

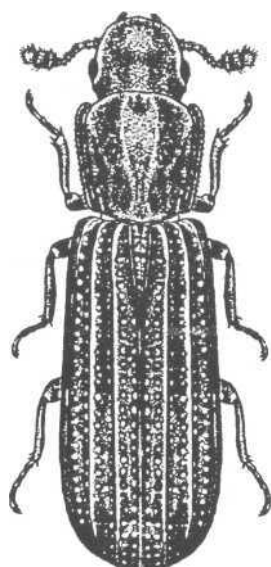
FUND OF FUNDAMENTAL INVESTIGATIONS OF THE
REPUBLIC OF BELARUS

O.P. . . . , . . . , . . . , . . . , . . . , . . . , . . . , . . .

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V.A. Tsinkevitch, S.M. Snitko

(COLEOPTERA, INSECT A)

A CATALOGUE OF COLEOPTERA
(INSECTA) OF BELARUS



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For the first time the check-list of Coleoptera inhabiting the territory of Belarus, comprising 3237 species. The bibliography on fauna and ecology of the beetles containing 1342 sources.

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(. , 1979)
 Geobotanical districts of Belarus (according to I.D. Yurkevich et al, 1979)

- | | | |
|-----|---|--------------------------|
| 1 — | - | Zapadno-Dvinskij |
| 2 — | - | Osmj an sko - Minskij |
| 3 — | - | Orshansko-Mogilevskij |
| 4 — | - | Nemansko-Predpolesskij |
| 5 — | - | Beresinsko-Predpolesskij |
| 6 — | - | Bugsko-Polesskij |
| 7 — | - | Polessko-Pridneprovskij |

Carabidae, Dytiscidae, (, 1992;
 Staphylinidae, Histeridae, Scarabaeidae, , 1995) -
 Coccinellidae, Lathridiidae, Chrysomelidae, 900 -
 Apionidae, Curculionidae. -
 (1905-1913) " -
 " -
 (1871), (1902) -
 ? ?Ulan. -
 " " (Ulanowski, -
 1872) -
 1342 -
 1907 -
 " -
 (1907) -
 (A.A.) -
 (1910) -
 (-) -
 (Wankowich, 1856- (1919 , 1925) -
 1872), -
 V. Putz, (1936,1940,1970, -
 1972) -
 (1871) (-) -
 () -
 (1902). -

*) *Abax ovalis* (Duftschmid, 1812), *Atheta taxiceroides* Munster, 1932, *Philonthus caucasicus* Nordmann, 1837, *Melanotus brunnipes* (Germar, 1824), *Melanotus punctolineatus* (Pelerin, 1829), *Orithales setraticornis* (Paykull, 1800), *Selatosomus latus* (Fabricius, 1801), *Selatosomus melancholicus* (Fabricius, 1798) (?).

(Elateridae) A.B. (1932), (1953,1961) H.H. (1956) . Silfverberg (1992), Burakowski et al. ("Katalog Fauny Polski" (1971-1991) O.L. Kryzhanovskij et al. (1995).

(Apioni- dae, Curculionidae) (1975, 1979), (Carabidae, Elateridae, Scarabaeidae).

(Coccinellidae), CA. (Apionidae, Curculionidae), (Haliplidae, Dytiscidae, Gyrinidae, Hydrophilidae), C.K. (Hydrophilidae, Dytiscidae), (Leiodidae, Cholevidae) (Lathridiidae)

3 : ()

3237 100 () 211 (

INTRODUCTION

In Belarus there are few fundamental monographic researches of insect's fauna, and from the representatives of beetles - the richest species of the group of live organisms - are considered only such families as Carabidae, Dytiscidae, Staphylinidae, Histeridae, Scarabaeidae, Coccinellidae, Lathridiidae, Chrysomelidae, Apionidae, Curculionidae. As a whole the study of beetles had an expressed applied character. Necessity of study of biological diversity in Belarus, part of which are faunistical complexes of beetles, — has resulted in preparation of the given work.

Our own long-term researches of species compositions of beetles in Belarus were executed in parallel with revision of literary data and study of the collections. In total 1342 publications are analysed. Considering the faunistical lists it is established, that in a number of cases the indication of rare species and species, new for the region, are not verified by collection materials.

We have investigated all accessible collection materials, collected on Belarus' territory from the middle of the last (N.M. Arnold) till the beginning of the present century (A.A. Birulja, A.K. Mordvilko, A.N. Kiritchenko), stored in Zoological institute of the Russian Academy of Sciences (ZIN RAS, St.-Petersburg). Also we investigated the collections of M.S. Gilarov and A.L. Tichomorova, stored in Zoological museum of Moscow State University (ZM MSU).

We did not manage to find out collections of W. Wankowich, in the publications of which (1856-1872) new species of beetles from Belarus were described. Under the oral message of V. Putz, these materials are in Paris and Bruxelles, - there, where the publications were left by W. Wankowich. About reliability of the descriptions and collections also speak the materials of modern revisions and the wide use of his descriptions in the scientific literature.

In the extensive work of C.E. Lindeman (, 1871) for vicinities of Gorky (Mogilev region) results of processing of a collection of beetles, collected by E. Ballion in the middle of the last century are indicated. The collection was saved (partially) in Zoological museum of Odessa State University. The majority of species does not cause doubts, as they are re-collected again by N.M. Arnold (, 1902).

The largest collection of N.M. Arnold, presenting beetles of south-east Belarus in the second half of the last century, was well preserved and is in ZIN RAS. We have done its study (, 1992; -

, 1995) and prepared the lists of about 900 species with the modern names and corrections of faulty definitions.

G.G. Jacobson (, 1905-1913) used the data of C.E. Lindeman, N.M. Arnold for Mogilev region and V.I. Bjalinitzky-Birulja and V.A. Plustschevsky-Plusthscik for Vitebsk region, from a collection ZIN RAS. Also G.G. Jacobson used the data of A. Ulanowski (1872) for Polish Inflant, including a lot of Carpathian and West-European species, with the sign ? or ?Ulan. However, there was an article "Faunistical Misunderstanding" (, 1907), in which it is informed, that the collection of A. Ulanowski originates from Volyn and Podolia, and the publication uses faulty label data. G.G. Jacobson advised not to use these data in faunistics and zoogeography.

Collections of I. Roubal (, 1910) from Belovezha Primeval forest were probably saved in Poland, judging by the data from them used till now.

Unfortunately, collection of V.A. Plustschevsky-Plusthscik, the largest researcher of beetles in north Belarus was not saved. His publications (1919-1925) have an applied and popular scientific character, the faunistic lists in them are not present.

The largest reports of the Soviet period of A.I. Radkevitch (, 1936-1972) on beetles of north-west Belarus, are unfortunately not supplied with reliable collection materials. In Zoological museum of Vitebsk University basic collections of beetles are absent. Those that we have managed to find out, are not labeled and are stored together with obviously non-Belarus materials (Caucasus, Crimea, Middle Asia). It compels with large care to use the publications of A.I. Radkevitch, especially when species, far leaving the limits of the areal are specified.

Collection of Elateridae by A. V. Sugak (, 1932), collected in Minsk and Gomel regions was not saved.

Information on beetles in work of A.F. Kipenvarlitz (, 1953, 1961) and N.N. Gorbunova (, 1956) are based on collection, stored in Belarus's research institute of plant protection and labora-

tory of entomology of Institute of Zoology of Academy of Sciences of Belarus (LZ ASB, Minsk). However, their most interesting species are absent. A part of carabid species was found out in collections ZIN RAS with labels "Minsk", without indication of the exact date and collector.

Collection of weevils (Apionidae, Curculionidae) by T.G. Ioannisianni is stored in ZIN RAS, LZ ASB, and Zoological museum of Belarus State University (ZM BSU, Minsk).

The faunistical lists the beetles of pine woods in central Belarus, indicated by G.F. Jarmashevitch (1975, 1979), include among other rare species of Carabidae, Elateridae and Scarabaeidae. It is established, that all data are based on incorrect determinations. A part of species is in general absent. Thus, data of G.F. Jarmashevitch should not be taken into account in faunistic researches.

Collection of materials of S.V. Buga (Coccinellidae), S.A. Matusevitch (Apionidae, Curculionidae), M.D. Moros (Halipilidae, Dytiscidae, Gyrinidae, Hydrophilidae), S.K. Ryndevitch (Hydrophilidae, Dytiscidae), E.E. Perkovsky (Leiodidae, Cholevidae), S.V. Saluk (Lathridiidae) and authors' are stored in ZM BSU (Minsk) and can be, if necessary, specified and complemented.

As to the other works, almost in all cases one of the authors previously conducted determination or reviewing of materials.

On the basis of results of study of collections, materials of the publications and their own data the authors created 3 computer databases: bibliographical, taxonomical and collectional.

On the whole in Belarus are found out 3237 species from 100 families (see the table), yet 211 species are known from the Polish part of Belovezha Primeval forest (designated in the list *). Belovezha Primeval forest is a uniform terrain, it is possible with confidence to assume their presence on Belarus's part, too.

The literary data of *Abax ovalis* (Duftschmid, 1812), *Atheta taxiceroides* Munster, 1932, *Philonthus caucasicus* Nordmann, 1837, *Melanotus brunnipes* (Germar, 1824), *Melanotus punctolineatus* (Pelerin, 1829), *Orithales serraticornis* (Paykull, 1800), *Sela-*

tosomus latus (Fabricius, 1801), *Selatosomus melancholicus* (Fabricius, 1798) are doubtful, collection materials are absent (are designated in the list ?).

For drawing up of the list as a source of the information on taxonomy and nomenclature the data of H. Silfverberg (1992), B. Burakowski et al. (series "Katalog Fauny Polski", 1971-1991) O.L. Kryzhanovskij et al (1995) were used.

For each taxon the modern names are used; synonyms are given only for genera and species, known of Belarus's sources under the old names.

By figures are designated geobotanical districts in Belarus, according to Urkevitch et al (1979) (fig. 1).

The bibliography contains the information on all accessible to authors literary sources, containing information on fauna and ecology of beetles in Belarus.

The appearance of the given book was impossible without participation of many colleagues, whom the authors are sincerely grateful for support, advices and consultations, check of our determinations and determination of unknown to us the species: Dr.Sc. professor O.L. Kryzhanovskij, Dr.Sc. professor G.S. Medvedev, Dr.Sc. A.G. Kirejtchuk, Dr. B.A. Korotjaev, Dr. M.A. Volkovitch, Dr. B.M. Kataev (ZIN RAS), Dr. V.I. Gusarov (St-Petersburg University), Dr. Sc. N.B. Nikitsky, Dr. J.G. Ljubarsky (ZM MSU), Dr. A.B. Ryvkin, Dr. A.V. Kompancev (Institute of Evolutionary Morphology and Ecology Animals, Moscow), Dr. S.A. Kurbatov (Research institute of chemical means of plant protection, Moscow), Dr. Sc. professor V.G. Dolin, Dr. V.K. Odnosum (Institute of Zoology of National Academy of Sciences Ukraine, Kiev), Dr. E.E. Perkovsky (Kiev), Dr. Monsavitchus (Kaunas), Dr. V. Putz (Limnologische Flußstation des Max-Planck-Instituts für Limnologie, Schlitz), Dr. A.V. Konstantinov (Smithsonian Institution, Washington), Dr. S.V. Saluk (Minsk), Dr. A.K. Tyshechkin, Dr. M.V. Maksimenkov (IZ ASB).

The authors will be grateful to the colleagues for their remarks and refinements, which will be used in the subsequent editions.

Taxonomic composition of Belarus' Coleoptera

Familia	Number of species		
1 Rhysodidae Erichson, 1848	1	53 Nitidulidae Latreille, 1802	64
2 Carabidae Latreille, 1802	309	54 Sphindidae Jacquelin du Val, 1860	2
3 Haliplidae Brulle, 1835	13	55 Rhizophagidae Redtenbacher, 1845	13
4 Noteridae Thomson, 1860	2	56 Monotomidae Laporte de Castelnau, 1840	6
5 Dytiscidae Leach, 1815	109	57 Cucujidae Latreille, 1802	20
6 Gyrinidae Latreille, 1810	11	58 Cryptophagidae Kirby, 1837	53
7 Microsporidae Reichardt, 1976	1	59 Erotylidae Latreille, 1802	11
8 Hydrophilidae Latreille, 1802	75	60 Phalacridae Leach, 1815	9
9 Hydraenidae Mulsant, 1844	6	61 Cerylonidae Billberg, 1820	6
10 Ptiliidae Heer, 1843	20	62 Bothrideridae Erichson, 1845	2
11 Leiodidae Fleming, 1821	29	63 Endomychidae Leach, 1815	4
12 Silphidae Latreille, 1807	21	64 Coccinellidae Latreille, 1807	56
13 Cholevidae Kirby, 1837	25	65 Corylophidae LeConte, 1852	8
14 Colonidae Horn, 1880 (1859)	3	66 Lathridiidae Redtenbacher, 1845	48
15 Platypsyllidae Ritsema, 1869	2	67 Biphylidae Sharp, 1900 1861)	2
16 Scydmaenidae Leach, 1815	16	68 Byturidae Thomson, 1859	2
17 Staphylinidae Latreille, 1802	650	69 Cisidae Leach, 1819	30
18 Pselaphidae Latreille, 1802	24	70 Colydiidae Erichson, 1845	9
19 Sphaeritidae Shukard, 1839	1	71 Mycetophagidae Leach, 1815	12
20 Histeridae Gyllenhal, 1808	61	72 Prostomidae Thomson, 1859	1
21 Clambidae Fischer von Waldheim, 1821	4	73 Oedemeridae Latreille, 1810	14
22 Eucinetidae Lacordaire, 1857	1	74 Pythidae Solier, 1834	2
23 Scirtidae Fleming, 1821	15	75 Pyrochroidae Latreille, 1807	2
24 Dascillidae Lacordaire, 1857 (1836)	1	76 Boridae Thomson, 1859	1
25 Trogidae MacLeay, 1819	2	77 Salpingidae Leach, 1815	7
26 Scarabaeidae Latreille, 1802	98	78 Aderidae Winkler, 1927	5
27 Lucanidae Latreille, 1806	6	79 Anthicidae Lacordaire, 1825	8
28 Elmidae Westwood, 1838	3	80 Meloidae Gyllenhal, 1810	8
29 Dryopidae Fleming, 1821	4	81 Stenotrachelidae Thomson, 1859	1
30 Limnichidae Erichson, 1846	3	82 Tenebrionidae Latreille, 1802	52
31 Heteroceridae MacLeay, 1825	6	83 Lagriidae Latreille, 1825 (1820)	1
32 Lycidae Laporte de Castelnau, 1840	7	84 Cononotidae LeConte, 1862	1
33 Lampyridae Fleming, 1821	2	85 Scaptiidae Mulsant, 1856	1
34 Cantharidae Imhoff, 1856 (815)	37	86 Anaspididae Mulsant, 1856	7
35 Elateridae Leach, 1815	83	87 Mordellidae Latreille, 1802	20
36 Eucnemidae Eschscholtz, 1829	9	88 Rhipiphoridae Laporte de Castelnau, 1840	1
37 Lissomidae Laporte de Castelnau, 1840	1	89 Tetratomidae Bilberg, 1820	1
38 Throscidae Laporte de Castelnau, 1840	4	90 Melandryidae Leach, 1815	23
39 Buprestidae Leach, 1815	47	91 Cerambycidae Latreille, 1802	151
40 Byrrhidae Latreille, 1806	12	92 Chrysomelidae Latreille, 1802	306
41 Nosodendridae Erichson, 1846	1	93 Bruchidae Latreille, 1802	12
42 Dermestidae Latreille, 1807	22	94 Anthribidae Billberg, 1820	6
43 Lyctidae Billberg, 1820	2	95 Nemonychidae Bedel, 1883	1
44 Bostrichidae Latreille, 1802	4	96 Atellabidae Billberg, 1820	13
45 Anobiidae Kirby, 1837	31	97 Apionidae Schonherr, 1823	94
46 Ptinidae Latreille, 1802	10	98 Curculionidae Latreille, 1802	438
47 Lymexylidae Fleming, 1821	3	99 Scolytidae Latreille, 1807	74
48 Trogossitidae Latreille, 1802	8	100 Platypodidae Shuckard, 1840	1
49 Cleridae Latreille, 1802	8		
50 Melyridae Leach, 1815	8		
51 Malachiidae Fleming, 1821	12		
52 Kateretidae Erichson, 1843	7		

ADEPHAGA			
Rhysodidae Erichson, 1848			
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<i>sulcatus</i> (Fabricius, 1787)	4		
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Cicindelinae Latreille, 1802			
Cicindelitae Latreille, 1802			
Cicindelini Latreille, 1802			
Cicindela Latreille, 1802			
<i>Cicindela</i> Linnaeus, 1758			
<i>arenaria viennensis</i> Schrank, 1781	56		
<i>campestris</i> Linnaeus, 1758	12345		
<i>germanica</i> Linnaeus, 1758	23 6		
<i>hybrida</i> Linnaeus, 1758	1234567		
<i>maritima</i> Latreille et Dejean, 1822	1 4567		
<i>sylvatica</i> Linnaeus, 1758	1234567		
Omophroninae Rousseau, 1802			
Omophronini Bonelli, 1810			
<i>Omophron</i> Latreille, 1802			
<i>limbatum</i> (Fabricius, 1777)	1234567		
Carabinae Latreille, 1802			
Nebriitae			
Nebriini Laporte de Castelnau, 1834			
<i>Pelophila</i> Dejean, 1821			
<i>borealis</i> (Paykull, 1790)	1		
<i>Leistus</i> Frölich, 1799			
<i>ferrugineus</i> (Linnaeus, 1758)	1234567		
<i>piceus</i> Frölich, 1799	1 4		
<i>rufescens</i> (Fabricius, 1775)	1234567		
<i>terminatus</i> Panzer, 1793			
<i>Nebria</i> Latreille, 1802			
<i>brevicollis</i> (Fabricius, 1792)	2 4 7		
<i>livida</i> (Linnaeus, 1758)	1234567		
<i>rufescens</i> (Ström, 1768)	1 3		
<i>gyllenhali</i> Schönherr, 1806			
Notiophilidae			
Notiophilini Motschulsky, 1850			
<i>Notiophilus</i> Duméril, 1806			
<i>aquaticus</i> (Linnaeus, 1758)	1234567		
<i>biguttatus</i> (Fabricius, 1779)	1234567		
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<i>reticulatus</i> (Fabricius, 1787)	4		
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<i>arvensis</i> Herbst, 1784	1234567		
<i>cancellatus</i> Illiger, 1798	1234567		
<i>clathratus</i> Linnaeus, 1761	1234567		
<i>convexus</i> Fabricius, 1775	12 4		
<i>coriaceus</i> Linnaeus, 1758	1234567		
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<i>granulatus</i> Linnaeus, 1758	1234567		
<i>hortensis</i> Linnaeus, 1758	1234567		
<i>intricatus</i> Linnaeus, 1761	1 4		
<i>marginalis</i> Fabricius, 1794	3 7		
<i>menetriesi</i> Hummel, 1827	12 4 6		
<i>nemorialis</i> Müller, 1764	12 4 7		
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<i>violaceus wolffi</i> Dejean, 1826	1234567		
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<i>Cychnus</i> Fabricius, 1794			
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<i>multipunctata</i> (Linnaeus, 1758)	1234567		
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<i>angusticollis</i> F.Sahlberg, 1844	123 6		
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<i>nitidus</i> Dejean, 1825	1234567		

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azurescens (Dalla Torre, 1877) 1234567
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