ilyobates nigricollis* (Paykull, 1800**)** – Glotov, Kanarsky (unpublished data).

478. *Liogluta microptera* Thomson, 1867 – Geryak et al. 2025.

479. *Pella limbata* (Paykull, 1789) – Geryak et al. 2025.

480. *Haploglossa villosula* (Stephens, 1832) – Glotov, Kanarsky (unpublished data).

481. *Oxypoda alternans* (Gravenhorst, 1802) – Glotov, Kanarsky (unpublished data).

482. *Bolitobius castaneus* (Stephens, 1832) – Geryak et al. 2025.

483. *Lordithon exoletus* (Erichson, 1839)– Glotov, Kanarsky (unpublished data).

484. *Lordithon lunulatus* (Linnaeus, 1760) – Geryak et al. 2025.

485. *Lordithon trimaculatus* (Paykull, 1800) – Glotov, Kanarsky (unpublished data).

486. *Lordithon trinotatus* (Erichson, 1839) – Glotov, Kanarsky (unpublished data).

487. *Mycetoporus longulus* Mannerheim, 1830 – Glotov, Kanarsky (unpublished data).

488. *Mycetoporus niger* Fairmaire & Laboulbène, 1856 – Glotov, Kanarsky (unpublished data).

489. *Parabolitobius inclinans* (Gravenhorst, 1806) – Glotov, Kanarsky (unpublished data).

490. *Amphichroum canaliculatum* (Erichson, 1840) – Łomnicki 1880; Proiect ... 2021; Glotov, Kanarsky (unpublished data).

491. *Acrulia inflata* (Gyllenhal, 1813) – Glotov, Kanarsky (unpublished data).

492. *Anthobium anale* Erichson, 1840 – Łomnicki 1880; Proiect ... 2021.

493. *Anthobium atrocephalum* (Gyllenhal, 1827) – Glotov, Kanarsky (unpublished data).

494. *Anthobium longipenne* Erichson, 1839 – Łomnicki 1880; Proiect ... 2021.

495. *Anthobium ophthalmicum* (Paykull, 1800) – Łomnicki 1880; Proiect ... 2021.

496. *Anthophagus austriacus* Erichson, 1840 – Łomnicki 1880; Proiect ... 2021.

497. *Eusphalerum minutum* (Fabricius, 1792) – Łomnicki 1880; Proiect ... 2021.

498. *Eusphalerum sorbi* (Gyllenhal, 1810) – Łomnicki 1880; Proiect ... 2021.

499. *Lesteva longoelytrata* (Goeze, 1777) – Glotov, Kanarsky (unpublished data).

500. *Omalium rivulare* (Paykull, 1789) – Geryak et al. 2025.

501. *Phloeonomus punctipennis* Thomson, 1867 – Glotov, Kanarsky (unpublished data).

502. *Oxyporus rufus* (Linnaeus, 1758) – Geryak et al. 2025.

503. *Oxyporus maxillosus* Fabricius, 1793 – Glotov, Kanarsky (unpublished data).

504. *Coprophilus striatulus* (Fabricius, 1793) – Glotov, Kanarsky (unpublished data).

505. *Anotylus mutator* (Lohse, 1963) – Geryak et al. 2025.

506. *Deleaster dichrous* (Gravenhorst, 1802) – Geryak et al. 2025.

507. *Syntomium aeneum* (P. Müller, 1821) – Glotov, Kanarsky (unpublished data).

508. *Lathrobium elongatum* (Linnaeus, 1767) – Łomnicki 1880; Proiect ... 2021.

509. *Rugilus rufipes* (Germar, 1836) – Geryak et al. 2025.

510. *Megarthrus depressus* (Paykull, 1789) – Glotov, Kanarsky (unpublished data).

511. *Proteinus brachypterus* (Fabricius, 1792) – Glotov, Kanarsky (unpublished data).

512. *Bibloporus minutus* Raffray, 1915 – Glotov, Kanarsky (unpublished data).

513. *Bryaxis reitteri* (Saulcy, 1875) – Krivosheiev 2015.

514. *Bryaxis frivaldskyi* (Reitter, 1887) – Glotov, Kanarsky (unpublished data).

515. *Trimium brevicorne* (Reichenbach, 1816) – Krivosheiev 2015.

516. *Trimium latiusculum* Reitter, 1879 – Krivosheiev 2015.

517. *Scaphidium quadrimaculatum* Olivier, 1790 – Geryak et al. 2025.

518. *Scaphisoma agaricinum* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; Glotov, Kanarsky (unpublished data).

519. *Nicrophorus humator* (Gleditsch 1767) – Geryak et al. 2025.

520. *Nicrophorus vespilloides* Herbst, 1783 – Geryak et al. 2025.

521. *Necrodes littoralis* (Linnaeus, 1758) – Geryak et al. 2025.

522. *Oiceoptoma thoracicum* (Linnaeus, 1758) – Glotov, Kanarsky (unpublished data).

523. *Phosphuga atrata* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

524. *Silpha carinata* Herbst, 1783 – Geryak et al. 2025.

525. *Silpha tyrolensis* Laicharting, 1781 – Łomnicki 1880.

526. *Bisnius fimetarius* (Gravenhorst, 1802) – Glotov, Kanarsky (unpublished data).

527. *Philonthus addendus* Sharp, 1867 – Glotov, Kanarsky (unpublished data).

528. *Philonthus cyanipennis* (Fabricius, 1793) – Geryak et al. 2025.

529. *Philonthus decorus* (Gravenhorst, 1802) – Geryak et al. 2025.

530. *Philonthus politus* (Linnaeus, 1758) – Glotov, Kanarsky (unpublished data).

531. *Philonthus splendidulus* (Gravenhorst, 1802) – Łomnicki 1880; Proiect ... 2021.

532. *Philonthus succicola* Thomson, 1860 – Glotov, Kanarsky (unpublished data).

533. *Gabrius breviventer* (Sperk, 1835) – Glotov, Kanarsky (unpublished data).

534. *Creophilus maxillosus* (Linnaeus, 1758) – Geryak et al. 2025.

535. *Ocypus macrocephalus* (Gravenhorst, 1802) – Łomnicki 1880; Proiect ... 2021; Glotov, Kanarsky (unpublished data).

536. *Ocypus nitens* (Schrank, 1781) – Geryak et al. 2025.

537. *Platydracus fulvipes* (Scopoli, 1763) – Geryak et al. 2025.

538. *Quedius collaris* Erichson, 1840 – Łomnicki 1880; Proiect ... 2021.

539. *Quedius fumatus* (Stephens, 1833) – Glotov, Kanarsky (unpublished data).

540. *Quedius levicollis* (Brullé, 1832) – Glotov, Kanarsky (unpublished data).

541. *Quedius mesomelinus* (Marsham, 1802) – Glotov, Kanarsky (unpublished data).

542. *Quedius paradisianus* (Heer, 1839) – Glotov, Kanarsky (unpublished data).

543. *Quedius xanthopus* Erichson, 1839 – Łomnicki 1880; Proiect ... 2021.

544. *Quedionuchus glaber* (O.F.Müller, 1776) – Łomnicki 1880: - *laevigatus* Gyll.

545. *Quedionuchus plagiatus* (Mannerheim, 1843) – Glotov, Kanarsky (unpublished data).

546. *Stenus flavipes* Stephens, 1833 – Łomnicki 1880; Proiect ... 2021.

547. *Stenus morio* Gravenhorst, 1806 – Łomnicki 1880; Proiect ... 2021.

548. *Stenus providus* Erichson, 1839 – Łomnicki 1880; Proiect ... 2021.

549. *Sepedophilus immaculatus* (Stephens, 1832) – Glotov, Kanarsky (unpublished data).

550. *Sepedophilus littoreus* (Linnaeus, 1758) – Glotov, Kanarsky (unpublished data).

551. *Sepedophilus marshami* (Stephens, 1832) – Glotov, Kanarsky (unpublished data).

552. *Sepedophilus testaceus* (Fabricius, 1792) – Glotov, Kanarsky (unpublished data).

553. *Tachinus humeralis* Gravenhorst, 1802 – Glotov, Kanarsky (unpublished data).

554. *Tachinus lignorum* (Linnaeus, 1758) – Glotov, Kanarsky (unpublished data).

555. *Tachinus pallipes* (Gravenhorst, 1806) – Glotov, Kanarsky (unpublished data).

556. *Tachinus rufipes* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; Glotov, Kanarsky (unpublished data).

557. *Tachyporus chrysomelinus* (Linnaeus, 1758) – Glotov, Kanarsky (unpublished data).

558. *Tachyporus dispar* (Paykull, 1789) – Glotov, Kanarsky (unpublished data).

559. *Tachyporus nitidulus* (Fabricius, 1781) – Glotov, Kanarsky (unpublished data).

560. *Atrecus affinis* (Paykull, 1789) – Glotov, Kanarsky (unpublished data).

561. *Atrecus pilicornis* (Paykull, 1790) – Łomnicki 1880; Glotov, Kanarsky (unpublished data).

562. Gauropterus fulgidus (Fabricius, 1787) – Glotov, Kanarsky (unpublished data).

563. *Nudobius lentus* Gravenhorst, 1806 – Łomnicki 1880; Proiect ... 2021.

564. *Othius melanocephalus* (Gravenhorst, 1806) – Łomnicki 1880; Proiect ... 2021.

Family **Byturidae**

565. *Byturus ochraceus* (Scriba, 1790) – Łomnicki 1880: - *sambuci* Scop.; Proiect ... 2021; Geryak, Khalaim (unpublished data).

Family **Trogossitidae**

566. (!) *Peltis grossa* (Linnaeus, 1758) – Łomnicki 1880; 1886; Proiect ... 2021. Listed in the Red Book of the Ukrainian Carpathians (2011).

Family **Melyridae**

567. *Malachius marginellus* Olivier, 1790 – Łomnicki 1880; Proiect ... 2021.

568. *Dasytes fusculus* (Illiger, 1801) – Łomnicki 1880; Proiect ... 2021.

Family **Cleridae**

569. *Thanasimus formicarius* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

570. *Trichodes apiarius* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine".

Family **Lymexylidae**

571. *Hylecoetus dermestoides* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Mordellidae**

572. *Mordella aculeata* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

573. *Mordellochroa abdominalis* (Fabricius, 1775) – Łomnicki 1880; Proiect ... 2021.

Family **Scraptiidae**

574. *Anaspis frontalis* (Linnaeus, 1758) – Łomnicki 1880.

575. *Anaspis rufilabris* (Gyllenhal, 1827) – Łomnicki 1880.

Family **Oedemeridae**

576. *Chrysanthia viridis* Schmidt, 1846 – Łomnicki 1880; Proiect ... 2021.

577. *Oedemera virescens* Linnaeus, 1767 – Łomnicki 1880; Proiect ... 2021.

Family **Pythidae**

578. *Pytho depressus* (Linnaeus, 1767) – iNaturalist.

Family **Pyrochroidae**

579. *Pyrochroa coccinea* (Linnaeus, 1760) – iNaturalist.

Family **Tenebrionidae**

580. *Lagria hirta* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

581. *Mycetochara flavipes* Fabricius, 1792 – Łomnicki 1880; Proiect ... 2021.

582. *Diaperis boleti* (Linnaeus, 1758) – Geryak et al. 2025.

583. *Tenebrio obscurus* Fabricius, 1792 – Geryak et al. 2025.

Family **Latridiidae**

584. *Stephostethus angusticollis* (Gyllenhal, 1827) – Łomnicki 1880; Proiect ... 2021.

Family **Coccinellidae**

585. *Calvia decemguttata* (Linnaeus, 1767) – iNaturalist.

586. *Calvia quatuordecimguttata* (Linnaeus, 1758) – Łomnicki 1880.

587. *Ceratomegilla notata* (Laicharting, 1781) – iNaturalist.

588. *Chilocorus renipustulatus* Scriba, 1791 – Łomnicki 1880: - *similis* Roni.; Proiect ... 2021.

589. *Coccinella septempunctata* Linnaeus, 1758 – Łomnicki 1880; Geryak et al. 2025.

590. *Harmonia axyridis* Pallas, 1773 – Proiect ... 2021; Kyzym, Zamoroka 2024; Geryak, Khalaim (unpublished data).

591. *Propylaea quatuordecimpunctata* (Linnaeus, 1758) – Łomnicki 1880.

Family **Monotomidae**

592. *Rhizophagus dispar* (Paykull, 1800) – Łomnicki 1880; Proiect ... 2021.

Family **Nitidulidae**

593. *Cychramus luteus* (Fabricius, 1787) – Łomnicki 1880; 1886: - *fungicola* Heer., - *alutaceus* Reitt.; Proiect ... 2021.

594. *Cychramus variegatus* (Herbst, 1792) – Łomnicki 1880: - *4-punctatus* Hbst.

595. *Epuarae deleta* Sturm, 1844 – Łomnicki 1880; 1886; Proiect ... 2021.

596. *Epuraea aestiva* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

597. *Epuraea florea* Erichson, 1845 – Łomnicki 1880; Proiect ... 2021.

598. *Epuraea melina* Erichson, 1843 – Łomnicki 1880; Proiect ... 2021.

599. *Meligethes denticulatus* (Heer, 1841) – Łomnicki 1880: - *hebes* Er.; Proiect ... 2021.

600. *Meligethes viridescens* (Fabricius, 1787) – Łomnicki 1880; Proiect ... 2021.

Family **Cryptophagidae**

601. *Micrambe abietis* (Paykull, 1798) – Łomnicki 1880; Proiect ... 2021.

Family **Cucujidae**

602. *Heterhelus solani* (Heer, 1841) – Łomnicki 1880; Proiect ... 2021.

Family **Attelabidae**

603. *Mecorhis (Pseudomechoris) aethiops* (Bach, 1854) – Łomnicki 1880: - *planirostris* Gyll.

604. *Temnocerus nanus* (Paykull, 1792) – Łomnicki 1880; Proiect ... 2021.

Family **Curculionidae**

605. *Eusomus ovulum* Germar, 1823 – Łomnicki 1880.

606. *Otiorrhynchus dives* Germar, 1839 – Łomnicki 1880; Proiect ... 2021.

607. *Otiorrhynchus fuscipes* (Olivier, 1807) – Łomnicki 1880; Proiect ... 2021.

608. *Otiorhynchus kollari* Gyllenhal, 1834 – Łomnicki 1880.

609. *Otiorrhynchus krattereri* Boheman, 1842 – Łomnicki 1880; 1886; Kizub, Leshchenko 2020; Proiect ... 2021.

610. *Otiorrhynchus lepidopterus* (Fabricius, 1794) – Łomnicki 1880; 1886; Proiect ... 2021.

611. *Otiorrhynchus morio* (Fabricius, 1781) – Łomnicki 1880; 1886; Proiect ... 2021; "Biodiversity of Ukraine".

612. *Otiorrhynchus multipunctatus* (Fabricius, 1792) – Łomnicki 1880; Proiect ... 2021.

613. *Otiorrhynchus niger* (Fabricius, 1775) – Łomnicki 1880; Proiect ... 2021.

614. *Otiorrhynchus nodosus* (Müller, 1764) – Łomnicki 1880: - *maurus* Gyll.; Proiect ... 2021.

615. *Otiorhynchus obsidianus* Boheman, 1842 – Łomnicki, 1886.

616. *Otiorrhynchus ovatus* (Linnaeus, 1758) – Łomnicki 1880.

617. *Otiorrhynchus repletus* Boheman, 1843 – Łomnicki 1880; Proiect ... 2021.

618. *Otiorrhynchus schaumii* Stierlin, 1861 – Łomnicki 1880; 1886; Proiect ... 2021.

619. *Otiorrhynchus septentrionis* W.G.Stierlin, 1861 – Łomnicki 1880; Proiect ... 2021.

620. *Phyllobius argentatus* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

621. *Phyllobius glaucus* (Scopoli, 1763) – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

622. *Polydrosus fasciatus* Stierl, 1891 – Łomnicki 1880.

623. *Polydrosus flavipes* Schoenherr, 1826 – Łomnicki 1880.

624. *Polydrosus tereticollis* Bedel, 1883 – Łomnicki 1880.

625. *Polydrusus amoenus* (Germar, 1823) – iNaturalist.

626. *Polydrusus cervinus* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

627. *Hylobius piceus* Geer, 1775 – Łomnicki 1880; Proiect ... 2021.

628. *Liparus glabrirostris* Küster, 1849 – Łomnicki 1880: - *carinaerostris* Gyll.; iNaturalist; Geryak, Khalaim (unpublished data).

629. *Plinthus sturmii* Germar, 1819 – Łomnicki, 1886.

630. *Plinthus tischeri* Germar, 1824 – Łomnicki 1880; 1886.

631. *Cryptorhynchus lapathi* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

632. *Anthonomus phyllocola* (Herbst, 1795) – Łomnicki, 1886: - *varians* Payk.

633. *Anthonomus pinivorax* Silfverberg, 1977 – Łomnicki 1880: - *pubescens* Payk.

634. *Anthonomus rubi* Herbst, 1795 – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

635. *Elleschus bipunctatus* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

636. *Orchestes fagi* (Linnaeus, 1758) – Łomnicki 1880; 1886.

637. *Orchestes testaceus* (Müller, 1766) – Łomnicki 1880; Proiect ... 2021.

638. *Tachyerges stigma* (Germar, 1821) – Łomnicki 1880; Proiect ... 2021.

639. *Crypturgus pusillus* (L.Gyllenhal, 1813) – Łomnicki 1880; 1886.

640. *Dryocoetes autographus* Ratzeburg, 1837 – Łomnicki 1880; 1886; Proiect ... 2021.

641. *Hylurgops palliatus* (Gyllenhal, 1813) – Łomnicki 1880; 1886.

642. *Ips typographus* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

643. *Orthotomicus laricis* (Fabricius, 1792) – Łomnicki 1880; 1886; Proiect ... 2021.

644. *Pityogenes chalcographus* (Linnaeus, 1761) – Łomnicki 1880; 1886; Proiect ... 2021.

645. *Pityokteines curvidens* (Germar, 1823) – Łomnicki 1880.

646. *Taphrorychus bicolor* **(**Herbst, 1793) – Łomnicki 1880; 1886; Proiect ... 2021.

Family **Cerambycidae**

647. *Prionus coriarius* Linnaeus, 1758 – Zamoroka 2018; Proiect ... 2021; "Biodiversity of Ukraine".

648. *Pronocera angusta* Kriechbaum, 1844 – Zamoroka 2018; Proiect ... 2021; "Biodiversity of Ukraine".

649. *Callidium violaceum* (Linnaeus, 1758) – Zamoroka 2024.

650. *Obrium brunneum* Fabricius, 1792 – Zamoroka 2018; Proiect ... 2021.

651. *Molorchus minor* Linnaeus, 1758 – Zamoroka 2018; Proiect ... 2021; "Biodiversity of Ukraine".

652. *Cyrtoclytus capra* Germar, 1824 – Zamoroka 2018; Proiect ... 2021; "Biodiversity of Ukraine".

653. *Clytus arietis* (Linnaeus, 1758) – Zamoroka 2024.

654. *Clytus lama* Mulsant, 1863 – Zamoroka 2024; iNaturalist; Kanarsky (unpublished data).

655. *Rhagium inquisitor* (Linnaeus, 1758) – Zamoroka 2024; "Biodiversity of Ukraine"; iNaturalist.

656. *Rhagium mordax* De Geer, 1775 – Pushkar et al. 2006; Proiect ... 2021.

657. *Pachyta quadrimaculata* Linnaeus, 1758 – Łomnicki 1880: *Anthophylax 4-macidatus* L.; Łomnicki, 1886; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist; Geryak, Khalaim (unpublished data).

658. *Oxymirus cursor* Linnaeus, 1758 – Zamoroka 2018; Proiect ... 2021; Geryak, Khalaim (unpublished data).

659. *Evodinellus clathratus* Fabricius, 1792 – Pushkar et al. 2006; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

660. *Pidonia lurida* Fabricius, 1792 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

661. *Dinoptera collaris* Linnaeus, 1758 – Pushkar et al., 2006; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

662. *Carilia virginea* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; UkrBIN; "Biodiversity of Ukraine"; Geryak, Kanarsky, Khalaim (unpublished data).

663. *Pseudovadonia livida* (Fabricius, 1776) – Kanarsky (unpublished data).

664. *Allosterna tabacicolor* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; Kanarsky (unpublished data).

665. *Judolia cerambyciformis* Schrank, 1781 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data).

666. *Judolia sexmaculata* Linnaeus, 1758 – Zamoroka 2018; Proiect ... 2021; "Biodiversity of Ukraine".

667. *Stenurella melanura* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

668. *Nivellia sanguinosa* Gyllenhal, 1827 – Zamoroka 2018; Proiect ... 2021; "Biodiversity of Ukraine".

669. *Lepturobosca virens* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; iNaturalist; "Biodiversity of Ukraine"; Geryak, Kanarsky, Khalaim (unpublished data).

670. *Stictoleptura maculicornis* De Geer, 1775 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine".

671. *Stictoleptura rubra* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; iNaturalist; "Biodiversity of Ukraine"; Geryak, Kanarsky, Khalaim (unpublished data).

672. *Stictoleptura scutellata* (Fabricius, 1781) – Zamoroka 2024.

673. *Anastrangalia dubia* Heyden, 1885 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; Kanarsky (unpublished data).

674. *Anastrangalia sanguinolenta* Linnaeus, 1758 – Pushkar et al. 2006; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

675. *Leptura annularis* Fabricius, 1801 – Pushkar et al. 2006; Proiect ... 2021; "Biodiversity of Ukraine"; Kanarsky (unpublished data).

676. *Leptura quadrifasciata* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

677. *Necydalis ulmi* (Chevrolat, 1838) – Łomnicki, 1886: *Panzeri* Harold, (*abbreviata* Panz.).

678. *Tetropium castaneum* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

679. *Tetropium fuscum* Fabricius, 1787 – Pushkar et al. 2006; Proiect ... 2021; "Biodiversity of Ukraine".

680. *Asemum striatum* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine".

681. *Monochamus sartor* Fabricius, 1787 – Łomnicki 1880; Proiect ... 2021; "Biodiversity of Ukraine"; iNaturalist.

682. *Monochamus sutor* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

683. *Acanthocinus griseus* (Fabricius, 1793) – Zamoroka 2024.

684. *Saperda scalaris* (Linnaeus, 1758) – Zamoroka 2024.

Family **Orsodacnidae**

685. *Orsodacne cerasi* (Linnaeus, 1758) – iNaturalist.

Family **Chrysomelidae**

686. *Plateumaris discolor* (Panzer, 1795) – Łomnicki 1880.

687. *Plateumaris sericea* (Linnaeus, 1761) – Sirenko et al. 2002.

688. *Cryptocephalus quadripustulatus* Gyllenhal, 1813 – Łomnicki 1880.

689. *Cryptocephalus sexpunctatus* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021.

690. *Cryptocephalus sp.* (*sericeus* (Linnaeus, 1758) complex) – iNaturalist.

691. *Cryptocephalus sp.* – Bureiko, Zamoroka 2024.

692. *Clytra laeviuscula* Ratzeburg, 1837 – Bureiko, Zamoroka 2024.

693. *Labidostomis longimana* (Linnaeus, 1761) – Łomnicki 1880.

694. *Pachybrachis sinuatus* Mulsant & Rey, 1857 – Łomnicki 1880: - *haliciensis* Mill.; Proiect ... 2021: - *haliciensis* Mill.

695. *Smaragdina salicina* (Scopoli, 1763) – Łomnicki 1880.

696. *Cassida viridis* Linnaeus, 1758 – iNaturalist.

697. *Chrysolina marcasitica* Germar, 1824 – Łomnicki 1880; Proiect ... 2021.

698. *Chrysolina polita* (Linnaeus, 1758) – iNaturalist.

699. *Chrysolina purpurascens* (Germar, 1822) – iNaturalist.

700. *Chrysolina umbratilis* (Weise, 1887) – Łomnicki 1880; 1886: - *olivacea* Suffr.

701. *Chrysolina varians* (Schaller, 1783) – Łomnicki 1880.

702. *Chrysomela gloriosa* Fabricius, 1781 – Łomnicki 1880; Proiect ... 2021.

703. *Chrysomela olivacea* Suffrian, 1851 – Łomnicki 1880; Proiect ... 2021.

704. *Chrysomela populi* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

705. *Chrysomela tremula* Fabricius, 1787 – Łomnicki 1880; Proiect ... 2021.

706. *Gastrophysa viridula* De Geer, 1775 – Łomnicki 1880: - *raphani* F.; Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

707. *Gonioctena quinquepunctata* (Fabricius, 1787) – Łomnicki 1880.

708. *Gonioctena viminalis* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021.

709. *Leptinotarsa decemlineata* Say, 1824– iNaturalist; Geryak, Fufalko, Khalaim (unpublished data).

710. *Oreina alpestris* (Schummel, 1844) – Łomnicki, 1886: *intricata* Germ. var. *alpestris* Schumm.; Bureiko, Zamoroka 2024; iNaturalist.

711. *Oreina cacaliae* (Schrank, 1785) – Łomnicki 1880: - *senecionis* Schumm.; Proiect ... 2021; Geryak, Fufalko, Khalaim (unpublished data).

712. *Oreina gloriosa* (Fabricius, 1781) – Łomnicki 1880; 1886.

713. *Oreina intricata* (Germar, 1824) – Łomnicki 1880; 1886; Proiect ... 2021.

714. *Oreina speciosissima* Scopoli, 1763 – Łomnicki 1880; Proiect ... 2021.

715. *Plagiodera versicolora* (Laicharting, 1781) – Łomnicki 1880: - *armoraciae* F.; Proiect ... 2021.

716. *Plagiosterna aenea* (Linnaeus, 1758) – Łomnicki 1880; Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

717. *Sclerophaedon carniolicus* (Germar, 1824) – Łomnicki 1880; Proiect ... 2021.

718. *Timarcha metallica* (Laicharting, 1781) – iNaturalist.

719. *Lilioceris merdigera* (Linnaeus, 1758) – iNaturalist.

720. *Galeruca tanaceti* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; Geryak, Khalaim (unpublished data).

721. *Lochmaea caprea* Linnaeus, 1758 – Łomnicki 1880; Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

722. *Luperus flavipes* Linnaeus, 1767 – Łomnicki 1880; Proiect ... 2021.

723. *Neocrepidodera ferruginea* Scopoli, 1763 – Łomnicki 1880; Proiect ... 2021.

ORDER NEUROPTERA

Family **Hemerobiidae**

724. *Drepanepteryx phalaenoides* (Linnaeus, 1758) – Geryak et al. 2025.

725. *Hemerobius* sp. – Geryak et al. 2025.

Family **Osmylidae**

726. *Osmylus fulvicephalus* (Scopoli, 1763) – Geryak et al. 2025.

Family **Chrysopidae**

727. *Chrysopa perla* (Linnaeus, 1758) – Serediuk 2016; Proiect ... 2021; "Biodiversity of Ukraine".

728. *Chrysopa* sp. – Geryak et al. 2025.

729. *Peyerimhoffina gracilis* (Schneider, 1851) – Proiect ... 2021.

ORDER **TRICHOPTERA**

Family **Limnephilidae**

730. *Limnephilus* sp. – Geryak et al. 2025.

Family **Hydropsychidae**

731. *Hydropsyche* sp. – Geryak et al. 2025.

Family **Rhyacophilidae**

732. *Rhyacophila* sp. – Geryak et al. 2025.

Family **Odontoceridae**

733. *Odontocerum albicorne* (Scopoli, 1763) – iNaturalist.

ORDER **LEPIDOPTERA**

Family **Micropterygidae**

734. *Micropterix aureatella* (Scopoli, 1763) – Geryak et al. 2025.

Family **Hepialidae**

735. *Phymatopus hecta* (Linnaeus, 1758) – Geryak et al. 2025.

736. *Hepialus humuli* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Prodoxidae**

737. *Lampronia corticella* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Incurvariidae**

738. *Incurvaria praelatella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

Family **Adelidae**

739. *Adela violella* ([Denis & Schiffermüller], 1775) – iNaturalist.

740. *Nemophora degeerella* (Linnaeus, 1758) – Geryak et al. 2025.

741. *Nemophora pfeifferella* (Hübner, [1813]) – iNaturalist.

742. *Nematopogon robertella* (Clerck, 1759) – Geryak et al. 2025.

743. *Nematopogon sp.* cf. *schwarziellus* Zeller, 1839 – Geryak et al. 2025; Geryak, Khalaim (unpublished data).

Family **Tineidae**

744. *Nemapogon granella* (Lannaeus, 1758) – Geryak et al. 2025.

Family **Plutellidae**

745. *Eidophasia messingiella* (Fischer von Röslerstamm, 1839) – Geryak et al. 2025.

746. *Plutella xylostella* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Pterophoridae**

747. *Buszkoiana capnodactylus* (Zeller, 1841) – Geryak et al. 2025.

748. *Merrifieldia sp.* cf. *leucodactyla* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

749. *Gillmeria pallidactyla* (Haworth, 1811) – Geryak et al. 2025.

750. *Hellinsia osteodactylus* (Zeller, 1841) – Geryak et al. 2025.

Family **Tortricidae**

751. *Aethes cnicana* (Westwood, 1854) – Geryak et al. 2025.

752. *Archips oporana* (Linnaeus, 1758) – Geryak et al. 2025.

753. *Archips podana* (Scopoli, 1763) – Geryak et al. 2025.

754. *Clepsis rogana* (Guenée, 1845) – Geryak et al. 2025.

755. *Eana argentana* (Clerck, 1759) – iNaturalist.

756. *Eulia ministrana* (Linnaeus, 1758) – Geryak et al. 2025.

757. *Pandemis cerasana* (Hübner, 1823) – Geryak et al. 2025.

758. *Pandemis corylana* (Fabricius, 1794) – Geryak et al. 2025.

759. *Pandemis dumetana* (Treitschke, 1835) – Geryak et al. 2025.

760. *Pandemis heparana* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

761. *Zelotherses unitana* (Hübner, [1799]) – Geryak et al. 2025.

762. *Ancylis unguicella* (Linnaeus, 1758) – Geryak et al. 2025.

763. *Aterpia corticana* ([Denis & Schiffermüller], 1775) – iNaturalist; Geryak et al. 2025.

764. *Celypha lacunana* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025; iNaturalist.

765. *Celypha rivulana* (Scopoli, 1763) – Geryak et al. 2025.

766. *Cydia coniferana* (Saxesen, 1840) – Geryak et al. 2025.

767. *Cydia fagiglandana* (Zeller, 1841) – Geryak et al. 2025.

768. *Cydia pomonella* (Linnaeus, 1758) – Geryak et al. 2025.

769. *Epinotia tedella* (Clerck, 1759) – iNaturalist; Geryak, Khalaim (unpublished data).

770. *Eucosma cana* (Haworth, 1811) – Geryak et al. 2025.

771. *Gypsonoma sociana* (Haworth, 1811) – Geryak et al. 2025.

772. *Hedya nubiferana* (Haworth, [1811]) – Geryak et al. 2025.

773. *Lathronympha strigana* (Fabricius, 1775) – Geryak et al. 2025.

774. *Notocelia roborana* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

775. *Orthotaenia undulana* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

776. *Pammene regiana* (Zeller, 1849) – Geryak et al. 2025.

777. *Pseudohermenias abietana* (Fabricius, 1787) – Geryak et al. 2025.

Family **Oecophoridae**

778. *Denisia stipella* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Gelechiidae**

779. *Acompsia cinerella* (Clerck, 1759) – Geryak et al. 2025.

780. *Acompsia tripunctella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

781. *Aproaerema* sp. – Geryak et al. 2025.

782. *Isophrictis* sp. – Geryak et al. 2025.

Family **Coleophoridae**

783. *Coleophora* sp. – Geryak et al. 2025.

Family **Zygaenidae**

784. *Adscita statices* (Linnaeus, 1758) – Geryak et al. 2025.

785. *Zygaena purpuralis* (Linnaeus, 1758) – Kanarsky (unpublished data).

786. *Zygaena filipendulae* (Linnaeus,1758) – Geryak et al. 2025.

Family **Cossidae**

787. *Cossus cossus* (Linnaeus, 1758) – Proiect ... 2021.

788. *Zeuzera pyrina* (Linnaeus, 1761) – Geryak et al. 2025.

Family**– Sesiidae**

789. *Synanthedon spheciformis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

Family **Papilionidae**

790. (!) *Papilio machaon* Linnaeus, 1758 – Popov, Pliushch 2004; Zamoroka et al. 2017; Proiect ... 2021; "Biodiversity of Ukraine"; Kanarsky (unpublished data). Listed in the Red Book of the Ukrainian Carpathians (2011).

Family **Hesperiidae**

791. *Erynnis tages* (Linnaeus, 1758) – Proiect ... 2021.

792. *Pyrgus malvae* (Linnaeus, 1758) – Geryak et al. 2025.

793. *Carterocephalus palaemon* (Pallas, 1771) – Geryak et al. 2025.

794. *Thymelicus lineola* (Ochsenheimer, 1808) – Proiect ... 2021.

795. *Ochlodes sylvanus* (Esper, 1777) – Proiect ... 2021: - *faunus* (Turati, 1906); Geryak, Khalaim (unpublished data).

Family **Pieridae**

796. *Leptidea juvernica* Williams, 1946 – Geryak et al. 2025.

797. *Leptidea sinapis* (Linnaeus, 1758) – Proiect ... 2021.

798. *Gonepteryx rhamni* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

799. *Colias hyale* (Linnaeus, 1758) – Proiect ... 2021.

800. *Colias crocea* Geoffroy, 1785 – Kanarsky (unpublished data).

801. *Aporia crataegi* (Linnaeus, 1758) – Geryak et al. 2025.

802. *Pontia edusa* (Fabricius, 1777) – Popov, Pliushch 2004.

803. *Pieris brassicae* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; Geryak, Khalaim (unpublished data).

804. *Pieris rapae* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; Geryak, Khalaim (unpublished data).

805. *Pieris napi* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

806. *Anthocharis cardamines* (Linnaeus, 1758) – Proiect ... 2021; iNaturalist; Geryak, Khalaim (unpublished data).

Family **Lycaenidae**

807. (!) *Lycaena dispar* (Hawoth, 1802) ssp. *rutilus* Werneburg, 1864 – Proiect ... 2021; Geryak, Khalaim (unpublished data). Protected by the Bern Convention (Appendix II and Resolution 6).

808. *Lycaena hippothoe* (Linnaeus, 1760) – Geryak et al. 2025.

809. *Lycaena phlaeas* (Linnaeus, 1760) – Geryak, Kanarsky, Khalaim (unpublished data).

810. *Lycaena tityrus* (Poda, 1761) – Popov, Pliushch 2004; Geryak et al. 2025; iNaturalist.

811. *Celastrina argiolus* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

812. (!) *Pseudophilotes vicrama* (Moore, 1865) ssp. *schiffermülleri* (Hemming, 1929) – Popov, Pliushch 2004. Listed in the Red Book of the Ukrainian Carpathians (2011).

813. *Cupido argiades* (Pallas, 1771) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

814. *Cupido minimus* (Fuessly, 1775) – Proiect ... 2021.

815. *Cyaniris semiargus* (Rottemburg, 1775) – Geryak et al. 2025.

816. *Polyommatus icarus* (Rottemburg, 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

Family **Nymphalidae**

817. *Neptis rivularis* (Scopoli, 1763) – Geryak, Kanarsky, Khalaim (unpublished data).

818. (!) *Limenitis populi* (Linnaeus, 1758) – Popov, Pliushch 2004; Zamoroka et al. 2017; "Biodiversity of Ukraine"; Geryak, Khalaim (unpublished data). Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

819. *Limenitis camilla* (Linnaeus, 1764) – iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data).

820. *Issoria lathonia* (Linnaeus, 1758) – Kanarsky (unpublished data).

821. *Brenthis ino* (Rottemburg, 1775) – Popov, Pliushch 2004; Geryak, Khalaim (unpublished data).

822. *Brenthis daphne* ([Denis & Schiffermüller], 1775) – Geryak, Kanarsky, Khalaim (unpublished data).

823. *Argynnis paphia* (Linnaeus, 1758) – Proiect ... 2021; Kanarsky (unpublished data).

824. (?) *Argynnis pandora* ([Denis & Schiffermüller], 1775)] – Proiect ... 2021. – This is probably a mistake, as the species is southern and non-resident in the Ukrainian Carpathians. However, migratory individuals may be recorded, especially due to the warming of the regional climate during 2011-2024. (*note by Yu. Kanarsky*).

825. *Speyeria aglaja* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

826. *Fabriciana adippe* ([Denis & Schiffermüller], 1775) – Kanarsky (unpublished data); iNaturalist.

827. *Fabriciana niobe* (Linnaeus, 1758) – Popov, Pliushch 2004.

828. *Boloria selene* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

829. *Boloria euphrosyne* (Linnaeus, 1758) – Geryak et al. 2025.

830. (!) *Apatura iris* (Linnaeus, 1758) – Zamoroka et al. 2005; 2017; Proiect ... 2021; "Biodiversity of Ukraine"; Kanarsky (unpublished data). Listed in the Red Book of Ukraine (2021) and the Red Book of the Ukrainian Carpathians (2011).

831. *Apatura ilia* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

832. *Melitaea athalia* (Rottemburg, 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

[*Melitaea trivia* ([Denis & Schiffermüller], 1775)] – Proiect ... 2021. Incorrect indication. This species is absent from the fauna of the Ukrainian Carpathians.

833. (!) *Euphydryas aurinia* (Rottemburg, 1775) – Kanarsky et al. 2024; Geryak, Khalaim (unpublished data). Listed in the Red Book of Ukraine (Chervona … 2021), in the Red Book of the Ukrainian Carpathians (2011) and protected by the Bern Convention (Appendix II and Resolution 6).

834. *Vanessa cardui* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

835. *Vanessa atalanta* (Linnaeus, 1758) – Proiect ... 2021; "Biodiversity of Ukraine"; Geryak, Kanarsky, Khalaim (unpublished data).

836. *Araschnia levana* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

837. *Aglais io* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data).

838. *Aglais urticae* (Linnaeus, 1758) – Popov, Pliushch 2004; Proiect ... 2021; iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data).

839. *Polygonia c-album* (Linnaeus, 1758) – Popov, Pliushch 2004; Geryak, Kanarsky, Khalaim (unpublished data).

840. *Nymphalis antiopa* (Linnaeus, 1758) – Geryak et al. 2025; iNaturalist.

841. *Coenonympha pamphilus* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

842. *Coenonympha tullia* (Müller, 1764) – Popov, Pliushch 2004.

843. *Coenonympha glycerion* (Borkhausen, 1788) – Geryak, Kanarsky, Khalaim (unpublished data).

844. *Coenonympha arcania* (Linnaeus, 1760) – Proiect ... 2021.

845. (!) *Lopinga achine* (Scopoli, 1763) – Proiect ... 2021; Geryak, Khalaim (unpublished data). Protected by the Bern Convention (Appendix II).

846. *Pararge aegeria* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

847. *Lasiommata maera* (Linnaeus, 1758) – Popov, Pliushch 2004; Geryak, Kanarsky, Khalaim (unpublished data).

848. *Melanargia galathea* (Linnaeus, 1758) – Proiect ... 2021; Kanarsky (unpublished data).

849. *Minois dryas* (Scopoli, 1763) – Proiect ... 2021; Kanarsky (unpublished data).

850. *Aphantopus hyperantus* (Linnaeus, 1758) – Proiect ... 2021; iNaturalist; Kanarsky (unpublished data).

851. *Maniola jurtina* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

852. *Erebia euryale* (Esper, 1805) – Popov, Pliushch 2004; Proiect ... 2021; iNaturalist; Kanarsky (unpublished data).

853. *Erebia ligea* (Linnaeus, 1758) – Proiect ... 2021; iNaturalist; Kanarsky (unpublished data).

854. *Erebia medusa* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; UkrBIN; Geryak, Kanarsky, Khalaim (unpublished data).

Family **Pyralidae**

855. *Hypsopygia costalis* (Fabricius, 1775) – Geryak et al. 2025.

856. *Assara terebrella* (Zincken, 1818) – Geryak et al. 2025.

857. *Dioryctria abietella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

858. *Oncocera semirubella* (Scopoli, 1763) – Geryak et al. 2025.

Family **Crambidae**

859. *Scoparia pyralella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

860. *Eudonia truncicolella* (Stainton, 1849) – Geryak et al. 2025.

861. *Gesneria centuriella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

862. *Agriphila straminella* ([Denis & Schiffermüller], 1775) – iNaturalist.

863. *Catoptria falsella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

864. *Catoptria permutatella* Herrich-Schäffer, 1849 – Geryak et al. 2025.

865. *Crambus lathoniellus* (Zincken, 1817) – Geryak et al. 2025.

866. *Crambus ericella* (Hübner, 1813) – Geryak et al. 2025.

867. *Crambus pascuella* (Linnaeus, 1758) – Geryak et al. 2025.

868. *Chrysoteuchia culmella* (Linnaeus, 1758) – Geryak et al. 2025.

869. *Anania terrealis* (Treitschke, 1829) – Geryak et al. 2025.

870. *Anania hortulata* (Linnaeus, 1758) – Geryak et al. 2025.

871. *Anania lancealis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

872. *Paratalanta pandalis* (Hübner, [1825]) – Geryak et al. 2025.

873. *Pyrausta purpuralis* (Linnaeus, 1758) – iNaturalist.

874. *Udea alpinalis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025; iNaturalist.

875. *Udea nebulalis* (Hübner, 1796) – Geryak et al. 2025; iNaturalist.

876. *Udea olivalis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

877. *Patania ruralis* (Scopoli, 1763) – Geryak et al. 2025.

878. *Nomophila noctuella* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

Family **Drepanidae**

879. *Thyatira batis* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

880. *Tethea or* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

881. *Tetheella fluctuosa* (Hübner, 1803) – Geryak et al. 2025.

882. *Ochropacha duplaris* (Linnaeus, 1761) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

883. *Habrosyne pyritoides* (Hufnagel, 1766) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

884. *Drepana curvatula* (Borkhausen, 1790) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

885. *Drepana falcataria* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

886. *Sabra harpagula* (Esper, 1786) – Kanarsky (unpublished data).

Family **Lasiocampidae**

887. *Malacosoma neustria* (Linnaeus, 1758) – Geryak et al. 2025.

888. *Lasiocampa quercus* (Linnaeus, 1758) – Geryak et al. 2025.

889. *Macrothylacia rubi* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

890. *Cosmotriche lobulina* ([Denis & Schiffermüller], 1775) – Geryak, Kanarsky, Khalaim (unpublished data).

891. *Euthrix potatoria* (Linnaeus, 1758) – Geryak et al. 2025.

892. *Dendrolimus pini* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

893. *Odonestis pruni* (Linnaeus, 1758) – Kanarsky (unpublished data).

Family **Saturniidae**

894. (!) *Aglia tau* (Linnaeus, 1758) – Zamoroka et al. 2017; "Biodiversity of Ukraine". Listed in the Red Book of the Ukrainian Carpathians (2011).

895. (!) *Saturnia pavonia* (Linnaeus, 1758) – iNaturalist; Kanarsky (unpublished data). Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

Family **Sphingidae**

896. *Laothoe populi* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

897. *Smerinthus ocellatus* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

898. *Mimas tiliae* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

899. *Sphinx* (*Hyloicus*) *pinastri* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

900. *Agrius convolvuli* (Linnaeus, 1758) – Proiect ... 2021; UkrBIN.

901. (!) *Hemaris fuciformis* (Linnaeus, 1758) – Geryak et al. 2025. Listed in the Red Book of the Ukrainian Carpathians (2011).

902. *Macroglossum stellatarum* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

903. *Hyles euphorbiae* (Linnaeus, 1758) – Proiect ... 2021.

904. *Hyles gallii* (Rottemburg, 1775) – Proiect ... 2021.

905. *Deilephila elpenor* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

906. *Deilephila porcellus* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

Family **Geometridae**

907. *Geometra papilionaria* Linnaeus, 1758 – Geryak et al. 2025.

908. *Jodis lactearia* (Linnaeus, 1758) – Geryak et al. 2025.

909. *Jodis putata* (Linnaeus, 1758) – Geryak et al. 2025.

910. *Thalera fimbrialis* (Scopoli, 1763) – Geryak et al. 2025.

911. *Hemithea aestivaria* (Hübner, 1789) – Kanarsky (unpublished data).

912. *Abraxas grossulariata* (Linnaeus, 1758) – Geryak et al. 2025.

913. *Abraxas sylvata* (Scopoli, 1763) – Geryak et al. 2025.

914. *Ligdia adustata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

915. *Lomaspilis marginata* (Linnaeus, 1758) – Geryak et al. 2025.

916. *Macaria alternata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

917. *Macaria signaria* (Hübner, 1809) – Geryak et al. 2025.

918. *Macaria liturata* (Clerck, 1759) – Geryak et al. 2025.

919. *Macaria wauaria* (Linnaeus, 1758) – Geryak et al. 2025.

920. *Macaria brunneata* (Thunberg, 1784) – Geryak et al. 2025.

921. *Chiasmia clathrata* (Linnaeus, 1758) – Geryak et al. 2025.

922. *Plagodis dolabraria* (Linnaeus, 1758) – Proiect ... 2021; Kanarsky (unpublished data).

923. *Epione repandaria* (Hufnagel, 1767) – Geryak et al. 2025.

924. *Cepphis advenaria* (Hübner, 1799) – Geryak et al. 2025.

925. *Pseudopanthera macularia* (Linnaeus, 1758) – Geryak et al. 2025.

926. *Opisthograptis luteolata* (Linnaeus, 1758) – Geryak et al. 2025.

927. *Apeira syringaria* (Linnaeus, 1758) – Geryak et al. 2025.

928. *Selenia dentaria* (Fabricius, 1775) – Geryak et al. 2025.

929. *Selenia tetralunaria* (Hufnagel, 1767) – Geryak et al. 2025.

930. *Campaea margaritata* (Linnaeus, 1767) – Geryak et al. 2025.

931. *Hylaea fasciaria* (Linnaeus, 1758) – Geryak et al. 2025.

932. *Pungeleria capreolaria* ([Denis & Schiffermüller], 1775) – iNaturalist.

933. *Cabera pusaria* (Linnaeus, 1758) – Geryak et al. 2025; iNaturalist.

934. *Cabera exanthemata* (Scopoli, 1763) – Geryak et al. 2025.

935. *Lomographa bimaculata* (Fabricius, 1775) – Geryak et al. 2025.

936. *Lomographa temerata* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

937. *Siona lineata* (Scopoli, 1763) – Geryak et al. 2025.

938. *Angerona prunaria* (Linnaeus, 1758) – Geryak et al. 2025.

939. *Odontopera bidentata* (Clerck, 1759) – Geryak et al. 2025.

940. *Hypomecis roboraria* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

941. *Hypomecis punctinalis* (Scopoli, 1763) – Geryak et al. 2025.

942. *Ematurga atomaria* (Linnaeus, 1758) – Geryak et al. 2025.

943. *Biston betularia* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

944. *Peribatodes rhomboidaria* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

945. *Alcis repandata* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

946. *Alcis deversata* (Staudinger, 1892) – Geryak, Kanarsky, Khalaim (unpublished data).

947. *Deileptenia ribeata* (Clerck, 1759) – Geryak et al. 2025; iNaturalist.

948. *Parectropis similaria* (Hufnagel, 1767) – Geryak et al. 2025.

949. *Idaea aversata* (Linnaeus, 1758) – Geryak et al. 2025.

950. *Idaea biselata* (Hufnagel, 1767) – Geryak et al. 2025.

951. *Scopula immorata* (Linnaeus, 1758) – Geryak et al. 2025; iNaturalist.

952. *Scopula nigropunctata* (Hufnagel, 1767) – iNaturalist.

953. *Scopula ternata* (Schranck, 1802) – Geryak et al. 2025.

954. *Cyclophora annularia* (Fabricius, 1775) – Geryak et al. 2025.

955. *Cyclophora linearia* (Hübner, 1799) – Geryak et al. 2025.

956. *Timandra comae* Schmidt, 1931 – Geryak et al. 2025.

957. *Odezia atrata* (Linnaeus, 1758) – Geryak et al. 2025.

958. *Aplocera praeformata* (Hübner, 1826) – Geryak et al. 2025.

959. *Pterapherapteryx sexalata* (Retzius, 1783) – Geryak et al. 2025.

960. *Minoa murinata* (Scopoli, 1763) – Geryak et al. 2025.

961. *Euchoeca nebulata* (Scopoli, 1763) – Geryak et al. 2025.

962. *Hydrelia sylvata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

963. *Hydrelia flammeolaria* (Hufnagel, 1767) – Geryak et al. 2025.

964. *Scotopteryx chenopodiata* (Linnaeus, 1758) – Geryak et al. 2025.

965. *Xanthorhoe fluctuata* (Linnaeus, 1758) – Geryak et al. 2025.

966. *Xanthorhoe spadicearia* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

967. *Xanthorhoe ferrugata* (Cleick, 1759) – Geryak et al. 2025.

968. *Xanthorhoe montanata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

969. *Xanthorhoe quadrifasciata* (Clerck, 1759) – Geryak et al. 2025.

970. *Camptogramma bilineata* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

971. *Epirrhoe tristata* (Linnaeus, 1758) – Geryak et al. 2025.

972. *Epirrhoe alternata* (Müller, 1764) – Geryak et al. 2025.

973. *Epirrhoe molluginata* (Hübner, 1813) – Geryak et al. 2025.

974. *Euphyia unangulata* (Haworth, 1810) – Geryak et al. 2025.

975. *Entephria caesiata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

976. *Hydriomena impluviata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

977. *Hydriomena ruberata* (Freyer, 1831) – Geryak et al. 2025.

978. *Thera variata* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

979. *Cosmorhoe ocellata* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

980. *Eulithis populata* (Linnaeus, 1758) – Geryak et al. 2025.

981. *Eulithis prunata* (Linnaeus, 1758) – Geryak et al. 2025.

982. *Gandaritis pyraliata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

983. *Chloroclysta siterata* (Hufnagel, 1767) – Geryak et al. 2025.

984. *Dysstroma truncata* (Hufnagel, 1767) – Geryak et al. 2025.

985. *Dysstroma citrata* (Linnaeus, 1758) – Geryak et al. 2025.

986. *Colostygia pectinataria* (Knoch, 1781) – Geryak et al. 2025.

987. *Rheumaptera hastata* (Linnaeus, 1758) – Geryak et al. 2025.

988. *Hydria undulata* (Linnaeus, 1758) – Geryak et al. 2025.

989. *Triphosa dubitata* (Linnaeus, 1758) – Geryak et al. 2025.

990. *Horisme tersata* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

991. *Perizoma affinitata* (Stephens, 1831) – Geryak et al. 2025.

992. *Chloroclystis v-ata* (Haworth, 1809) – Geryak et al. 2025.

993. *Pasiphila rectangulata* (Linnaeus, 1758) – Geryak et al. 2025.

994. *Pasiphila debiliata* (Hübner, 1817) – Geryak et al. 2025.

995. *Eupithecia abietaria* (Goeze, 1781) – Geryak et al. 2025.

996. *Eupithecia absinthiata* (Clerck, 1759) – Geryak et al. 2025; iNaturalist.

997. *Eupithecia centaureata* ([Denis & Schiffermüller], 1775) – Proiect ... 2021.

998. *Eupithecia expallidata* Doubleday, 1856 – Geryak et al. 2025.

Family **Notodontidae**

999. *Clostera pigra* (Hufnagel, 1766) – Geryak et al. 2025.

1000. *Gluphisia crenata* (Esper, 1785) – Geryak et al. 2025.

1001. *Stauropus fagi* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

1002. *Cerura vinula* (Linnaeus, 1758) – Geryak et al. 2025.

1003. *Cerura erminea* (Esper, 1783) – Geryak et al. 2025.

1004. *Furcula bicuspis* (Borkhausen, 1790) – Geryak et al. 2025.

1005. *Drymonia dodonaea* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1006. *Leucodonta bicoloria* ([Denis & Schiffermüller], 1775) – Kanarsky (unpublished data).

1007. *Notodonta dromedarius* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1008. *Notodonta torva* (Hübner, 1803) – Proiect ... 2021.

1009. *Notodonta tritophus* ([Denis & Schiffermüller], 1775) – Kanarsky (unpublished data).

1010. *Notodonta ziczac* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

1011. *Pterostoma palpina* (Clerck, 1759) – Geryak, Kanarsky, Khalaim (unpublished data).

1012. *Ptilodon capucina* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

1013. *Ptilodon cucullina* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Kanarsky (unpublished data).

1014. *Pheosia tremula* (Clerck, 1759) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

1015. *Pheosia gnoma* (Fabricius, 1776) – Geryak et al. 2025.

1016. *Phalera bucephala* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

Family **Erebidae**

1017. *Scoliopteryx libatrix* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1018. *Rivula sericealis* (Scopoli, 1763) – Geryak et al. 2025.

1019. *Hypena proboscidalis* (Linnaeus, 1758) – Geryak et al. 2025.

1020. *Hypena rostralis* (Linnaeus, 1758) – Geryak et al. 2025.

1021. *Hypena obesalis* Treitschke, 1829 – Geryak et al., 2022.

1022. *Hypena crassalis* (Fabricius, 1787) – Geryak et al. 2025.

1023. *Leucoma salicis* (Linnaeus, 1758) – Geryak et al. 2025.

1024. *Lymantria monacha* (Linnaeus, 1758) – Geryak et al. 2025.

1025. *Sphrageidus similis* (Fuessly, 1775) – Geryak et al. 2025.

1026. *Calliteara pudibunda* (Linnaeus, 1758) – Geryak et al. 2025.

1027. *Diacrisia sannio* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1028. *Arctia* (*Parasemia*) *plantaginis* (Linnaeus, 1758) – Geryak et al. 2025.

1029. (!) *Arctia* (*Pericallia*) *matronula* (Linnaeus, 1758) – iNaturalist; Kanarsky, Senchak (unpublished data). Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

1030. *Arctia* (*Arctia*) *caja* (Linnaeus, 1758) – Geryak, Khalaim (unpublished data).

1031. *Phragmatobia fuliginosa* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

1032. *Spilarctia lutea* (Hufnagel, 1766) – Geryak et al. 2025.

1033. *Spilosoma lubricipeda* (Linnaeus, 1758) – Geryak et al. 2025.

1034. *Spilosoma urticae* (Linnaeus, 1758) – Proiect ... 2021.

1035. *Diaphora mendica* (Clerck, 1759) – Kanarsky (unpublished data).

1036. (!) *Callimorpha dominula* (Linnaeus, 1758) – Zamoroka et al. 2017; "Biodiversity of Ukraine"; iNaturalist; Geryak, Kanarsky, Khalaim (unpublished data). Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

1037. *Miltochrista miniata* (Forster, 1771) – Geryak, Kanarsky, Khalaim (unpublished data).

1038. *Nudaria mundana* (Linnaeus, 1761) – Geryak et al. 2022.

1039. *Cybosia mesomella* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1040. *Pelosia muscerda* (Hufnagel, 1766) – Geryak et al. 2025.

1041. *Lithosia quadra* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

1042. *Atolmis rubricollis* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

1043. *Eilema griseola* (Hübner, 1803) – Geryak et al. 2025.

1044. *Eilema depressa* (Esper, 1787) – Geryak et al. 2025.

1045. *Eilema sororcula* (Hufnagel, 1766) – Geryak et al. 2025.

1046. *Herminia tarsipennalis* Treitschke, 1835 – Geryak et al. 2025.

1047. *Herminia tarsicrinalis* (Knoch, 1782) – Geryak et al. 2025.

1048. *Herminia grisealis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1049. *Polypogon tentacularia* (Linnaeus, 1758) – Geryak et al. 2025.

1050. *Pechipogo strigilata* (Linnaeus, 1758) – Geryak et al. 2025.

1051. *Lygephila viciae* (Hübner, 1822) – Geryak et al. 2025.

1052. *Schrankia costaestrigalis* (Stephens, 1834) – Geryak et al. 2025.

1053. *Colobochyla salicalis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1054. *Laspeyria flexula* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1055. *Trisateles emortualis* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1056. (!) *Catocala fraxini* (Linnaeus, 1758) – Proiect ... 2021. Listed in the Red Book of the Ukrainian Carpathians (2011).

1057. (!) *Catocala sponsa* (Linnaeus, 1767) – Proiect ... 2021. Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

1058. *Euclidia glyphica* (Linnaeus, 1758) – Geryak et al. 2025.

1059. *Euclidia mi* (Clerck, 1759) – Geryak et al. 2025.

Family **Nolidae**

1060. *Pseudoips prasinana* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

Family **Noctuidae**

1061. *Abrostola tripartita* (Hufnagel, 1766) – Geryak et al. 2025.

1062. *Abrostola triplasia* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

1063. *Macdunnoughia confusa* (Stephens, 1850) – Proiect ... 2021;

1064. *Diachrysia chrysitis* (Linnaeus, 1758) – Geryak et al. 2025.

1065. *D. stenochrysis* (Warren, 1913) – Proiect ... 2021: - *tutti* Kostrowicki, 1961.

1066. (!) *Euchalcia variabilis* (Piller & Mitterpacher, 1783) – Geryak et al. 2025. Listed in the Red Book of Ukraine (Chervona … 2021) and the Red Book of the Ukrainian Carpathians (2011).

1067. *Autographa gamma* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

1068. *Autographa buraetica* Staudinger, 1892 – Kanarsky (unpublished data).

1069. *Autographa pulchrina* (Haworth, 1809) – Proiect ... 2021; Geryak, Kanarsky, Khalaim (unpublished data).

1070. *Autographa jota* (Linnaeus, 1758) – Geryak et al. 2025.

1071. *Deltote deceptoria* (Scopoli, 1763) – Geryak et al. 2025.

1072. *Deltote pygarga* (Hufnagel, 1766) – Geryak et al. 2025.

1073. *Panthea coenobita* (Esper, 1785) – Geryak et al. 2025.

1074. *Colocasia coryli* (Linnaeus, 1758) – Geryak, Kanarsky, Khalaim (unpublished data).

1075. *Moma alpium* (Osbeck, 1778) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1076. *Acronicta alni* (Linnaeus, 1767) – Geryak, Kanarsky, Khalaim (unpublished data).

1077. *Acronicta auricoma* ([Denis & Schiffermüller], 1775) – iNaturalist.

1078. *Acronicta leporina* (Linnaeus, 1758) – Geryak et al. 2025.

1079. *Acronicta megacephala* ([Denis & Schiffermüller], 1775) – Geryak, Kanarsky, Khalaim (unpublished data).

1080. *Craniophora ligustri* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1081. *Amphipyra berbera* Rungs, 1949 – Proiect ... 2021.

1082. *Amphipyra perflua* (Fabricius, 1787) – Proiect ... 2021.

1083. *Amphipyra tragopoginis* (Clerck, 1759) – Proiect ... 2021.

1084. *Pyrrhia umbra* (Hufnagel, 1766) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1085. *Protoschinia scutosa* ([Denis & Schiffermüller], 1775) – Proiect ... 2021.

1086. *Pseudeustrotia candidula* ([Denis & Schiffermüller], 1775) – Geryak, Kanarsky, Khalaim (unpublished data).

1087. *Elaphria venustula* (Hübner, 1790) – Geryak et al. 2025.

1088. *Hoplodrina octogenaria* (Goeze, 1781) – Geryak et al. 2025.

1089. *Hoplodrina ambigua* ([Denis & Schiffermüller], 1775) – Proiect ... 2021.

1090. *Charanyca trigrammica* (Hufnagel, 1766) – Proiect ... 2021; Geryak et al. 2025.

1091. *Rusina ferruginea* (Esper, 1785) – Geryak et al. 2025.

1092. *Dypterygia scabriuscula* (Linnaeus, 1758) – Geryak et al. 2025.

1093. *Trachea atriplicis* (Linnaeus, 1758) – Geryak et al. 2025.

1094. *Hyppa rectilinea* (Esper, 1788) – Geryak et al. 2025.

1095. *Actinotia polyodon* (Clerck, 1759) – Geryak et al. 2025.

1096. *Phlogophora meticulosa* (Linnaeus, 1758) – Proiect ... 2021.

1097. *Euplexia lucipara* (Linnaeus, 1758) – Geryak et al. 2025.

1098. *Enargia paleacea* (Esper, 1788) – Proiect ... 2021.

1099. *Ipimorpha subtusa* ([Denis & Schiffermüller], 1775) – Proiect ... 2021.

1100. *Cosmia trapezina* (Linnaeus, 1758) – Proiect ... 2021.

1101. *Cirrhia icteritia* (Hufnagel, 1766) – Proiect ... 2021.

1102. *Lithophane consocia* (Borkhausen, 1792) – Geryak et al., 2022.

1103. *Photedes captiuncula* (Treitschke, 1825) – iNaturalist.

1104. *Photedes minima* (Haworth, 1809) – Geryak et al. 2022; Geryak, Khalaim (unpublished data).

1105. *Apamea crenata* (Hufnagel, 1766) – Geryak et al. 2025.

1106. *Apamea sordens* (Hufnagel, 1766) – Geryak et al. 2025.

1107. *Apamea monoglypha* (Hufnagel, 1766) – Geryak et al. 2025.

1108. *Oligia strigilis* (Linnaeus, 1758) – Geryak et al. 2025.

1109. *Oligia latruncula* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1110. *Orthosia incerta* (Hufnagel, 1766) – Geryak et al. 2025.

1111. *Orthosia gothica* (Linnaeus, 1758) – Geryak et al. 2025.

1112. *Polia bombycina* (Hufnagel, 1766) – Geryak et al. 2025.

1113. *Polia nebulosa* (Hufnagel, 1766) – Geryak et al. 2025.

1114. *Lacanobia w-latinum* (Hufnagel, 1766) – Geryak et al. 2025.

1115. *Lacanobia thalassina* (Hufnagel, 1766) – Geryak et al. 2025.

1116. *Lacanobia contigua* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1117. *Lacanobia oleracea* (Linnaeus, 1758) – Geryak et al. 2025.

1118. *Melanchra persicariae* (Linnaeus, 1761) – Proiect ... 2021.

1119. *Ceramica pisi* (Linnaeus, 1758) – Geryak et al. 2025.

1120. *Hada plebeja* (Linnaeus, 1761) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1121. *Mamestra brassicae* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1122. *Sideridis rivularis* (Fabricius, 1775) – Geryak et al. 2025.

1123. *Mythimna impura* (Hübner, 1808) – Geryak et al. 2025.

1124. *Mythimna albipuncta* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1125. *Mythimna ferrago* (Fabricius, 1787) – Geryak et al. 2025.

1126. *Agrotis exclamationis* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1127. *Agrotis segetum* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1128. *Agrotis ipsilon* (Hufnagel, 1766) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1129. *Axylia putris* (Linnaeus, 1761) – Geryak et al. 2025.

1130. *Ochropleura plecta* (Linnaeus, 1761) – Geryak et al. 2025.

1131. *Diarsia mendica* (Fabricius, 1775) – Geryak et al. 2025.

1132. *Diarsia brunnea* ([Denis & Schiffermüller], 1775) – Geryak et al. 2025.

1133. *Paradiarsia punicea* (Hübner, 1803) – Geryak et al. 2025.

1134. *Noctua pronuba* (Linnaeus, 1758) – Proiect ... 2021.

1135. *Noctua fimbriata* (Schreber, 1759) – Proiect ... 2021.

1136. *Noctua interposita* (Hübner, 1790) – Proiect ... 2021.

1137. *Noctua comes* Hübner, 1813 – Proiect ... 2021.

1138. *Eurois occulta* (Linnaeus, 1758) – Geryak et al. 2022.

1139. *Anaplectoides prasina* ([Denis & Schiffermüller], 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1140. *Xestia baja* ([Denis & Schiffermüller], 1775) – Kanarsky (unpublished data).

1141. *Xestia collina* (Boisduval, 1840) – Geryak et al. 2022.

1142. *Xestia c-nigrum* (Linnaeus, 1758) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1143. *Xestia ditrapezium* (Denis & Schiffermüller, 1775) – Proiect ... 2021; Geryak, Khalaim (unpublished data).

1144. *Xestia triangulum* (Hufnagel, 1766) – Geryak et al. 2025.

1145. *Xestia speciosa* (Hübner, 1813) – Geryak et al. 2022.

ORDER **DIPTERA**

Family **Tipulidae**

1146. *Nephrotoma* sp. – Geryak et al. 2025.

1147. *Tipula paludosa* Meigen, 1830 – iNaturalist.

1148. *Tipula* sp. – Geryak et al. 2025.

Family **Pediciidae**

1149. *Pedicia pallens* Savchenko, 1978 – Savchenko 1986.

1150. *Pedicia staryi* Savchenko, 1978 – Savchenko 1986.

Family **Limoniidae**

1151. *Erioptera flavata* (Westhoff, 1882) – Savchenko 1982: - *gemina* Tjed.

1152. *Rhabdomastix subparva* Stary, 1971 – Savchenko 1982.

1153. *Cheilotrichia minima* (Strobl, 1898) – Savchenko 1982.

1154. *Hoplolabis vicina* (Tonnoir, 1920) – Savchenko 1982.

1155. *Hoplolabis yezoana* (Alexander, 1924) – Savchenko 1982.

1156. *Molophilus ater* (Meigen, 1804) – Savchenko 1982.

1157. *Molophilus corniger* de Meijere, 1920 – Savchenko 1982.

1158. *Molophilus crassipygus* de Meijere, 1918– Savchenko 1982: - *ochrescens* Edw.

1159. *Molophilus ermolenkoi* Savchenko, 1976 – Savchenko 1982.

1160. *Molophilus scutellatus* Goetghebuer, 1929 – Savchenko 1982: - *flavoscutellatus* Lack.

1161. *Molophilus vafer* Lackschewitz, 1940 – Savchenko 1982: - *unguifer* Stary

1162. *Ormosia bifida* (Lackschewitz, 1940) – Savchenko 1982.

1163. *Ormosia staegeriana* Alexander, 1953 – Savchenko 1982.

1164. *Antocha vitripennis* (Meigen, 1830) – Savchenko 1985.

1165. *Dicranoptycha paralivescens* Stary, 1972 – Savchenko 1982.

1166. *Metalimnobia quadrinotata* (Meigen, 1818) – Savchenko 1985.

1167. *Dicranophragma separatum* (Walker, 1848) – Savchenko 1986.

1168. *Eutonia barbipes* (Meigen, 1804) – Savchenko 1986.

1169. *Neolimnomyia filata* (Walker, 1856) – Savchenko 1986.

Family **Culicidae**

1170. *Culex pipiens* Linnaeus, 1758 – Geryak et al. 2025.

Family **Ceratopogonidae**

1171. *Culicoides* sp. – Geryak et al. 2025.

Family **Bibionidae**

1172. *Bibio* sp. – Geryak et al. 2025.

Family **Mycetophilidae**

1173. *Mycomya* sp. – Geryak et al. 2025.

Family **Sciaridae**

1174. *Sciara* sp. – Geryak et al. 2025.

Family **Rhagionidae**

1175. *Rhagio* sp. – Geryak et al. 2025.

Family **Tabanidae**

1176. *Chrysops caecutiens* (Linnaeus, 1758) – Geryak et al. 2025.

1177. *Haematopota pluvialis* (Linnaeus, 1758) – Geryak et al. 2025.

1178. *Hybomitra distinguenda* (Verrall, 1909) – Geryak et al. 2025.

1179. *Tabanus* sp. – Geryak et al. 2025.

Family **Asilidae**

1180. *Laphria ephippium* (Fabricius, 1781) – Geryak et al. 2025.

1181. *Laphria flava* (Linnaeus, 1761) – iNaturalist.

1182. *Neoitamus socius* (Loew, 1871) – iNaturalist.

Family **Bombyliidae**

1183. *Bombylius major* Linnaeus, 1758 – Geryak et al. 2025.

Family **Empididae**

1184. *Empis tessellata* Fabricius, 1794 – iNaturalist.

Family **Syrphidae**

1185. *Blera fallax* (Linnaeus, 1758) – Proiect ... 2021.

1186. *Brachypalpoides lentus* (Meigen, 1822) – Proiect ... 2021.

1187. *Brachypalpus chrysites* Egger, 1859 – Proiect ... 2021.

1188. *Chalcosyrphus nemorum* (Fabricius, 1805) – Proiect ... 2021.

1189. *Chalcosyrphus valgus* (Gmelin 1790) – Proiect ... 2021.

1190. *Cheilosia aerea* Dufour, 1848 – Proiect ... 2021.

1191. *Cheilosia albipila* Meigen, 1838 – Proiect ... 2021.

1192. *Cheilosia albitarsis* Meigen, 1822 – Proiect ... 2021.

1193. *Cheilosia canicularis* (Panzer, [1801]) – Sirenko, Shparyk 2014; Proiect ... 2021; iNaturalist.

1194. *Cheilosia himantopus* (Panzer, 1797) – "Biodiversity of Ukraine".

1195. *Cheilosia illustrata* (Harris, [1780]) – Proiect ... 2021.

1196. *Cheilosia impressa* (Loew, 1840) – Proiect ... 2021.

1197. *Cheilosia vulpina* (Meigen, 1822) – Proiect ... 2021.

1198. *Chrysogaster vuduata* (Linnaeus, 1758) – Proiect ... 2021.

1199. *Criorhina berberina* (Fabricius, 1805) – Proiect ... 2021.

1200. *Eristalis intricaria* (Linnaeus, 1758) – Proiect ... 2021.

1201. *Eristalis abusiva* Collin, 1931 – Sirenko, Shparyk 2014; Proiect ... 2021.

1202. *Eristalis alpina* (Panzer, [1798]) – Proiect ... 2021.

1203. *Eristalis arbustorum* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1204. *Eristalis interrupta* (Poda, 1767) – Sirenko, Shparyk 2014.

1205. *Eristalis jugorum* Egger, 1858 – Sirenko, Shparyk 2014.

1206. *Eristalis nemorum* (Linnaeus, 1758) – Proiect ... 2021.

1207. *Eristalis pertinax* (Scopoli, 1763) – Sirenko, Shparyk 2014; Proiect ... 2021; iNaturalist.

1208. *Eristalis rupium* Fabricius, 1805 – Sirenko, Shparyk 2014; Proiect ... 2021.

1209. *Eristalis similis* (Fallén, 1817) – iNaturalist.

1210. *Eristalis tenax* (Linnaeus, 1758) – Sirenko et al. 2002; Tretiak, Sirenko 2006; Sirenko, Shparyk 2014; Proiect ... 2021.

1211. *Ferdinandea cuprea* (Scopoli, 1763) – Proiect ... 2021.

1212. *Helophilus hybridus* Loew, 1846 – Proiect ... 2021.

1213. *Helophilus pendulus* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1214. *Helophilus trivittatus* (Fabricius, 1805) – Sirenko, Shparyk 2014; Proiect ... 2021; iNaturalist.

1215. *Merodon cinereus* (Fabricius, 1794) – Proiect ... 2021.

1216. *Merodon equestris* (Fabricius, 1794) – Proiect ... 2021.

1217. *Myathropa florea* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1218. *Neoascia podagrica* (Fabricius, 1775) – Proiect ... 2021.

1219. *Orthonevra splendens* (Meigen, 1822) – Proiect ... 2021.

1220. *Rhingia borealis* Ringdahl, 1928 – Proiect ... 2021.

1221. *Rhingia campestris* Meigen, 1822 – Proiect ... 2021.

1222. *Rhingia rostrata* (Linnaeus, 1758) – Proiect ... 2021.

1223. *Sericomyia bombiformis* (Fallen, 1810) – Sirenko, Shparyk 2014; iNaturalist.

1224. *Sericomyia lappona* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1225. *Sericomyia silentis* (Harris, [1776]) – Proiect ... 2021.

1226. *Sericomyia superbiens* (Müller, 1776) – Proiect ... 2021; iNaturalist.

1227. *Sphegina clunipes* (Fallen, 1816) – Proiect ... 2021.

1228. *Sphegina sibirica* Stackelberg, 1953 – Proiect ... 2021.

1229. *Syritta pipiens* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1230. *Temnostoma bombylans* (Fabricius, 1805) – Proiect ... 2021; "Biodiversity of Ukraine".

1231. *Temnostoma vespiforme* (Linnaeus, 1758) – Proiect ... 2021.

1232. *Volucella bombylans* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1233. *Volucella inanis* (Linnaeus, 1758) – Proiect ... 2021.

1234. *Volucella pellucens* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021; iNaturalist.

1235. *Xylota jakutorum* Bagatshanova, 1980 – Proiect ... 2021.

1236. *Xylota segnis* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1237. *Xylota sylvarum* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1238. *Microdon analis* (Macquart, 1842) – Proiect ... 2021.

1239. *Microdon devius* (Linnaeus, 1761) – Proiect ... 2021.

1240. *Microdon mutabilis* (Linnaeus, 1758) – Proiect ... 2021.

1241. *Pipiza noctiluca* (Linnaeus, 1758) – Proiect ... 2021.

1242. *Pipiza quadrimaculata* (Panzer, [1804]) – Proiect ... 2021.

1243. *Chrysotoxum arcuatum* (Linnaeus, 1758) – Proiect ... 2021.

1244. *Chrysotoxum bicinctum* (Linnaeus, 1758) – Proiect ... 2021.

1245. *Chrysotoxum fasciolatum* (De Geer, 1776) – Proiect ... 2021.

1246. *Chrysotoxum festivum* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021; "Biodiversity of Ukraine".

1247. *Dasysyrphus tricinctus* (Fallen, 1817) – Proiect ... 2021.

1248. *Didea alneti* (Fallén, 1817) – Proiect ... 2021.

1249. *Didea intermedia* (Loew, 1854) – Proiect ... 2021.

1250. *Epistrophe eligans* Harris, 1780 – Proiect ... 2021.

1251. *Epistrophe grossulariae* (Meigen, 1822) – Proiect ... 2021.

1252. *Episyrphus balteatus* (De Geer, 1776) – Sirenko, Shparyk 2014; iNaturalist.

1253. (!) *Eriozona syrphoides* (Fallén, 1817) – Melnyk, Sirenko 2004; Prokhorov, Shparyk 2019. Listed in the Red Book of Ukraine (2021).

1254. *Eupeodes corollae* (Fabricius, 1794) – Proiect ... 2021.

1255. *Lapposyrphus lapponicus* (Zetterstedt, 1838) – "Biodiversity of Ukraine".

1256. *Leucozona glaucia* (Linnaeus, 1758) – Sirenko, Shparyk 2014.

1257. *Leucozona laternaria* (Mŭller, 1776) – Proiect ... 2021.

1258. *Leucozona lucorum* (Linnaeus, 1758) – Proiect ... 2021.

1259. *Megasyrphus erratica* (Linnaeus, 1758) – Proiect ... 2021; iNaturalist.

1260. *Melangyna compositarum* (Verrall, 1873) – Proiect ... 2021.

1261. *Melangyna lucifera* Nielsen, 1980 – Proiect ... 2021.

1262. *Melangyna umbellatarum* (Fabricius, 1794) – Proiect ... 2021.

1263. *Melanostoma mellinum* (Linnaeus, 1758) – Proiect ... 2021.

1264. *Melanostoma scalare* (Fabricius, 1794) – Sirenko, Shparyk 2014; Proiect ... 2021.

1265. *Meliscaeva cinctella* (Zetterstedt, 1843) – Proiect ... 2021.

1266. *Platycheirus albimanus* (Fabricius, 1781) – Proiect ... 2021.

1267. *Platycheirus granditarsus* (Forster, 1771) – Proiect ... 2021.

1268. *Platycheirus rosarum* (Fabricius, 1787) – Proiect ... 2021.

1269. *Platycheirus scutatus* (Meigen, 1822) – Proiect ... 2021.

1270. *Scaeva pyrastri* (Linnaeus, 1758) – Proiect ... 2021.

1271. *Scaeva selenitica* (Meigen, 1822) – Proiect ... 2021.

1272. *Sphaerophoria interrupta* (Fabricius, 1805) – Shparyk 2013.

1273. *Sphaerophoria scripta* (Linnaeus, 1758) – Shparyk, 2013; Sirenko, Shparyk 2014; Proiect ... 2021.

1274. *Sphaerophoria shirchan* Violovich, 1957 – Proiect ... 2021.

1275. *Sphaerophoria taeniata* (Meigen, 1822) – Shparyk 2013; Proiect ... 2021.

1276. *Syrphus ribesii* (Linnaeus, 1758) – Sirenko, Shparyk 2014; Proiect ... 2021.

1277. *Syrphus vitripennis* (Meigen, 1822) – Sirenko, Shparyk 2014; Proiect ... 2021.

1278. *Xanthandrus comptus* (Harris, [1780]) – Proiect ... 2021.

Family **Conopidae**

1279. *Conops strigatus* Wiedemann, 1824 – iNaturalist.

1280. *Sicus ferrugineus* (Linnaeus, 1761) – iNaturalist.

Family **Agromyzidae**

1281. *Agromyza sp.* – iNaturalist.

1282. *Phytomyza lappae* Goureau, 1851 – iNaturalist.

Family **Heleomyzidae**

1283. *Tephrochlamys flavipes* (Zetterstedt, 1838) – iNaturalist.

Family **Sciomyzidae**

1284. *Coremacera marginata* (Fabricius, 1775) – iNaturalist.

1285. *Limnia unguicornis* (Scopoli, 1763) – iNaturalist.

Family **Muscidae**

1286. *Hydrotaea* sp. – Geryak et al. 2025.

1287. *Musca* sp. – Geryak et al. 2025.

1288. *Muscina* sp. – Geryak et al. 2025.

1289. *Phaonia angelicae* (Scopoli, 1763) – iNaturalist.

Family **Scathophagidae**

1290. *Scathophaga stercoraria* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Calliphoridae**

1291. *Calliphora vicina* Robineau-Desvoidy, 1830 – iNaturalist.

1292. *Calliphora* sp. – Geryak et al. 2025.

1293. *Lucilia* sp. – Geryak et al. 2025.

Family **Oestridae**

1294. *Cephenemyia stimulator* (Clark, 1815) – iNaturalist.

Family **Sarcophagidae**

1295. *Sarcophaga carnaria* (Linnaeus, 1758) – Geryak et al. 2025.

Family **Tachinidae**

1296. *Gymnosoma rotundatum* (Linnaeus, 1758) – iNaturalist.

1297. *Phasia hemiptera* (Fabricius, 1794) – Geryak et al. 2025.

1298. *Tachina* sp. – Geryak et al. 2025.

ORDER **MECOPTERA**

Family **Panorpidae**

1299. *Panorpa alpina* Rambur, 1842 – iNaturalist; Geryak, Khalaim (unpublished data).

1300. *Panorpa communis* Linnaeus, 1758 – Geryak et al. 2025.

Rare component in the invertebrat fauna of the Syniohora National Nature Park

As of now, 51 species of spiders and insects recorded from the Park are protected at various levels. Among them, 16 species are protected at the national level and included in the current edition of the Red Data Book of Ukraine (Chervona … 2021). According to the national protection categories, there are seven rare species (R): *Urocerus augur*, *Dolichomitus cephalotes*, *Megarhyssa rixator*, *Rhyssa kriechbaumeri*, *Saturnia pavonia*, *Catocala sponsa* and *Euchalcia variabilis*; 8 species are "vulnerable": *Calopteryx virgo*, *Anax imper-*

ator, *Limenitis populi*, *Apatura iris*, *Euphydryas aurinia*, *Arctia matronula*, *Callimorpha dominula*, and *Eriozona syrphoides*, and one – *Cordulegaster bidentata* – is "vanishing".

In addition, the 43 species of spiders and insects in the Park's fauna are protected at the regional level. Seventeen species of spiders (*Coelotes carpathensis, Cheiracanthium punctorium, Clubiona alpicola, Hahnia pusilla, Anguliphantes tripartitus, Bathyphantes similis, Centromerus cavernarum, Centromerus silvicola, Kaestneria torrentum, Maro minutus, Oedothorax gibbifer, Palliduphantes milleri, Taranucnus setosus, Arctosa maculata, Pardosa nigra*, and *Robertus scoticus*) are included in the Red List of Spiders of the Carpathians (Gajdoš et al. 2014), which is based on the faunistic studies of the mountain system within seven countries. Of these, three species, namely *Bathyphantes similis*, *Centromerus silvicola*, and *Palliduphantes milleri*, belong to the "Vulnerable" category (VU), seven species – to the "Near Threatened" category (NT), seven species – to the "Least Concern" category (LC). Other 26 species from the class Insecta are listed in the Red Book of the Ukrainian Carpathians (2011): *Calopteryx virgo, Anax imperator, Cordulegaster bidentata, Urocerus augur, Bombus pyrenaeus, B. wurfleini, Carabus auronitens, C. fabricii, C. irregularis, Deltomerus carpathicus, Pterostichus burmeisteri, Ceruchus chrysomelinus, Peltis grossa, Papilio machaon, Pseudophilotes vicrama, Limenitis populi, Apatura iris, Euphydryas aurinia, Aglia tau, Saturnia pavonia, Hemaris fuciformis, Arctia matronula, Callimorpha dominula, Catocala fraxini, C. sponsa*, and *Euchalcia variabilis.*

Ultimately, five species of insects are protected at the international level and included in the conservation lists of the Bern Convention. These include *Carabus variolosus* and *C. zawadzkii*, which are listed in the Red List of Resolution No. 6, *Lopinga achine*, which is listed in Appendix II, as well as *Lycaena dispar* and *Euphydryas aurinia*, which are listed in both Appendix II and Resolution No. 6 of the Bern Convention.

Two spider species – *Kaestneria torrentum* (Kulczyński, 1882) and *Palliduphantes milleri* (Starega, 1972) are endemic to the Carpathians (Gajdoš et al. 2014). The other two (– *Taranucnus beskidicus* Hirna, 2018 and *Coelotes carpathensis* Ovtchinnikov, 1999) have been found within the mountain system only in Ukraine (Hirna 2018; Hirna, Yanul 2023; World Spider Catalog 2025), but their status as endemic species is currently being clarified.

Conclusions

As a result of the analysis of materials collected at the current stage of research, as well as the analysis of literary sources and Internet resources, 177 species of 24 families of the order Araneae (class Arachnida) and 1,300 species of 142 families and 14 orders of the class Insecta have been registered in the Park.

Obviously, these figures are not exhausted, as the study of many taxonomic groups of arthropods is only just beginning, and the territory of the Park has been studied very unevenly. In particular, the aranei- and entomofauna of the highlands remain almost unexplored. With further research, many new discoveries can be expected in the Syniohora National Nature Park, and, accordingly, significant additions to the faunal checklists.

51 rare species of spiders and insects have been found in the Park. Among them, 16 species are listed in the Red Data Book of Ukraine (Chervona 2021), 42 species are protected at the regional level, and five species at the international level – included in Appendix II and Resolution 6 of the Bern Convention.

AGUIAR, A.P., DEANS, A.R., ENGEL, M.S., FORSHAGE, M., HUBER, J.T., JENNINGS, J.T., JOHNSON, N.F., LELEJ, A.S., LONGINO, J.T., LOHRMANN, V., MIKÓ, I., OHL, M., RASMUSSEN, C., TAEGER, A., YU, D.S.K. (2011) Order Hymenoptera Linnaeus, 1758. *In: Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness.* Zhang Z.-Q. (Ed.). *Zootaxa*, 3703(1), 51–62. https://doi.org/10.11646/zootaxa.3703.1.12

BENNETT, N. (1929) The dissection and preparation of the genitalia of Lepidoptera. *Entomologist*, 62, 220–223, 245–248.

BYBEE, S.M., KALKMAN, V.J., ERICKSON, R.J., FRANDSEN, P.B., BREINHOLT, J.W., SUVOROV, A., DIJKSTRA, K.-D., CORDERO-RIVERA, A., SKEVINGTON, J.H., ABBOTT, J.C., SANCHEZ HERRERA, M., LEMMON, A.R., MORIARTY-LEMMON, E., WARE, J.L. (2021) Phylogeny and classification of Odonata using targeted genomics. *Molecular Phylogenetics and Evolution*, 160, 107–115. https://doi.org/10.1016/j.ympev.2021.107115 468

BOBYLIAK, A.Y., SIRENKO, A.H. (2009) Do pytannia pro poshyrennia Siricidae (Hymenoptera, Insecta) v riznykh lisovykh ekosystemakh Ukrainskykh Karpat. *Visnyk Prykarpatskoho universytetu. Seriia Biolohiia,* 14, 58–65. (in Ukrainian)

BUREIKO, M.D., ZAMOROKA A.M. (2024) Aktualizatsiia doslidzhen zhukiv-lystoidiv (Coleoptera: Chrysomelidae) Natsionalnoho pryrodnoho parku

"Syniohora". *Proceedings of the scientific-practical conference "Aktualni problemy vyvchennia entomofauny zakhidnoho rehionu Ukrainy*. Ivano-Frankivsk – Stara Huta, 14-16, June, 2024. Lviv, pp. 5–6. (in Ukrainian)

CAI, C., TIHELKA, E., GIACOMELLI, M., LAWRENCE, J.F., ŚLIPIŃSKI, A., KUNDRATA, R., YAMAMOTO, S., THAYER, M.K., NEWTON, A.F., LESCHEN, R.A.B., GIMMEL, M.L., LÜ, L., ENGEL, M.S., BOUCHARD, P., HUANG, D., PISANI, D., DONOGHUE, P.C.J. (2022) Integrated phylogenomics and fossil data illuminate the evolution of beetles. *Royal Society Open Science*, 211771(9), 1–87. https://doi.org/10.1098/rsos.211771

CIGLIANO, M.M., BRAUN, H., EADES, D.C., OTTE, D. (2024) Orthoptera Species File. Taxonomic database of the world's grasshoppers, locusts, katydids, crickets, and related insects. Available at: http://orthoptera.speciesfile.org [Accessed 10 September 2025].

CHERVONA KNYHA UKRAINY (Tvarynnyi svit) (2021) Perelik vydiv tvaryn, shcho zanosiatsia do Chervonoi knyhy Ukrainy (tvarynnyi svit). Nakaz Ministerstva zakhystu dovkillia ta pryrodnykh resursiv Ukrainy № 29, 19.01.2021. (in Ukrainian)

EVENHUIS, N.L., PAPE, T. (2021) Systema Dipterorum, version 3.5. Available at: http://www.diptera.org [Accessed 10 September 2025].

FUFALKO, I.M. (2024) Vydove riznomanittia bezkhrebetnykh fauny natsionalnoho pryrodnoho parku «Syniohora». *Proceedings of the scientific-practical conference "Aktualni problemy vyvchennia entomofauny zakhidnoho rehionu Ukrainy"*. Ivano-Frankivsk – Stara Huta, 14-16, June, 2024. Lviv, pp. 55–57 (in Ukrainian).

GAJDOŠ, P., MOSCALIUC, L.A., ROZWALKA, R., HIRNA, A., MAJKUS, Z., GUBÁNYI, A., HELTAI, M.G., SVATOŇ J. (2014) Red List of Spiders (Araneae) of the Carpathian Mts. *In:* Kadlečik J. (Ed.) *Carpathian Red list of forest habitats and species. Draft Carpathian list of invasive alien species (Draft).* The State Nature Conservancy of the Slovak Republik, Slovakia. pp. 82–135.

GERYAK, Yu.M., Kanarsky, Yu.V., KHALAIM, Ye.V., FUFALKO, I.M., GLOTOV, S.V. (2025) Stan vyvchennia entomofauny (Insecta) NPP «Syniohora». *Proceedings of the scientific-practical conference "Priorytetni napriamky okhorony pryrody v umovakh dovhotryvaloi viiny"*. Stara Huta, Ivano-Frankivsk Region, 12-13, December, 2024. Kushnir H.M., Ivano-Frankivsk. pp. 46–55 (in Ukrainian).

GERYAK, Yu.M., KHALAIM, Ye.V., SUCHKOV S.I., ZHAKOV, O.V., BACHYNSKYI, A.I., BEZUGLYI, S.K., BIDYCHAK, R.M., GALKIN, O.O., GERA, A.A., KAVURKA, V.V., KOVALCHUK, D.O., KOZLOV, S.M., LESHCHENKO, M.V., NOVYTSKYI, S.M., PARKHOMENKO, V.V., PROSTEBI, V.L., SERGIENKO, V.M., TROTSENKO, S.M., TSYKAL, S.V., VOITKO, P.L., VORONOV, V.K., YEPISHIN, V.V., ZAIKA, M.I. (2022) Contribution to Knowledge on the Taxonomic Composition and Distribution of Noctuoid Moths (Lepidoptera: Noctuoidea) of Ukraine. *Ukrainian Entomological Journal*, 20, 65–107. https://doi.org/10.15421/282203

HEOBOTANICHNE RAIONUVANNIA UKRAINSKOI RSR (1977) Naukova dumka, Kyiv. (in Ukrainian)

HIRNA, A. (2015) Specimens of spider fauna from Ukraine in the collection of the Museum of Natural History, Wroclaw University (According to the collection of Stanisław Pilawski and Kazimierz Petrusewicz). *Zoologica Poloniae*, 60(1-1), 15–33.

HIRNA, A. (2018) A new species and new records of the spider genus *Taranucnus* (Araneae, Linyphiidae) from the Ukrainian Carpathians. *Zootaxa*, 4429, 372–378. https://doi.org10.11646/zootaxa.4429.2.11

HIRNA, A., YANUL, V. (2023) On some rare and newly recorded spider species for the Ukrainian Carpathians (Arachnida: Araneae). *Arachnologische Mitteilungen*, 66, 38–43. https://doi.org10.30963/aramit6606

KANARSKY, Yu.V., SENCHAK, I.I., FUFALKO, I.M. (2024) Do znakhidky ridkisnoho vydu metelyka *Euphydryas aurinia* (Rottemburg, 1775) v NPP "Syniohora". *Proceedings of the scientific-practical conference "Osoblyvosti okhorony pryrody v umovakh voiennoho stanu v interesakh mistsevykh hromad"*. Stara Huta, 14-15, December, 2023, Ivano-Frankivsk, pp. 57–60 (in Ukrainian).

KIZUB, I.V., LESHCHENKO, M.V. (2020) Contribution to the knowledge of the genus *Otiorhynchus* Germar, 1822 (Coleoptera: Curculionidae) fauna of Ukraine. Part 3. *Munis Entomology & Zoology*, 15(2), 397–406.

KRIVOSHEYEV, R.E. (2015) *Zhuky-potayemtsi (Coleoptera: Staphylinidae: Pselaphinae) Ukrayiny (fauna, zooheohrafiya, morfolohichni ta ekolohichni osoblyvosti).* Manuscript of PhD thesis. Available at: http://docplayer.net/65615500-Krivosheievrobert-ievgenovich.html (in Ukrainian)

KYZYM, A., ZAMOROKA A. (2024) Monitorynh chuzhoridnykh vydiv komakh u Ivano-Frankivskii oblasti z vykorystanniam mozhlyvostei hromadianskoi nauky. *Proceedings of the International scientific conference "Dnistrovski chytannia"*. 18, October, 2024, Tlumach, Ivano-Frankivsk Region, Ukraine. Druk Art, Tlumach – Chernivtsi, pp. 54–58. (in Ukrainian)

LİTOPYS PRYRODY NATSİONALNOHO PRYRODNOHO PARKU "SYNIOHORA" (2022) Vol. 1, Shparyk Yu.S. (Ed.). (in Ukrainian)

LITOPYS PRYRODY NATSIONALNOHO PRYRODNOHO PARKU "SYNIOHORA" (2023) Vol. 2, Shparyk Yu.S. (Ed.). (in Ukrainian)

ŁOMNICKI, M. (1878a) Wycieczka w Góry Sołotwińskie. *Polskiego Towarzystwa Tatrzańskiego,* 3, 32–48.

ŁOMNICKI, M. (1878b) Wykaz szarańczaków zebranych w miesiącu sierpniu 1877 r. w górach Sołotwińskich. *Sprawozdanie Komisji Fizjograficznej*, *Kraków*, 12, 1–5.

ŁOMNICKI, M. (1880) Chrząszcze zebrane w górach Sołotwińskich. *Sprawozdanie Komisji Fizjograficznej*, *Kraków*, 14, 3–12.

ŁOMNICKI, M. (1886) *Muzeum imienia Dzieduszyckich we Lwowie. Dział I. Zoologiczny oddział zwierząt bezkręgowych. IV. Chrząszcze czyli tęgoskrzydłe (Coleoptera)*. Lwów.

MELNYK, S., SIRENKO, A. (2004) Pro znakhidky ridkisnykh vydiv mukh-dziurchalok rodiv Eriozona ta Microdon (Diptera, Syrphidae) v Ivano-Frankivskii oblasti. *Visnyk Prykarpatskoho universytetu. Seriia Biolohiia*, 4, 107–110. (in Ukrainian)

MYKYTSEI, P.S. (2012) Do pytannia pro uhrupuvannia zhukiv-kovalykiv (Elateridae, Coleoptera, Insecta) subalpiiskykh ta alpiiskykh luk Ukrainskykh Karpat. *Visnyk Prykarpatskoho universytetu. Seriia Biolohiia*, 16, 92–102. (in Ukrainian)

NIEUKERKEN, E.J., VAN KAILA, L., KITCHING, I.J., KRISTENSEN, N.P., LEES, D.C., MINET, J., MITTER, C., MUTANEN, M., REGIER, J.C., SIMONSEN, T.J., WAHLBERG, N., YEN, S.-H., ZAHIRI, R., ADAMSKI, D., BAIXERAS, J., BARTSCH, D., BENGTSSON, B.Å., BROWN, J.W., BUCHELI, S.R., DAVIS, D.R., DE PRINS, J., DE PRINS, W., EPSTEIN, M.E., GENTILI POOLE, P., GIELIS, C., HÄTTENSCHWILER, P., HAUSMANN, A., HOLLOWAY, J.D., KALLIES, A., KARSHOLT, O., KAWAHARA, A.Y., KOSTER, J.C., KOZLOV, M.V., LAFONTAINE, J.D., LAMAS, G., LANDRY, J.-F., LEE, S., NUSS, M., PARK, K.-T., PENZ, C., ROTA, J., SCHINTLMEISTER, A., SCHMIDT, B C., SOHN, J.-C., SOLIS, M.A., TARMANN, G.M., WARREN, A.D., WELLER, S., YAKOVLEV, R.V., ZOLOTUHIN, V.V., ZWICK, A. (2011) Order Lepidoptera Linnaeus, 1758. In: Zhang, Z.-Q., ed. Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. *Biodiversity Data Journal*, 3148(1), 212–221. https://doi.org10.11646/zootaxa.3148.1.3

NUZHNA, A., VARGA, A. (2015) A review of the Anomaloninae (Hymenoptera, Ichneumonidae, Anomaloninae) from the Ukrainian Carpathians. *Biodiversity Data Journal*, 3, e6890. https://doi.org/10.3897/BDJ.3.e6890

PAULSON, D., SCHORR, M., ABBOTT, J., BOTA-SIERRA, C., DELIRY, C., DIJKSTRA, K.-D., LOZANO, F. (coordinators) (2024). World Odonata List. Odonata Central, University of Alabama. Available at: https://www.odonatacentral.orgapp/#/wol/ [Accessed 10 September 2025].

POPOV, S.G., PLIUSHCH, I.G. (2004) *Bulavousyie cheshuekryilyie (Lepidiptera: Papilionoidea & Hesperioidea) Zapadnoy Ukrainy*. M-Studiya, Uzhhorod.

PROIEKT ORHANIZATSII TERYTORII NATSIONALNOHO PRYRODNOHO PARKU "SYNIOHORA", okhorony, vidtvorennia ta rekreatsiinoho vykorystannia yoho pryrodnykh kompleksiv i obiektiv (2021) HO "Ekolohif", Huta. (in Ukrainian)

PROKHOROV, O.V., SHPARYK, V.Yu. (2019) Ridkisni vydy mukh-povysiukh (Diptera: Syrphidae), rekomendovani do zanesennia v Chervonu knyhu Ukrainy. *Ukrainska entomofaunistyka*, 10(1), 7–12. (in Ukrainian)

PUSHKAR, V.S., ZAMOROKA A.M., ZHYRAK, R.M. (2006) Do fauny deiakykh taksoniv komakh pivdenno-zakhidnoi chastyny Ivano-Frankivskoi oblasti. *Naukovi osnovy zberezhennia biotychnoi riznomanitnosti,* 7, 126–131. (in Ukrainian)

RIEDEL, M., VARGA, A. (2019) The genus *Astiphromma* Förster, 1869 (Hymenoptera, Ichneumonidae, Mesochorinae) in the Ukrainian Carpathians. *Journal of Insect Biodiversity*, 9(2), 57–60. https://doi.org/10.12976/jib/2019.09.2.2

RIEDEL, M., VARGA, A. (2022) A checklist of the subfamily Mesochorinae (Hymenoptera, Ichneumonidae) from the Ukrainian Carpathians. *Zootaxa*, 5100(2) 224–248. https://doi.org/10.11646/zootaxa.5100.2.3

RIZUN, V.B. (2024) Do vyvchennia zhukiv-turuniv (Coleoptera, Carabidae) natsionalnoho pryrodnoho parku «Syniohora». *Proceedings of the scientific-practical conference "Aktualni problemy vyvchennia entomofauny zakhidnoho rehionu Ukrainy"*. Ivano-Frankivsk – Stara Huta, 14-16, June, 2024. Lviv, pp. 49–52. (in Ukrainian)

RYMARCHUK, T., YELTSOV, A., ZHYRAK, R., ROZHNIATOVSKA, V., MRICHKO, N. (2002) Struktura i dynamika entomofauny skhidnykh Horhan i okremykh raioniv Prykarpattia. *Visnyk Prykarpatskoho universytetu imeni Vasylia Stefanyka. Seriia Biolohiia*, 2, 72–95. (in Ukrainian)

SAVCHENKO, Ye.M. (1982) *Komari-limoniidy (pidrodyna eriopteryny) Dovhovusi dvokryli*. Fauna Ukrainy. Fauna Ukrayny, Vol. 14 (3). Naukova dumka, Kyiv. (in Ukrainian)

SAVCHENKO, Ye.N. (1985) *Komaryi-lymonyydy. Podsemeistvo lymonyydyi. Dlynnousyie dvukryilyie*. Fauna Ukrayny. Vol. 14 (4). Naukova dumka, Kyiv. (in Russian)

SAVCHENKO, Ye.N. (1986) *Komaryi-limoniidy (obschaya harakteristika, podsemeystva peditsiinyi i geksatominyi)*. *Dlinnousyie dvukryilyie.* Fauna Ukrainy. Vol. 14 (2). Naukova dumka, Kyiv. (in Russian)

SEREDIUK, H.V. (2016) Sitchastokryli (Insecta, Neuroptera) Ukrainskykh Karpat. *Ukrainskyi entomolohichnyi zhurnal*, 11(1-2), 46–68. (in Ukrainian)

SHARKEY, M.J. (2007) Phylogeny and Classification of Hymenoptera. *Zootaxa*, 1668, 521–548.

SHARKEY, M.J., CARPENTER, J.M., VILHELMSEN, L., HERATY, J., LILJEBLAD, J., DOWLING, A.P.G., SCHULMEISTER, S., MURRAY, D., DEANS, A.R., RONQUIST, F., KROGMANN, L., WHEELER, W.C. (2011) Phylogenetic relationships among superfamilies of Hymenoptera. *Cladistics*, 27, 1–33. https://doi.org/10.1111/j.1096-0031.2011.00366.x

SHPARYK, V.Yu. (2012) Pro lokalizatsiiu mikropopuliatsii ridkisnoho vydu syrfid *Eriozona syrphoides* (Fallen,

1817) (Syrphidae, Diptera, Insecta) na terytorii Ukrainskykh Karpat. *Visnyk Prykarpatskoho natsionalnoho universytetu imeni Vasylia Stefanyka. Seriia Biolohiia*, 16, 8–9. (in Ukrainian)

SHPARYK, V.Yu. (2013) Ohliad mukh-povysiukh rodu *Sphaerophoria* Le Peletier & Serville, 1828 (Diptera, Syrphidae) Ukrainskykh Karpat. *Naukovi zapysky Derzhavnoho pryrodoznavchoho muzeiu*, 29, 167–172. (in Ukrainian)

SHPARYK, V.Yu., SIRENKO, A.H. (2006) Do fauny syrfid (Diptera, Syrphidae) pivnichno-skhidnoi chastyny Ukrainskykh Karpat. *Visnyk Prykarpatskoho natsionalnoho universytetu imeni Vasylia Stefanyka. Seriia Biolohiia*, 6, 71–80. (in Ukrainian)

SHPARYK, V.Yu., SIRENKO, A.H. (2013) Pro znakhidky ridkisnoho vydu syrfid *Eriozona syrphoides* (Diptera, Syrphidae) na terytorii Ukrainskykh Karpat. *Proceedings of the VII International scientific conference "Bioriznomanittia ta rol tvaryn v ekosystemakh". Dnipropetrovsk, Adverta*, pp. 184–185. (in Ukrainian)

SIRENKO, A., TRETIAK, V., LESHCHYSHCHYN, O. (2002) Polimorfizm pryrodnykh populiatsii komakh karpatskoho rehionu. *Visnyk Prykarpatskoho universytetu. Seriia Biolohiia*, 2, 44–71. (in Ukrainian)

SIRENKO, A.H., SHPARYK, V.Yu. (2008) Do pytannia pro kharchovu spetsializatsiiu imaho syrfid (Syrphidae, Diptera, Insecta). *Visnyk Prykarpatskoho natsionalnoho universytetu imeni Vasylia Stefanyka. Seriia Biolohiia*, 12, 81–87. (in Ukrainian)

SIRENKO, A. H., SHPARYK, V.Yu. (2014) *Trofichna spetsializatsiia imaho syrfid v umovakh Ukrainskykh Karpat*. Ivano-Frankivsk, 1–162. (in Ukrainian)

SIRENKO, A.H., ZABRODA, V.V. (2013) *Tenthredinidae (Hymenoptera, Insecta) pivnichnoho makroskhylu Ukrainskykh Karpat i prylehlykh terytorii Lisostepu*. Vydavnytstvo Prykarpatskoho natsionalnoho universytetu imeni Vasylia Stefanyka, Ivano-Frankivsk. (in Ukrainian)

TRETIAK, V., SIRENKO, A. (2006) Porivnialnyi analiz fenohenetychnykh struktur montannykh i rivnynnykh populiatsii vydu *Eristalis tenax* L. na Prykarpatti. *Visnyk Prykarpatskoho universytetu. Seriia Biolohiia*, 6, 114–123. (in Ukrainian)

TSARNENKO, P.N. (1988) *Osobennosty heolohycheskoho stroenyia. Stratyhrafycheskyi ocherk.* In: Ukraynskye Karpaty. Pryroda. Holubets, M.A., Havrusevych, A.N., Zahaikevych, I.K. (Eds.). Naukova dumka, Kyiv, pp. 21–30. (in Russian)

TSYS, P.M. (1962) *Heomorfolohiia URSR*. Vydavnytstvo Lvivskoho universytetu, Lviv. (in Ukrainian)

TURYS, E.V. (2022) Faunistychnyi spysok zhukiv miakotilok (Coleoptera, Cantharidae) Ukrainskykh Karpat. *Scientific Bulletin of Uzhhorod University, Series Biology*, 52, 11–31. (in Ukrainian) https://doi.org/10.24144/1998-6475.2022.52.11-31

VARGA, A. (2012) The genus *Dolichomitus* Smith, 1877 (Hymenoptera: Ichneumonidae: Pimplinae) in the Ukrainian Carpathians, with description of a new species. *Zoologische Mededelingen*, 86(7), 569–578.

VARGA, A. (2013) A review of the subfamily Acaenitinae Förster, 1869 (Hymenoptera, Ichneumonidae) from Ukrainian Carpathians. *Biodiversity Data Journal*, 1, 1–8. https://doi.org/10.3897/BDJ.1.e1008

VARGA, A. (2014a) New data on the genus *Dolichomitus* (Hymenoptera, Ichneumonidae, Pimplinae) in the Ukrainian Carpathians. *Vestnik zoologii*, 48(4), 325–332. https://doi.org/10.2478/vzoo-2014-0039

VARGA, A. (2014b) A review of the subfamily Rhyssinae (Hymenoptera, Ichneumonidae) from the Ukrainian Carpathians. *Vestnik zoologii*, 48(1), 27–34. https://doi.org/10.2478/vzoo-2014-0003

VARGA, A. (2014c) Study of Xoridinae (Hymenoptera, Ichneumonidae) in the Ukrainian Carpathians. Genera *Odontocolon* Cushman and *Ischnoceros* Gravenhorst. *Proceedings of the Russian Entomological Society. St Petersburg*, 85(1), 143–150. https://doi.org/10.47640/1605-7678_2014_85_1_143

VARGA, A. (2014d) A review of the genus *Xorides* Latreille, 1809 (Hymenoptera, Ichneumonidae, Xoridinae) in the Ukrainian Carpathians. *Journal of Insect Biodiversity*, 2(7), 1–9. https://doi.org/10.12976/jib/2014.2.7

VARGA, A. (2015) A review of the subfamily Poemeniinae Narayanan & Lal, 1953 (Hymenoptera, Ichneumonidae) from Carpathians. *Journal of Insect Biodiversity*, 3(7), 1–14. https://doi.org/10.12976/jib/2015.3.7

VARGA, O.O. (2016) *Yizdtsi-pimpliny (Hymenoptera, Ichneumonidae, Pimplinae) Ukrainskykh Karpat*. Manuscript of PhD thesis, 1–26. Available at: http://mail.izan.kiev.ua/disser/Varga/Varga-aref.pdf (in Ukrainian)

VARGA, A. (2017a) A review of the Genus *Exeristes* (Hymenoptera, Ichneumonidae, Pimplinae) from Carpathians, with an Illustrated Key to Western Palaearctic Species. *Vestnik zoologii*, 51(1), 9–14. https://doi.org/10.1515/vzoo-2017-0002

VARGA, A. (2017b) A review of the genus *Rhimphoctona* Förster, 1869 (Hymenoptera: Ichneumo-nidae: Campopleginae) from the Ukrainian Carpathians, with a key to the European species. *Zootaxa*, 4263(2), 387–394. https://doi.org/10.11646/zootaxa.4263.2.12

VARGA, A. (2018a) A review of the Carpathian Ephialtini Parasitoids (Hymenoptera, Ichneumonidae, Pimplinae) associated with spiders. *Vestnik zoologii*, 52(5), 367–378. https://doi.org/10.2478/vzoo-2018-0039

VARGA, A. (2018b) A review of the tribe Pimplini Wesmael, 1845 (Hymenoptera, Ichneumonidae, Pimplinae) from the Carpathians, with new records for Romania and Ukraine. *Turkish Journal of Zoology*, 41, 354–362. https://doi.org/10.3906/zoo-1604-75

VARGA, A. (2018c) A review of the tribe Delomeristini (Hymenoptera, Ichneumonidae, Pimplinae) in the Ukrainian Carpathians. *Vestnik zoologii*, 52(3), 235–240. https://doi.org/10.2478/vzoo-2018-0024

VARGA, A. (2019) Taxonomy and distribution of pimpline parasitoids (Hymenoptera, Ichneumonidae, Pimplinae) in Ukraine. *Zootaxa*, 4693(1), 1–65. https://doi.org/10.11646/zootaxa.4693.1.1

VARGA, A. (2020) The Diplazontinae (Hymenoptera, Ichneumonidae) in the Ukrainian Carpathians.

Zoodiversity, 54(3), 221–236. https://doi.org/10.15407/zoo2020.03.221

VARGA, A. (2023) The genera *Astrenis* Förster, 1869 and *Phrudus* Förster, 1869 (Hymenoptera, Ichneumonidae: Tersilochinae) in the Ukrainian Carpathians. *Zootaxa*, 5315(6), 584–592. https://doi.org/10.11646/zootaxa.5315.6.6

VARGA, A. (2024) Checklist of the Ichneumonidae (Insecta, Hymenoptera) of Ukraine. *Zootaxa*, 5456(1), 1–131. https://doi.org/10.11646/zootaxa.5456.1.1

VARGA, A., KOSTRO-AMBROZIAK, A. (2021) New records of the subfamilies Cylloceriinae and Microleptinae (Hymenoptera, Ichneumonidae) from Eastern Europe. *Zoodiversity*, 55 (6), 485–492. https://doi.org/10.15407/zoo2021.06.485

VARGA, A., RIEDEL, M., DILLER, E. (2020) A pilot study of the Carpathian ichneumonine parasitoids (Hymenopera, Ichneumonidae: Ichneumoninae) reveals eighty-eight new records for Ukraine. *Zootaxa*, 4836(1), 1–89. https://doi.org/10.11646/zootaxa.4836.1.1

VARGA, O.O., SIRENKO, A.H. (2009) Do pytannia pro Ichneumonidae (Hymenoptera) Ukrainskykh Karpat ta prylehlykh terytorii. *Proceedings of V International scientific conference "Zoocenosis–2009. Bioriznomanittia ta rol tvaryn v ekosystemakh".* Dnipropetrovsk, Ukraine, pp. 195–196. (in Ukrainian)

WORLD SPIDER CATALOG (2025) World Spider Catalog. Version 26. Natural History Museum Bern. Available at: http://wsc.nmbe.ch [Accessed on 19.07.2025]. https://doi.org10.24436/2

ZABRODA, V. (2007) To the question of studying the Tenthredinid sawflies in subalpine meadows of the Ukrainian Carpathians. *Visnyk Prykarpatskoho natsionalnoho universytetu imeni Vasylia Stefanyka. Seriia Biolohiia,* 7–8, 98–100. (in Ukrainian)

ZAMOROKA A.M. (2004) Distribution of *Carabus fabricii ucrainicus* (Carabidae, Coleoptera) in the Gorgan mountain range. *Proceedings of the International scientific-practical conference "Problemy pryrodokorystuvannya ta okhorona roslynnoho i tvarynnoho svitu"*. Kryvyi Rih, Ukraine, pp. 27–29. (in Ukrainian)

ZAMOROKA A.M. (2018) The longhorn beetles (Coleoptera: Cerambycidae) of the Eastern Carpathian Mountains in Ukraine. *Munis Entomology & Zoology*, 13(2), 655–691.

ZAMOROKA A.M. (2022) Retro- ta prospektyvy naukovykh doslidzhen u NPP "Syniohora". *Proceedings of the scientific-practical conference "Okhorona pryrody v konteksti enerhetychnoi ta ekolohichnoi bezpeky Ukrainy «Pershi Zymovi chytannia v Synohori».* Stara Huta, 13-14, December, 2022. Ivano-Frankivsk, pp. 23–27. (in Ukrainian)

ZAMOROKA A.M. (2024) Skrypunovi (Coleoptera: Cerambycidae) natsionalnoho pryrodnoho parku «Syniohora»: istoriia doslidzhen i aktualnyi stan piznannia. *Proceedings of the scientific-practical conference "Aktualni problemy vyvchennia entomofauny zakhidnoho rehionu Ukrainy.* Ivano-Frankivsk – Stara Huta, 14-16, June, 2024. Lviv, pp. 26–28. (in Ukrainian)

ZAMOROKAA.M., BIDYCHAK, R.M., GERYAK, Yu.M., GLOTOV, S.V., KAPRUS, I.Ya., KOZORIZ, Yu.H., MARTYNOV, O.V., MYKHAILIUK-ZAMOROKA O.V., PUSHKAR, T.I., RIZUN, V.B., SLOBODIAN, O.M., SMIRNOV, N.A., UTIEVSKYI, S.Yu., SHPARYK, V.Yu. (2017) Rozpovsiudzhennia ridkisnykh vydiv bezkhrebetnykh tvaryn, zanesenykh do Chervonoi knyhy Ukrainy, v Ivano-Frankivskii oblasti. *Ukrainskyi entomolohichnyi zhurnal*, 2(13), 77–94. (in Ukrainian)

ZAMOROKA A.M., ZHYRAK, R.M., PUSHKAR, V.S. (2005) Ridkisni ta znykaiuchi vydy komakh Ivano-Frankivskoi oblasti u kolektsiiakh Studentskoho Naukovoho Entomolohichnoho Tovarystva "Tenaks-17". *In: Ridkisni ta znykaiuchi vydy komakh ta kontseptsii Chervonoi knyhy Ukrainy. Zbirnyk naukovykh prats*. Kyiv, pp. 34–37. (in Ukrainian)

ZHANG, Z.-Q. (2011) Phylum Arthropoda von Siebold, 1848 *In*: *Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness.* Zhang, Z.-Q. (Ed.) *Zootaxa*, 3148, 100–101. https://doi.org/10.11646/zootaxa.3148.1.14

ZHYRAK, R.M. (2004) Doslidzhennia fauny dzhmeliv (Hymenoptera, Apidae, Bombinae) u riznykh pryrodnykh biotopakh na terytorii Ivano-Frankivskoi oblasti. *Naukovi osnovy zberezhennia biotychnoi riznomanitnosti*, 6, 205–209. (in Ukrainian)

ZHYRAK, R.M. (2008) Do pytannia pro faunistyku, khorolohiiu ta ekoloho-biolohichni osoblyvosti dzhmeliv (Hymenoptera, Apidae: Bombus) na terytorii Gorgan (Ukrainski Karpaty). *Visnyk Prykarpatskoho natsionalnoho universytetu imeni Vasylia Stefanyka. Seriia Biolohiia.* 12, 88–91. (in Ukrainian)

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