

Daniel KUBISZ, Dariusz IWAN, Piotr TYKARSKI

**Tenebrionoidea:  
Mycetophagidae, Ciidae, Mordellidae,  
Zopheridae, Meloidae, Pyrochroidae,  
Salpingidae, Anthicidae**

Critical checklist, distribution in Poland and meta-analysis







# COLEOPTERA POLONIAE

## 3

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# Tenebrionoidea: Mycetophagidae, Ciidae, Mordellidae, Zopheridae, Meloidae, Pyrochroidae, Salpingidae, Anthicidae

Critical checklist, distribution in Poland and meta-analysis

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## Abstract

The book catalogues distribution data on occurrence of families of Tenebrionoidea. Having reviewed available distribution data, we consider 170 species to be present in Poland: Mycetophagidae (14), Ciidae (43), Mordellidae (52), Zopheridae (15), Meloidae (12), Pyrochroidae (3), Salpingidae (13), Anthicidae (18). *Conalia baudii* MULSANT et REY, 1858 (Mordellidae) was recorded from Poland for the first time. 48 species were considered doubtful due to misidentifications or a long-term lack of new occurrences. Data on distribution of the confirmed taxa cover source references, localities, UTM 10×10 km grid coordinates, dates and collections that hold specimen, accompanied by distribution maps generalized to the UTM grid. A separate chapter gives an overview of Palaearctic distribution of all the discussed taxa, including subspecies when applicable. Detailed taxonomic checklist of the covered groups including synonymy is also provided. The distribution catalogue part is followed by the meta-analysis built upon a database covering all the presented information. A number of analytical and generalization techniques was used, giving synthetic views on research intensity and some other parameters at the species and family level. The publication follows the former volume of the Coleoptera Poloniae series, extending traditional faunistics by links to the database which is available online through the Biodiversity Map and Coleoptera Poloniae websites, served by the Polish Biodiversity Information Network (KSIB).

## Key words

Coleoptera, Tenebrionoidea, Mycetophagidae, Ciidae, Mordellidae, Zopheridae, Meloidae, Pyrochroidae, Salpingidae, Anthicidae, biodiversity, faunistics, zoogeography, distribution, meta-analysis, checklist, museum collections, Poland.



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## TAXONOMY AND SPECIES CHECKLIST

(–) species of not confirmed or doubtful presence in Poland

Family **MYCETOPHAGIDAE** LEACH, 1815

Subfamily **MYCETOPHAGINAE** LEACH, 1815

Tribe **MYCETOPHAGINI** LEACH, 1815

Genus ***Litargus*** ERICHSON, 1846

Subgenus ***Alitargus*** CASEY, 1900

***Litargus balteatus*** LECONTE, 1856

*Litargus infulatus* LECONTE, 1856

*Litargus transversus* LECONTE, 1856

*Litargus pilosus* WOLLASTON, 1857

*Litargus disjunctus* SHARP, 1902

*Litargus ferrantei* REITTER, 1908

*Litargus antennatus* MIYATAKE, 1957

Genus ***Litargus*** ERICHSON, 1846

Subgenus ***Litargus*** ERICHSON, 1846

***Litargus connexus*** (GEOFFROY, 1785)

*Antribus connexus* GEOFFROY, 1785

*Ips bifasciata* FABRICIUS, 1787

*Ips lunata* FABRICIUS, 1792

*Mycetophagus signatus* PANZER, 1798

*Litargus mediojunctus* PIC, 1903

Genus ***Mycetophagus*** FABRICIUS, 1792

Subgenus ***Ilendus*** CASEY, 1900

***Mycetophagus multipunctatus*** FABRICIUS, 1792

*Boletaria similis* MARSHAM, 1802

*Mycetophagus sulcatulus* ROUBAL, 1929



Subgenus ***Mycetophagus*** FABRICIUS, 1792

*Silphoides* HERBST, 1783

*Boletaria* MARSHAM, 1802

***Mycetophagus ater*** (REITTER, 1879)

*Trientoma atra* REITTER, 1879

*Tritoma jaroslawensis* SEMENOV, 1898

***Mycetophagus quadripustulatus*** (LINNAEUS, 1760)

*Chrysomela quadripustulata* LINNAEUS, 1760

*Tritoma antemacularis* DALLA TORRE, 1879

*Silpha quadrimaculata* SCHALLER, 1783

*Silphoides boleti* HERBST, 1784

*Tritoma bipustulata* SCHILSKY, 1888

*Tritoma impustulata* SCHILSKY, 1888

*Tritoma ruficollis* SCHILSKY, 1888

*Mycetophagus winteri* REITTER, 1911

Subgenus ***Mycetoxides*** MOTSCHULSKY, 1858

*Calilendus* REITTER, 1911

***Mycetophagus fulvicollis*** FABRICIUS, 1792

*Tritoma deubeli* MÉHELY, 1890

*Mycetophagus sexmaculatus* RAGUSA, 1892

*Mycetophagus massanae* DAJOZ, 1960

Subgenus ***Parilendus*** CASEY, 1900

***Mycetophagus quadriguttatus*** PH.W. J. MÜLLER, 1821

*Mycetophagus pubescens* STEPHENS, 1830

*Mycetophagus variegatus* C. R. SAHLBERG, 1837

*Mycetophagus bipustulatus* MELSHEIMER, 1844

*Mycetophagus disjunctemaculatus* ROUBAL, 1936

Subgenus ***Philomyces*** GANGLBAUER, 1899

***Mycetophagus populi*** FABRICIUS, 1798

Subgenus ***Ulolendus*** REITTER, 1911

***Mycetophagus atomarius*** (FABRICIUS, 1787)

*Ips atomarius* FABRICIUS, 1787

***Mycetophagus decempunctatus decempunctatus***

FABRICIUS, 1801

*Mycetophagus decempunctatus* FABRICIUS, 1801

*Mycetophagus rossicus* SEMENOV, 1898

***Mycetophagus piceus* (FABRICIUS, 1777)**

- Ips picea* FABRICIUS, 1777  
*Mycetophagus variabilis* HELLWIG, 1792  
*Mycetophagus brunneus* PANZER, 1798  
*Mycetophagus lunaris* FABRICIUS, 1801  
*Boletaria undulata* MARSHAM, 1802  
*Boletaria varia* MARSHAM, 1802  
*Mycetophagus histrio* C. R. SAHLBERG, 1837  
*Mycetophagus salicis* C. BRISOUT DE BARNEVILLE, 1862  
*Tritoma humeralis* SCHILSKY, 1888  
*Tritoma punctulata* SCHILSKY, 1888  
*Mycetophagus feliciae* RAGUSA, 1892  
*Mycetophagus bosnicus* APFELBECK, 1911  
*Mycetophagus decipiens* APFELBECK, 1911  
*Mycetophagus flavotinctus* ROUBAL, 1931  
*Mycetophagus hungaricus* PAPP, 1946

Genus ***Pseudotriphyllus*** REITTER, 1880(–) ***Pseudotriphyllus suturalis*** (FABRICIUS, 1801)

- Dermestes suturalis* FABRICIUS, 1801

Genus ***Triphyllus*** DEJEAN, 1821***Triphyllus bicolor*** (FABRICIUS, 1777)

- Kryptophagus pilosus* HERBST, 1792  
*Mycetophagus punctatus* FABRICIUS, 1792  
*Nitidula bicolor* FABRICIUS, 1792  
*Silpha humeralis* MARSHAM, 1802  
*Triphyllus immaculatus* ROUBAL, 1936

Tribe **TYPHAEINI** NIKITSKY, 1993Genus ***Typhaea*** STEPHENS, 1829***Typhaea haagi*** REITTER, 1874

- Typhaea decipiens* LOHSE, 1989

***Typhaea stercorea*** (LINNAEUS, 1758)

- Dermestes stercoreus* LINNAEUS, 1758  
*Dermestes fumatus* LINNAEUS, 1767  
*Dermestes variabilis* HERBST, 1792  
*Mycetophagus testaceus* FABRICIUS, 1792  
*Typhaea tomentosa* STEPHENS, 1830  
*Atomaria crenata* MELSHEIMER, 1844  
*Typhaea obscura* KRAUSS, 1911



Subfamily **BERGININAE** LENG, 1920

Genus *Berginus* ERICHSON, 1846

(–) *Berginus tamarisci* WOLLASTON, 1854

Family **CIIDAE** LEACH, 1819

Subfamily **CIINAE** LEACH, 1819

Genus *Cis* LATREILLE, 1796

*Eridaulus* C. G. THOMSON, 1859

*Cisdygma* REITTER, 1885

*Macrocis* REITTER, 1878

*Xestocis* CASEY, 1898

*Dimerocis* PEYERIMHOFF, 1919

***Cis bidentatus*** (OLIVIER, 1790)

*Anobium bidentatum* OLIVIER, 1790

*Pinus inermis* MARSHAM, 1802

***Cis boleti*** (SCOPOLI, 1763)

*Dermestes boleti* SCOPOLI, 1763

*Dermestes picipes* FABRICIUS, 1787

*Pinus boletorus* MARSHAM, 1802

*Cis minor* MELLIÉ, 1848

*Cis obliterates* MELLIÉ, 1848

*Cis substriatus* MELLIÉ, 1848

*Cis pruinosus* MOTSCHULSKY, 1861

*Cis latior* PIC, 1934

*Cis armicollis* ROUBAL, 1937

***Cis castaneus*** (HERBST, 1793)

*Kateretes castaneus* HERBST, 1793

*Cis nitidus* sensu auctorum, nec FABRICIUS, 1792

***Cis comptus*** GYLLENHAL, 1827

*Cis cognatus* REY, 1892

*Cis substriatus* MÜNSTER, 1927

***Cis dentatus*** MELLIÉ, 1848

*Cis microgonus* C. G. THOMSON, 1868

***Cis fagi*** WALTZ, 1839

*Cis fuscatus* MELLIÉ, 1848

***Cis festivus*** (PANZER, 1793)

*Anobium festivum* PANZER, 1793

***Cis fissicollis*** MELLIÉ, 1848

***Cis fissicornis* MELLIÉ, 1848***Cis germanicus* ABEILLE DE PERRIN, 1874*Cis sublaminatus* WAŃKOWICZ, 1869***Cis fusciclavis* NYHOLM, 1953***Cis castaneus* MELLIÉ, 1848***Cis glabratus* MELLIÉ, 1848*****Cis hanseni* A. STRAND, 1965*****Cis jacquemartii* MELLIÉ, 1848*****Cis laminatus* MELLIÉ, 1848*****Cis lineatocribratus* MELLIÉ, 1848***Cis matchanus* REITTER, 1915***Cis micans* (FABRICIUS, 1792)***Anobium micans* FABRICIUS, 1792*Anobium hispidum* PAYKULL, 1798*Ptinus ruficornis* MARSHAM, 1802*Cis nitidicollis* ABEILLE DE PERRIN, 1874*Cis albohispidulus* REITTER, 1901*Cis savilli* DONISTHORPE, 1936***Cis punctulatus* GYLLENHAL, 1827*****Cis pygmaeus pygmaeus* (MARSHAM, 1802)***Ptinus pygmaeus* MARSHAM, 1802*Ptinus nigricornis* MARSHAM, 1802*Ptinus rhododactylus* MARSHAM, 1802*Cis oblongus* MELLIÉ, 1848*Cis pandellei* ABEILLE DE PERRIN, 1874***Cis quadridens* MELLIÉ, 1848*****Cis rugulosus* MELLIÉ, 1848***Cis pyrrhocephalus* MELLIÉ, 1848*Cis rubiginosus* MELLIÉ, 1848***Cis striatulus* MELLIÉ, 1848***Cis flavipes* LUCAS, 1849*Cis peyronis* ABEILLE DE PERRIN, 1874***Cis submicans* ABEILLE DE PERRIN, 1874***Cis micans* sensu auctorum, nec FABRICIUS, 1792***Cis vestitus* MELLIÉ, 1848**

***Cis villosulus*** (MARSHAM, 1802)

- Pinus villosulus* MARSHAM, 1802
- Pinus pyrrocephalus* MARSHAM, 1802
- Cis flavus* STEPHENS, 1830
- Cis setiger* MELLIÉ, 1848
- Cis striatulus* MELLIÉ, 1848
- Cis plagiatus* C. G. THOMSON, 1863
- Cis petropolitanus* JAKOBSON, 1896
- Cis quadricollis* SCHILSKY, 1900

Genus ***Diphyllocis*** REITTER, 1885

(–) ***Diphyllocis opaculus*** (REITTER, 1878)

- Ennearthron opaculum* REITTER, 1878

Genus ***Dolichocis*** DURY, 1919

***Dolichocis laricinus*** (MELLIÉ, 1849)

- Cis laricinus* MELLIÉ, 1849

Genus ***Ennearthron*** MELLIÉ, 1847

***Ennearthron cornutum*** (GYLLENHAL, 1827)

- Cis cornutus* GYLLENHAL, 1827
- Pinus concinnus* MARSHAM, 1802

***Ennearthron palmi*** LOHSE, 1966

***Ennearthron pruinosulum*** (PERRIS, 1864)

Genus ***Hadraule*** C. G. THOMSON, 1859

- Knablia* ROUBAL, 1936
- Maphoca* CASEY, 1900
- Pityocis* PEYERIMHOFF, 1918

***Hadraule elongatula*** (GYLLENHAL, 1827)

- Cis elongatulus* GYLLENHAL, 1827
- Ennearthron striatum* J. R. SAHLBERG, 1901
- Pityocis coarctata* PEYERIMHOFF, 1918

Genus ***Octotemnus*** MELLIÉ, 1847

- Orophius* L. REDTENBACHER, 1847

***Octotemnus glabriculus*** (GYLLENHAL, 1827)

- Cis glabriculus* GYLLENHAL, 1827

***Octotemnus mandibularis*** (GYLLENHAL, 1813)

- Cis mandibularis* GYLLENHAL, 1813
- Cis inaequidens* CHEVROLAT, 1835

Genus ***Orthocis*** CASEY, 1898*Mellieicis* LOHSE, 1964***Orthocis alni*** (GYLLENHAL, 1813)*Cis alni* GYLLENHAL, 1813*Cis betulae* ZETTERSTEDT, 1828*Cis recticollis* ABEILLE DE PERRIN, 1874*Orthocis mitfordi* DONISTHORPE, 1916***Orthocis linearis*** (J. R. SAHLBERG, 1901)*Cis linearis* J. R. SAHLBERG, 1901***Orthocis lucasi*** (ABEILLE DE PERRIN, 1874)*Cis lucasi* ABEILLE DE PERRIN, 1874*Cis punctulatus* LUCAS, 1849*Cis reflexicollis* ABEILLE DE PERRIN, 1874***Orthocis pseudolinearis*** (LOHSE, 1965)*Cis pseudolinearis* LOHSE, 1965Genus ***Ropalodontus*** MELLIÉ, 1847*Rhopalodontus* GAUBIL, 1849*Cedrinus* ABEILLE DE PERRIN, 1876***Ropalodontus baudueri*** (ABEILLE DE PERRIN, 1874)*Rhopalodontus baudueri* ABEILLE DE PERRIN, 1874***Ropalodontus perforatus*** (GYLLENHAL, 1813)*Cis perforatus* GYLLENHAL, 1813***Ropalodontus strandi*** LOHSE, 1969Genus ***Strigocis*** DURY, 1917(–) ***Strigocis bicornis*** (MELLIÉ, 1848)*Cis bicornis* MELLIÉ, 1848Genus ***Sulcacis*** DURY, 1917*Entypocis* LOHSE, 1964*Entypus* L. REDTENBACHER, 1847***Sulcacis bidentulus*** (ROSENHAUER, 1847)*Cis bidentulus* ROSENHAUER, 1847*Cis alpinus* MELLIÉ, 1848***Sulcacis fronticornis*** (PANZER, 1805)*Apate fronticornis* PANZER, 1805***Sulcacis nitidus*** (FABRICIUS, 1792)*Anobium nitidum* FABRICIUS, 1792*Cis affinis* GYLLENHAL, 1827

Genus ***Wagaicis*** LOHSE, 1964

***Wagaicis wagaie*** (WAŃKOWICZ, 1869)

*Ennearthron wagaie* WAŃKOWICZ, 1869

Genus ***Xylographus*** MELLIÉ, 1847

***Xylographus bostrichoides*** (DUFOUR, 1843)

*Cis bostrichoides* DUFOUR, 1843

*Xylographus aubei* MELLIÉ, 1848

*Cis cribratus* LUCAS, 1849

Family **MORDELLIDAE** LATREILLE, 1802

Subfamily **MORDELLINAE** LATREILLE, 1802

Tribe **CONALIINI** ERMISCH, 1956

Genus ***Conalia*** MULSANT et REY, 1858

***Conalia baudii*** MULSANT et REY, 1858

Genus ***Curtimorda*** MÉQUIGNON, 1946

***Curtimorda bisignata*** (L. REDTENBACHER, 1849)

*Mordella bisignata* L. REDTENBACHER, 1849

*Mordella albosignata* MULSANT, 1856

***Curtimorda maculosa*** (NAEZÉN, 1794)

*Mordella maculosa* NAEZÉN, 1794

*Mordella guttata* PAYKULL, 1798

*Mordella atomaria* FABRICIUS, 1801

*Mordella irrorata* TROST, 1801

*Mordella guttatipennis* PIC, 1927

Genus ***Hoshihananomia*** KÔNO, 1935

*Machairorophora* FRANCISCOLO, 1943

***Hoshihananomia perlata*** (SULZER, 1776)

*Mordella perlata* SULZER, 1776

*Mordella sexpunctata* HERBST, 1784

*Mordella octopunctata* SCHRANK VON PAULA, 1786

*Mordella duodecimpunctata* ROSSI, 1790

*Mordella multipunctata* TROST, 1801

*Tomoxia laticornis* STCHEGOLEVA-BAROVSKAYA, 1927

Genus ***Mediimorda*** MÉQUIGNON, 1946

(–) ***Mediimorda bipunctata*** (GERMAR, 1824)

*Mordella bipunctata* GERMAR, 1824



Genus ***Mordella*** LINNAEUS, 1758***Mordella aculeata*** LINNAEUS, 1758

*Mordella aculeata* LINNAEUS, 1758  
*Mordella communis* MATSUMURA, 1915

***Mordella brachyura brachyura*** MULSANT, 1856

*Mordella brachyura* MULSANT, 1856  
*Mordella brevicauda* A. COSTA, 1854  
*Mordella brunneicornis* SCHILSKY, 1895  
*Mordella fleischeri* EMERY, 1876

***Mordella holomelaena holomelaena*** APFELBECK, 1914(–) ***Mordella huetheri*** ERIMISCH, 1956***Mordella leucaspis leucaspis*** KÜSTER, 1849

*Mordella leucaspis* KÜSTER, 1849  
*Mordella persica* APFELBECK, 1914  
*Mordella adnexa* ERMISCH, 1969

***Mordella viridescens*** A. COSTA, 1854Genus ***Mordellaria*** ERMISCH, 1950***Mordellaria aurofasciata*** (COMOLLI, 1837)

*Mordella aurofasciata* COMOLLI, 1837  
*Mordella vittata* GEMMINGER, 1851  
*Mordella sacheri* FRIVALDSZKY, 1865  
*Mordella conjuncta* SCHILSKY, 1895

Genus ***Tomoxia*** A. COSTA, 1854***Tomoxia bucephala bucephala*** A. COSTA, 1854

*Tomoxia bucephala* A. COSTA, 1854  
*Mordella biguttata* GYLLENHAL, 1827  
*Mordella fasciata* PAYKULL, 1800

Genus ***Variimorda*** MÉQUIGNON, 1946Subgenus ***Variimorda*** MÉQUIGNON, 1946

*Sulcatimorda* MÉQUIGNON, 1946

***Variimorda basalis*** (A. COSTA, 1854)

*Mordella basalis* A. COSTA, 1854  
*Mordella pseudobrachyura* FRANCISCOLO, 1949

***Variimorda briantea*** (COMOLLI, 1837)

*Mordella briantea* COMOLLI, 1837

***Variimorda mendax* MÉQUIGNON, 1946**

*Variimorda chobauti* MÉQUIGNON, 1946

*Variimorda devillei* MÉQUIGNON, 1946

***Variimorda villosa* (SCHRANK VON PAULA, 1781)**

*Mordella villosa* SCHRANK VON PAULA, 1781

*Mordella fasciata* FABRICIUS, 1775

*Mordella fasciolata* ROSSI, 1792

*Mordella coronata* A. COSTA, 1854

*Mordella interrupta* A. COSTA, 1854

*Mordella seriatoguttata* MULSANT, 1856

*Mordella subcoeca* MULSANT, 1856

*Mordella habelmanni* EMERY, 1876

*Mordella conjuncta* STCHEGOLEVA-BAROVSKAYA, 1931

*Mordella nigricornis* STCHEGOLEVA-BAROVSKAYA, 1931

*Mordella nigrosuturalis* STCHEGOLEVA-BAROVSKAYA, 1931

*Mordella ruficornis* STCHEGOLEVA-BAROVSKAYA, 1931

*Mordella subbasalis* STCHEGOLEVA-BAROVSKAYA, 1931

Tribe **MORDELLISTENINI** ERMISCH, 1941

Genus ***Mordellistena*** A. COSTA, 1854

Subgenus ***Mordellistena*** A. COSTA, 1854

*Natirica* A. COSTA, 1854

***Mordellistena austriaca*** SCHILSKY, 1899

*Mordellistena micantoides* ERMISCH, 1954

***Mordellistena bicoloripilosa*** ERMISCH, 1967

***Mordellistena breddini*** ERMISCH, 1963

***Mordellistena brevicauda*** (BOHEMAN, 1849)

*Mordella brevicauda* BOHEMAN, 1849

*Mordellistena subtruncata* MULSANT, 1856

*Mordellistena obtusa* BRISOUT, 1859

*Mordellistena brevicornis* SCHILSKY, 1895

***Mordellistena brunneospinosa*** ERMISCH, 1963

(–) ***Mordellistena confinis*** A. COSTA, 1854

*Mordellistena africana* ROUBAL, 1911

***Mordellistena connata*** ERMISCH, 1969

***Mordellistena dieckmanni*** ERMISCH, 1963

***Mordellistena dvoraki*** ERMISCH, 1956

- (–) ***Mordellistena episternalis*** MULSANT, 1856  
*Mordella extensa* ROSENHAUER, 1856  
***Mordellistena falsoparvula*** ERMISCH, 1956
- (–) ***Mordellistena feigei*** ERMISCH, 1956  
***Mordellistena helvetica*** ERMISCH, 1967  
***Mordellistena humeralis*** (FABRICIUS, 1758)  
*Mordella humeralis* FABRICIUS, 1758  
*Mordellistena nigricollis* SCHILSKY, 1895
- (–) ***Mordellistena inaequalis*** MULSANT, 1856  
***Mordellistena koelleri*** ERMISCH, 1956  
***Mordellistena kraatzi kraatzi*** EMERY, 1876  
*Mordellistena kraatzi* EMERY, 1876  
***Mordellistena luteipalpis*** SCHILSKY, 1895  
*Mordellistena perparvula* ERMISCH, 1966  
***Mordellistena neuwaldeggiana*** (PANZER, 1796)  
*Mordella neuwaldeggiana* PANZER, 1796  
*Mordella brunnea* FABRICIUS, 1801  
*Mordella ferruginea* MARSHAM, 1802  
*Nattirica meridionalis* A. COSTA, 1854  
***Mordellistena parvula*** (GYLLENHAL, 1827)  
*Mordella parvula* GYLLENHAL, 1827  
*Mordella troglodytes* MANNERHEIM, 1844  
*Mordella pusilla* L. REDTENBACHER, 1849  
*Mordellistena liliputana* MULSANT, 1856  
*Mordellistena rectangular* ROUBAL, 1911
- (–) ***Mordellistena pentas*** MULSANT, 1856  
***Mordellistena perroudi*** MULSANT, 1856  
***Mordellistena pseudobrevicauda*** ERMISCH, 1963  
***Mordellistena pseudoparvula*** ERMISCH, 1956  
*Mordellistena parvuloides* ERMISCH, 1956  
*Mordellistena eludens* ALLEN, 1999  
***Mordellistena pseudopumila*** ERMISCH, 1963  
***Mordellistena pumila*** (GYLLENHAL, 1810)  
*Mordella pumila* GYLLENHAL, 1810  
*Mordellistena stricta* A. COSTA, 1854  
*Mordellistena deficiens* MULSANT, 1856  
*Mordella elongata* KRAATZ, 1868

***Mordellistena purpureonigrans*** ERMISCH, 1963

***Mordellistena pygmaeola*** ERMISCH, 1956

***Mordellistena rufifrons*** SCHILSKY, 1894

***Mordellistena saxonica*** ERMISCH, 1967

***Mordellistena secreta*** HORÁK, 1983

(–) ***Mordellistena stenidea*** MULSANT, 1856

*Mordellistena flexipes* REY, 1857

***Mordellistena stoeckleini*** ERMISCH, 1956

***Mordellistena thurepalmi*** ERMISCH, 1965

*Mordellistena palmi* ERMISCH, 1963

***Mordellistena thuringiaca*** ERMISCH, 1963

***Mordellistena variegata*** (FABRICIUS, 1798)

*Mordella lateralis* A. G. OLIVIER, 1795

*Mordella variegata* FABRICIUS, 1798

*Mordella bicolor* MARSHAM, 1802

***Mordellistena weisei*** SCHILSKY, 1895

Subgenus ***Pseudomordellina*** ERMISCH, 1952

***Mordellistena acuticollis*** SCHILSKY, 1895

*Mordellistena imitatrix* ALLEN, 1995

(–) ***Mordellistena nanula*** ERMISCH, 1967

***Mordellistena pseudonana*** ERMISCH, 1956

Genus ***Mordellistenula*** STCHEGOLEVA-BAROVSKAYA, 1930

***Mordellistenula perrisi*** (MULSANT, 1857)

*Mordellistena perrisi* MULSANT, 1857

*Mordellistena rectangula* C. G. THOMSON, 1868

*Mordellistena engelharti* SCHILSKY, 1910

Genus ***Mordellochroa*** EMERY, 1876

***Mordellochroa abdominalis*** (FABRICIUS, 1775)

*Mordella abdominalis* FABRICIUS, 1775

*Mordella bicolor* SULZER, 1776

*Mordella ventralis* FABRICIUS, 1792

*Mordella nigra* MARSHAM, 1802

***Mordellochroa milleri*** (EMERY, 1876)*Mordellistena milleri* EMERY, 1876***Mordellochroa tournieri*** (EMERY, 1876)*Mordellistena tournieri* EMERY, 1876*Mordellistena graeca* SCHILSKY, 1895*Mordellistena schusteri* SCHILSKY, 1895*Mordellistena similis* STCHEGOLEVA-BAROVSKAYA, 1930Genus ***Tolida*** MULSANT, 1856(–) ***Tolida artemisiae*** (MULSANT, 1856)*Mordellistena artemisiae* MULSANT, 1856Family **ZOPHERIDAE** SOLIER, 1834Subfamily **ZOPHERINAE** SOLIER, 1834Tribe **PYCNOMERINI** ERICHSON, 1845Genus ***Pycnomerus*** ERICHSON, 1842*Dechomus* JACQUELIN DU VAL, 1858*Penthelispa* PASCOE, 1860*Pycnomeroplesius* GANGLBAUER, 1899***Pycnomerus terebrans*** (OLIVIER, 1790)*Ips terebrans* OLIVIER, 1790Subfamily **COLYDIINAE** ERICHSON, 1842Tribe **COLYDIINI** ERICHSON, 1842Genus ***Aulonium*** ERICHSON, 1845*Anoectochilus* L. REDTENBACHER, 1845(–) ***Aulonium ruficorne*** (OLIVIER, 1790)*Ips ruficornis* OLIVIER, 1790*Colydium bicolor* HERBST, 1797***Aulonium trisulcum*** (GEOFFROY, 1785)*Dermestes trisulcus* GEOFFROY, 1785*Ips sulcatus* OLIVIER, 1790*Colydium bicolor* FABRICIUS, 1801Genus ***Colydium*** FABRICIUS, 1792*Paschabium* GOZIS, 1886***Colydium elongatum*** (FABRICIUS, 1787)*Bostrichus elongatus* FABRICIUS, 1787***Colydium filiforme*** FABRICIUS, 1792



Tribe **ORTHO CERINI** BLANCHARD, 1845 (1820)

Genus ***Orthocerus*** LATREILLE, 1796

*Sarrotrium* ILLIGER, 1798

***Orthocerus clavicornis*** (LINNAEUS, 1758)

*Dermestes clavicornis* LINNAEUS, 1758

*Hispa mutica* LINNAEUS, 1767

*Tenebrio hirticornis* DE GEER, 1775

*Sarrotrium crenulatum* MOTSCHULSKY, 1845

***Orthocerus crassicornis*** (ERICHSON, 1845)

*Sarrotrium crassicornis* ERICHSON, 1845

*Sarrotrium tereticorne* ERICHSON, 1845

Tribe **RHOPALOCERINI** REITTER, 1911

Genus ***Rhopalocerus*** W. REDTENBACHER, 1842

***Rhopalocerus rondanii*** (A. VILLA et G. B. VILLA, 1833)

*Monotoma rondanii* A. VILLA et G. B. VILLA, 1833

*Rhopalocerus setosus* W. G. REDTENBACHER, 1842

Tribe **SYNCHITINI** ERICHSON, 1845

Genus ***Bitoma*** HERBST, 1793

*Ditoma* ILLIGER, 1807

*Euditomum* GISTEL, 1856

*Synchytodes* CROTCH, 1873

*Xuthia* PASCOE, 1863

***Bitoma crenata*** (FABRICIUS, 1775)

*Tritoma crenata* FABRICIUS, 1775

*Ips picipes* OLIVIER, 1790

*Synchitodes castaneus* DALLA TORRE, 1879

*Synchitodes ferrugineus* DALLA TORRE, 1879

*Lyctus rufipennis* FABRICIUS, 1801

*Ditoma rufithorax* PIC, 1925

Genus ***Colobicus*** LATREILLE, 1807

***Colobicus hirtus*** (ROSSI, 1790)

*Nitidula hirta* ROSSI, 1790

*Colobicus marginatus* LATREILLE, 1807

*Monotoma axillaris* DUFTSCHMID, 1825

*Colobicus hirtus* BRULLÉ, 1835

*Colobicus emarginatus* ERICHSON, 1845

Genus **Coxelus** DEJEAN, 1821

(–) **Coxelus pictus** (J. STURM, 1807)

*Bolitophagus pictus* J. STURM, 1807

Genus **Diodesma** LATREILLE, 1829

**Diodesma subterranea** LATREILLE, 1829

*Diodesma picea* J. STURM, 1849

Genus **Endophloeus** DEJEAN, 1834

(–) **Endophloeus markovichianus** (PILLER et MITTERPACHER, 1783)

*Silpha markovichiana* PILLER et MITTERPACHER, 1783

*Eledona spinulosa* LATREILLE, 1807

Genus **Langelandia** AUBÉ, 1842

Subgenus **Langelandia** AUBÉ, 1842

(–) **Langelandia anophthalma** AUBÉ, 1842

*Langelandia media* REY, 1889

*Langelandia insularis* DAJOZ, 1969

Genus **Lasconotus** ERICHSON, 1845

*Ithris* PASCOE, 1863

*Lado* WAŃKOWICZ, 1867

*Othismopteryx* J. R. SAHLBERG, 1871

**Lasconotus jelskii** (WAŃKOWICZ, 1867)

*Bitoma jelskii* WAŃKOWICZ, 1867

*Othismopteryx carinatus* J. R. SAHLBERG, 1871

Genus **Nosodomodes** REITTER, 1922

(–) **Nosodomodes tuberculatus** (GERMAR, 1832)

*Sarrotrium tuberculatus* GERMAR, 1832

Genus **Synchita** HELLWIG, 1792

*Cicones* CURTIS, 1827

*Pseudosynchita* PIC, 1922

*Pseudocicones* FURSOV, 1939

**Synchita humeralis** (FABRICIUS, 1792)

*Elophorus humeralis* FABRICIUS, 1792

*Synchita juglandis* HELLWIG, 1792

*Monotoma striata* HERBST, 1793

*Synchita obscura* L. REDTENBACHER, 1857

***Synchita mediolanensis*** A. VILLA et G. B. VILLA, 1833

*Synchita berolinensis* REITTER, 1922

***Synchita separanda*** (REITTER, 1882)

*Ditoma separanda* REITTER, 1882

*Synchita angularis* ABEILLE DE PERRIN, 1901

(–) ***Synchita undata*** (GUÉRIN-MÉNÉVILLE, 1844)

*Cicones undatus* GUÉRIN-MÉNÉVILLE, 1844

*Cicones pictus* ERICHSON, 1845

***Synchita variegata*** HELLWIG, 1792

*Cicones carpini* CURTIS, 1827

Family **MELOIDAE** GYLLENHAL, 1810

Subfamily **MELOINAE** GYLLENHAL, 1810

Tribe **CEROCOMINI** LEACH, 1815

Genus ***Cerocoma*** GEOFFROY, 1762

Subgenus ***Cerocoma*** GEOFFROY, 1762

*Meloides* PILLER et MITTERPACHER, 1783

(–) ***Cerocoma dahlii*** KRAATZ, 1863

*Cerocoma obscuripes* REITTER, 1885

*Cerocoma aeneipes* REITTER, 1914

*Cerocoma nigrivestis* MUCHE, 1963

(–) ***Cerocoma muehlfeldi*** GYLLENHAL, 1817

*Cerocoma micans* MÉNÉTRIÉS, 1832

*Cerocoma faldermanni* LAPORTE, 1840

*Cerocoma gonocera* MOTSCHULSKY, 1872

***Cerocoma schaefferi*** (LINNAEUS, 1758)

*Meloe schaefferi* LINNAEUS, 1758

*Cerocoma viridis* GEOFFROY, 1785

*Cerocoma affinis* BAUDI DI SELVE, 1878

*Cerocoma viridula* REITTER, 1885

*Cerocoma orensis* REITTER, 1914

Subgenus ***Metacerocoma*** KASZAB, 1951

(–) ***Cerocoma schreberi*** FABRICIUS, 1781

Tribe **EPICAUTINI** DENIER, 1935Genus ***Epicauta*** DEJEAN, 1834Subgenus ***Epicauta*** DEJEAN, 1834*Causima* DEJEAN, 1834*Henous* HALDEMAN, 1852*Isopentra* MULSANT et REY, 1858*Apterospasta* LECONTE, 1862*Pleuropompha* LECONTE, 1862*Nomaspis* LECONTE, 1866*Gnathospasta* HORN, 1875*Anomalonyx* DENIER, 1935*Anomalonychus* SAYLOR, 1940*Maculicauta* DILLON, 1952(–) ***Epicauta rufidorsum*** (GOEZE, 1777)*Meloe algerica* SULZER, 1776*Meloe rufidorsum* GOEZE, 1777*Lytta marginata* DORTHEIS, 1787*Cantharis dubia* OLIVIER, 1789*Lytta erythrocephala* ROSSI, 1790*Lytta rufa* GMELIN, 1790*Lytta verticalis* ILLIGER, 1804Tribe **LYTTINI** SOLIER, 1851Genus ***Alosimus*** MULSANT, 1857*Halosimus* GEMMINGER et HAROLD, 1870(–) ***Alosimus syriacus austriacus*** (SCHRANK VON PAULA, 1781)*Meloe austriacus* SCHRANK VON PAULA, 1781*Meloe crambes* PALLAS, 1782*Lydus nigricollis* ESCHERICH, 1896*Lydus basinotatus* MAŘAN, 1942*Lydus binotatus* MAŘAN, 1942*Lydus cyanipennis* MAŘAN, 1942*Lydus danubianus* MAŘAN, 1942Genus ***Lytta*** FABRICIUS, 1775Subgenus ***Lytta*** FABRICIUS, 1775***Lytta vesicatoria vesicatoria*** (LINNAEUS, 1758)*Meloe vesicatoria* LINNAEUS, 1758*Cantharis crassicornis* A. COSTA, 1882*Lytta armeniaca* REITTER, 1886*Lytta dibapha* REITTER, 1890*Lytta aurantica* ESCHERICH, 1895*Lytta leodi* ESCHERICH, 1896

*Lytta coerulea* DELLA BEFFA, 1909  
*Lytta costatella* REITTER, 1916  
*Lytta viridicuprea* FLEISCHER, 1923  
*Lytta basipennis* PIC, 1948  
*Lytta caeruleicollis* PIC, 1948  
*Lytta fauconneti* PIC, 1948  
*Lytta lateopaca* PIC, 1948  
*Lytta martialis* PIC, 1948  
*Lytta paulocuprea* PIC, 1948  
*Lytta semicuprea* PIC, 1948  
*Lytta theresae* PIC, 1948  
*Lytta lebisi* PIC, 1949

Tribe **MYLABRINI** LAPORTE, 1840

Genus ***Hycleus*** LATREILLE, 1817

*Coryna* BILLBERG, 1813  
*Dices* DEJEAN, 1821  
*Decatoma* DEJEAN, 1821  
*Arithmema* CHEVROLAT, 1834  
*Zonabris* HAROLD, 1879  
*Megabris* DES GOZIS, 1881  
*Decapotoma* VOIGTS, 1902  
*Androfoveata* PARDO ALCAIDE, 1954  
*Euzonabris* KUZIN, 1954  
*Gorizia* Pardo ALCAIDE, 1954  
*Mesogorbata* PARDO ALCAIDE, 1954  
*Mesoscutata* PARDO ALCAIDE, 1954  
*Sphenabris* KUZIN, 1954  
*Tigrabris* KUZIN, 1954  
*Mesotaeniata* PARDO ALCAIDE, 1955

(–) ***Hycleus polymorphus polymorphus*** (PALLAS, 1771)

*Attelabus polymorphus* PALLAS, 1771  
*Meloe fasciatus* FUESSLY, 1775  
*Meloe cichorii* SCHRANK VON PAULA, 1781  
*Meloe floralis* PALLAS, 1782  
*Meloe octomaculatus* VILLERS, 1789  
*Mylabris variabilis* OLIVIER, 1795  
*Mylabris fuesslini* PANZER, 1796  
*Mylabris spartii* GERMAR, 1817  
*Mylabris quadrifarius* MARSEUL, 1870  
*Mylabris agilis* BAUDI DI SELVE, 1878  
*Mylabris australis* BAUDI DI SELVE, 1878  
*Mylabris nigritus* BAUDI DI SELVE, 1878  
*Zonabris zoufali* REITTER, 1908  
*Hycleus karateginensis* SUMAKOV, 1915  
*Zonabris luteointerruptus* PIC, 1919  
*Zonabris alpestris* PIC, 1925  
*Zonabris baregesius* PIC, 1925



*Zonabris monetierensis* PIC, 1925  
*Zonabris mulsanti* PIC, 1925  
*Zonabris pelissieri* PIC, 1925  
*Zonabris viturati* PIC, 1925  
*Zonabris multidisjunctus* PIC, 1929  
*Zonabris subjunctus* PIC, 1929  
*Mylabris multijunctus* KASZAB, 1958  
*Mylabris nigrifulus* KASZAB, 1958

Tribe **MELOINI** GYLLENHAL, 1810

Genus ***Meloe*** LINNAEUS, 1758

Subgenus ***Coelomeloe*** REITTER, 1911

(–) ***Meloe tuccius tuccius*** ROSSI, 1792

Subgenus ***Eurymeloe*** REITTER, 1911

***Meloe brevicollis brevicollis*** PANZER, 1793

*Meloe brevicollis* PANZER, 1793  
*Meloe cephalotes* CURTIS, 1829  
*Meloe puncticollis* MOTSCHULSKY, 1872  
*Meloe aestivus* BAUDI DI SELVE, 1878  
*Meloe laticollis* BAUDI DI SELVE, 1878  
*Meloe splendens* ESCHERICH, 1889  
*Meloe ibericus* REITTER, 1895  
*Meloe pallidotarsalis* KASZAB, 1956

***Meloe rugosus*** MARSHAM, 1802

*Meloe autumnalis* LEACH, 1815  
*Meloe abdominalis* ESCHERICH, 1890

***Meloe scabriusculus*** BRANDT et ERICHSON, 1832

*Meloe semipunctatus* KRYNICKI, 1832  
*Meloe pygmaeus* BAUDI DI SELVE, 1878  
*Meloe nigra* PLOGINSKIJ, 1911  
*Meloe tarsalis* DEPOLI, 1912  
*Meloe pliginskyi* KASZAB, 1958

Subgenus ***Lampromeloe*** REITTER, 1911

***Meloe variegatus variegatus*** DONOVAN, 1793

*Meloe variegatus* DONOVAN, 1793  
*Meloe areolatus* REITTER, 1895  
*Meloe cupreus* BAUDI DI SELVE, 1878  
*Meloe scabrosus* LAPORTE, 1840

Subgenus **Meloe** LINNAEUS, 1758

*Proscarabaeus* SCHRANK VON PAULA, 1781

*Melittophagus* KIRBY, 1819

*Triungulinus* DUFOUR, 1828

*Cnestocera* C. G. THOMSON, 1859

**Meloe proscarabaeus proscarabaeus** LINNAEUS, 1758

*Meloe proscarabaeus* LINNAEUS, 1758

*Meloe punctatus* FABRICIUS, 1792

*Meloe atratus* MEYER, 1793

*Meloe brunsvicensis* MEYER, 1793

*Meloe tectus* PANZER, 1793

*Meloe incertus* TAUSCHER, 1812

*Meloe volgensis* TAUSCHER, 1812

*Meloe rugipennis* MANNERHEIM, 1825

*Meloe andrenatarum* DUFOUR, 1828

*Meloe cyanellus* BRULLÉ, 1832

*Meloe exaratus* FALDERMANN, 1832

*Meloe rugicollis* STEPHENS, 1832

*Meloe vulgaris* STEPHENS, 1832

*Meloe megacephalus* FISCHER VON WALDHEIM, 1842

*Meloe cyaneus* MULSANT, 1857

*Meloe gallicus* BAUDI DI SELVE, 1878

*Meloe pannonicus* BAUDI DI SELVE, 1878

*Meloe tauricus* BAUDI DI SELVE, 1878

*Meloe undulatus* BAUDI DI SELVE, 1878

*Meloe crispatus* FAIRMAIRE, 1884

**Meloe violaceus** MARSHAM, 1802

*Meloe proscarabaeus* SULZER, 1761

*Pediculus melittae* KIRBY, 1802

*Meloe similis* MARSHAM, 1802

*Meloe strigosus* MOTSCHULSKY, 1872

*Meloe angusticollis* REY, 1892

*Meloe montanus* KASZAB, 1958

*Meloe tenuicollinus* KASZAB, 1958

Subgenus **Meloegonius** REITTER, 1911

**Meloe cicatricosus** LEACH, 1815

*Meloe variolosus* FISCHER VON WALDHEIM, 1844

*Meloe iluronensis* SALVAÑA, 1870

*Meloe ineditus* SALVAÑA, 1870

**Meloe rufiventris rufiventris** GERMAR, 1832

*Meloe coriarius* BRANDT et ERICHSON, 1832

*Meloe hoffmannseggii* GERMAR, 1832

*Meloe reticulatus* BRANDT et RATZENBURG, 1833

Subgenus ***Micromeloe*** REITTER, 1911***Meloe decorus*** BRANDT et ERICHSON, 1832*Meloe pygmaeus* L. REDTENBACHER, 1849Subgenus ***Treioudous*** DUGÈS, 1869*Anchomeloe* IABLOKOFF-KHNZORIAN, 1983(–) ***Meloe autumnalis autumnalis*** OLIVIER, 1797*Meloe carnicus* KATTER, 1885*Meloe cribripennis* BAUDI DI SELVE, 1878*Meloe cyaneus* FABRICIUS, 1801*Meloe glabratus* LEACH, 1815*Meloe hiemalis* GREDLER, 1866*Meloe impunctatus* WELLMAN, 1910*Meloe laevis* GREDLER, 1866*Meloe punctatus* MARSHAM, 1802*Meloe punctipennis* ESCHERICH, 1889Tribe **NEMOGNATHINI** LAPORTE, 1840Genus ***Apalus*** FABRICIUS, 1775*Hapalus* ILLIGER, 1801*Criolis* MULSANT, 1858*Deratus* MOTSCHULSKY, 1872*Coriologiton* MARSEUL, 1879(–) ***Apalus bimaculatus*** (LINNAEUS, 1760)*Meloe bimaculatus* LINNAEUS, 1760*Hapalus caruanae* PROCHAZKA, 1892*Hapalus lecomptei* PIC, 1896*Apalus flava* ESCHERICH, 1897Genus ***Euzonitis*** SEMENOV, 1893(–) ***Euzonitis quadrimaculata*** (PALLAS, 1782)*Meloe quadrimaculata* PALLAS, 1782*Mylabris quadripunctata* FABRICIUS, 1801*Zonitis atra* SCHWARZ, 1808*Zonitis bifasciata* SCHWARZ, 1808*Zonitis bimaculata* TAUSCHER, 1812*Zonitis fasciata* TAUSCHER, 1812*Zonitis imperialis* WOLLASTON, 1861*Zonitis obliquata* MOTSCHULSKY, 1872*Zonitis xanthoptera* FAIRMAIRE, 1876*Zonitis concolor* ABEILLE DE PERRIN, 1880*Zonitis rufofasciata* FAIRMAIRE, 1884*Zonitis korbi* ESCHERICH, 1890*Zonitis immaculata* ESCHERICH, 1892

*Zonitis palumboi* RAGUSA, 1898  
*Zonitis iconiensis* PIC, 1901  
*Euzonitis latenotata* PIC, 1907  
*Zonitis concolor* WELLMAN, 1910  
*Euzonitis auliensis* PIC, 1913  
*Euzonitis adanensis* PIC, 1935

Genus ***Sitaris*** LATREILLE, 1802

***Sitaris muralis*** (FORSTER, 1771)

*Necydalis muralis* FÖRSTER, 1771  
*Necydalis humuralis* FABRICIUS, 1775  
*Cantharis attenuatus* GEOFFROY, 1785  
*Necydalis humeralis* FABRICIUS, 1787  
*Sitaris splendidus* SCHAUFUSS, 1861  
*Sitaris nitidicollis* ABEILLE DE PERRIN, 1870  
*Sitaris flavus* HAMM, 1909  
*Apalus mauritanicus* NORMAND, 1950

Genus ***Stenoria*** MULSANT, 1857

Subgenus ***Stenoria*** MULSANT, 1857

(–) ***Stenoria analis*** SCHAUM, 1859

*Sitaris adusta* SCHAUM, 1859  
*Sitaris colletis* MAYET, 1874

(–) ***Stenoria apicalis apicalis*** (LATREILLE, 1804)

*Sitaris apicalis apicalis* LATREILLE, 1804  
*Ctenopus sturmii* KÜSTER, 1846  
*Sitaris kraatzi* MULSANT et REY, 1861  
*Apalus picicollis* ESCHERICH, 1897  
*Sitaris brunneicollis* PIC, 1914  
*Sitaris basicollis* KASZAB, 1956  
*Sitaris bipunctata* KASZAB, 1956  
*Sitaris communimacula* KASZAB, 1956  
*Sitaris nigroplagiata* KASZAB, 1956  
*Sitaris tristicula* KASZAB, 1956  
*Sitaris vitticollis* KASZAB, 1956  
*Sitaris catalonica* PARDO ALCAIDE, 1958  
*Sitaris kaszabiana* PARDO ALCAIDE, 1958  
*Sitaris luteifrons* PARDO ALCAIDE, 1958  
*Sitaris paucinigra* PARDO ALCAIDE, 1958  
*Sitaris iranica* KASZAB, 1959

Genus **Zonitis** FABRICIUS, 1775Subgenus **Zonitis** FABRICIUS, 1775(–) **Zonitis flava** FABRICIUS, 1775

- Mylabris testacea* FABRICIUS, 1781  
*Lytta afra* ROSSI, 1790  
*Zonitis praeusta* FABRICIUS, 1792  
*Zonitis nigripennis* FABRICIUS, 1794  
*Zonitis thoracica* LAPORTE, 1840  
*Zonitis impressicollis* MOTSCHULSKY, 1872  
*Zonitis nigripes* MOTSCHULSKY, 1872  
*Zonitis nigrithorax* MOTSCHULSKY, 1872  
*Zonitis scutellaris* MOTSCHULSKY, 1872  
*Zonitis analis* ABEILLE DE PERRIN, 1880  
*Zonitis ancoroides* ESCHERICH, 1892  
*Zonitis unicolor* RAGUSA, 1898  
*Zonitis hipponensis* PIC, 1900  
*Zonitis signatithorax* PIC, 1900  
*Zonitis flaviventris* J. MÜLLER, 1902  
*Zonitis nigripes* J. MÜLLER, 1902  
*Zonitis nigrithorax* PIC, 1904  
*Zonitis sophiensis* NEDELKOV, 1905  
*Zonitis obscuriceps* PIC, 1907  
*Zonitis melanopus* WELLMAN, 1910  
*Zonitis inscutellaris* PIC, 1922  
*Zonitis moltonii* SCHATZMAYR, 1941  
*Zonitis semiobscura* SCHATZMAYR, 1941  
*Zonitis atriventris* PIC, 1951  
*Zonitis latenigra* PIC, 1951  
*Zonitis metasternalis* CSIKI, 1953  
*Zonitis gaditana* PARDO ALCAIDE, 1956  
*Zonitis metasternaloides* KASZAB, 1958  
*Zonitis nigriceps* PARDO ALCAIDE, 1956  
*Zonitis ramirezi* PARDO ALCAIDE, 1956  
*Zonitis reitteri* KASZAB, 1958

Family **PYROCHROIDAE** LATREILLE, 1807Subfamily **PYROCHROINAE** LATREILLE, 1807Genus **Pyrochroa** GEOFFROY, 1762**Pyrochroa coccinea** (LINNAEUS, 1760)

- Cantharis coccinea* LINNAEUS, 1760  
*Pyrochroa rubra* DEGEER, 1775  
*Pyrochroa purpurata* SCHRANK VON PAULA, 1781  
*Pyrochroa coccinea* DONOVAN, 1793  
*Pyrochroa kabyliana* PIC, 1898

***Pyrochroa serraticornis serraticornis*** (SCOPOLI, 1763)

- Cantharis serraticornis* SCOPOLI, 1763
- Pyrochroa satrapa* SCHRANK VON PAULA, 1781
- Lampyrus rubens* SCHALLER, 1783
- Pyrochroa ruberrima* GEOFFROY, 1785
- Pyrochroa purpurata* O. F. MÜLLER, 1788
- Pyrochroa rutilans* VOET, 1806
- Pyrochroa tauricola* PIC, 1912

Genus ***Schizotus*** NEWMAN, 1838

- Pyrochroella* REITTER, 1911

***Schizotus pectinicornis*** (LINNAEUS, 1758)

- Cantharis pectinicornis* LINNAEUS, 1758
- Pyrochroa nigra* DEGEER, 1775

Subfamily **AGNATHINAE** LACORDAIRE, 1859

Genus ***Agnathus*** GERMAR, 1818

(–) ***Agnathus decoratus*** (GERMAR, 1818)

- Notoxus decoratus* GERMAR, 1818

Family **SALPINGIDAE** LEACH, 1815

Subfamily **AGLENINAE** HORN, 1878

Genus ***Aglenus*** ERICHSON, 1845

- Monopis* DEJEAN, 1835

(–) ***Aglenus brunneus*** (GYLLENHAL, 1813)

- Hypophloeus brunneus* GYLLENHAL, 1813
- Aglenus obsoletus* SHUCKARD, 1839
- Aglenus major* SCHAUFUSS, 1882
- Aglenus rugipennis* SCHAUFUSS, 1882
- Anommatus rosellae* RAGUSA, 1892
- Aglenus longior* PIC, 1923

Subfamily **SALPINGINAE** LEACH, 1815

Genus ***Cariderus*** MULSANT, 185

***Cariderus aeneus*** (OLIVIER, 1807)

- Rhinosimus aeneus* A. G. OLIVIER, 1807
- Cariderus megricus* IABLOKOFF-KHNZORIAN, 1956
- Cariderus numidicus* PIC, 1904
- Cariderus ornithorrhynchus* ABEILLE DE PERRIN, 1874

Genus ***Colposis*** MULSANT, 1859(–) ***Colposis mutilatus*** (BECK, 1817)

- Salpingus mutilatus* BECK, 1817  
*Salpingus virescens* MULSANT, 1859  
*Salpingus maritimus* PIC, 1903

Genus ***Lissodema*** CURTIS, 1833

- Stenolissodema* DESBROCHERS DES LOGES, 1900  
*Spinolissodema* PIC, 1919

***Lissodema cursor*** (GYLLENHAL, 1813)

- Salpingus cursor* GYLLENHAL, 1813  
*Lissodema heyatum* CURTIS, 1833  
*Lissodema kirkae* DONISTHORPE, 1925

***Lissodema denticolle*** (GYLLENHAL, 1813)

- Curculio quadripustulatum* MARSHAM, 1802  
*Salpingus denticolle* GYLLENHAL, 1813  
*Rhinosimus quadriguttatum* LE PELETIER DE SAINT-FARGEAU et AUDINET-SERVILLE,  
 1825  
*Rhinosimus quadrimaculatum* MULSANT, 1830  
*Salpingus humerale* A. VILLA et G. B. VILLA, 1833  
*Lissodema gallicum* PIC, 1933

Genus ***Rabocerus*** MULSANT, 1859***Rabocerus foveolatus*** (LJUNGH, 1823)

- Salpingus foveolatus* LJUNGH, 1823  
*Salpingus mutilatus* CHAMPION, 1886  
*Salpingus impressithorax* PIC, 1903  
*Rabocerus bishopi* SHARP, 1909  
*Rabocerus championi* SHARP, 1909

***Rabocerus gabrieli*** (GERHARDT, 1901)

- Salpingus gabrieli* GERHARDT, 1901

Genus ***Salpingus*** ILLIGER, 1802

- Anthribus* SCHELLENBERG, 1798  
*Rhinosimus* LATREILLE, 1802

***Salpingus planirostris*** (FABRICIUS, 1787)

- Curculio planirostris* FABRICIUS, 1787  
*Curculio fulvirostris* FABRICIUS, 1787  
*Rhinosimus spinolae* A. COSTA, 1847  
*Salpingus luteonitens* FAIRMAIRE, 1879  
*Salpingus quadriimpressus* DESBROCHERS DES LOGES, 1900

***Salpingus ruficollis*** (LINNAEUS, 1760)

- Curculio ruficollis* LINNAEUS, 1760
- Curculio rostratus* DEGEER, 1775
- Curculio roboris* FABRICIUS, 1787
- Rhinosimus coeruleocephalus* LATREILLE, 1804
- Salpingus bicolor* STEPHENS, 1831
- Rhinosimus viridicollis* PIC, 1892

Genus ***Sphaeriestes*** STEPHENS, 1831

- Salpingus* GYLLENHAL, 1810
- Arabocerus* IABLOKOFF-KHNZORIAN, 1985
- Salpingellus* REITTER, 1911
- Trichocolposinus* SEIDLITZ, 1916
- Sphaeriesthes* SCHENKLING, 1922

***Sphaeriestes aeratus*** (MULSANT, 1859)

- Salpingus aeratus* MULSANT, 1859
- Salpingus nitidus* CHEVROLAT, 1860
- Salpingus cedri* PIC, 1903
- Salpingus jacqueti* PIC, 1903

***Sphaeriestes bimaculatus*** (GYLLENHAL, 1810)

- Salpingus bimaculatus* GYLLENHAL, 1810

***Sphaeriestes castaneus*** (PANZER, 1796)

- Notoxus castaneus* PANZER, 1796
- Salpingus achilleae* BONELLI, 1812
- Salpingus piceae* GERMAR, 1824
- Sphaeriestes immaculatus* STEPHENS, 1831
- Salpingus brunnescens* PIC, 1892

***Sphaeriestes reyi*** (ABEILLE DE PERRIN, 1874)

- Sphaeriestes ater* STEPHENS, 1831
- Sphaeriestes aeneus* STEPHENS, 1835
- Salpingus reyi* ABEILLE DE PERRIN, 1874
- Sphaeriestes palpalis* BAUDI DI SELVE, 1877
- Sphaeriestes tetramerus* REY, 1892
- Sphaeriestes fowleri* SEIDLITZ, 1916

***Sphaeriestes stockmanni*** (BISTRÖM, 1977)

- Salpingus stockmanni* BISTRÖM, 1977
- Dermestes ater* PAYKULL, 1798

Genus ***Vincenzellus*** REITTER, 1911

- Colposinus* SEIDLITZ, 1916

***Vincenzellus ruficollis*** (PANZER, 1794)

- Anthribus ruficollis* PANZER, 1794
- Anthribus roboris* FABRICIUS, 1798
- Rhinosimus viridipennis* LATREILLE, 1804
- Rhinosimus genei* A. COSTA, 1847
- Rhinosimus ruficeps* BOSE, 1858



Family **ANTHICIDAE** LATREILLE, 1819Subfamily **ANTHICINAE** LATREILLE, 1819Genus ***Anthelephila*** HOPE, 1833*Formicoma* MOTSCHULSKY, 1845*Formicosoma* MOTSCHULSKY, 1845*Myrmecosoma* MANNERHEIM, 1846*Formicomus* LAFERTÉ-SÉNECTÈRE, 1849*Orthauchen* KREKICH-STRASSOLDO, 1925(–) ***Anthelephila pedestris*** (ROSSI, 1790)*Carabus pedestris* ROSSI, 1790*Notoxus thoracica* PANZER, 1794*Cantharis fusca* GEOFFROY, 1799*Notoxus equestris* PANZER, 1800*Anthicus nobilis* FALDERMANN, 1837*Formicomus cursor* LAFERTÉ-SÉNECTÈRE, 1849*Formicoma hispanica* MOTSCHULSKY, 1849*Formicomus brevipilis* DESBROCHERS DES LOGES, 1875*Formicomus sareptana* DESBROCHERS DES LOGES, 1875*Formicomus rubida* REITTER, 1878*Formicomus atratula* REITTER, 1889*Formicomus tincta* REITTER, 1889*Formicomus thomsoni* PIC, 1901Genus ***Anthicus*** PAYKULL, 1798*Eonius* C. G. THOMSON, 1864*Cartolus* MULSANT et REY, 1866*Nodolinus* MULSANT et REY, 1866*Platylorus* MULSANT et REY, 1866*Birricollis* MARSEUL, 1879*Brevicollis* MARSEUL, 1879*Pubicollis* MARSEUL, 1879*Recticollis* MARSEUL, 1879*Curticollis* PIC, 1892*Birricomus* PIC, 1894*Brevicomus* PIC, 1894*Curticomus* PIC, 1894*Pubicomus* PIC, 1894*Nathicus* CASEY, 1895***Anthicus antherinus antherinus*** (LINNAEUS, 1760)*Meloe antherinus* LINNAEUS, 1760*Cicindela tripustulatus* FABRICIUS, 1792*Notoxus cinctellus* ROSSI, 1792*Anthicus semitestaceus* PIC, 1892*Anthicus valens* PIC, 1896*Anthicus astrachanicus* CSIKI, 1901

***Anthicus ater* (THUNBERG, 1787)**

*Notoxus ater* THUNBERG, 1787

*Notoxus ater* PANZER, 1796

***Anthicus axillaris* W. L. E. SCHMIDT, 1842**

*Anthicus inflatus* KOLENATI, 1846

*Anthicus varians* KOLENATI, 1846

***Anthicus bimaculatus* (ILLIGER, 1801)**

*Notoxus bimaculatus* ILLIGER, 1801

*Anthicus sagitta* KRYNICKI, 1829

*Anthicus dauricus* MOTSCHULSKY, 1845

*Anthicus fasciatus* SCHILSKY, 1888

*Anthicus pallens* SCHILSKY, 1888

*Anthicus pallescens* PIC, 1894

*Anthicus schilskyi* PIC, 1894

***Anthicus crinitus* LAFERTÉ-SÉNECTÈRE, 1849**

*Anthicus longipennis* DESBROCHERS DES LOGES, 1875

*Anthicus flavisternus* MARSEUL, 1879

*Anthicus laevaticeps* MARSEUL, 1879

*Anthicus laeviceps* MARSEUL, 1879

*Anthicus communimacula* FAIRMAIRE, 1896

*Anthicus manillanus* PIC, 1903

*Anthicus uninotatus* PIC, 1903

***Anthicus flavipes flavipes* (PANZER, 1796)**

*Notoxus flavipes* PANZER, 1796

*Anthicus rufipes* PAYKULL, 1800

*Anthicus nigriceps* MANNERHEIM, 1845

*Anthicus obscurus* KÜSTER, 1848

*Anthicus scoticus* RYE, 1872

*Anthicus flavescens* PIC, 1899

***Anthicus luteicornis* W. L. E. SCHMIDT, 1842**

*Anthicus picicornis* REY, 1892

(–) ***Anthicus schmidtii* ROSENHAUER, 1847**

*Anthicus subfasciatus* LAFERTÉ-SÉNECTÈRE, 1849

*Anthicus unipunctatus* LAFERTÉ-SÉNECTÈRE, 1849

*Anthicus subobliteratus* PIC, 1899

***Anthicus sellatus* (PANZER, 1796)**

*Notoxus sellatus* PANZER, 1796

(–) ***Anthicus umbrinus* LAFERTÉ-SÉNECTÈRE, 1849**

*Anthicus setulosus* BOHEMAN, 1851

Genus ***Cordicollis*** MARSEUL, 1879*Bitumicollis* MARSEUL, 1879*Laticollis* MARSEUL, 1879*Cordicomus* PIC, 1894*Laticomus* PIC, 1894***Cordicollis gracilis*** (PANZER, 1796)*Notoxus gracilis* PANZER, 1796*Anthicus lateripunctatus* J. STURM, 1826*Anthicus stevenii* LAFERTÉ-SÉNECTÈRE, 1849*Anthicus atricollis* ABEILLE DE PERRIN, 1885*Anthicus sinuatefasciatus* PIC, 1940(–) ***Cordicollis instabilis instabilis*** (W. L. E. SCHMIDT, 1842)*Anthicus tibialis* CURTIS, 1838*Anthicus instabilis* W. L. E. SCHMIDT, 1842*Anthicus instabilis* LAFERTÉ-SÉNECTÈRE, 1842*Anthicus mauritanicus* LUCAS, 1843*Anthicus agilis* KÜSTER, 1849*Anthicus deslogesi* PIC, 1892*Anthicus puberulus* REY, 1892*Anthicus quittardi* PIC, 1892*Anthicus stabilis* PIC, 1892*Anthicus reyi* PIC, 1893*Anthicus talaris* SCHIÖDTE, 1893*Anthicus olceseii* PIC, 1894*Anthicus semiruber* PIC, 1894Genus ***Cyclodinus*** MULSANT et REY, 1866*Lagenicollis* MARSEUL, 1879*Thicanus* CASEY, 1895*Spiniferus* PIC, 1911*Spinicornus* KREKICH-STRASSOLDO, 1919***Cyclodinus humilis*** (GERMAR, 1824)*Anthicus humilis* GERMAR, 1824*Anthicus nigrinus* ZETTERSTEDT, 1838*Anthicus lucidulus* LAFERTÉ-SÉNECTÈRE, 1849*Anthicus nigrofasciatus* TRUQUI, 1855*Anthicus beckeri* DESBROCHERS DES LOGES, 1875*Anthicus depilis* REY, 1892*Anthicus detritus* REY, 1892*Anthicus fuscicrus* REY, 1892*Anthicus peranxius* REY, 1892*Anthicus siciliae* PIC, 1893*Anthicus leukoranus* PIC, 1913*Anthicus adriaticus* KREKICH-STRASSOLDO, 1919*Anthicus latinus* KREKICH-STRASSOLDO, 1919*Anthicus orientalis* KREKICH-STRASSOLDO, 1919

Genus **Hirticollis** MARSEUL, 1879

*Hirticomus* PIC, 1894

***Hirticollis hispidus*** (ROSSI, 1792)

*Notoxus hispidus* ROSSI, 1792

*Notoxus bicolor* A. G. OLIVIER, 1795

*Notoxus hirtellus* CREUTZER, 1796

(–) ***Hirticollis quadriguttatus*** (ROSSI, 1792)

*Notoxus quadriguttatus* ROSSI, 1792

*Anthicus quadrinotatus* GYLLENHAL, 1810

*Anthicus bifasciatus* LAPORTE, 1840

*Anthicus guttatus* LAFERTÉ-SÉNECTÈRE, 1842

*Anthicus valettensis* PIC, 1951

Genus **Microhoria** CHEVROLAT, 1877

*Bifossicollis* MARSEUL, 1879

*Monstrosipedes* MARSEUL, 1879

*Normalipedes* MARSEUL, 1879

*Immichoria* PIC, 1894

*Platyhoria* BONADONA, 1952

*Submicrohoria* BONADONA, 1952

(–) ***Microhoria nectarina*** (PANZER, 1794)

*Notoxus nectarina* PANZER, 1794

*Anthicus bicincta* GEBLER, 1825

*Anthicus maltae* PIC, 1892

*Anthicus malvae* PIC, 1892

*Anthicus atriceps* PIC, 1904

*Anthicus testacea* PIC, 1941

(–) ***Microhoria pallidula*** (PIC, 1892)

*Anthicus terminata* LAFERTÉ-SÉNECTÈRE, 1849

*Anthicus mutata* PIC, 1892

*Anthicus pallidula* PIC, 1892

*Anthicus notata* PIC, 1901

(–) ***Microhoria unicolor unicolor*** (W. L. E. SCHMIDT, 1842)

*Anthicus unicolor* W. L. E. SCHMIDT, 1842

*Anthicus validicornis* LAFERTÉ-SÉNECTÈRE, 1849

*Anthicus patagiata* KIESENWETTER, 1861

Genus **Omonadus** MULSANT et REY, 1866

*Trapezicollis* MARSEUL, 1879

*Trapezicomus* PIC, 1894

*Hemantus* CASEY, 1895

*Trapezonotus* SAHLBERG, 1913

(–) ***Omonadus bifasciatus*** (ROSSI, 1792)

*Notoxus bifasciatus* ROSSI, 1792

*Anthicus kolenatii* KOLENATI, 1846

**Omonadus floralis** (LINNAEUS, 1758)

- Meloe floralis* LINNAEUS, 1758  
*Meloe pedicularius* SCHRANK VON PAULA, 1781  
*Cantharis formicoides* GEOFFROY, 1785  
*Notoxus calycinus* PANZER, 1792  
*Notoxus myrmicocephalus* ROSSI, 1792  
*Notoxus formicarius* A. G. OLIVIER, 1795  
*Lytta fuscus* MARSHAM, 1802  
*Anthicus basillaris* SAY, 1824  
*Anthicus basalis* A. VILLA et J. B. VILLA, 1838  
*Anthicus semirufus* FAIRMAIRE et GERMAIN, 1860  
*Anthicus breviculus* PHILIPPI, 1864  
*Anthicus syriacus* BAUDI DI SELVE, 1881  
*Anthicus fallax* BROUN, 1893  
*Anthicus massauensis* PIC, 1900  
*Anthicus reducteapicalis* PIC, 1915

**Omonadus formicarius formicarius** (GOEZE, 1777)

- Meloe formicarius* GOEZE, 1777  
*Anthicus quisquilius* C. G. THOMSON, 1864  
*Hemantus enodis* CASEY, 1895  
*Hemantus rixator* CASEY, 1895  
*Hemantus scenicus* CASEY, 1895  
*Anthicus semirufus* FAIRMAIRE, 1896  
*Anthicus picianus* KOCH, 1931

Genus **Stricticollis** MARSEUL, 1879

- Sulcicollus* MARSEUL, 1879  
*Stricticomus* PIC, 1894

**Stricticollis tobias** (MARSEUL, 1879)

- Anthicus tobias* MARSEUL, 1879  
*Anthicus mundulus* SHARP, 1885  
*Anthicus turanicus* REITTER, 1889  
*Anthicus postoculatus* FAIRMAIRE, 1896  
*Anthicus mauritiensis* PIC, 1898  
*Anthicus corporaali* PIC, 1925  
*Anthicus binhanus* PIC, 1927  
*Anthicus parisiensis* SAINT-ALBIN, 1952  
*Anthicus tanakai* NOMURA, 1960

Subfamily **NOTOXINAE** STEPHENS, 1829Genus **Mecynotarsus** LAFERTÉ-SÉNECTÈRE, 1849**Mecynotarsus serricornis** (PANZER, 1796)

- Notoxus serricornis* PANZER, 1796  
*Notoxus rhinoceros* FABRICIUS, 1798  
*Notoxus immaculatus* LATREILLE, 1804  
*Notoxus nigripennis* LATREILLE, 1804  
*Mecynotarsus notatipennis* PIC, 1915

Genus ***Notoxus*** GEOFFROY, 1762

*Monocerus* A. VILLA et J. B. VILLA, 1833

*Ceratoderus* BLANCHARD, 1845

(–) ***Notoxus appendicinus*** DESBROCHERS DES LOGES, 1874

*Notoxus separatus* PIC, 1900

*Notoxus moldaviensis* PIC, 1909

*Notoxus reductus* PIC, 1911

***Notoxus brachycerus*** (FALDERMANN, 1837)

*Monocerus brachycerus* FALDERMANN, 1837

*Notoxus major* W. L. E. SCHMIDT, 1842

*Notoxus hipponensis* PIC, 1894

*Notoxus notaticollis* PIC, 1915

*Notoxus obliteratus* PIC, 1930

(–) ***Notoxus excisus*** KÜSTER, 1848

*Notoxus cavifrons* LAFERTÉ-SÉNECTÈRE, 1849

*Notoxus hispanicus* MOTSCHULSKY, 1849

*Notoxus bicoronatus* BEDEL, 1869

*Notoxus meridionalis* PIC, 1900

*Notoxus maculatus* PIC, 1916

(–) ***Notoxus hirtus*** LAFERTÉ-SÉNECTÈRE, 1849

*Notoxus semipunctatus* REITTER, 1888

*Notoxus nigrosignatus* PIC, 1900

***Notoxus monoceros*** (Linnaeus, 1760)

*Attelabus monoceros* LINNAEUS, 1760

*Notoxus cucullatus* GEOFFROY, 1785

*Notoxus integer* LAFERTÉ-SÉNECTÈRE, 1849

*Notoxus platycerus* LAFERTÉ-SÉNECTÈRE, 1849

*Notoxus unicornis* WESTHOFF, 1882

*Notoxus latemaculatus* PIC, 1892

*Notoxus immaculatus* PIC, 1899

*Notoxus biinterruptus* PIC, 1900

*Notoxus subjunctus* PIC, 1911

*Notoxus obscuricollis* PIC, 1916

*Notoxus septemmaculata* ROUBAL, 1933

***Notoxus trifasciatus*** ROSSI, 1792

*Notoxus cornutus* FABRICIUS, 1792

*Notoxus armatus* W. L. E. SCHMIDT, 1842

*Notoxus sexmaculatus* PIC, 1893

*Notoxus discolor* PIC, 1897

*Notoxus pesruchesi* CHOBAUT, 1897

*Notoxus inhumeralis* PIC, 1900

*Notoxus rosti* PIC, 1905

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## INTRODUCTION

In 2012 (IWAN et al.) and in 2014 (KUBISZ et al.), two first volumes appeared, regarding beetles from the Tenebrionoidea superfamily occurring in Poland. Both monographs were published in the series “Coleoptera Poloniae”, and they comprised the following families: Tenebrionidae, Boridae, Tetratomidae, Melandryidae, Ripiphoridae, Prostomidae, Oedemeridae, Mycteridae, Pythidae, Aderidae, Scraptiidae. This is the last volume concerning the superfamily Tenebrionoidea in Poland, and it encompasses the families: Mycetophagidae, Ciidae, Mordellidae, Zopheridae, Meloidae, Pyrochroidae, Salpingidae, Anthicidae.

The most important catalogue work of beetles of Poland that has appeared so far is “Katalog Fauny Polski (Catalogus Faunae Poloniae)”, further referred to as KFP, issued in the end of the 20<sup>th</sup> century. Our work included, among others, taxa discussed in that book. According to the earlier-developed scheme, it contained data on taxonomy, distribution, bibliography and biology of the species which were accounted in literature to the fauna of Poland in its present geographical borders. The families presented herein were described in volumes 13, 14, 22 of KFP (BURAKOWSKI et al. 1986, 1987, 2000). Here is a comparison of those and present studies (the number of species occurring in Poland – CS, “confirmed species”; the number of species mistakenly reported from Poland – DS, “doubtful species”, \* – former Colydiidae was included to Salpingidae and Zopheridae, Cononotidae to Pyrochroidae:

	KFP		Present paper	
	CS	DS	CS	DS
Mycetophagidae	14	1	14	2
Ciidae	38	4	43	2
Mordellidae	53	7	52	10
Zopheridae	–	–	15	6
(Colydiidae)	15	4	*	*
Meloidae	16	9	12	13
Pyrochroidae	3	–	3	1
(Cononotidae)	–	1	*	*
Salpingidae	14	–	13	2
(Colydiidae)	1	–	*	*
Anthicidae	21	6	18	12

The classification and taxonomic nomenclature used by the authors of KFP were modified in later works. Publications by POLLOCK (1994) and LAWRENCE and NEWTON (1995) introduced changes in taxonomy of the family Pyrochroidae, in which the subfamily Agnathinae (=Cononotinae) was included. For this reason, the genus *Agnathus* has been ascribed to Pyrochroidae, and Cononotidae is no longer treated as a separate family, its name being a synonym. In 1999, ŚLIPIŃSKI and LAWRENCE presented a new concept of the family Zopheridae. It was divided into two subfamilies: Zopherinae and Colydiinae (treated before as a family). Zopheridae comprised six tribes: Latometini, Usechini, Monommatini (interpreted earlier as a family), Phellopsini, Pycnomerini and Zopherini.

The monophyly of the properly defined superfamily of Tenebrionoidea was confirmed by numerous phylogenetic analyses of morphological traits of larvae and imagines (LAWRENCE and NEWTON 1995, SCHUNGER et al. 2003, BEUTEL and FRIEDRICH 2005). The most recent research on phylogenesis of Tenebrionoidea (LEVKANICOVA 2009, GUNTER et al. 2014), based on analyses of molecular data, pertained mainly to the interfamilial relationships and brought no changes to the formal taxonomy. Most of phylogenetic analyses suggest that Lymexyloidea (containing one family of Lymexylidae FLEMING, 1821) belong to the clade of Tenebrionoidea (LEVKANICOVA 2009, HUNT et al. 2007, LAWRENCE et al. 2011, BOCAK et al. 2014, MCKENNA et al. 2015); however, the work by GUNTER et al. (2014) does not confirm that hypothesis.

The cumulation of works during the last 10 years (HUNT et al. 2007, LAWRENCE et al. 2011, ŚLIPIŃSKI et al. 2011, BOCAK et al. 2014, MCKENNA et al. 2015) reflects the intensity of research on phylogenesis within Coleoptera, based both on morphological and molecular features. There are also separate analyses of particular taxa of higher rank. Just before this volume was submitted for publication, a work by MATTHEWS and LAWRENCE (2015) appeared, in which the authors propose to change the status of the family Trachelostenidae (occurring in Chile, Australia) – currently a tribe in the subfamily (Tenebrionidae).

A synthetic review of the superfamily of Tenebrionoidea and its families is set forth in „Handbook of Zoology. Coleoptera, beetles”, edited by LESCHEN et al. (2010). The contemporary nomenclature of its units at the family level is presented by BOUCHARD et al. (2011).

At present, the superfamily Tenebrionoidea contains 27 families (18 of them are represented in Poland, signed as **bold**):

**Aderidae WINKLER, 1927**

**Anthicidae LATREILLE, 1819**

Archeocrypticidae KASZAB, 1964

**Boridae C. G. THOMSON, 1859**

Chalcodryidae WATT, 1974

**Ciidae LEACH, 1819**

**Melandryidae LEACH, 1815**

**Meloidae GYLLENHAL, 1810**

**Mordellidae LATREILLE, 1802**  
**Mycetophagidae LEACH, 1815**  
 Mycteridae BLANCHARD, 1845  
**Oedemeridae LATREILLE, 1810**  
 Promecheilidae LACORDAIRE, 1859  
**Prostomidae C. G. THOMSON, 1859**  
 Pterogeniidae CROWSON, 1953  
**Pyrochroidae LATREILLE, 1807**  
**Pythidae SOLIER, 1834**  
**Ripiphoridae GEMMINGER & HAROLD, 1870**  
**Salpingidae LEACH, 1815**  
**Scraptiidae MULSANT, 1856**  
 Stenotrachelidae C. G. THOMSON, 1859  
 Synchronoidae LACORDAIRE, 1859  
**Tenebrionidae LATREILLE, 1802**  
**Tetratomidae BILLBERG, 1820**  
 Tricentenotomidae BLANCHARD, 1845  
 Ulodidae PASCOE, 1869  
**Zopheridae SOLIER, 1834**

We adopted taxonomy following “Catalogue of Palaearctic Coleoptera” (LÖBL and SMETANA 2008) – the families were presented by several authors: Mycetophagidae (NIKITSKY 2008), Ciidae (JELÍNEK 2008), Mordellidae (HORÁK 2008), Zopheridae (ŚLIPIŃSKI and SCHUH 2008), Meloidae (BOLOGNA 2008), Pyrochroidae (POLLOCK and YOUNG 2008), Salpingidae (POLLOCK and LÖBL 2008), Anthicidae (CHANDLER et al. 2008).

	Genera			Species group name		
	Palaearctic	Poland		Palaearctic	Poland	
Mycetophagidae	13	4	31%	73	14	19%
Ciidae	28	10	36%	192	43	22%
Mordellidae	42	10	24%	695	52	7%
Zopheridae	45	10	22%	257	15	6%
Meloidae	63	4	6%	960	12	1%
Pyrochroidae	15	2	13%	80	3	4%
Salpingidae	20	6	30%	90	13	14%
Anthicidae	39	8	21%	1,117	18	2%

After the issuance of KFP (1986, 1987) most of faunistic data were presented as single reports in works of narrow scope. Comparatively current data can be found regarding the occurrence in Poland of the families of Anthicidae (KUBISZ and SZWAŁKO 1998, BARŁOŻEK et al. 2011, LASECKI et al. 2013), Mordellidae (BOROWIEC and KUBISZ 1999, KUBISZ et al. 2003, 2010), Ciidae (KRÓLIK 1999b, 2002, 2003, KRÓLIK and

MAJEWSKI 2005, KRÓLIK et al. 2005), Mycetophagidae (GRZYWOCZ et al. 2015, RUTA et al. 2015), Salpingidae (JAŁOSZYŃSKI et al. 2012).

The list and summary of the whole data presented in the present book, together with detailed statistics of particular species and families, are set forth in the chapter “Meta-analysis of occurrence data”. The data published in the current volume, similarly as in the case of the previous one (IWAN et al. 2012) and (KUBISZ et al. 2014), is integrated into a database of the project *Biodiversity Map* ([www.biomap.pl](http://www.biomap.pl), TYKARSKI 2011, 2015). The project is run by the University of Warsaw as an initiative of the Polish Biodiversity Information Network (KSIB, Krajowa Sieć Informacji o Bioróżnorodności, [www.ksib.pl](http://www.ksib.pl)), providing IT tools for faunistic investigations in Poland. The KSIB database system supports the long-term program *Coleoptera Poloniae* ([coleoptera.biomap.pl](http://coleoptera.biomap.pl)) aimed at integration of data on beetles of Poland. The data and maps of species distribution are available online.

The occurrence of all species of the superfamily Tenebrionoidea in Poland is presented in three volumes (IWAN et al. 2012, KUBISZ et al. 2014, and this book) which contain a critical list of the species, together with their distribution (see p. 540), literature data, maps and analyses. At present, Polish fauna contains 18 families, containing 136 genera, encompassing 328 species. Their detailed data are set forth below:

	Genera			Species group name		
	Palearctic	Poland		Palearctic	Poland	
Aderidae	14	6	43%	104	7	7%
Anthicidae	39	8	21%	1117	18	2%
Boridae	1	1	100%	1	1	100%
Ciidae	28	10	36%	192	43	22%
Melandryidae	44	15	34%	192	27	14%
Meloidae	63	4	6%	960	12	1%
Mordellidae	42	10	24%	695	52	7%
Mycetophagidae	13	4	31%	73	14	19%
Oedemeridae	39	6	15%	466	22	5%
Prostomidae	1	1	100%	9	1	11%
Pyrochroidae	15	2	13%	80	3	4%
Pythidae	2	1	50%	7	3	43%
Ripiphoridae	15	3	20%	53	3	6%
Salpingidae	20	6	30%	90	13	14%
Scraptiidae	11	3	28%	210	15	7%
Tenebrionidae	~ 630	42	~ 7%	~ 8,400	73	~ 1%
Tetratomidae	11	4	36%	55	6	11%
Zopheridae	45	10	22%	257	15	6%
<b>Tenebrionoidea</b>	<b>~ 1013</b>	<b>136</b>	<b>~ 13%</b>	<b>~ 12,961</b>	<b>328</b>	<b>~ 3%</b>

The monograph on Tenebrionoidea of Poland was based on data from 562 publications, containing 4150 localizations.



## SPECIES WITH CONFIRMED PRESENCE IN POLAND

Family **MYCETOPHAGIDAE** LEACH, 1815  
Subfamily **MYCETOPHAGINAE** LEACH, 1815

Tribe **MYCETOPHAGINI** LEACH, 1815

Genus ***Litargus*** ERICHSON, 1846  
Subgenus ***Alitargus*** CASEY, 1900

***Litargus (Alitargus) balteatus*** LECONTE, 1856

*Litargus infulatus* LECONTE, 1856  
*Litargus transversus* LECONTE, 1856  
*Litargus pilosus* WOLLASTON, 1857  
*Litargus disjunctus* SHARP, 1902  
*Litargus ferrantei* REITTER, 1908  
*Litargus antennatus* MIYATAKE, 1957

### Distribution in Poland (Fig. 1)

**Baltic Coast:** \*\*\*

**Pomeranian Lake District:** Jezioro Czarcie lake [XV41], 18 VIII 2000, AC (RUTA et al. 2012).

**Masurian Lake District:** Małdyty [DE17], 14 VII 2007, AC (GAWROŃSKI et al. 2008); Wilamówko [DE27], 28 VIII 2009, AC (RUTA et al. 2012).

**Wielkopolska-Kujawy Lowland:** Jezioro Buszenko lake [WU10], 26 VII 2001, AC (RUTA et al. 2012); Poznań-Cytadela [XU30/XU31], 14 XI 2000, AC (RUTA et al. 2012); Ruda Miłicka [XT61], 25 VII–8 VIII 1989, AC (BOROWIEC 1991); Skwierzyna [WU32], 3–7 VI 2004, \*\*\* (RENNER and MESSUTAT 2008).

**Mazovian Lowland:** \*\*\*

**Podlasie Lowland:** \*\*\*

**Białowieża Primeval Forest:** \*\*\*

**Lower Silesia:** Głogówek [YR08], 25 VI 1993, AC (MELKE and GRZYWOCZ 2003, GRZYWOCZ et al. 2015); Obrowiec [BA89], 12 IX 2010, AC (GRZYWOCZ et al. 2015); Oława [XS64], 30 V 2014, AC (GRZYWOCZ et al. 2015).

**Trzebnica Hills:** \*\*\*

**Upper Silesia:** Brynek [CA39], 14 VIII 1995, AC (GRZYWOCZ and SZOŁTYS 1996), 2 XI 2001, AC (SZOŁTYS and GRZYWOCZ 2014); Gipsowa Góra [BA84], 15 VIII 1998, AC (GRZYWOCZ et al. 2015); Grabówka [CA07], 21 VII 1998, AC (MELKE and GRZYWOCZ 2003, GRZYWOCZ et al. 2015); Mikołów-Jamna [CA56], \*\*\*, AC (MELKE and GRZYWOCZ 2003); Ruda Śląska [CA47], 10–30 X 2001, AC (MELKE and GRZYWOCZ 2003).

**Kraków-Wieluń Upland:** \*\*\*

**Małopolska Upland:** \*\*\*

**Świętokrzyskie Mts.:** \*\*\*

**Lublin Upland:** \*\*\*

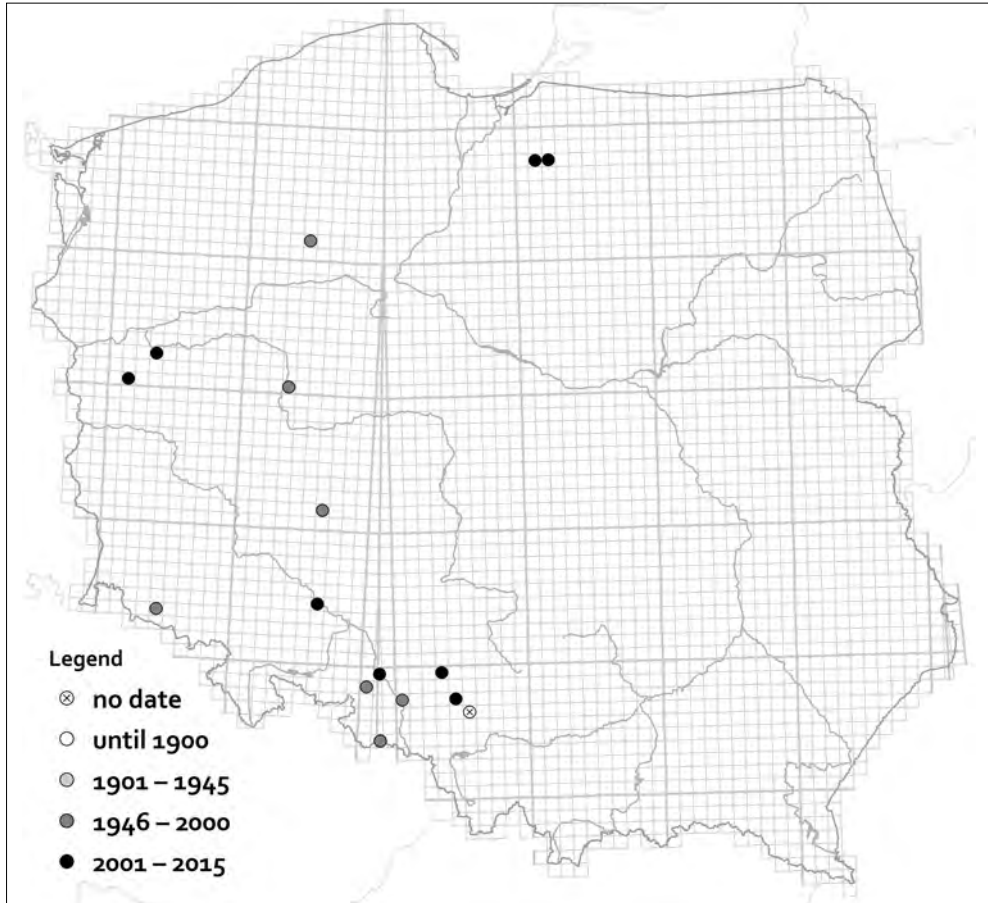


Fig. 1. Occurrence of *Litargus (Alitargus) balteatus* in Poland.

**Roztocze Upland:** \*\*\*

**Sandomierz Lowland:** \*\*\*

**Western Sudetes:** Podgórzyn-Podzamcze [WS43], 1–8 VIII 1994, AC (BOROWIEC 1995).

**Eastern Sudetes:** \*\*\*

**West Beskid Mts.:** \*\*\*

**Nowy Targ Basin:** \*\*\*

**East Beskid Mts.:** \*\*\*

**Bieszczady Mts.:** \*\*\*

**Pieniny Mts.:** \*\*\*

**Tatra Mts.:** \*\*\*

## Comments

KFP: 5937. *Litargus balteatus* LECONTE, 1856.

A synanthropic species of subcosmopolitan distribution, reported from Poland for the first time in 1989 (BOROWIEC 1991). Since that time, a number of its localities have been found in the western part of the country. Available reports indicate its expansion in Europe, so one may expect further findings, also in the eastern part of Poland.

For the Palearctic distribution see Fig. 263.

## Subgenus *Litargus* ERICHSON, 1846

### *Litargus (Litargus) connexus* (GEOFFROY, 1785)

*Antribus connexus* GEOFFROY, 1785

*Ips bifasciata* FABRICIUS, 1787

*Ips lunata* FABRICIUS, 1792

*Mycetophagus signatus* PANZER, 1798

*Litargus mediojunctus* PIC, 1903

## Distribution in Poland (Fig. 2)

**Baltic Coast:** Sopot (Zoppot) [CF43], \*\*\* (BERCIO and FOLWACZNY 1979); Za-leskie (Saleske) [XA14], \*\*\* (LÜLLWITZ 1916).

**Pomeranian Lake District:** Kujan [XV41], 23 VII 1998, AC (RUTA et al. 2012); “Kuźnik” nat. res. [XU19], 1999–2001, 1999–2008, AC (RUTA and MELKE 2002, RUTA 2009); Stara Rudnica [VU45], 29 IV 2010, AC (RUTA et al. 2012); Szczerkowo [CE24], 1994–1995, AC, ISEA (STACHOWIAK and KUBISZ 2002).

**Masurian Lake District:** “Dęby w Krukach Pasłęckich” nat. res. [DE18], IV–XI 2002, \*\*\* (BYK and BYK 2004); Jedwabno [DE83], \*\*\* (BERCIO and FOLWACZNY 1979); Krusznik [FE38], \*\*\* (BURAKOWSKI et al. 1986); Małdyty [DE17], 5 IX, 27 X 2001,

14 IV, 15 VI 2002, AC (RUTA et al. 2012); Maskulińskie f. div., Zaroślak f. distr. [EE34], 2003–2005, \*\*\* (RUTKIEWICZ 2007); Olsztyn-Kortowo [DE65], 7 VIII 2004, 16 VI 2005, 9 IX 2006, AC (RUTA et al. 2012); Pisz f. div., Szast f. distr. [EE53], 2005–2007, \*\*\* (GUTOWSKI et al. 2010); Przerwanki f. div. [a.EE69], \*\*\* (OKOŁÓW 1963); Przezmark [CE96], VII 2003, \*\*\* (GAWROŃSKI and OLEKSA 2006); “Szast” forest [EE44], 2003–2005, \*\*\* (RUTKIEWICZ 2007); Upałty (Upalten) [EE58], \*\*\* (BERCIO and FOLWACZNY 1979); Wały [DE72], 10 VI 2008, AC (RUTA et al. 2012).

**Wielkopolska-Kujawy Lowland:** Batorowo [XU10], 1929–1931, \*\*\* (MYRDZIK 1933); Ciszce [XU27], 28 III 1999, AC (RUTA et al. 2012); Głogów (Glogau) [WT72], \*\*\* (LETZNER 1871, 1888); Grądy Bytyńskie [XU01], 29 VII 2008, AC (RUTA et al. 2012); Koło [CC38], 14 V 1985, leg. J. NOWACKI, ISEA (D. KUBISZ, unpublished data); Lusowo [XU11], 2 II 1996, 3 V 1997, 1 III 1998, 23 IV 2005, AC (RUTA et al. 2012); Łęczycza [CC76], \*\*\* (BURAKOWSKI et al. 1986); Ocieszyn vicinity [XU22], 9 IV 2000, AC (RUTA et al. 2012); Piła-Staszycze [XU18], 27 XII 1997, AC (RUTA et al. 2012); Piła [XU19], 23 IV, 31 VII 1999, AC (RUTA et al. 2012); Poznań-Cytadela [XU30/XU31], 15 V 1994, 20 V 2001, AC (RUTA et al. 2012); Puszczykowo [XT29], \*\*\* (BAŁAZY et al. 1974), 31 XII 1997, AC (RUTA et al. 2012); Radojewo vicinity [XU31], 3 IX 1998, AC (RUTA et al. 2012); Skoroszów [XT50], 16 VIII 2006, 13 IV 2008, AC (RUTA et al. 2012); Żagań [WT21], 27 IV–19 VIII 1995, AC (GRZYWOCZ et al. 2015); “Wielkopolska”, without precise locality, \*\*\* (SZULCZEWSKI 1922).

**Mazovian Lowland:** Augustów [EC30], 18 II 1998, AC (RUTA et al. 2012); “Czerwińskie Góry” nat. res. [DC59], V–VII 1998, ISEA (KUBISZ et al. 2000); Dąbrowa Kozłowska [EC10], 6 VIII 2006, AC (RUTA et al. 2012); Debły f. distr. [DC79], 15 IV 2010, AC (RUTA et al. 2012); Dobieszyn f. div., Chodków f. distr. [EC22], 1997–2005, \*\*\* (GUTOWSKI et al. 2006); Dziekanów Leśny [DC99], \*\*\* (BURAKOWSKI et al. 1986); Kampinoski N. P.: Młynisko [DD80], \*\*\* (BURAKOWSKI et al. 1986); Kozienice f. div., Świerże f. distr. [EC32], 1997–2005, \*\*\* (GUTOWSKI et al. 2006); Mienia [EC47], \*\*\* (BURAKOWSKI et al. 1986); Roztoka f. distr. [DC79], 8 V 2009, AC (RUTA et al. 2012); Rybitew f. distr. [DD70], 9 V 2009, AC (RUTA et al. 2012); Siennica [EC47], \*\*\* (BURAKOWSKI et al. 1986); Sieraków f. distr. [DC89], 25 IV 2009, AC (RUTA et al. 2012); Szczytno [DC58], \*\*\* (BURAKOWSKI et al. 1986); Warszawa-Bielany [DC99], \*\*\* (BURAKOWSKI et al. 1986); Warszawa-Pyry [EC07], \*\*\* (BURAKOWSKI et al. 1986); Warszawa-Saska Kępa [EC08], \*\*\* (BURAKOWSKI et al. 1986); Warszawa-Wawer [EC18], \*\*\* (BURAKOWSKI et al. 1986); “Zagożdżon” nat. res. [EC30], 16 XII 2007, AC (RUTA et al. 2012); Zegrze [ED01], \*\*\* (BURAKOWSKI et al. 1986).

**Podlasie Lowland:** Kopna Góra [FE60], \*\*\*, AC (KUBISZ and SZWAŁKO 1991).

**Białowieża Primeval Forest:** Białowieża [FD94], \*\*\* (BURAKOWSKI et al. 1986); Hajnówka f. div. [a.FD74], V–X 2000, \*\*\* (BOROWSKI 2001, BYK 2001); Białowiecki N. P., without precise locality, [a.FD94], V–X 2000, \*\*\* (BOROWSKI 2001, BYK 2001,

BYK et al. 2006); Białowieża Primeval Forest, without precise locality, [a.FD94], 2000, 2004, \*\*\* (BYK et al. 2006).

**Lower Silesia:** “Bugaj” nat. res. [XS31], 10 VI 1964, \*\*\* (CAPECKI 1969); Głogówek [YR08], 25 IV 1999, AC (GRZYWOCZ et al. 2015); Legnica (Liegnitz) [WS87], \*\*\* (LETZNER 1871, 1888); Oława [XS64], \*\*\* (BURAKOWSKI et al. 1986), 30 VII 2014, AC (GRZYWOCZ et al. 2015); Pątnów [WS87], \*\*\* (BURAKOWSKI et al. 1986); Pokój [XS94], 12 VII 2010, AC (GRZYWOCZ et al. 2015); Prędocin [XS83], 17 V 2013, AC (GRZYWOCZ et al. 2015); Rogalice [XS84], 7 VI 2007, AC (GRZYWOCZ et al. 2015); Słup [XS17], \*\*\* (BURAKOWSKI et al. 1986); Wrocław (Breslau) [a.XS46], \*\*\* (LETZNER 1871, 1888); Wrocław-Świniary [XS37], 25 III 2006, AC (RUTA et al. 2012); Wrocław-Wojnow [XS56], 22 IV 2006, AC (RUTA et al. 2012); Zimna Woda [WS78], \*\*\* (BURAKOWSKI et al. 1986); Żywocice [YR19], 13 VI–29 VIII 2013, AC (GRZYWOCZ et al. 2015).

**Trzebnica Hills:** Kowalska Góra [XS38], 22 IV 2007, AC (RUTA et al. 2012); Laski [BB97], 24 VI 2005, AC (RUTA et al. 2012); Międzybórz (Zuschenhammer) [XS89], \*\*\* (LETZNER 1888).

**Upper Silesia:** Baranowice [CA34], 12 VI 1996, AC (GRZYWOCZ et al. 2015); Borucin (Borutin) [BA94], \*\*\* (KELCH 1846, ROGER 1856); “Boże Oko” nat. res. [CA09], 3 XI 2002, AC (GRZYWOCZ et al. 2015); Brynek [CA39], 20 V 1990–7 VI 2013, AC (GRZYWOCZ et al. 2015); Chałupki [CA03], 12 VI 2013, AC (GRZYWOCZ et al. 2015); Dąbrowa Górnicza [CA77], VIII 1935, III 1936, \*\*\* (STEFEK 1939); Grabice [YS04], 12 V 1995, AC (GRZYWOCZ et al. 2015); Grabówka [CA07], 21 VII 1998, AC (GRZYWOCZ et al. 2015); Jamna [CA56], 25 IV 1993, 15 X 2000, AC (GRZYWOCZ et al. 2015); Jaworzno-Szczakowa [CA76], \*\*\* (BURAKOWSKI et al. 1986); Kolonia Mechnica [BA98], 10 VI 2013–6 VIII 2014, AC (GRZYWOCZ et al. 2015); “Las Murckowski” nat. res. [CA56], 1996–1997, 25 IV–26 V 2009, 21 VII 2014, AC (SZAFRANIEC and SZOŁTYS 1997, GRZYWOCZ et al. 2015); Lasowice Małe [CB04], 30 IV 2013, AC (GRZYWOCZ et al. 2015); Ligota Zamecka [CB04], 25 IV 2014, AC (GRZYWOCZ et al. 2015); “Łęczszak” nat. res. [CA05], 1996–1997, 19 V 2011, AC (SZAFRANIEC and SZOŁTYS 1997, GRZYWOCZ et al. 2015); Maciejów [CA37], 29 V 1998, AC (GRZYWOCZ et al. 2015); Mikołów-Paniowy [CA46], 5 VII 1993, 10 VI 1996, AC (GRZYWOCZ et al. 2015); Obora [YS00], \*\*\* (KELCH 1846); Polanka Wielka [CA73], \*\*\* (BURAKOWSKI et al. 1986); Połomia [CA39], 1 XI 1999–15 IX 2013, AC (GRZYWOCZ et al. 2015); Racibórz (Ratibor) [BA95], \*\*\* (ROGER 1856, LETZNER 1871, 1888); Ruda Śląska [CA46], 8 V 2001–23 IV 2013, AC (GRZYWOCZ et al. 2015); Ruda Śląska: Lasy Bielszowskie [CA47], 12 V 1991–18 IV 2000, AC (GRZYWOCZ et al. 2015); Ruda Śląska-Wirek [CA47], 2 V 1998, 17 VIII 2000, AC (GRZYWOCZ et al. 2015); Rudy Raciborskie (Rauden) [CA16], \*\*\* (ROGER 1856, LETZNER 1871, 1888); Rudziniec Gliwicki [CA18], 26 VII 1994, AC (GRZYWOCZ et al. 2015); Rybnik-Ochojec [CA25], 11 X 2013, AC (GRZYWOCZ et al. 2015); “Segiet” nat. res. [CA48], 1996–1997, 21 III 1994–1 V 2010, AC (SZAFRANIEC and SZOŁTYS 1997, GRZYWOCZ et al. 2015); Siemianowice Śląskie [CA57], 25 V 1996, 25 III–11 V 2012,

AC (GRZYWOCZ et al. 2015); Stare Tarnowice [CA48], 2 V 2005, 5 V 2007, 29 V 2013, AC (GRZYWOCZ et al. 2015); Śmiłowice [CA46], 17 V 1994, AC (GRZYWOCZ et al. 2015); Świerklaniec f. div., Repecko f. distr. [CA49], 1997–2005, \*\*\* (GUTOWSKI et al. 2006); Święciny [YS05], 16 IV 2005, AC (GRZYWOCZ et al. 2015); Zaborze [CA74], \*\*\* (BURAKOWSKI et al. 1986); Zagwiździe [BB83], 13 V 1994, AC (GRZYWOCZ et al. 2015); Zawisć [YS05], 20 IV 2007, AC (GRZYWOCZ et al. 2015); “Żubrowisko” nat. res. [CA54], 1996–1997, AC (SZAFRANIEC and SZOŁTYS 1997).

**Kraków-Wieluń Upland:** “Bukowica” nat. res. [CA84], 1996–1997, AC (SZAFRANIEC and SZOŁTYS 1997); Czatkowice [DA05], \*\*\* (BURAKOWSKI et al. 1986); Czarna [DA05], \*\*\* (BURAKOWSKI et al. 1986); Częstochowa-Dźbów [CB62], 2008–2012, AC (KLASIŃSKI 2013); Dubie [DA05], \*\*\* (BURAKOWSKI et al. 1986); “Kajasówka” nat. res. [DA04], 8 V 1985, leg. J. PAWŁOWSKI, ISEA (D. KUBISZ, unpublished data); Kraków, Las Wolski [DA14], 23 IV–16 V 1964, \*\*\* (CAPECKI 1969); “Ostra Góra”

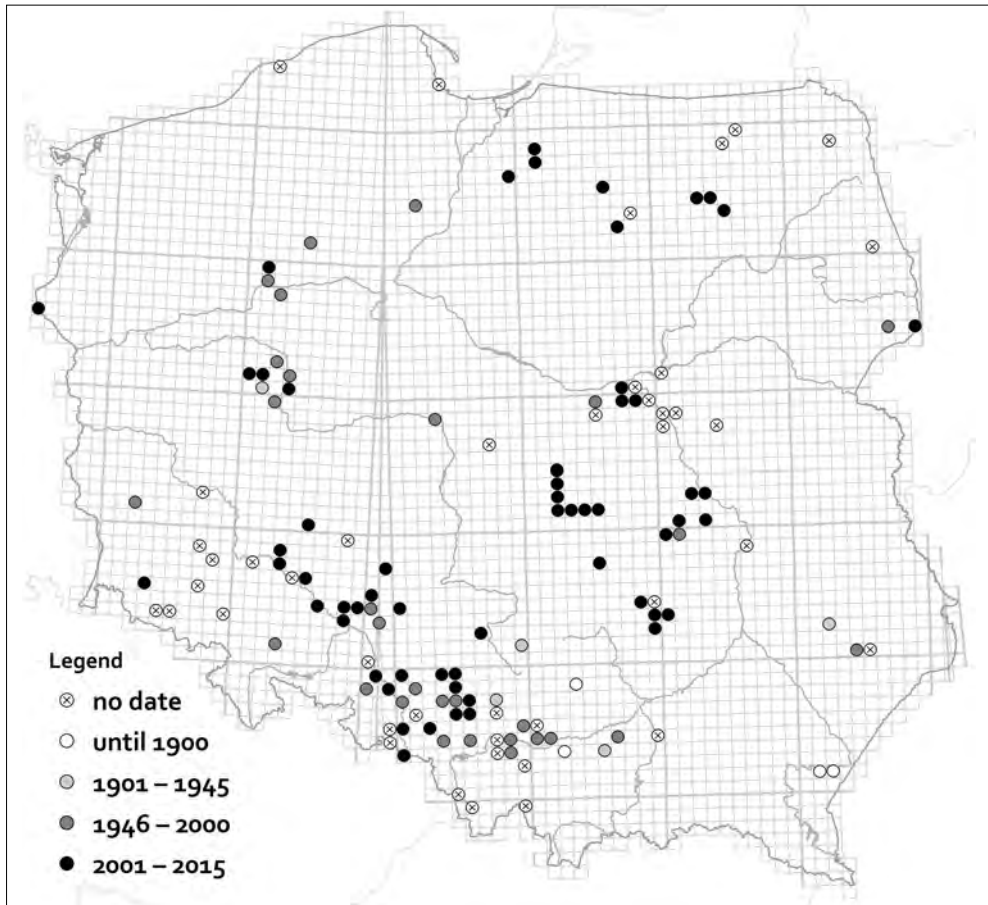


Fig. 2. Occurrence of *Litargus (Litargus) connexus* in Poland.

nat. res. [CA95], 1996–1997, AC (SZAFRANIEC and SZOŁTYS 1997); Złoty Potok [CB91], 1899–1903, \*\*\* (LGOCKI 1908).

**Małopolska Upland:** Jasień f. distr. [DC31], 2010–2011, \*\*\* (BOROWSKI et al. 2013); “Konewka” nat. res. [DC41], 2010, \*\*\* (RUTKIEWICZ et al. 2013); “Małecz” nat. res. [DC31], 2010–2011, \*\*\* (BOROWSKI et al. 2013); Mianocice [DA38], 1872, \*\*\* (KULCZYŃSKI 1873); “Popień” nat. res. [DC23], 2010–2011, \*\*\* (BOROWSKI et al. 2013); Radom-Koniówka [EB19], 24 I 1994, 11 XI 1997, AC (RUTA et al. 2012); Radom: Las Kapturski [EB09], 15 IV 1992, 8 I 1994, 8 XI 2004, AC (RUTA et al. 2012); Rogów [DC24], 2007, \*\*\* (MOKRZYCKI 2011); “Spała” nat. res. [DC41], 2010–2011, \*\*\* (BOROWSKI et al. 2013, BYK et al. 2013); Zieleń f. distr. [DC22], 2010–2011, \*\*\* (BOROWSKI et al. 2013, BYK et al. 2013); “Żądłowice” nat. res. [DC51], 2010–2011, \*\*\* (BOROWSKI et al. 2013, BYK et al. 2013, MAZUR and PERLIŃSKI 2013); Żywocin f. distr. [DC21], 2010, \*\*\* (BYK et al. 2013).

**Świętokrzyskie Mts.:** Chełmowa Góra f. distr. [EB03], 2006, \*\*\* (BOROWSKI 2007, BYK 2007), 1–16 VII 2009, AC (RUTA et al. 2012); Cisów f. distr. [DB92], 2006, \*\*\* (BOROWSKI 2007); “Cisów” nat. res. [DB92], 2006, \*\*\* (BOROWSKI 2007); Dębno f. distr. [DB93], 2006, \*\*\* (BOROWSKI 2007, BYK 2007, MOKRZYCKI 2007), 1–15 VI 2009, AC (RUTA et al. 2012); Klonów f. distr. [DB84], 3–15 VII 2009, AC (RUTA et al. 2012); Podgórze f. distr. [DB94], \*\*\* (BURAKOWSKI et al. 1986), \*\*\* (BOROWSKI 2007); Święty Krzyż f. distr. [EB03], 2006, \*\*\* (BOROWSKI 2007); Trzemoszna f. distr. [DB57], 2006, \*\*\* (BYK 2007, BOROWSKI 2007).

**Lublin Upland:** Kazimierz Dolny [EB68], \*\*\* (BURAKOWSKI et al. 1986).

**Roztocze Upland:** Krasnobród [FB50], \*\*\* (BURAKOWSKI et al. 1986); “Nart” nat. res. [FB50], 23 III 1986, leg. D. KUBISZ, ISEA (D. KUBISZ, unpublished data); Podlesie [FB22], 30 VII, 2 VIII 1911 or 1912, \*\*\* (TENENBAUM 1913).

**Sandomierz Lowland:** Kłaj [DA53], 1904, leg. M. RYBIŃSKI, ISEA (D. KUBISZ, unpublished data); Niepołomice Forest, f. comp. 175 [DA64], 30 III 2000, AC (KLEJDYSZ and KUBISZ 2003); Tarnów vicinity [a.DA94], \*\*\* (VIERTL 1872).

**Western Sudetes:** Górzec Mt. (Hessberge) [WS75], \*\*\* (LETZNER 1888); Lubomierz [WS35], 20 VII 2004, AC (RUTA et al. 2012); Witosza (Bögenberge) [WS53], \*\*\* (LETZNER 1871, 1888); Góry Wałbrzyskie Mts., (Waldenburger Gebirge), without precise locality, \*\*\* (LETZNER 1871, 1888); Kotlina Jeleniogórska valley (Hirschberger Thal), without precise locality, [aWS43], \*\*\* (LETZNER 1871, 1888).

**Eastern Sudetes:** \*\*\*

**West Beskid Mts.:** Barania Góra Mt. [CV59], \*\*\* (BURAKOWSKI et al. 1986); Mogilany [DA23], IV 1872–1873, \*\*\* (KOTULA 1873); Równica Mt. [CA40], \*\*\* (BURAKOWSKI et al. 1986); Tomice [CA92], \*\*\* (BURAKOWSKI et al. 1986); Ustroń (Ustron) [CA40], \*\*\* (KELCH 1846, ROGER 1856, LETZNER 1871, 1888); Wielka Czantoria Mt. [CA40], \*\*\* (BURAKOWSKI et al. 1986); Zator [CA83], 9 VII 1983, lg. D. KUBISZ, ISEA (D. KUBISZ, unpublished data); Zawoja [CV99], \*\*\* (BURAKOWSKI et al. 1986).

**Nowy Targ Basin:** \*\*\*

**East Beskid Mts.:** Hołubla [FA11], 15 VI 1884, leg. B. KOTULA, ISEA (D. KUBISZ, unpublished data); Prałkowce [FA21], 18 V 1884, leg. B. KOTULA, ISEA (D. KUBISZ, unpublished data); Przemyśl [FA21], VI–VII 1881, leg. B. KOTULA, ISEA (D. KUBISZ, unpublished data).

**Bieszczady Mts.:** \*\*\*

**Pieniny Mts.:** \*\*\*

**Tatra Mts.:** \*\*\*

**General:** “Hrabstwo Kłodzkie” (Grafschaft Glatz) (LETZNER 1871, 1888); Przemyśl vicinity (TRELLA 1923b).

## Comments

KFP: 3708. *Litargus connexus* (FOURCROY, 1785).

*Litargus bifasciatus* var. *mediojunctus* PIC, 1903 according to ICZN (Art. 45.6.4), should be treated as valid name – *Litargus mediojunctus* PIC, 1903.

*Litargus connexus* a. *6-notatus* TRELLA, 1930 (*terra typica*: Przemyśl vicinity), according to ICZN (Art. 45.5 and Art. 45.6.2) “a. *6-notatus*”, should be treated as infrasubspecific name, so it is excluded from the species group and is not regulated by the Code [Art. 1.3.4].

A common species throughout Poland, although not yet reported from some regions. Found under bark of dead broadleaved trees and in polypores.

For the Palearctic distribution see Fig. 264.

## Genus *Mycetophagus* FABRICIUS, 1792

### Subgenus *Ilendus* CASEY, 1900

## *Mycetophagus (Ilendus) multipunctatus* FABRICIUS, 1792

*Boletaria similis* MARSHAM, 1802

*Mycetophagus sulcatus* ROUBAL, 1929

## Distribution in Poland (Fig. 3)

**Baltic Coast:** Międzywodzie [VV78], 8 IX 1985, leg. R. WIECZOREK, ISEA (D. KUBISZ, unpublished data); Międzyzdroje (Misdroy) [VV67], VII–VIII 1854, \*\*\* (HABELMANN 1854); Rokitnica (Müggenhahl) [CF51], \*\*\* (BERCIO and FOLWACZNY 1979).

**Pomeranian Lake District:** Kujan [XV41], 2000–2001, 2004, AC (RUTA 2014); Kujanki [XV41], 16 VIII 1998, AC (RUTA et al. 2012); “Kuźnik” nat. res. [XU19], 1999–2001, 1999–2008, AC (RUTA and MELKE 2002, RUTA 2009); Mały Buczek [XV42], 25 IV 2011, AC (RUTA et al. 2012); Zalew Koszycki [XU19], 1999–2008, \*\*\* (RUTA 2009).



**Masurian Lake District:** Bolejny [DE62], 22 X 2008, AC (RUTA et al. 2012); “Dęby w Krukach Pasłęckich” nat. res. [DE18], IV–XI 2002, \*\*\* (BYK and BYK 2004); Karpowo [DE05], VII 2003, \*\*\* (GAWROŃSKI and OLEKSA 2006); Krusznik [FE38], \*\*\* (BURAKOWSKI et al. 1986); “Las Warmiński” nat. res. [DE64], 22 VI 2004, AC (RUTA et al. 2012); Małdyty [DE17], 6 XII 2001, 14 IV 2002, AC (RUTA et al. 2012); “Niedźwiedzie Wielkie” nat. res. [DE17], 3 VI 2004, AC (RUTA et al. 2012); Olsztyn (Allenstein) [DE65], \*\*\* (BERCIO and FOLWACZNY 1979); Olsztyn-Kortowo [DE65], 21 VI 2005, AC (RUTA et al. 2012); Płociczno [FE29], \*\*\* (BURAKOWSKI et al. 1986); Przechmark [CE96], VII 2003, \*\*\* (GAWROŃSKI and OLEKSA 2006); Smolniki [DE03], \*\*\* (BURAKOWSKI et al. 1986); Sople [DE17], 7 VII 2002, AC (RUTA et al. 2012); Szymbark [DE04], VII 2003, \*\*\* (GAWROŃSKI and OLEKSA 2006); Uroczysko Grzędy [FE24], 1997–2005, \*\*\* (GUTOWSKI et al. 2006).

**Wielkopolska-Kujawy Lowland:** Biedrusko vicinity [XU32], 22 I, 18 X 1998, AC (RUTA et al. 2012); Byszewice [XU38], 5 IX–1 X 2005–2006, AC (RUTA 2007); Dolaszewo vicinity [XU19], 30 IV, 31 VII 1999, AC (RUTA et al. 2012); Gołaszyn vicinity [XU23], 18 VII, 17 X 1999, AC (RUTA et al. 2012); Kórnik [XT49], 11 III 2001, AC (RUTA et al. 2012); Lusowo [XU11], 1 III 1998, AC (RUTA et al. 2012); Osieczna [XT15], 3 III 2000, AC (RUTA et al. 2012); Piła [XU19], 17 II 2001, AC (RUTA et al. 2012); Piła-Kalina [XU28], 4 V 2001, AC (RUTA et al. 2012); Poznań [a.XU30], \*\*\* (SCHUMANN 1904); Poznań: Jezioro Maltańskie lake [XU30], 1 IV 2007, AC (PRZEWOŹNY 2013); Poznań-Zieliniec [XU30], 11 II 2007, AC (RUTA et al. 2012); Promno [XU51], 16 I 1999, AC (RUTA et al. 2012); Puszczykowo [XT29], 12 IV 2000, AC (RUTA et al. 2012); Radojewo vicinity [XU31], 3 IX 1998, AC (RUTA et al. 2012); Rogalin [XT38], 20 VI 1998, AC (RUTA et al. 2012); Ruda Milicka [XT61], 31 VIII 2006, AC (RUTA et al. 2012); Skwierzyna [WU32], 2 VI 2004, \*\*\* (RENNER and MES-SUTAT 2008); Stawy Przemkowskie [WT51], 20 V 2007, AC (RUTA et al. 2012); Toruń [CD37], \*\*\* (BURAKOWSKI et al. 1986); Złotkowo vicinity [XU22], 25 VII 1999, AC (RUTA et al. 2012); “Wielkopolska”, without precise locality, \*\*\* (SZULCZEWSKI 1922).

**Mazovian Lowland:** Czarna Struga [ED00], \*\*\* (BURAKOWSKI et al. 1986); Jabłonna [DD90], \*\*\* (BURAKOWSKI et al. 1986); Klembów [ED20], \*\*\* (BURAKOWSKI et al. 1986); Pomiechówek [DD81], \*\*\* (BURAKOWSKI et al. 1986); Sieraków f. distr. [DC89], 19 IV 2010, AC (RUTA et al. 2012); Szymanówek [DC69], \*\*\* (BURAKOWSKI et al. 1986); Warszawa-Bielany [DC99], \*\*\* (BURAKOWSKI et al. 1986); Warszawa-Młociny [DC99], \*\*\* (BURAKOWSKI et al. 1986); Wywrotnia Góra [DC89], \*\*\* (BURAKOWSKI et al. 1986); Zamczysko f. distr. [DC69], 16 IV 2010, AC (RUTA et al. 2012); Żbików [DC88], \*\*\* (BURAKOWSKI et al. 1986).

**Podlasie Lowland:** Kopna Góra [FE60], \*\*\*, AC (KUBISZ and SZWAŁKO 1991).

**Białowieża Primeval Forest:** Białowieża: Park Pałacowy [FD94], \*\*\* (BURAKOWSKI et al. 1986); Hajnówka f. div. [a.FD74], V–X 2000, \*\*\* (BOROWSKI 2001); f. comp. 424A [FD84], 24 V 1995, leg. L. BUCHHOLZ, ISEA (D. KUBISZ, unpublished data); Białowiecki N. P., without precise locality [a.FD94], V–X 2000, \*\*\* (BOROWSKI 2001, BYK 2001).

**Lower Silesia:** Głogówek [YR08], 18 VII 1998, AC (GRZYWOCZ et al. 2015); Jutrzyna (Marienau) [XS52], II 1848, \*\*\* (LETZNER 1849); Legnica (Liegnitz) [WS87], \*\*\* (LETZNER 1871, 1888, GERHARDT 1910); Malczyce [XS07], \*\*\* (BURAKOWSKI et al. 1986); Oława (Ohlau) [XS64], \*\*\* (LETZNER 1871, 1888, GERHARDT 1910); Świdnica (Schweidnitz) [XS03], \*\*\* (LETZNER 1871, 1888, GERHARDT 1910); Wrocław (Bre-slau) [a.XS46], \*\*\* (LETZNER 1871, 1888, GERHARDT 1910).

**Trzebnica Hills:** Borowa Oleśnicka [XS57], 7 VI 1990, 8 III 1992, AC (GRZYWOCZ et al. 2015), \*\*\*.

**Upper Silesia:** Brynek [CA39], 4 II 2002–25 X 2013, AC (GRZYWOCZ et al. 2015); Brzezie [CA05], 2 IV 1991, AC (GRZYWOCZ et al. 2015); Chełmek [CA75], \*\*\* (BURAKOWSKI et al. 1986); Chocianowice [CB04], 27 IV 2012, AC (GRZYWOCZ et al. 2015); Chorzów [CA57], 5 III 2008, AC (GRZYWOCZ et al. 2015); Góra Św. Anny Mt. [BA99], 19 X 1997, AC (GRZYWOCZ et al. 2015); Góra Św. Anny L. P. [CA09], 25 IX 1999, AC (GRZYWOCZ et al. 2015); Kolonia Mechnica [BA98], 5 IV 2004, AC (GRZYWOCZ et al. 2015); “Las Murckowski” nat. res. [CA56], 2 X 2004, AC (GRZYWOCZ et al. 2015); Lasowice Małe [CB04], 30 IV 2013, AC (GRZYWOCZ et al. 2015); Ruda Śląska-Wirek [CA47], 28 X 1997, 2 VI 1999, AC (GRZYWOCZ et al. 2015); Stare Tarnowice [CA48], 2 V 2005, 5 V 2007, AC (GRZYWOCZ et al. 2015); Zabelków [CA03], 21 III 2010, AC (GRZYWOCZ et al. 2015).

**Kraków-Wieluń Upland:** Częstochowa [CB63], 8 VIII 1899–1903, \*\*\* (LGOCKI 1908); Kraków-Dębniaki [DA14], \*\*\* (BURAKOWSKI et al. 1986); Kraków-Łobzów [DA24], IV 1872–1873, \*\*\* (KOTULA 1873).

**Małopolska Upland:** “Małecz” nat. res. [DC31], 2010–2011, \*\*\* (BYK et al. 2013); Mianocice [DA38], 1872, \*\*\* (KULCZYŃSKI 1873); Radom-Koniówka [EB19], 3 I 1994, AC (RUTA et al. 2012); Radom: Las Kapturski [EB09], 7 XI 1999, AC (RUTA et al. 2012); Uroczysko Gutkowice [DC33], 2010–2011, \*\*\* (BOROWSKI et al. 2013); Uroczysko Rogów [DC31], 2010–2011, \*\*\* (BOROWSKI et al. 2013); Wola Owadowska [EC10], 1 III 1994, 23 XI 1995, AC (RUTA et al. 2012).

**Świętokrzyskie Mts.:** Cisów f. distr. [DB92], 2006, \*\*\* (BOROWSKI 2007).

**Lublin Upland:** \*\*\*

**Roztocze Upland:** Nart [FB50], 15 VII 1912, \*\*\* (TENENBAUM 1913).

**Sandomierz Lowland:** “Dębina” nat. res. [DA53], 17 IV 1999, AC (KLEJDYSZ and KUBISZ 2003); Niepołomice Forest, f. comp. 234 [DA53], 23 IV 2000, AC (KLEJDYSZ and KUBISZ 2003); Niepołomice Forest, f. comp. 255 [DA44], 25 XI 2000, AC (KLEJDYSZ and KUBISZ 2003).

**Western Sudetes:** Lubomierz [WS35], 25 VII–3 VIII 2002, AC (RUTA et al. 2012); Podgórzyn-Podzamcze [WS43], 1–8 VIII 1994, AC (BOROWIEC 1995).

**Eastern Sudetes:** \*\*\*

**West Beskid Mts.:** Barania Góra Mt. [CV59], \*\*\* (BURAKOWSKI et al. 1986); Radziejowa Mt. [DV77], \*\*\* (BURAKOWSKI et al. 1986).

**Nowy Targ Basin:** \*\*\*

**East Beskid Mts.:** Bircza [FA00], \*\*\* (BURAKOWSKI et al. 1986); Dziurcz Mt. [EV57], \*\*\* (BURAKOWSKI et al. 1986).

**Bieszczady Mts.:** Chryszczata Mt. [EV86], 24 VII 1967, leg. A. SZUJECKI, ISEA (D. KUBISZ, unpublished data); Ustrzyki Górne [FV14], \*\*\* (BURAKOWSKI et al. 1986); Wielka Rawka Mt. [FV08], \*\*\* (BURAKOWSKI et al. 1986); Wołosatka stream valley [FV33], 12 VI 1964, leg. J. PAWŁOWSKI, ISEA (D. KUBISZ, unpublished data).

**Pieniny Mts.:** \*\*\*

**Tatra Mts.:** \*\*\*

**General:** “Hrabstwo Kłodzkie” (Grafschaft Glatz) (LETZNER 1871, 1888, GERHARDT 1910); Przemyśl vicinity (TRELLA 1923b).

## Comments

KFP: 3716. *Mycetophagus (Ilendus) multipunctatus* FABRICIUS, 1792.

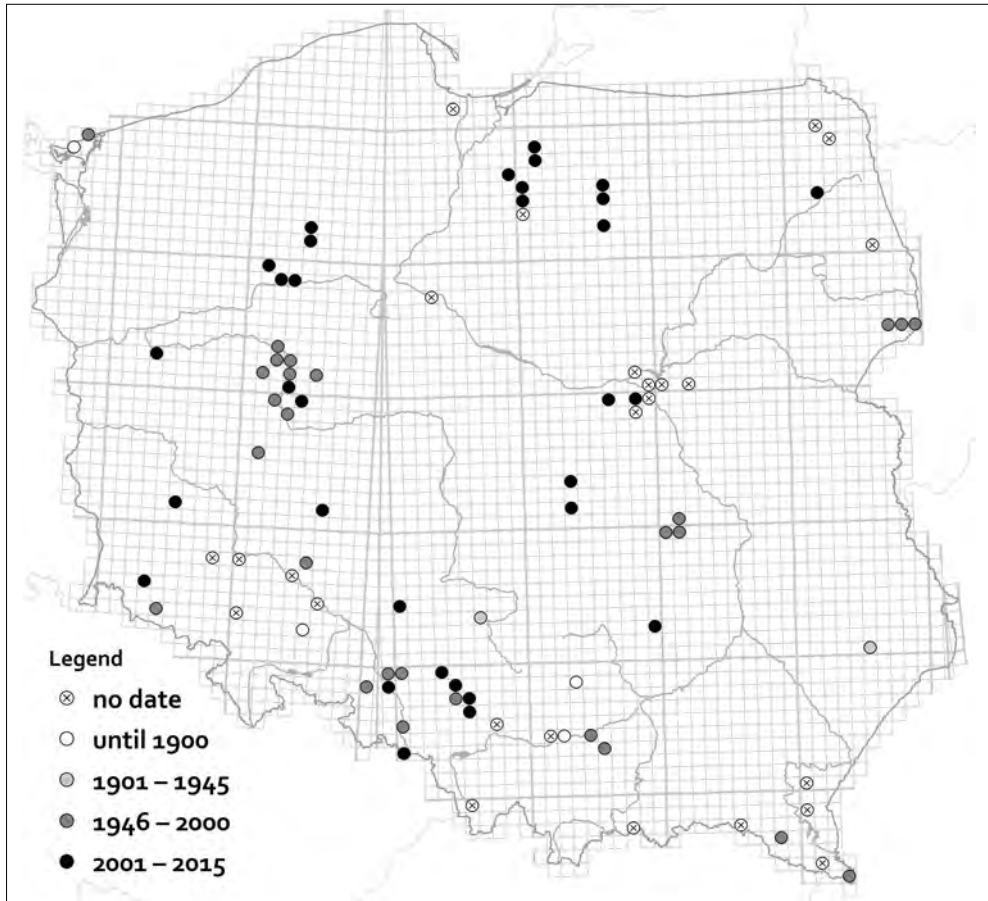


Fig. 3. Occurrence of *Mycetophagus (Ilendus) multipunctatus* in Poland.

*Mycetophagus multipunctatus* a. *fasciatus* TRELLA, 1930 (*terra typica*: Przemyśl vicinity) according to ICZN (Art. 45.5 and Art. 45.6.2) “a. *fasciatus*” should be treated as infrasubspecific name, so it is excluded from species group and is not regulated by the Code [Art. 1.3.4].

Found quite often all over Poland, and a comparatively small amount of literature data may probably be due to insufficient faunistic recognition of the whole family.

For the Palearctic distribution see Fig. 337.

### Subgenus *Mycetophagus* FABRICIUS, 1792

*Silphoides* HERBST, 1783

*Boletaria* MARSHAM, 1802

### *Mycetophagus (Mycetophagus) ater* (REITTER, 1879)

*Trientoma atra* REITTER, 1879

*Tritoma jaroslawensis* SEMENOV, 1898

### Distribution in Poland (Fig. 4)

**Baltic Coast:** \*\*\*

**Pomeranian Lake District:** \*\*\*

**Masurian Lake District:** \*\*\*

**Wielkopolska-Kujawy Lowland:** \*\*\*

**Mazovian Lowland:** “Jedlnia” nat. res. [EB29], 5 IX 2011, AC (RUTA et al. 2012); Kieszek [EC20], 11 V 2009, AC (RUTA et al. 2012); “Leniwa” nat. res. [EC20], 5 IX 2009, AC (RUTA et al. 2012); Sieraków [DC89], 6 V–8 VII 2011, AC (MARCZAK and MASIARZ 2013); Zaborów Leśny [DC89], 6 V–8 VI 2011, AC (MARCZAK and MASIARZ 2013); “Załamanek” nat. res. [EC20], 31 V 2008, AC (RUTA et al. 2012); Zamczysko [DC69], 6 V–11 IX 2011, AC (MARCZAK and MASIARZ 2013).

**Podlasie Lowland:** Dubica [FC44], VII 2004, AC (RUTA et al. 2012); Ruchenka [ED70], 5 V–2 IX 2009, AC (PLEWA et al. 2014).

**Białowieża Primeval Forest:** Hajnówka f. div. [a.FD74], V–VII 2000, \*\*\* (BOROWSKI 2001, BYK 2001); “Nieznanowo” nat. res. [FD74], 12 V–6 IX 2011, AC (PLEWA et al. 2014); Sacharewo [FD74], 2 VII–2 IX 2009, 28 IV–24 V 2010, AC (PLEWA et al. 2014); “Starzyna” nat. res. [FD73], 6 VI–6 IX 2011, AC (PLEWA et al. 2014); Białowiecki N. P., without precise locality [a.FD94], V 2000, \*\*\* (BOROWSKI 2001); Białowieża Primeval Forest, without precise locality [a.FD94], 2000, 2004, \*\*\* (BYK et al. 2006).

**Lower Silesia:** \*\*\*

**Trzebnica Hills:** \*\*\*

## SPECIES WITH DOUBTFUL OR NOT CONFIRMED PRESENCE IN POLAND

Family MYCETOPHAGIDAE LEACH, 1815

*Berginus tamarisci* WOLLASTON, 1854

### Reported occurrence data

**General:** Poland, introduced (NIKITSKY 2008).

### Comments

KFP: absent.

A Mediterranean species, occasionally introduced to colder regions together with greenhouse plants (BOROWIEC and TARNAWSKI 1983). Never recorded from Poland. The reference in CPC on its occurrence in our country cannot be a basis for counting it among Polish fauna.

For the Palaearctic distribution see Fig. 351.

*Pseudotriphyllus suturalis* (FABRICIUS, 1801)

*Dermestes suturalis* FABRICIUS, 1801

### Reported occurrence data

**Roztocze Upland:** Grele [FB40], 27 VII 1911 or 1912, \*\*\* (TENENBAUM 1913).

### Comments

KFP: –. *Pseudotriphyllus suturalis* (FABRICIUS, 1801).

A species reported from Poland only once in the beginning of the 20<sup>th</sup> century, but, according to KFP, there are no voucher specimens in the collection by Sz. TENENBAUM (MIZ). Also NIKITSKY (2008) does not record this species from Poland.

For the Palearctic distribution see Fig. 360.

## Family CIIDAE LEACH, 1819

### *Diphyllocis opaculus* (REITTER, 1878)

*Ennearthron opaculum* REITTER, 1878

#### Reported occurrence data

**West Beskid Mts.:** without precise locality: “Beskiden bei Teschen, Reitter leg.” (HORION 1961).

#### Comments

KFP: 3755. *Diphyllocis opaculus* (REITTER, 1878).

The species has never been reliably recorded from the territory of Poland. Its localities, given by the author in the description of the species: “...in den Ausläufern der Teschner Beskiden” (REITTER 1878b), “schlesischen Beskiden” (REITTER 1878), do not clearly state its presence in Poland, but rather concern present Czech Republic (Zaolzie). Moreover, JELINEK (2008) does not record this species either from Poland or Czech Republic, but only from Slovakia.

For the Palearctic distribution see Fig. 246.

Classified in the category EX? on the Polish Red List (PAWŁOWSKI et al. 2002).

### *Strigocis bicornis* (MELLIÉ, 1848)

*Cis bicornis* MELLIÉ, 1848

#### Reported occurrence data

**General:** Beskid Mts. (Beskiden) (REITTER 1878b, ŁOMNICKI 1891); Silesia (ŁOMNICKI 1891, JAKOBSON 1915).

#### Comments

KFP: –. *Sulcacis bicornis* (MELLIÉ, 1849).

A southern species recorded vaguely more than 100 years ago from Silesia and the

Beskid Mountains; never clearly reported from Poland. In the above-mentioned areas, discovered only in the Czech Republic (JELINEK 2008).

For the Palaearctic distribution see Fig. 382.

## Family MORDELLIDAE LATREILLE, 1802

### *Mediimorda bipunctata* (GERMAR, 1824)

*Mordella bipunctata* GERMAR, 1824

#### Reported occurrence data

**General:** Poland (ŁOMNICKI 1913).

#### Comments

KFP: –. *Mediimorda bipunctata* (GERMAR, 1824).

According to BOROWIEC and KUBISZ (1999), this species was recorded only generally from Poland based on a specimen collected in Podolia (Ukraine).

For the Palaearctic distribution see Fig. 267.

### *Mordella huetheri* ERIMISCH, 1956

#### Reported occurrence data

**Masurian Lake District:** Szeroki Bór [EE44], VIII 1955, \*\*\* (ERMISCH 1963).

**General:** Western Poland (HORION 1971).

#### Comments

3818. *Mordella huetheri* ERMISCH, 1956.

BOROWIEC (1996), in the monograph Mordellidae of Poland, at the species *Mordella aculeata* LINNEUS, 1758 gives a synonym *Mordella huetheri* ERMISCH, 1956. He explains his decision as follows: “*Mordella huetheri* ERMISCH is within the range of variability of *M. aculeata*”. This statement cannot be treated as a valid taxonomic decision, as the conditions imposed by ICZN have not been met. The suggestion by BOROWIEC from 1996 was supported in the publication from 1999 (BOROWIEC and KUBISZ), so the data on both above-mentioned species presented in this work were combined and attributed to *M. aculeata*. Presently, both species are still treated as separate (HORÁK 2008). Before the labelling of specimens identified so far as *M. aculeata* is checked, the authors propose to not count *M. huetheri* among the fauna of Poland.

For the Palaearctic distribution see Fig. 285.

***Mordellistena (Mordellistena) confinis* COSTA, 1854**

*Mordellistena africana* ROUBAL, 1911

**Reported occurrence data**

**Lower Silesia:** Malczyce (Maltsch) [XS07], VII 1915, MNHW (KOLBE 1919); Piorunkowice (Schweinsdorf) [XR78], 1902, \*\*\* (GERHARDT 1903, 1910); Wrocław (Breslau) [a.XS46], \*\*\* (LETZNER 1870c).

**Comments**

KFP: –. *Mordellistena (Mordellistena) confinis* COSTA, 1854.

The data by LETZNER (1889b) do not pertain to Cieszyn, but to “Duchy of Cieszyn” (Fürstenthum Teschen); moreover, LETZNER himself states that it is just probable, because he has received the specimens from SEIDLITZ. According to ERMISCH (1956) and HORAK (2008), it is a strictly Mediterranean species, and records from Central Europe were based on misidentifications. BOROWIEC and KUBISZ (1999) found in Polish collections two specimens of *Mordellistena variegata* determined as *M. confinis*. One of them, from Malczyce (Lower Silesia), was recorded as *M. confinis* by KOLBE (1919).

For the Palearctic distribution see Fig. 295.

***Mordellistena (Mordellistena) episternalis* MULSANT, 1856**

*Mordella extensa* ROSENHAUER, 1856

**Reported occurrence data**

**Pomeranian Lake District:** Wejherowo (Neustadt) [CF25], \*\*\* (LENTZ 1879).

**Lower Silesia:** Legnica (Liegnitz) [WS87], 1901, \*\*\* (GERHARDT 1902c); Raszówka (Vorderhaide) [WS88], 1901, \*\*\* (GERHARDT 1902c); Zimna Woda (Kaltwasser) [WS78], 1901, \*\*\* (GERHARDT 1902c).

**Roztocze Upland:** Nart [FB50], VI, \*\*\* (TENENBAUM 1918).

**Comments**

KFP: –. *Mordellistena (Mordellistena) episternalis* MULSANT, 1856.

According to BOROWIEC and KUBISZ (1999), this species occurs only in southern Europe, and records from our region were based on misidentifications. The cited authors found in Polish collections several specimens of *Mordellistena brevicauda* identified as *M. episternalis*. One of them, from the vicinity of Legnica (Lower Silesia), was recorded as *M. episternalis* by GERHARDT (1902c). The locality in the Pomeranian Lake District was also questioned by BERCIO and FOLWACZNY (1979) as misidentification.

For the Palearctic distribution see Fig. 299.



# META-ANALYSIS OF THE OCCURRENCE DATA

## Introduction

The information on tenebrionoid species in Poland, held in occurrence records and presented in the catalogue part of this volume, needs at least a brief summary at species and family levels. The purpose of this chapter is to provide an overview of knowledge on distribution of the taxa in the country, using a number of parameters and basic generalisations describing history, intensity and completeness of entomological research. Besides, it may be useful for planning future research activities.

This is the final volume, completing the update on distribution of Tenebrionoidea in the country, started with IWAN *et al.* 2012 and KUBISZ *et al.* 2014. At this point, it is worth mentioning that it is probably the first time in the history of Polish coleopterology that distribution of a group is documented in detail so extensively. In case of Tenebrionoidea, it is ca. 41% of UTM 1010 km grid squares of the country (1390 out of the 3384). It is summarized on the map on page 540.

## Methods

The distribution data were converted into a database, further augmented with GIS extensions necessary for geographic analyses. Some of the source materials did not contain complete detailed information on the occurrence dates and/or localities, and, as a consequence, many records are only partially useful for specimen-based analyses. As filling these gaps in the database would be too time consuming or even impossible, the records themselves served mainly as a linkage for the statistics used in the presented summarizing tables and general maps.

Geographic precision of the analysed occurrence data was diverse, from quite accurate village names, through grid-based UTM 10×10 km squares, to a more or less inaccurate regional level. A basis for spatial calculations needed for this chapter was the UTM grid, and assignment of a UTM square to a larger unit (district or region) depended on the position of its centroid. In cases where a centroid

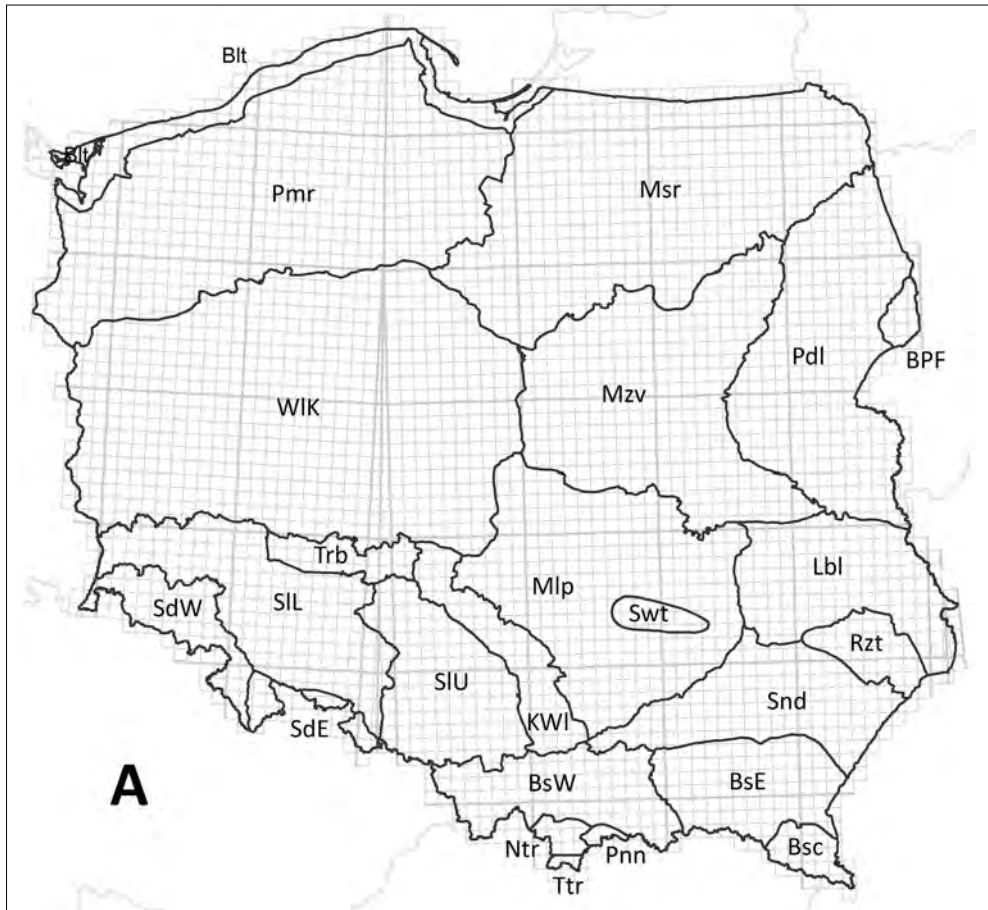


Fig. 171a. Regionalisation systems and grids used in this volume. UTM grid in light gray. Small squares in most cases have a width of 10 km. Regional division (black) of Poland introduced in the *Catalogus Faunae Poloniae* (KFP), referred to in the text as KFP regions. Blt – Baltic Coast, BPF – Białowieża Primeval Forest, Bsc – Bieszczady Mts., BsE – East Beskid Mts., SdE – Eastern Sudetes, KWI – Kraków-Wieluń Upland, SIL – Lower Silesia, Lbl – Lublin Upland, Mlp – Małopolska Upland, Msr – Masurian Lake District, Mzv – Mazovian Lowland, Ntr – Nowy Targ Basin, Pnn – Pieniny Mts., Pdl – Podlasie Lowland, Pmr – Pomeranian Lake District, Rzt – Roztocze Upland, Snd – Sandomierz Lowland, Swt – Świętokrzyskie Mts., Ttr – Tatra Mts., Trb – Trzebnica Hills, SIU – Upper Silesia, BSW – West Beskid Mts., SdW – Western Sudetes, WIK – Wielkopolska-Kujawy Lowland.

falls outside the country border line, the UTM square was assigned to a unit nearest to its centroid, and where the square overlaps more than one unit, the unit with the largest overlap area was assigned.

In the presented analyses, the following terms are used to describe the distribution of each taxon: “coverage” as an estimate of the real area occupied,

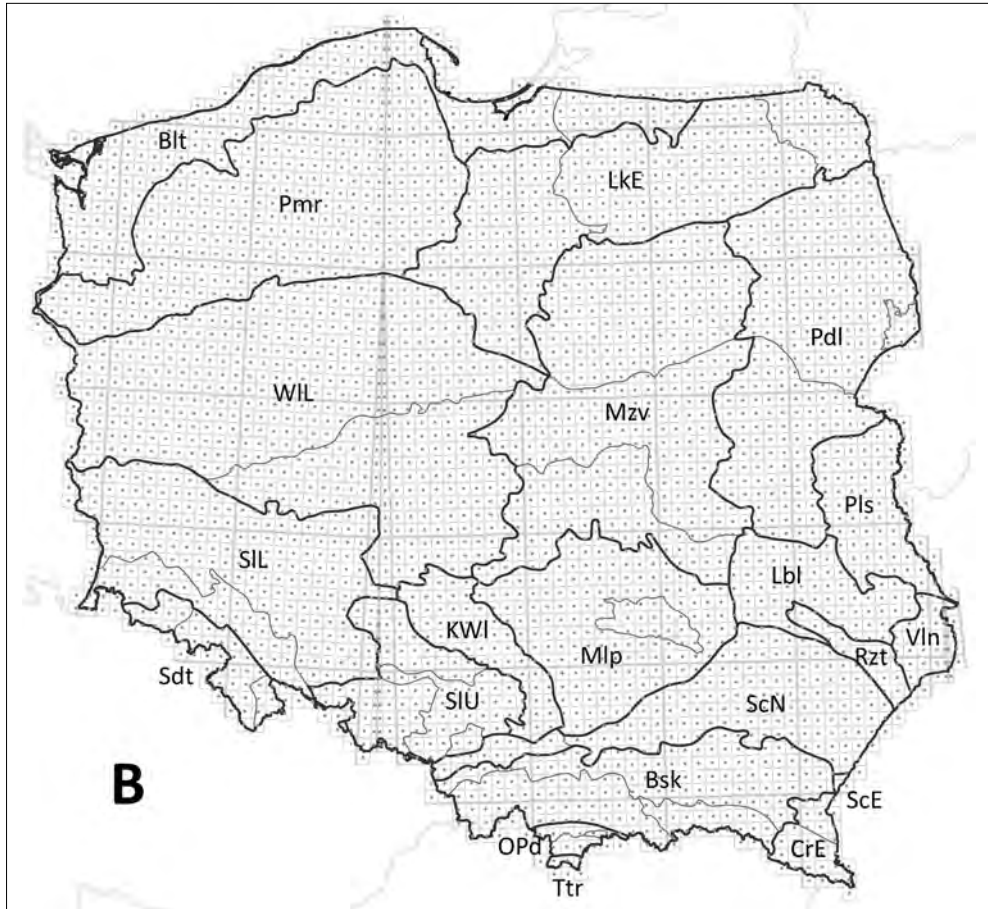


Fig. 171b. Regional division (main units in black, subunits in dark grey) used for estimating within-country extent of distribution of species, calculated by assigning centroids (dots) of UTM squares of species occurrences to a containing unit (for details see Methods). Blt – Baltic Coastlands, Bsk – Beskid Mts. and Foothills, CrE – Eastern Carpathians, KWI – Kraków-Wieluń Upland, Lbl – Lublin Upland, LkE – Eastern Lakelands, Mlp – Małopolska Upland, Mzv – Mazovia, OPd – Orawa-Podhale, PdI – Podlasie, Pls – Polesie, Pmr – Pomeranian Lakeland, Rzt – Roztocze, ScE – Eastern Subcarpathia, ScN – Northern Subcarpathia, Sdt – Sudety Mts., SIL – Lower Silesia, SIU – Upper Silesia, Ttr – Tatra Mts., Vln – Volhynian Upland, WIL – Wielkopolska-Lubusz.

expressed as a number of UTM squares; “extent” as a measure of spread, a proxy of which is the number of regions. The term “regions” used here refers to lower-level areas of the proposed regionalisation system (TYKARSKI 2011b), based on the physiogeographical regionalization of Poland by KONDRACKI (2002), planned to become a successor of the imprecise legacy KFP regions (Fig. 171a). The purpose of their use in the analysis was to provide a convenient way for approximations of the physical extent of species distribution in the country, not connected to the artificial administrative division and sufficiently detailed for analyses of distribution at the country level (Fig. 171b).

In the current and previous volumes of *Coleoptera Poloniae* (IWAN et al. 2012, KUBISZ et al. 2014), we made use of several methods of mapping species distributions, keeping the KFP division (Fig. 171a) for traditionally fashioned listing of occurrence sites in the catalogue part, UTM grid coordinates for the localities themselves and species maps, and different systems in meta-analyses.

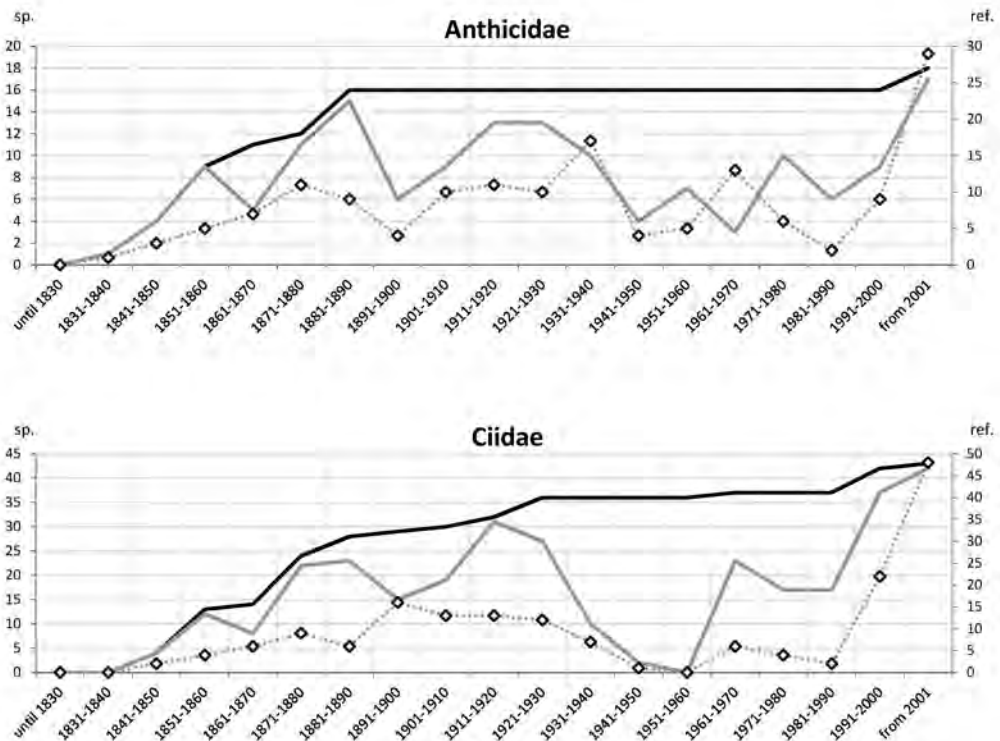


Fig. 172a. Changes over time in the number of species and number of publications on tenebrionoid families. Solid black lines – cumulative count of species, solid grey lines – count of species per period, dotted lines – count of publications per period. Abbreviations: sp. – species, ref. – publications.

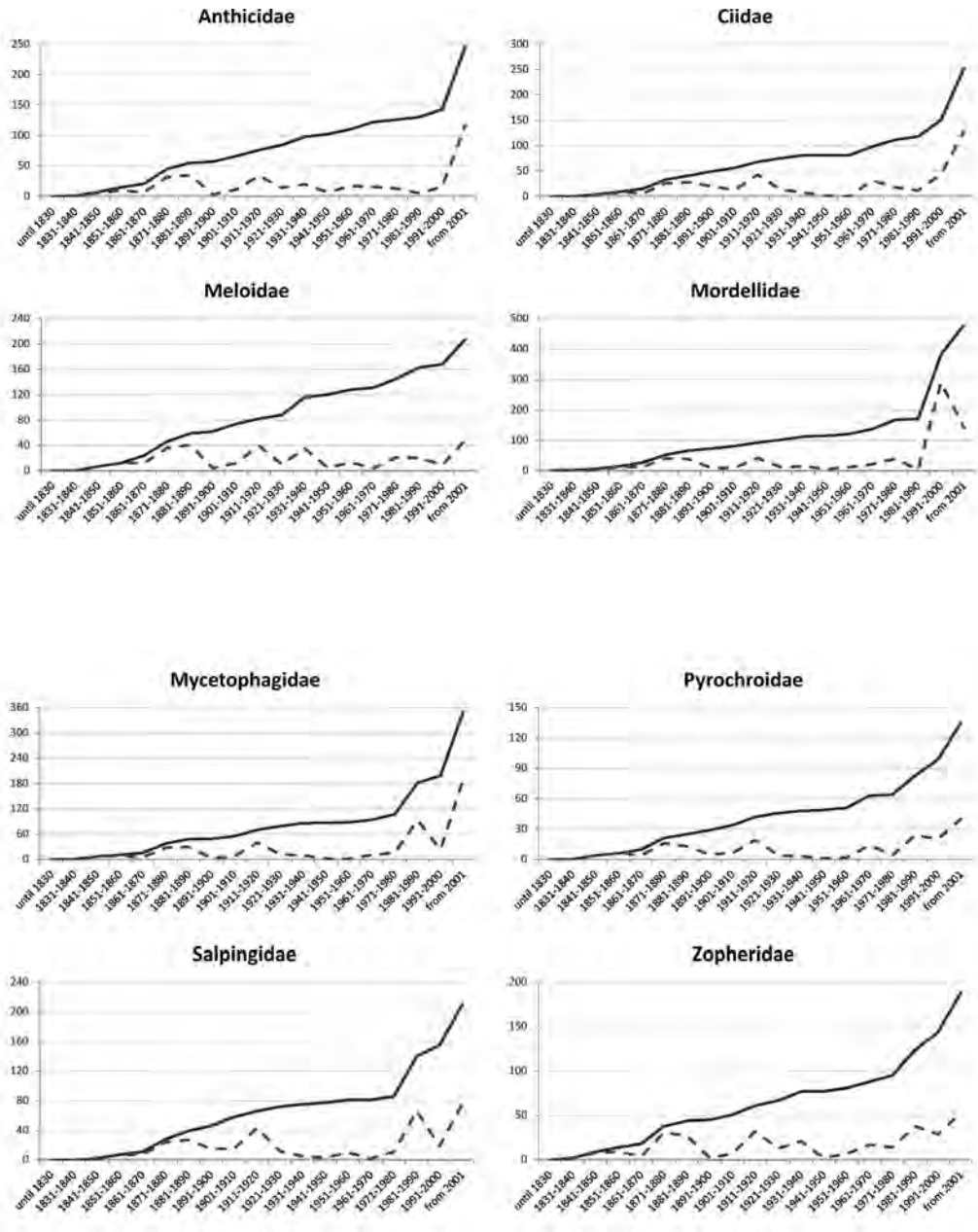


Fig. 173. Changes over time in the number of UTM squares corresponding to original localities of tenebrionid studies in the analysed sources. Solid lines – cumulative count of UTM squares, dashed lines – count of UTM squares per period.

The Biodiversity Map project, its website and on-line tools made it possible to integrate existing mapping systems used in Polish faunistics, which was not achievable before. A user may now easily switch between or overlay many regional divisions, provided that available occurrence locality data are accurate enough.

The maps and spatial calculations for this volume were prepared with ArcGIS Desktop 10.3.

### Research dynamics and family-level data overview

The earliest publications reporting occurrence of species presented in this volume pertained to mordellids *Curtimorda maculosa* (SCHILLING 1830) and *Toxoxia bucephala bucephala* (SCHILLING 1835), both recorded from Lower Silesia.

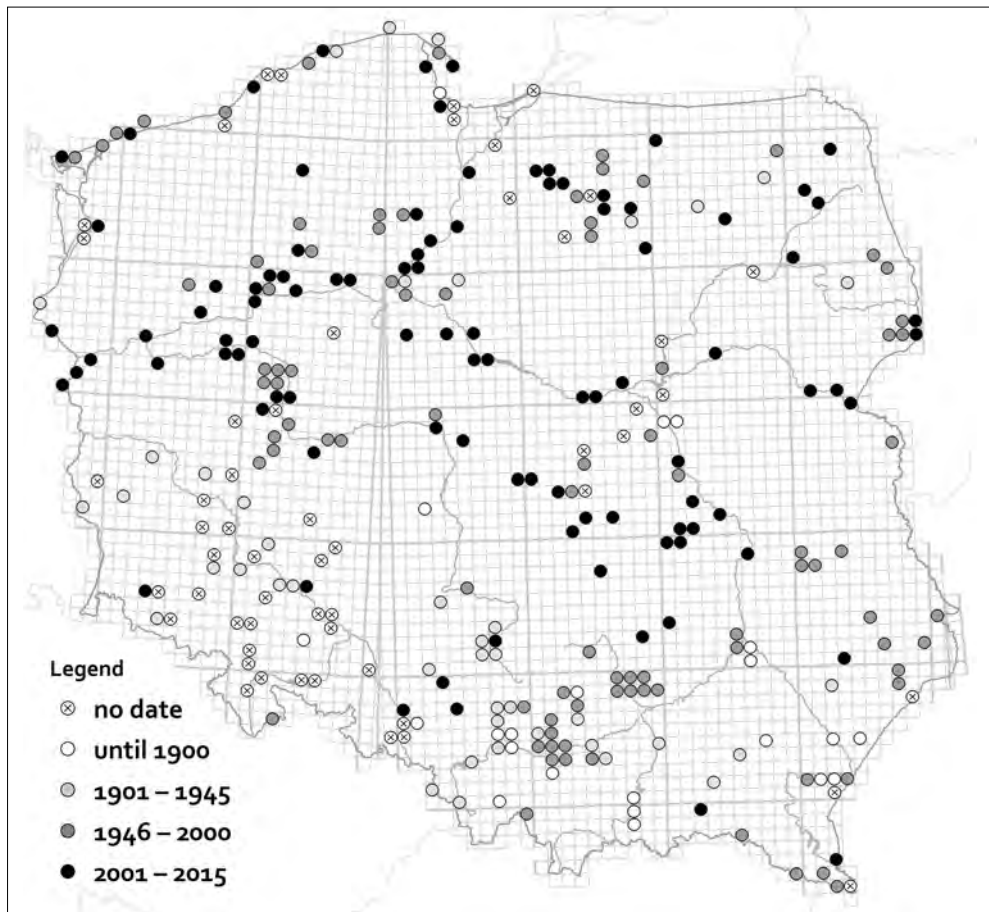


Fig. 174a. Year of the last publication on Anthicidae for each UTM square.

Pooled species distribution data (Fig. 183) reveal that, for more 48% (439) of the analysed UTM squares, only one or two species of the 8 families are known. Only in 7% (61) of the squares, the local inventory exceeded 20 species, and only in less than 1% (6 squares) more than 50 species were reported. The richest areas are Białowieża Primeval Forest (96 species), followed by Wrocław (73), vicinities of Legnica (70), neighbourhood of Hajnówka (western parts of Białowieża Forest, 58 species), vicinities of Przemyśl (58), and Kraków (56).

Species inventories of different parts of the country depend on the intensity of entomological research and, to some extent, may reflect rather this factor than the diversity of species itself. Here, we used the number of publications as a measure

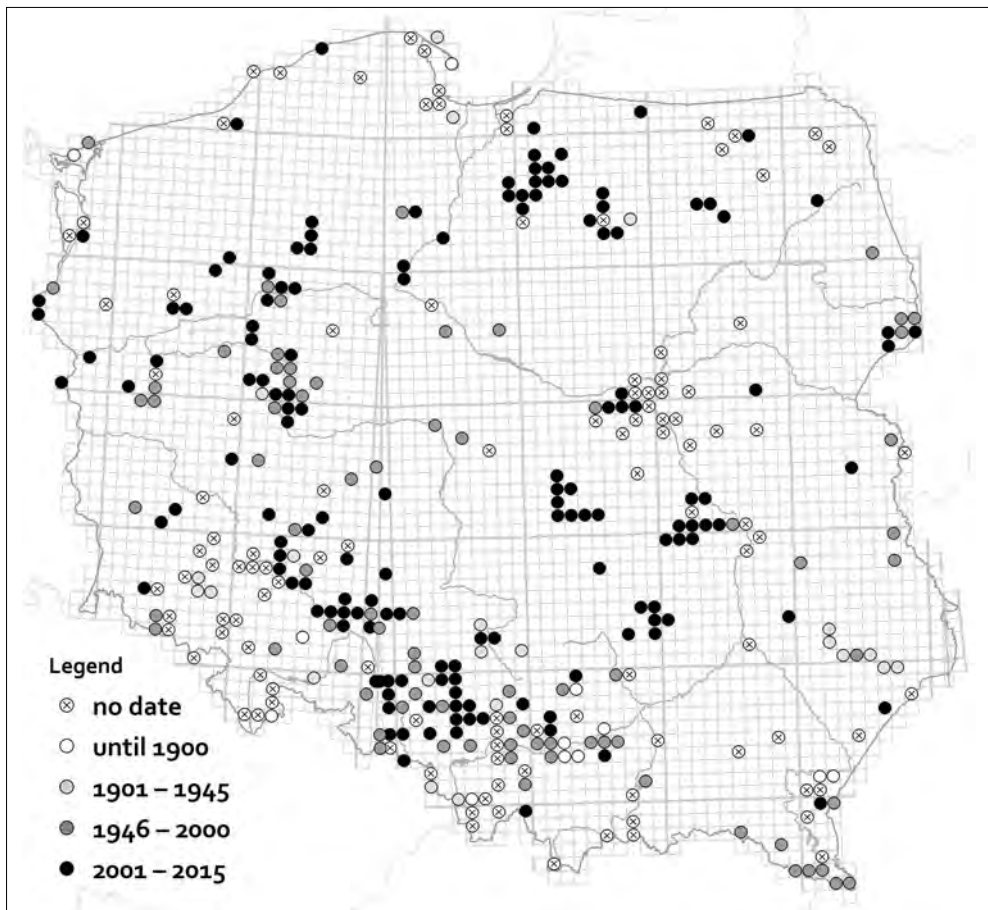


Fig. 178a. Year of the last publication on Mycetophagidae for each UTM square.

of the research intensity, and the comparison between the maps of distribution of species richness and the number of publications (figs. 183 and 184) confirms the relationship between these two measures. Similarly to the former meta-analyses of Tenebrionidae (IWAN *et al.* 2012, KUBISZ *et al.* 2014), the most intensively investigated (and species-rich) areas comprise Gdańsk, Poznań, Białowieża Primeval Forest, Warsaw, Upper and Lower Silesia, Cracow, and Przemyśl vicinities in the South-East of the country. 66% of areas (607) were cited in only 1 or 2 papers, and less than 3% (26) of UTM squares are documented in more than 10 papers (Fig. 184).

According to the analysed sources, more species of the 8 tenebrionoid families

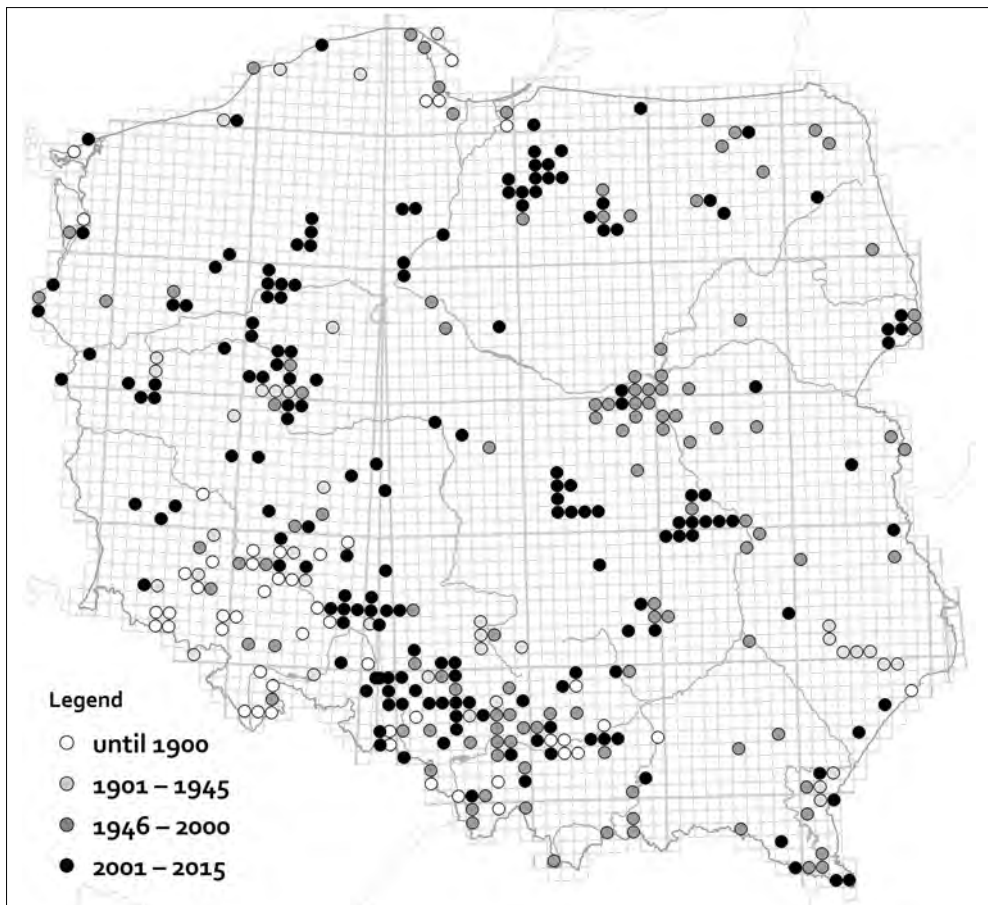


Fig. 178b. Year of the first publication on Mycetophagidae for each UTM square.



Table 2. Summary of information obtained from the collections in the analysed material.  
 DEIC – Deutsches Entomologisches Institut, Eberswalde, Germany; ISEA – Institute of Systematics and Evolution of Animals PAS, Cracow; MIZ – Museum and Institute of Zoology PAS, Warsaw; Private – private collections; MNHW – Museum of Natural History, Wrocław University; MTD – Museum für Tierkunde, Dresden, Germany; MZLU – Lund University, Sweden; USMB – Upper Silesian Museum, Bytom.

Collection	Records	UTM sq.	Unique UTM sq.	Species	Unique species
private	1849	365	235	148	24
ISEA	1664	286	170	125	13
MIZ	497	145	60	35	–
USMB	209	26	10	45	1
MNHW	113	30	15	22	–
MZLU	6	2	–	1	–
DEIC	5	1	–	1	–
MTD	1	1	–	1	–
Pieniński N. P.	1	1	–	1	–

Table 3. Summary of data on species of the tenebrionoid families occurring in Poland, based on the whole analysed material.

Column headers: UTM sq. – number of UTM 10×10 km squares, districts – count of districts, regions – count of regions (see Methods), f. ref. yr – year of the first publication, l. ref. yr – year of the last publication, refs – references count, f. rec. yr – year of the first record, l. rec. yr – year of the last record, collections – collections holding specimens of the species; B – USMB (Upper Silesian Museum, Bytom), D – MTD (Museum für Tierkunde, Dresden, Germany), E – DEJC (Deutsches Entomologisches Institut, Eberswalde, Germany), K – ISEA (Institute of Systematics and Evolution of Animals PAS, Cracow), P – private collections, Pn – coll. of Pieniński N.P., W – MIZ (Museum and Institute of Zoology PAS, Warsaw), Wr – MNHW (Museum of Natural History, Wrocław University)

species	UTM sq.	districts	regions	f. ref. yr	l. ref. yr	refs	f. rec. yr	l. rec. yr	collections
Anthicidae									
<i>Anthicus antherinus antherinus</i>	64	47	21	1856	2013	22	1871	2006	P K
<i>Anthicus ater</i>	16	13	8	1856	2013	14	1923	2006	P K
<i>Anthicus axillaris</i>	14	13	11	1885	2013	9	1872	2005	P K
<i>Anthicus bimaculatus</i>	27	24	8	1837	2014	30	1854	2009	P K
<i>Anthicus crinitus</i>	1	1	1	2015	2015	1	2007	2007	P
<i>Anthicus flavipes flavipes</i>	38	37	15	1842	2014	22	1869	2013	P K
<i>Anthicus luteicornis</i>	5	5	5	1885	2011	6	1866	2007	P
<i>Anthicus sellatus</i>	38	34	11	1842	2014	28	1864	2013	P K
<i>Cordicollis gracilis</i>	28	23	10	1853	2011	21	1854	2009	P K
<i>Cyclodinus humilis</i>	6	6	3	1868	2015	6	1986	2009	P K
<i>Hirticollis hispidus</i>	9	9	8	1888	2011	8	1899	2007	P K
<i>Mecynotarsus serricornis</i>	13	12	6	1856	2014	13	1854	2011	P
<i>Notoxus brachycerus</i>	11	11	6	1871	1949	8	1881	1978	K
<i>Notoxus monoxeros</i>	158	100	23	1866	2013	81	1863	2010	P K
<i>Notoxus trifasciatus</i>	24	20	12	1853	2011	10	1876	2008	P K
<i>Omonadus floralis</i>	73	57	22	1842	2011	30	1872	2009	P K
<i>Omonadus formicarius formicarius</i>	34	26	15	1890	2011	10	1985	2007	P K
<i>Striticollis tobias</i>	6	6	5	2011	2014	2	1998	2012	P

### Species data summary

The below-outlined species statistics are summarized in Table 3.

The highest coverage, more than 150 UTM squares, had *Mycetophagus quadripustulatus* (166), *Notoxus monoceros* (158), *Mordellistena pumila* (147), *Variimorda villosa* (140), and *Litargus connexus* (139). The same species occurred in the highest number of districts, i.e. administrative units usually at least a few times larger than UTM 10 × 10 km squares.

The largest distribution extent, measured at a level of regions, was found for *Variimorda villosa* (32), followed by *Mycetophagus quadripustulatus*, *Mordellistena pumila*, *Mordella holomelaena holomelaena*, and *Schizotus pectinicornis* (ex aequo 28).

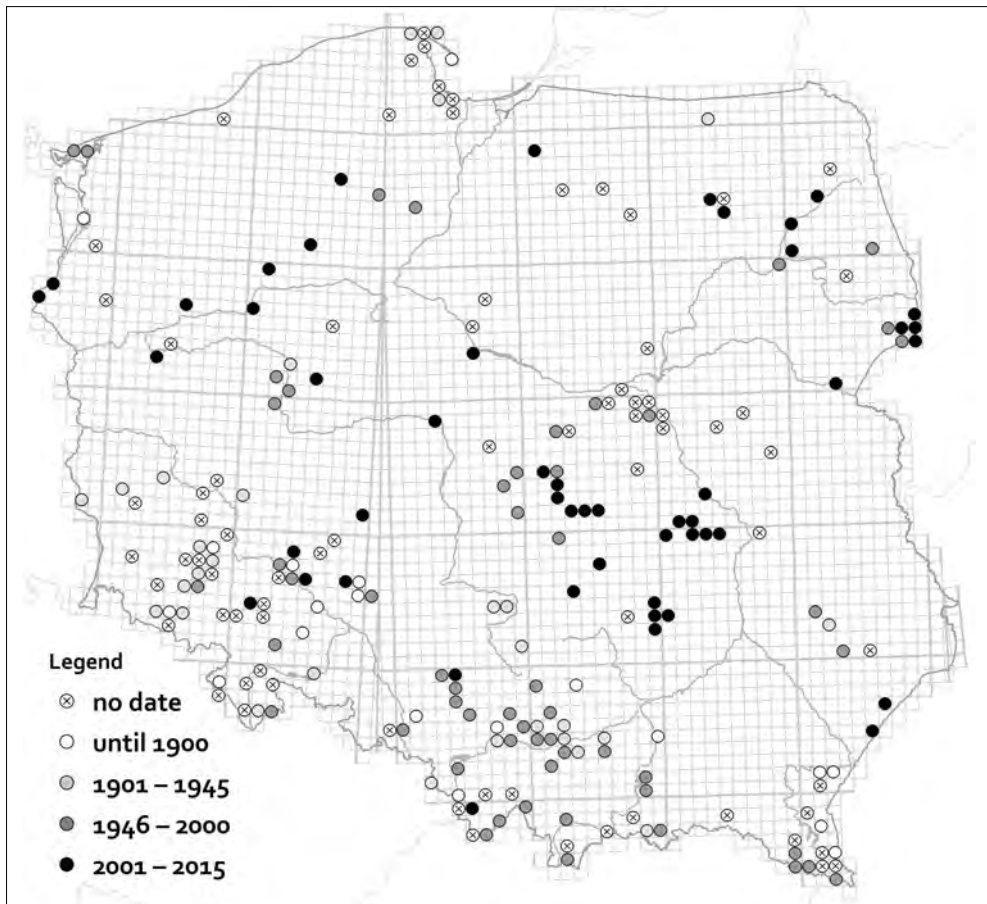


Fig. 180a. Year of the last publication on Salpingidae for each UTM square.

The lowest coverage and extent scores belong to *Anthicus crinitus*, *Ennearthron pruinosulum*, *Conalia baudii*, *Diodesma subterranea*, *Lasconotus jelskii*, *Mordella viridescens*, *Mordellistena breddini*, *M. perroudi*, *M. pseudobrevicauda*, *M. rufifrons*, and *Mordellochroa milleri*, reported from merely 1 UTM square.

The species reported in the earliest papers from Poland were *Curtimorda maculosa* (1830) and *Tomoxia bucephala bucephala* (1835). The other end is represented by recent findings, mentioned for the first time in the 21<sup>st</sup> century: *Anthicus crinitus* (in 2007), *Conalia baudii* (2004), *Ennearthron pruinosulum* (2003), and *Mordellistena rufifrons* (2008). A number of species has been not reported for quite a long time. The species with the longest period without any fresh records,

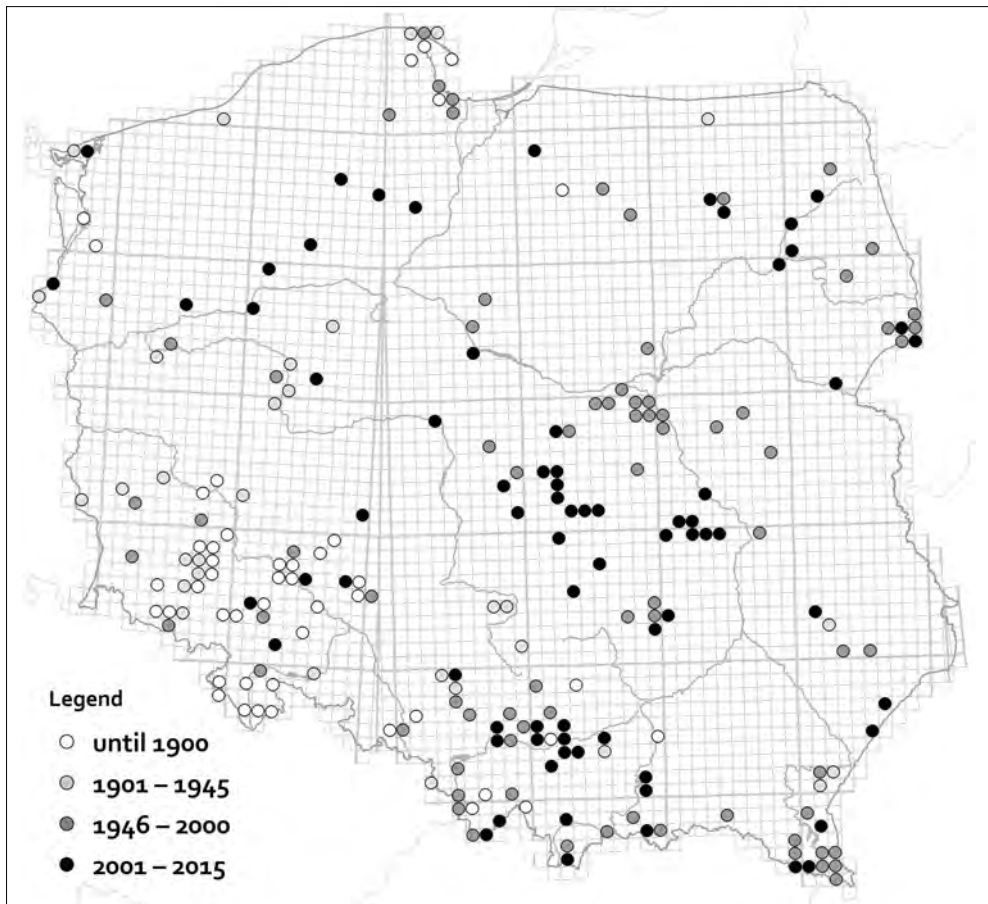


Fig. 180b. Year of the first publication on Salpingidae for each UTM square.

The main question is whether comparing this relationship in different species can be helpful to understand their status in terms of rarity or other distribution parameters. In theory, given the comparable and satisfactory degree of representativeness of data, it should be possible. In case of species with similar extent, but different in numbers of publications that report them, like *Mordella brachyura* (24 regions, 11 papers) and *Notoxus monoceros* (23 regions, 81 papers) it could be interpreted as a difference in rarity. A case of species of similar number of references and with different extents, like *Rhopalocerus rondanii* (11 papers, 3 regions) and *Mordella brachyura* (11 papers, 24 regions) could be just an evidence of differences in distribution of the species. But, except of the unfulfilled

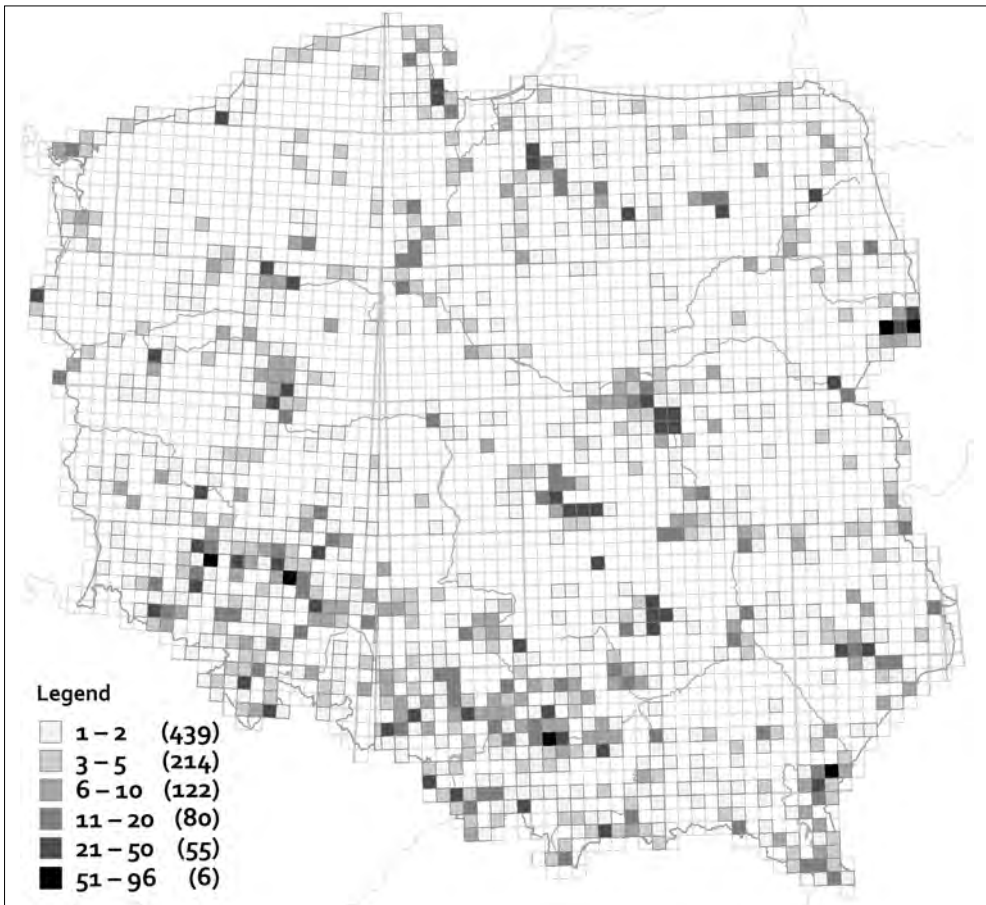


Fig. 182. Total number of species in the analysed material for each UTM square. Number of UTM squares for each class given in parentheses.

assumption on representativeness of the data, there are other factors affecting the relationship. Some of them could be classified as subject-dependent, like popularity of a species resulting from various reasons (e.g. visual attractiveness), that would increase the number of publications, or the opposite effects caused by lack of interest due to real commonness of species (“it is everywhere, not worthy of attention”). The other group, more object-dependent, could include taxonomical

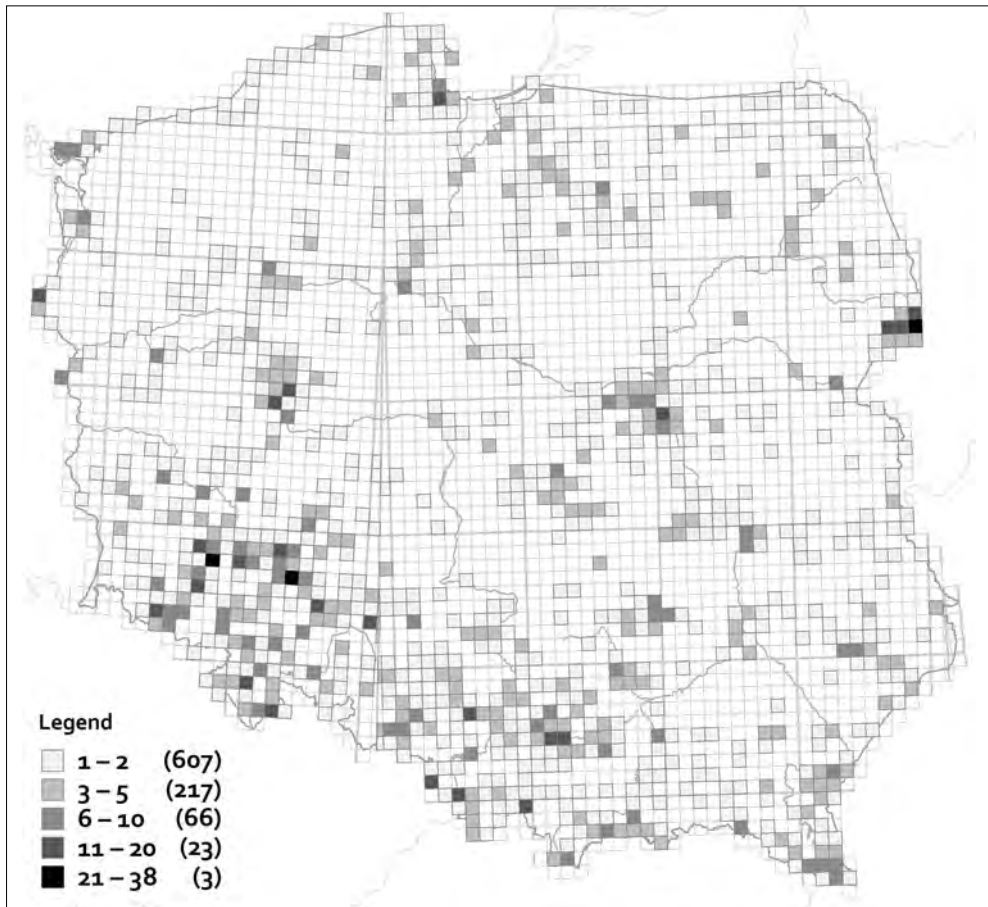


Fig. 183. Intensity of research on the analysed tenebrionoid species in Poland expressed as number of publications per UTM square. Number of UTM squares for each class given in parentheses.

difficulties in classification of some species, decreasing reporting activities or obscure and little known biology, resulting in similar effects. This could be also the case of species in expansion, observed in its early phases. Therefore, at the moment, relationships illustrated in p. 540, as well as most of the presented species statistics, should be treated as a snapshot of the process of accumulation of knowledge on the species distribution.

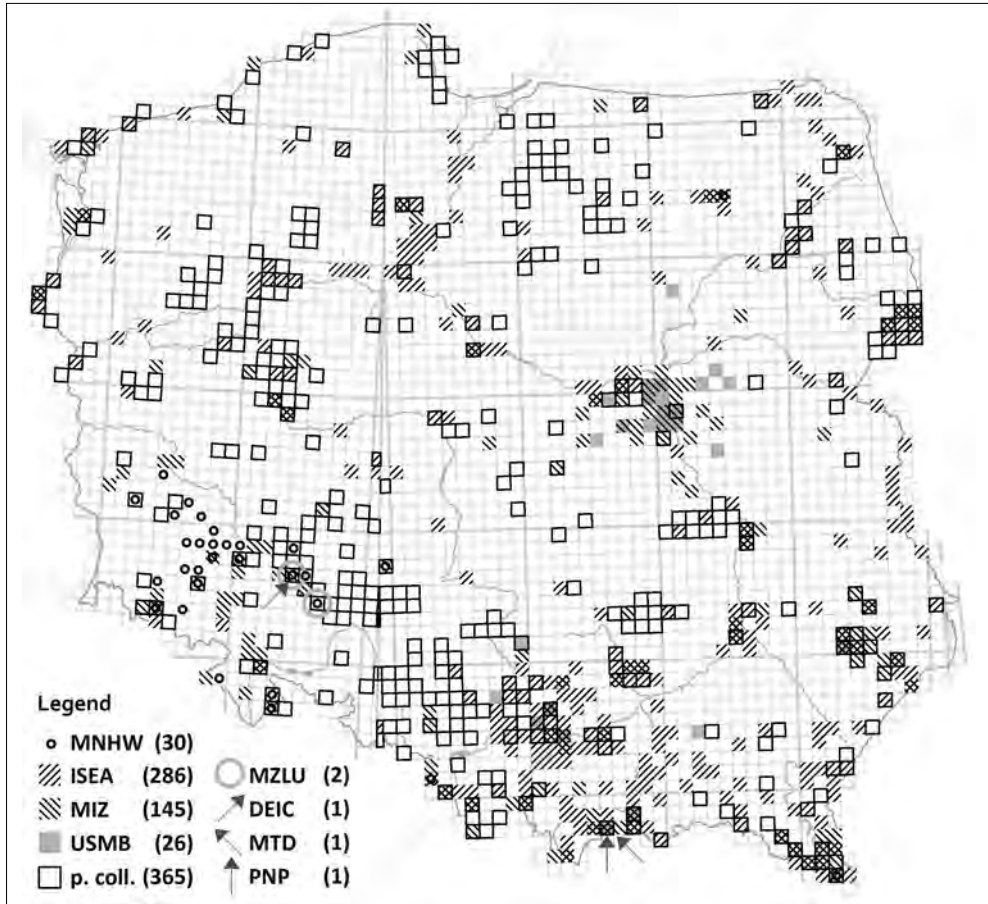


Fig. 184. Distribution of original collection localities of specimens of the analysed tenebrionoid from entomological collections used. Number of UTM squares for each class given in parentheses.

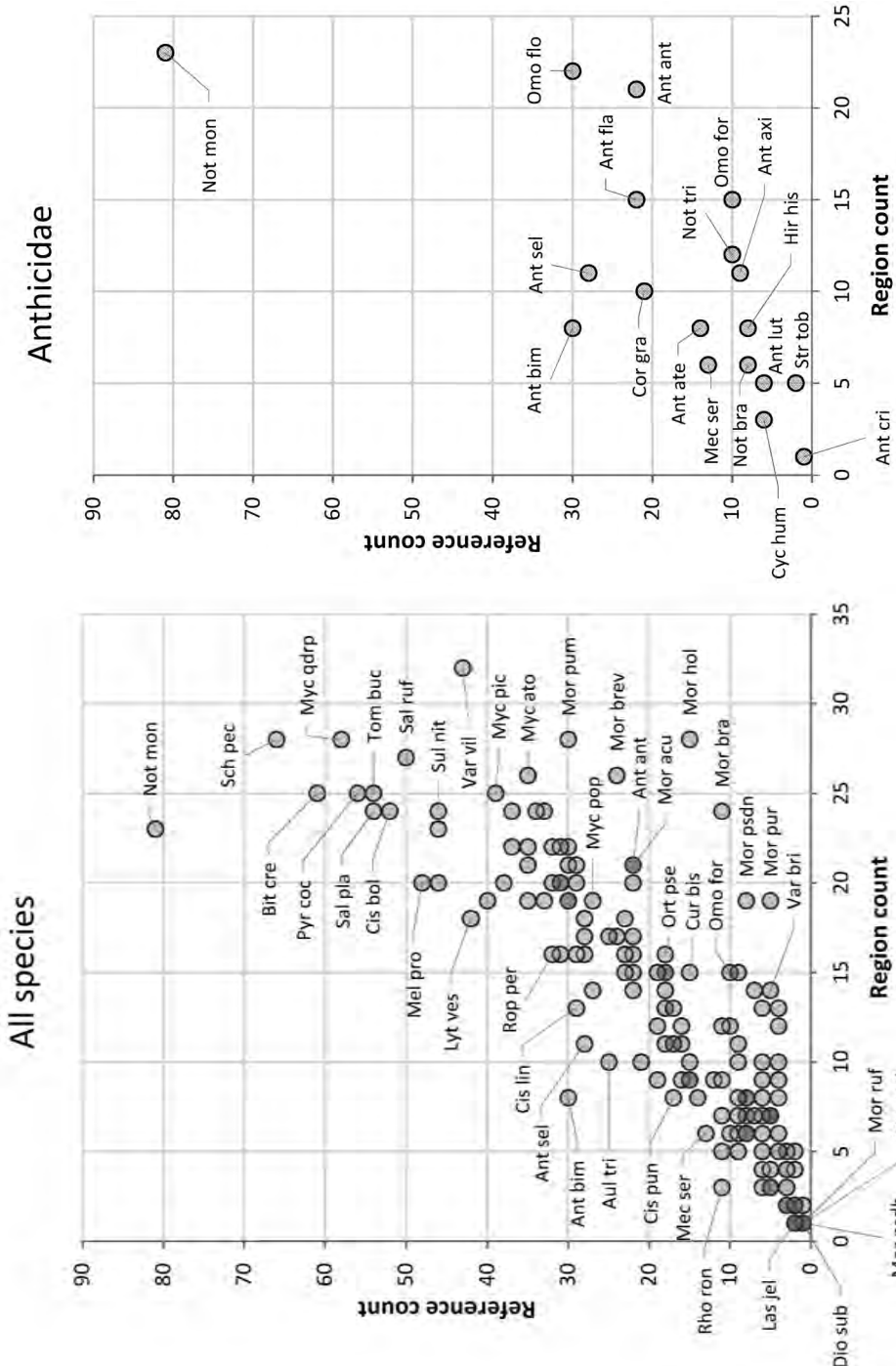


Fig. 185a. Relationship between the extent of distribution in Poland, measured by number of regions of occurrence and publication count (for details see Methods). Darker dots symbolise overlapping species data. Genus and species names abbreviated to the first three characters. Full names can be easiest to resolve from the Taxonomical Index (p. 731).



## TENEBRIONOIDEA IN POLAND



Occurrence points of Tenebrionoidea in Poland, based on pooled data from the volumes 1–3 of *Coleoptera Poloniae* series, generalised to UTM grid.

**THE *BIODIVERSITY MAP* PROJECT**

[WWW.BIOMAP.PL](http://WWW.BIOMAP.PL)



## GENERAL DISTRIBUTION

Maps presented in this part serve as a supplementary material to show a general outline of distributions of the species in Palaearctic. They are not intended to present the accurate shape of ranges; in fact there is no data allowing to precisely delimit the geographical range of any of the species. As biogeography of species is not the main subject of this catalogue, we have used a simplified solution and depicted only countries or regions. In most cases, it is sufficient for presentation of the extent of the species distributions. Visualization of occurrence countries instead of giving a simple text list helps also to show the possible gaps in data, which is evident in case of cosmopolitan species.

For subspecific taxa, the maps include Palaearctic ranges of their conspecifics. This additional information may be helpful when considering current occurrence data and chances for range changes.

On a number of the maps we marked the lack of reliable information about presence of taxa in Poland, although the respective species were mentioned as present in the country in the CPC (LÖBL and SMETANA 2008). This was the case of *Aglenus brunneus*, *Agnathus decoratus*, *Alosimus syriacus austriacus*, *Anthelephila pedestris*, *Anthicus schmidtii*, *Cerocoma schreberi*, *Colposis mutilatus*, *Cordicollis instabilis instabilis*, *Coxelus pictus*, *Endophloeus markovichianus*, *Epicauta rufidorsum*, *Hirticollis quadriguttatus*, *Langelandia anophthalma*, *Meloe autumnalis autumnalis*, *Microhoria nectarina*, *Microhoria pallidula*, *Microhoria unicolor unicolor*, *Mordella huetheri*, *Mordellistena feigei*, *Mordellistena nanula*, *Mordellistena pentas*, *Mordellistena stenidea*, *Notoxus appendicinus*, *Omonadus bifasciatus*, *Stenoria analis*, and *Stenoria apicalis apicalis*.

On the other hand, we corrected the omission of some species in the CPC, marking their presence in Poland. These are *Anthicus crinitus*, *Cis rugulosus*, *Conalia baudii*, *Dolichocis laricinus*, *Ennearthron palmi*, *Ennearthron pruinosulum*, *Mordellistena helvetica*, *Rhopalocerus rondanii*, *Ropalodontus baudueri*, *Synchita mediolanensis*, and *Synchita variegata*.

Non-native parts of distribution of species, noted in CPC as “invasive”, were given a separate symbol.

Map symbols:








light gray		– land borders
gray		– Palaeartic borders
black		– distribution of a main taxon
black dots		– invasive distribution of a species
black crosses (for Poland)		– presence in Poland confirmed
white crosses on black (for Poland)		– presence in Poland doubtful
hatches		– distribution of other Palaeartic subspecies



Fig. 186. Palearctic distribution of *Aglenus brunneus*.



Fig. 187. Palearctic distribution of *Agnathus decoratus*.



Fig. 188. Palearctic distribution of *Alosimus syriacus syriacus* (black) and the remaining subspecies.



Fig. 189. Palearctic distribution of *Anthelephila pedestris*.



Fig. 190. Palearctic distribution of *Anthicus antherinus antherinus* (black) and the remaining subspecies.



Fig. 191. Palearctic distribution of *Anthicus ater*.

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## INDEX OF GEOGRAPHICAL NAMES

(based on pooled data from the volumes 1–3)

Names are followed by UTM coordinates given in brackets. Parentheses are used where there is an alternative name. Former German names of places are given in italics.

- Adamowice (*Adamowitz*) [CA05]  
*Adamowitz* (Adamowice) [CA05]  
Adamowo [FD30]  
Agatówka [EB73]  
*Albendorf* (Wambierzyce) [XR09]  
Aleksandrowice [DA14]  
Aleksandrów [FA39]  
Aleksandrów Kujawski [CD45]  
*Allenstein* (Olsztyn) [DE65], [DE66]  
*Allenstein'sche Glashütte* (Olsztynek) [DE53]  
*Allmoyen* (Jelmuń) [EE06]  
*Alte Radaune* (Gdańsk-Orunia) [CF42]  
*Altenwedel* (Sicko) [WV30]  
*Althaide* (Polanica-Zdrój) [XR08]  
*Althammer* (Stara Kuźnia) [CA17]  
*Althöfchen* (Stary Dworek) [WU22]  
Alwernia [CA94]  
*Andreashütte* (Zawadzkie) [CB20]  
Andrespol [DC03]  
Andrzejówka [DV86]  
*Angerburg* (Węgorzewo) [EF40]  
*Annaberg* (Góra Św. Anny, mt.) [BA99]  
Antałówka [DV26]  
Antoniów [EB62]  
Antoniówka [EB49]  
Arkadia [DC37]  
Arlamów [FV29]  
Arlamów, f. distr. [FV29]  
*Arnau* (Ornowo) [DE34]  
Ateny [FE37]  
*Aufhalt an der Oder, Bez. Liegnitz* (Przystań) [XS08]  
Augustowska Forest [FE38]  
Augustów [EC30]  
Augustów [FE36]  
*Auras* (Uraz) [XS27]  
*Aweiden* (Nawiady) [EE25]  
Babia Góra, mt. [CV99]  
Babice [CA05]  
Babice [CA84]  
Babice [FA01]  
Babki, f. div. [XT39]  
Baborowo [XU12]  
Babsk [FB49]  
Bachanowo [FF11]  
Bachorze [XV66]  
Bachorzewo [CD83]  
Bachotek [CE91]  
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