

Kateretidae and Nitidulidae (Coleoptera) of the Mazovian Lowland

ANDRZEJ LASOŃ¹, DAWID MARCZAK², DANIEL KUBISZ³, PIOTR TYKARSKI⁴

¹Wiejska 4B/85, 15-352 Białystok, Poland, e-mail: haptos@interia.pl,
(corresponding author);

²Department of Ecology, University of Ecology and Management in Warsaw,
Wawelska 14, 02-061 Warszawa, Poland;

³Institute of Systematics and Evolution of Animals PAS, Św. Sebastiana 9,
31-049 Kraków, Poland;

⁴Department of Ecology, University of Warsaw, Banacha 2, 02-097 Warszawa, Poland

ABSTRACT. The state of knowledge of the Kateretidae and Nitidulidae in the Mazovian Lowland is summarized, including new records and a complete set of original literature data. In total, 9 species of Kateretidae and 79 species of Nitidulidae are listed, of which 1 species of the Kateretidae and 13 of the Nitidulidae were not previously reported.

KEY WORDS: Kateretidae, Nitidulidae, Mazovian Lowland, new records, faunistics.

INTRODUCTION

When *Catalogus Faunae Poloniae* (KFP) was published (BURAKOWSKI et al. 1986), the inventory of nitidulid fauna of the Mazovian Lowland was far from complete. The catalogue reported only 36 species out of the 110 known from Poland at that time. The Kateretidae family was relatively better known, represented by 7 species of the 15 occurring in the country. During the 30 years since that time, the number of Nitidulidae has risen to 66 species and that of the Kateretidae to 8 species, thanks to new publications (BYK et al. 1998; LASOŃ 1998a, 2004; KUBISZ et al. 2000; LASOŃ & MILKOWSKI 2011).

The aim of this paper is to give a summary of the current state of knowledge on the Kateretidae and Nitidulidae of the Mazovian Lowland based on published and original new data.

Acknowledgements

We are grateful to all the collectors who have made their specimens available to us for this analysis.

STUDY AREA AND MATERIAL

The existing and new data contained in this paper pertain to a region that is generally defined as “the Mazovian Lowland”. In the case of bibliography-based records, the borders of the area were defined in *Catalogus Faunae Poloniae* (further referred to as KFP), and the authors of data published later on both families respected these boundaries.

The new records are based on 483 specimens from private or institutional collections. Each new record is furnished with the following information: locality with UTM coordinates (in square brackets), collection method, date, specimen count, abbreviations of the collector's and identifier's names. **Curly brackets {}** are used for series of specimens with repeated collection data in order to avoid superfluous text. As regards the literature records, we list only localities with UTM coordinates and references to the original papers.

The taxonomy and nomenclature used here follow the *Catalogue of Palaearctic Coleoptera* (JELÍNEK & AUDISIO 2007), except for *Meligethes* STEPH., for which the necessary changes were made, according to a recent work of AUDISIO et al. (2009).

Abbreviations of collectors' names: AL – Andrzej Lasoń, DK – Daniel Kubisz, DM – Dawid Marczak, JJ - Josef Jelínek, JS – Jan Siekierski, MM – Marek Miłkowski, PT – Piotr Tykarski, WJ – Wojciech Jędryczkowski.

Abbreviations of location names: CHO – Chojnów nature reserve, BIE – Bielany Forest nature reserve (Warsaw), KNP – Kampinos National Park, NAT – Natolin Forest (Warsaw) nature reserve, OOS – Strict Protection Area, PGR – Pilawski Grąd nature reserve, PK – Kozienicka Forest, SOB – Jan III Sobieski Forest nature reserve (Warsaw).

Most of the specimens examined are deposited in three collections: those collected by DK are in the beetle collection of the Institute of Systematics and Evolution of Animals PAS, Kraków, those collected by DM are in the collection of the Kampinos National Park, and those collected by PT are in the collection of the Dept. of Ecology, University of Warsaw.

DATA OVERVIEW AND SPECIES LIST

The geographical coverage of the Mazovian Lowland of the material presented here is not great, regardless of the definition of the region. According to the physico-geographical regionalization of Poland by KONDRACKI (2002), the lowland areas of Mazovia have different borders from those defined in KFP (Fig.). With respect to the physico-

geographical regionalization system, the Mazovian Lowland is confined to two macroregions: the Northern Mazovian Lowland and the Central Mazovian Lowland, so that the two localities mentioned in the bibliography (see below) – Rawa Mazowiecka (UTM DC43) and Stara Wieś near Grójec (UTM DC84) – can then be excluded from faunistic analyses of the Mazovian Lowland. These localities belong to the more elevated macroregion of the South Mazovian Uplands. The remaining localities fit both definitions of the Mazovian Lowland. For the KFP-defined Mazovian Lowland the relevant UTM squares cover roughly 13% of the area (42 of 331), whereas for Kondracki's definition the relevant proportion is ca 11% (40 of 349). The new data increased the number of UTM squares visited by one third (9 new as opposed to 31 squares from the existing data), covering half of the total number of sites of visited (21 UTM squares). A considerable part of the data were collected from the vicinities of Warsaw and the Kampinos National Park.

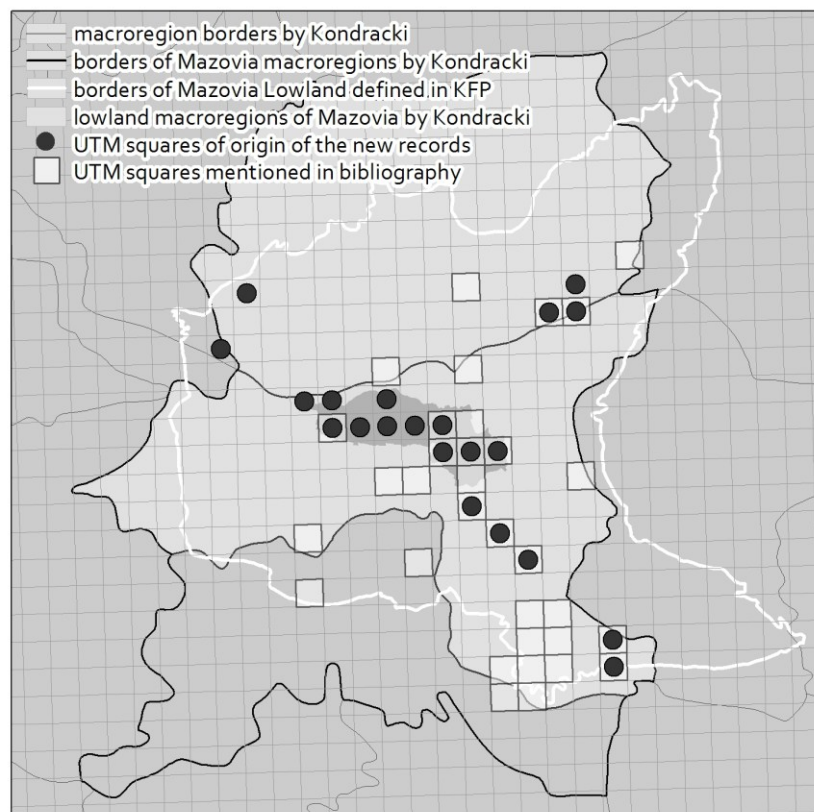


Fig. An overview map of the localities of the data records used. The grid displayed is UTM 10×10 km. The dark grey area in the middle marks the city of Warsaw and the Kampinos National Park.

The new data presented here allow us to add 1 kateretid and 13 nitidulid species to the list of taxa known from the Mazovian Lowland (the above-mentioned exclusion of two localities does not change the summary), increasing the count of Nitidulidae to 79 and Kateretidae to 9 known from this region.

KATERETIDAE

Brachyterolus linariae (STEPHENS, 1830)

New records

{1} Posiołek [EC51] ad Dęblin, 9 V 2001, 1 ex., leg. DK, det. AL; {2} KNP, leg. DM, det. AL: Niepust [DC89], in heathland, 16 VI 2010, 1 ex.; Cisowe [DC69], in a psammophilous plant community, 28 VI 2010, 3 exx.

Relatively common in the entire country; known from 11 regions.

Brachyterolus pulicarius (LINNAEUS, 1758)

New records

Szumin [ED33] ad Łochów, 15 VII 1981, 1 ex., leg. et det. TM; Stare Budy [ED43] ad Wyszaków, 21 VI 2001, 1 ex., leg. et det. DK; KNP, Brzozówka [DC79], 28 V 2010, 1 ex., leg. DM, det. AL.

Literature data

Warszawa – Gocławek [EC08] (OSTERLOFF 1885 under *Brachyterus gravidus* (ILL.)).

Brachyterus glaber NEWMAN, 1834

New records

Dęblin [EC51], 26-27 V 1995, 4 exx., leg. et det. AL.

Literature data

Warszawa – Olszynka Grochowska [EC08] (OSTERLOFF 1885 under *B. pubescens* ER.); Rawa Mazowiecka [DC43] (OSTERLOFF 1885); KNP (BYK et al. 1998).

Brachyterus urticae (FABRICIUS, 1792)

New records

KNP, leg. DM, det. AL: OOS Żurawiowe [DC79], 28 VI 2010, 2 exx.; Famułki Królewskie [DC59], 28 VI 2010, 1 ex.

Literature data

Warszawa – Olszynka Grochowska [EC08] (OSTERLOFF 1885); Rawa Mazowiecka [DC43] (OSTERLOFF 1885); PK, Jedlnia – Letnisko [EB29] (ŁASOŃ & MILKOWSKI 2011).

***Heterhelus scutellaris* (HEER, 1841)**

Literature data

PK, Dąbrowa Kozłowska [EC10], PK, Grądy [EC21], PK, Siczki [EB19] (LASOŃ & MIŁKOWSKI 2011).

***Heterhelus solani* (HEER, 1841)**

Literature data

Warszawa – Goćławek [EC08] (OSTERLOFF 1885 under *Brachypterus rubiginosus* ER.); PK, ad Poborskie Łąki [EC20] (LASOŃ & MIŁKOWSKI 2011).

***Kateretes pedicularius* (LINNAEUS, 1758)**

New records

Dęblin [EC51], 28 V 1995, 1 ex., leg. et det. AL.

Literature data

Modlin [DD71] (OSTERLOFF 1885 under *Cercus pedicularius* L.); Warszawa – Goćławek [EC08] (OSTERLOFF 1885 under *C. pedicularius* L.).

***Kateretes pusillus* THUNBERG, 1794**

Literature data

Modlin [DD71] (OSTERLOFF 1885 under *Cercus bipustulatus* PAYK.), (ŁOMNICKI 1913 under *Cateretes bipustulatus* PAYK.); Warszawa – Płudy [DC99] (TENENBAUM 1931 under *Cateretes bipustulatus* PAYK.).

***Kateretes rufilabris* (LATREILLE, 1807)**

Literature data

Warszawa – Żerań [EC09] (TENENBAUM 1931 under *Cateretes rufilabris* LATR.); Podkowa Leśna [DC87] (TENENBAUM 1938 under *Cateretes rufilabris* a. *junci* STEPH.); Dęblin [EC51] (LASOŃ 1998a).

NITIDULIDAE

Epuraeinae KIREJTSHUK, 1986

***Epuraea aestiva* (LINNAEUS, 1758)**

New records

Czersk [EC15], 9 V 2001, 1 ex., leg. DK, det. AL; Twierdza Modlin [DD70], 10 V 2001, 1 ex., leg. DK, det. AL; KNP, OOŚ Sieraków [DC89], on the bark of a dead birch, 13 V 2010, 1 ex., leg. DM, det. AL.

Literature data

Rez. Jegiel [ED43] near Szumin, Wilga [EC24] (LASOŃ 1998a); PK, Brzeźniczka nature res. [EC30] (LASOŃ & MIŁKOWSKI 2011).

Epuraea biguttata* (THUNBERG, 1784)*New records**

{1} in window traps on *Quercus robur* L., leg. et det. PT: BIE [DC99], 10 X 2001, 6 exx.; NAT [EC08], 11 X 2001, 2 exx.; CHO [EC06], 22 IX 2004, 1 ex.; {2} KNP, leg. DM, det. AL: OOŚ Sieraków [DC89], 15 IV 2010, 1 ex.; OOŚ Sieraków [DC89], under the bark of *Quercus* sp., 1 VII 2010, 1 ex.; OOŚ Zameczysko [DC69], under the bark of *Quercus* sp., 21 VIII 2010, 1 ex.

Literature data

PK, Grądy [EC21], PK, Załamanek nature res. [EC20] (LASOŃ & MIŁKOWSKI 2011).

Epuraea guttata* (OLIVIER, 1811)*New records**

{1} in window traps on *Quercus robur* L., leg. et det. PT: NAT [EC08], 1 VII 2002, 1 ex.; SOB [EC18], 1 VII 2002, 2 exx.; PGR [EC06], 9 VIII 2004, 5 exx.; CHO [EC06], 22 IX 2004, 6 exx.; {2} KNP, OOŚ Sieraków [DC89], under the bark of *Quercus* sp., leg. DM, det. AL: 29 VI 2010, 1 ex.; 1 VII 2010, 3 exx.

A comparatively rare species, reported from a few localities in western and southern Poland. Most records are old, dating back to 1970 and earlier. Recently found in the Białowieża Forest (LASOŃ 2004).

Epuraea limbata* (FABRICIUS, 1787)*Literature data**

Podkowa Leśna [DC87] (TENENBAUM 1938).

Epuraea marseuli* REITTER, 1872*New records**

{1} Jegiel nature res. [ED43] near Szumin, 19 IV 1991, 1 ex., leg. et det. TM; {2} Wilga [EC24], 21 VII 1992, 1 ex., leg. JS, det. AL; {3} Wilga, on the bark of *Pinus* sp., 17-31 VII 1993, 3 exx., leg. JS, det. AL; {4} Szumin [ED43], 17 IV 1994, 1 ex., leg. TM, det. AL; {5} Dęblin [EC51], in flight, 27 V 1995, 1 ex., leg. et det. AL; {6} CHO [EC06], in a window trap on *Quercus robur* L., 7 VII 2004, 4 exx., leg. et det. PT; {7} KNP, OOŚ Sieraków [DC89], leg. DM, det. AL: on the bark of a dead oak: 1 IV 2010, 1 ex.; under the bark of *Quercus* sp., 15 IV 2010, 5 exx.; on the bark of a dead birch, 11 V 2010, 1 ex.

Literature data

Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982 under *E. pusilla* (ILLIG.)); PK, Przejazd [EC20], PK, Wojciechów [EC10] (LASOŃ & MILKOWSKI 2011).

***Epuraea melanocephala* (MARSHAM, 1802)**

New records

BIE [DC99], in a window trap on *Quercus robur* L., 1 VI 2002, 1 ex., leg. et det. PT. Relatively common in the entire country; known from 13 regions.

***Epuraea melina* ERICHSON, 1843**

New records

Warszawa – Jelonki [DC98], on *Taraxacum officinale* Web.(Wigg.), 14 IV 2009, 2 exx., leg. WJ, det. AL.

Quite widespread; known from 14 regions, though not common. Most records are more than 100 years old.

***Epuraea muehli* REITTER, 1908**

Literature data

Wilga [EC24] (LASOŃ 2004).

***Epuraea neglecta* (HEER, 1841)**

New records

{1} in window traps on *Quercus robur* L., leg. et det. PT: NAT [EC08], 1 VII 2002, 1 ex.; PGR [EC06], 7 VII 2004, 3 exx.; CHO [EC06], 9 VIII 2004, 1 ex.; {2} KNP, OOŚ Sieraków [DC89], on the bark of a dead birch, 11 V 2010, 1 ex., leg. DM, det. AL.

Literature data

Wilga [EC24] (LASOŃ 2004).

***Epuraea pallescens* STEPHENS, 1832**

New records

KNP, OOŚ Sieraków [DC89], on the bark of a dead birch, 11 V 2010, 1 ex., leg. DM, det. AL; KNP, Pocięcha [DC89], attracted to artificial light, 3 VII 2010, 1 ex., leg. DM, det. AL.

Literature data

PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006).

***Epuraea pygmaea* (GYLLENHAL, 1808)**

Literature data

Jegiel nature res. [ED43] near Szumin, Szumin [ED33] (LASOŃ 1998a).

Epuraea terminalis* (MANNERHEIM, 1843)*Literature data**

Wilga [EC24] (LASOŃ 2004).

Epuraea unicolor* (OLIVIER, 1790)*New records**

{1} Wilga [EC24], leg. JS, det. AL: 5 VIII 1992, 1 ex.; 15-22 IX 1992, 9 exx.; 25-31 VII 1993, 2 exx.; 5 VIII 1994, 1 ex.; {2} in window traps on *Quercus robur* L., leg. et det. PT: BIE [DC99], 10 X 2001, 6 exx.; NAT [EC08], 11 X 2001, 2 exx.; CHO [EC06], 7 VII 2004, 2 exx.; PGR [EC06], 9 VIII 2004, 1 ex.; {3} KNP, OOŚ Sieraków [DC89], leg. DM, det. AL: {a} on the bark of a dead oak, 20-27 III 2010, 26 exx.; {b} under the bark of *Quercus* sp. – 15 IV 2010, 4 exx.; 29 VI 2010, 4 exx.; 1 VII 2010, 3 exx.

Literature data

Warszawa – Anin [EC18] (TENENBAUM 1938); PK, Dąbrowa Kozłowska [EC10], PK, Poświętne [EC20] (LASOŃ & MIŁKOWSKI 2011).

Epuraea variegata* (HERBST, 1793)*New records**

KNP, leg. DM, det. AL: OOŚ Sieraków [DC89], on the bark of a dead birch, 18 IV 2010, 1 ex.; OOŚ Sieraków [DC89], on bark of a dead oak, 21 IV 2010, 1 ex.; OOŚ Zamczysko [DC69], under the bark of *Quercus* sp., 21 VIII 2010, 1 ex.

Literature data

PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006).

Carpophilinae ERICHSON, 1842***Carpophilus hemipterus* (LINNAEUS, 1758)****New records**

KNP, Izabelin [DC89], in flight, 6 VIII 2009, 1 ex., leg. et det. DM.

Literature data

PK, Sokoleniec [EC10] (LASOŃ & MIŁKOWSKI 2011).

Carpophilus marginellus* (MOTSCHULSKY, 1858)*New records**

KNP, OOŚ Sieraków [DC89], under the bark of *Quercus* sp., 1 VII 2010, 1 ex., leg. DM, det. AL.

Quite recently discovered in Poland in the Wielkopolska-Kujawska Lowland (LASOŃ 1998b). Subsequent reports come from Silesia (MELKE & GRZYWOCZ 2003) and the

Masurian Lakeland (GAWROŃSKI et al. 2008). Earlier and current findings confirm previous speculations that the species has probably managed to colonize the whole country.

Cryptarchinae THOMPSON, 1859

***Cryptarcha strigata* (FABRICIUS, 1787)**

New records

{1} in window traps on *Quercus robur* L., leg. et det. PT: SOB [EC18], 1 VI 2002, 5 exx.; NAT [EC08], 26 VI 2003, 1 ex.; CHO [EC06], 7 VII 2004, 5 exx.; PGR [EC06], 7 VII 2004, 3 exx.; {2} KNP, OOS Sieraków [DC89], on the bark of a dead oak, leg. et det. DM: 27 VI 2010, 1 ex.; 28 VI 2010, 4 exx.; 29 VI 2010, 2 exx.

Literature data

Wilga [EC24] (LASON 2004); PK, Dąbrowa Kozłowska [EC10], PK, Kozłów [EC10], PK, Ponty nature res. [EC20], PK, Siczki [EB19] (LASON & MILKOWSKI 2011).

***Cryptarcha undata* (OLIVIER, 1790)**

New records

{1} in window traps on *Quercus robur* L., leg. et det. PT: SOB [EC18], 23 VIII 2001, 4 exx.; NAT [EC08], 1 VII 2002, 1 ex.; SOB [EC18], , 1 IX 2002, 2 exx.; CHO [EC06], 7 VII 2004, 1 ex.; PGR [EC06], 7 VII 2004, 2 exx.; {2} KNP, OOS Sieraków [DC89], on the bark of a dead oak, leg. et det. DM: 27 VI 2010, 1 ex.; 29 VI 2010, 1 ex.

Rarely observed; reported from single localities in 11 regions.

***Glischrochilus hortensis* (FOURCROY, 1785)**

New records

{1} in window traps on *Quercus robur* L., leg. et det. PT: BIE [DC99], 1 IX 2002, 1 ex.; PGR [EC06], 7 VII 2004, 3 exx.; CHO [EC06], 22 IX 2004, 2 exx.; {2} KNP, OOS Sieraków [DC89], under the bark of *Quercus* sp., 29 VI 2010, 1 ex., leg. et det. DM.

Literature data

Szumin [ED43], Wilga [EC24] (LASON 1998a).

***Glischrochilus quadriguttatus* (FABRICIUS, 1776)**

New records

{1} NAT [EC08], in a window trap on *Quercus robur* L., 1 VIII 2002, 2 exx., leg. et det. PT; {2} KNP, OOS Sieraków [DC89], under the bark of a pine, 25 III 2010, 1 ex., leg. et det. DM; {3} KNP, Pociecha [DC89], in flight, 15 IV 2010, 1 ex., leg. et det. DM.

Literature data

Wilga [EC24] (LASON 1998a); Kozienice [EC31], PK, Pionki [EC30], PK, Siczki

[EB19], PK, Kieszek [EC20] (LASOŃ & MIŁKOWSKI 2011).

***Glischrochilus quadripunctatus* (LINNAEUS, 1761)**

New records

Wilga [EC24], 4 V 1992, 1 ex., leg. JS, det. AL; PGR [EC06], in a window trap on *Quercus robur* L., 7 VII 2004, 1 ex., leg. et det. PT; KNP, under the bark of *Quercus* sp., leg. DM: Pocięcha [DC89], 14 V 2009, 1 ex., det. DM; OOS Sieraków [DC89], 25 IV 2010, 1 ex., det. AL; OOS Sieraków [DC89], 20 III 2010, 1 ex., det. DM; Pocięcha [DC89], 27 IX 2010, 3 exx., det. DM.

Literature data

{1} under *G. quadripustulatus* (L.): Warszawa vic. (MOKRZECKI 1934); Ostrów Mazowiecka [ED65] (Więckowski); Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK); PK Świerże forest distr. [EC32] (GUTOWSKI et al. 2006); {2} Kozienice [EC31], PK, Jastrzębia [EC10], PK, Poborskie Łąki [EC20], PK, Ciszek nature res. [EC20] (LASOŃ & MIŁKOWSKI 2011).

***Glischrochilus quadrisignatus* (SAY, 1835)**

New records

{1} in window traps on *Quercus robur* L., leg. et det. PT: BIE [DC99], 10 X 2001, 4 exx.; CHO [EC06], 9 VIII 2004, 2 exx.; NAT [EC08], 9 VIII 2004, 1 ex.; PGR [EC06], 22 IX 2004, 1 ex.; {2} KNP, Wiejca [DC69], under the bark of a willow, 29 IV 2010, 1 ex., leg. et det. DM.

Literature data

Wilga [EC24] (LASOŃ 2004); PK, Pionki [EC20], PK, Świerże Górne [EC32] (LASOŃ & MIŁKOWSKI 2011).

***Pityophagus ferrugineus* (LINNAEUS, 1761)**

Literature data

Skierniewice [DC45] (MOKRZECKI 1934); Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982); PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006); PK, Rajec Poduchowny [EB19], PK, Poświętne [EC20], PK, Kozłów [EC10] (LASOŃ & MIŁKOWSKI 2011).

Nitidulinae LATREILLE, 1802

***Amphotis marginata* (FABRICIUS, 1781)**

Literature data

Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982).

Cychramus luteus (FABRICIUS, 1787)

New records

KNP, OOŚ Sieraków [DC89], in *Armillaria mellea*, 17 IX 2010, 1 ex., leg. et det. DM.

Literature data

PK, Poborskie Łąki [EC20] (LASOŃ & MIŁKOWSKI 2011).

Cychramus variegatus (HERBST, 1792)

Literature data

Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982).

Cyllodes ater (HERBST, 1792)

New records

{1} in window traps on *Quercus robur* L., leg. et det. PT: SOB [EC18], 1 VI 2002, 4 exx.; CHO [EC06], 9 VIII 2004, 6 exx.; NAT [EC08], 9 VIII 2004, 1 ex.; PGR [EC06], 9 VIII 2004, 2 exx.; {2} KNP, OOŚ Sieraków [DC89], leg. et det. DM: on *Fomes fomentarius*, 8 V 2009, 6 exx.; on the bark of a dead birch, 13 V 2010, 9 exx.; “Netocia” trap in a tree hollow in an oak, 30 VI 2010, 1 ex.

Literature data

PK, nature res. Jedlnia [EB29], PK, Załamanek nature res. [EC20] (LASOŃ & MIŁKOWSKI 2011).

Ipidia binotata REITTER, 1875

Literature data

PK, Brzeźniczka nature res. [EC30] (LASOŃ & MIŁKOWSKI 2011).

Nitidula bipunctata (LINNAEUS, 1758)

New records

KNP, OOŚ Sieraków [DC89], under the bark of *Quercus* sp., 20 III 2010, 1 ex., leg. et det. DM.

Literature data

Szumín ED33, Wilga [EC24] (LASOŃ 2004); PK, Poświętne [EC20] (LASOŃ & MIŁKOWSKI 2011).

Nitidula carnaria (SCHALLER, 1783)

Literature data

Szumín [ED43], Wilga [EC24] (LASOŃ 1998a).

Nitidula rufipes (LINNAEUS, 1767)

New records

Wilga [EC24], on a bone, 29 IV 1992, 15 exx., leg. JS, det. AL; on a bone 18 VI 1994,

1 ex., leg. JS, det. AL.

Literature data

Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982); PK, Ciszek nature res. [EC20] (LASOŃ & MIŁKOWSKI 2011).

***Omosita colon* (LINNAEUS, 1758)**

New records

{1} Wilga [EC24], leg. JS, det. AL: on a bone, 29 IV 1992, 5 exx.; under carrion, 20 IX 1993; 23 VII 1994, 2 exx.; {2} Rakowiecka St. [EC08], on a bone, 19 VI 1997, 3 exx., leg. et det. PT; {3} KNP, Izabelin [DC89], in flight, 10 VIII 2010, 1 ex., leg. et det. DM.

Literature data

Siennica [EC47] near Warszawa (BARTOSZYŃSKI 1936); PK, Marianów [EC21] (LASOŃ & MIŁKOWSKI 2011).

***Omosita depressa* (LINNAEUS, 1758)**

New records

{1} Wilga [EC24], 24 VIII 1992, 1 ex., leg. JS, det. AL; {2} Rakowiecka St. [EC08], on a bone, 19 VI 1997, 1 ex., leg. et det. PT; {3} in window traps on *Quercus robur* L., leg. et det. PT: NAT [EC08], 11 X 2001, 1 ex.; SOB [EC18], 1 VIII 2002, 3 exx.

Literature data

Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982); PK, Dąbrowa Kozłowska [EC10], PK, Jedlnia – Letnisko [EB29] (LASOŃ & MIŁKOWSKI 2011).

***Omosita discoidea* (FABRICIUS, 1775)**

New records

Twierdza Modlin [DD70], 10 V 2001, 1 ex., leg. DK, det. AL; Rakowiecka St. [EC08], on a bone, 19 VI 1997, 4 exx., leg. et det. PT; BIE [DC99], in a window trap on *Quercus robur* L., 1 V 2002, 1 ex., leg. et det. PT.

Literature data

Wilga [EC24] (LASOŃ 1998a); PK, Wojciechów [EC10] (LASOŃ & MIŁKOWSKI 2011).

***Pocadius adustus* REITTER, 1888**

New records

In window traps on *Quercus robur* L., leg. et det. PT: NAT [EC08], 7 VII 2004, 4 exx.; PGR [EC06], 7 VII 2004, 6 exx.

Literature data

Stara Wieś [DC84] near Grójec (MACIEJEWSKI 1997); PK, Ciszek nature res. [EC20] (LASOŃ & MIŁKOWSKI 2011).

Pocadius ferrugineus* (FABRICIUS, 1775)*New records**

{1} in window traps on *Quercus robur* L., leg. et det. PT: PGR [EC06], 7 VII 2004, 1 ex.; PGR [EC06], 9 VIII 2004, 1 ex.; {2} KNP, leg. et det. DM: OOŚ Sieraków [DC89], on *Fomes fomentarius*, 19 IV 2010, 1 ex.; Wiejca [DC69], on the bark of a dead, fungus-infested willow, 29 IV 2010, 1 ex.; Zaborówek, [DC79], on *Lycoperdon* sp., 27 IX 2010, 3 exx.

Literature data

Warszawa – Bielany [DC99] (BURAKOWSKI & LUNIAK 1982 under *P. striatus* (OLIV.)); PK, Ciszek nature res. [EC20], PK, Królewskie Źródło nature res. [EC30], PK, Selwanówka [EC 22], PK, Jedlnia nature res. [EB29] (LASON & MIŁKOWSKI 2011).

Soronia grisea* (LINNAEUS, 1758)*New records**

{1} Wilga [EC24], leg. JS, det. AL, 2 VII 1992, 1 ex.; 1-24 VIII 1993, 3 exx.; {2} in window traps on *Quercus robur* L., leg. et det. PT: NAT [EC08], 5 IX 2003, 2 exx.; CHO [EC06], 7 VII 2004, 6 exx.; PGR [EC06], 22 IX 2004, 2 exx.; {3} KNP, OOŚ Sieraków [DC89], on the bark of a dead oak, leg. et det. DM: 26 VI 2010, 1 ex.; 28 VI 2010, 3 exx.; 1 VII 2010, 1 ex.

Literature data

Skierniewice vic., Rawa Mazowiecka [DC43] (KOŚLIŃSKA 1963); PK, Świerże Górne [EC32], PK, Dąbrowa Kozłowska [EC10], PK, Huta [EC20], PK, Żytkowice [EC30] (LASON & MIŁKOWSKI 2011).

Soronia punctatissima* (ILLIGER, 1794)*New records**

In window traps on *Quercus robur* L., leg. et det. PT: NAT [EC08], 25 VII 2003, 1 ex.; PGR [EC06], 9 VIII 2004, 1 ex.

Literature data

Wilga [EC24] (LASON 1998a).

Thalycra fervida* (OLIVIER, 1790)*Literature data**

Rawa Mazowiecka [DC43] (OSTERLOFF 1885); Wilga [EC24] (LASON 1998a); PK, Dąbrowa Kozłowska [EC10] (LASON & MIŁKOWSKI 2011).

Meligethinae THOMPSON, 1859***Afrogethes planiusculus* (HEER, 1841)****Literature data**

Warszawa – Miedzeszyn [EC08] (OSTERLOFF 1885 under *Meligethes murinus* ER.).

Afrogethes tristis (STURM, 1845)**New records**

KNP, Lipków [DC89], 4 V 2009, 1 ex., leg. WJ, det. AL.

Literature data

Warszawa – Grochów [EC08] (OSTERLOFF 1885); Grodzisk Mazowiecki [DC77] (PRÜFFER 1958).

Astylogethes corvinus (ERICHSON, 1845)**Literature data**

Warszawa – Grochów [EC08] (OSTERLOFF 1885).

Astylogethes subrugosus (GYLLENHAL, 1808)**New records**

KNP, leg. DM, det. AL: Truskaw [DC89], in a meadow, 16 VI 2010, 1 ex.; Buda [DC89], in a psammophilous plant community, 21 VI 2010, 2 exx.

Literature data

Warszawa – Gocławek [EC08] (OSTERLOFF 1885).

Boragogethes rosenhaueri (REITTER, 1871)**Literature data**

Warszawa (HORION 1960).

Boragogethes symphyti (HEER, 1841)**New records**

Szumin ad Łochów [ED43], in a river meadow, 4 VII 1995, 3 exx.; 20 VII 1996, 1 ex., leg. TM, det. AL; Posiołek [EC51] ad Dęblin, 9 V 2001, 2 exx., leg. DK, det. AL.

Literature data

Warszawa vic. (OSTERLOFF 1885, BŁAŻEJEWSKI 1962); PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006).

Brassicogethes aeneus (FABRICIUS, 1775)**New records**

{1} Wilga [EC24], 1 VIII 1993, 1 ex., leg. JS, det. AL; {2} Szumin [ED43], 20 VII 1996, 1 ex., leg. TM, det. AL; {3} Chmielewo [DD40] ad Wyszogród, 11 V 2001, 1 ex., leg. DK, det. AL; {4} Płock [DD12], 15 V 2001, 1 ex., leg. DK, det. AL; {5} Posiołek [EC51] ad Dęblin, 9 V 2001, 6 exx., leg. DK, det. AL; {6} Twierdza Modlin [DD70], 10 V 2001, 27 exx., leg. DK, det. AL; {7} Wiejca [DC69] ad Kampinos, 11 V 2001, 4 exx., leg. DK, det. AL.; {8} KNP, leg. DM, det. AL: OOS Sieraków [DC89], in a pine forest, 25 IV

2010, 1 ex.; Niepust [DC89], in heathland, 26 V 2010, 2 exx.; Truskaw [DC89], in a meadow, 16 VI 2010, 1 ex.; OOŚ Sieraków [DC89], in a wet meadow, 18 VI 2010, 1 ex.; OOŚ Żurawiowe [DC79], 28 VI 2010, 1 ex.

Literature data

Warszawa – Grochów [EC08] (OSTERLOFF 1885); PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006); PK, Jedlnia – Letnisko [EB29], PK, Kozłów [EC10] (LASOŃ & MIŁKOWSKI 2011).

***Brassicogethes coeruleovirens* FÖRSTER, 1849**

New records

Stare Budy [ED43] ad Wyszaków, 21 VI 2001, 1 ex., leg. et det. DK; OOŚ Sieraków [DC89], 15 IV 2010, 4 exx., leg. DM, det. AL.

Literature data

Warszawa vic. (TENENBAUM 1923).

***Brassicogethes coracinus* (STURM, 1845)**

New records

Dęblin [EC51], in a peaty meadow, 28 V 1995, 3 exx., leg. et det. AL; Czersk [EC15], 9 V 2001, 3 exx., leg. DK, det. AL; Posiołek [EC51] ad Dęblin, 9 V 2001, 3 exx., leg. DK, det. AL.

Literature data

Warszawa – Gocławek [EC08], Pułtusk [ED04] (OSTERLOFF 1885); Warszawa – Wygoda [EC18] (OSTERLOFF 1885 under *Meligethes pumilus* ER.); Grodzisk Mazowiecki [DC77], Podkowa Leśna [DC87] (BŁAŻEJEWSKI 1962); Czerwińskie Góry II nature res. [DC59] (KUBISZ et al. 2000).

***Brassicogethes subaeneus* (STURM, 1845)**

Literature data

Wilga [EC24] (LASOŃ 2004); PK, Kozłów [EC10] (LASOŃ & MIŁKOWSKI 2011).

***Brassicogethes viridescens* (FABRICIUS, 1787)**

New records

Orle [CD41], 18 II 1990, 1 ex., leg. JS, det. JJ; KNP, Truskaw [DC89], in a meadow, 16 VI 2010, 1 ex., leg. DM, det. AL.

Literature data

Warszawa vic. (OSTERLOFF 1885); PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006); PK, Dąbrowa Kozłowska [EC10], PK, Rajec Poduchowny [EB19] (LASOŃ & MIŁKOWSKI 2011).

Fabogethes brachialis* (ERICHSON, 1845)*New records**

Twierdza Modlin [DD70], 10 V 2001, 1 ex., leg. DK, det. AL.

Associated with xerotherms; quite widely distributed in the country. Reported from 11 regions, though rather rarely trapped.

Fabogethes nigrescens* (STEPHENS, 1830)*New records**

Twierdza Modlin [DD70], 10 V 2001, 2 exx., leg. DK, det. AL.

Comparatively rarely found; known from scattered localities in 15 regions.

Genistogethes carinulatus* (FÖRSTER, 1849)*New records**

Chmielewo [DD40] ad Wyszogród, 11 V 2001, 1 ex., leg. DK, det. AL; Posiołek [EC51] ad Dęblin, 9 V 2001, 11 exx., leg. DK, det. AL; Twierdza Modlin [DD70], 10 V 2001, 3 exx., leg. DK, det. AL; Wola Czerwińska [DD50] ad Wyszogród, 10 V 2001, 1 ex., leg. et det. DK.

Literature data

Chojnów vic. (PRÜFFER 1958 under *M. erythropus* (MARSH.)).

Lamiogethes bidens* (BRISOUT, 1863)*Literature data**

Warszawa – Natolin [EC07] (BŁAŻEJEWSKI 1962); PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006).

Lamiogethes brunnicornis* (STURM, 1845)*New records**

Twierdza Modlin [DD70], 10 V 2001, 1 ex., leg. DK, det. AL.

The species reported from 13 localities, though probably present throughout Poland.

Lamiogethes buyssoni* (BRISOUT, 1882)*Literature data**

Dęblin [EC51] (LASOŃ 1998a).

Lamiogethes difficilis* (HEER, 1841)*New records**

Warszawa – Jelonki [DC98], 12 IV 2009, 1 ex., leg. WJ, det. AL.

Occurs in 12 regions; locally quite common.

***Lamiogethes morosus* (ERICHSON, 1845)**

New records

Czersk [EC15], xerothermic slope, 9 V 2001, 1 ex., leg. DK, det. AL.

Literature data

PK, Świerże forest distr. [EC32] (GUTOWSKI et al. 2006).

***Lamiogethes ochropus* (STURM, 1845)**

Literature data

Warszawa – Gołławek [EC08] (OSTERLOFF 1885), Warszawa – Natolin [EC07], Podkowa Leśna [DC87] (BŁAŻEJEWSKI 1962).

***Lamiogethes pedicularius* (GYLLENHAL, 1808)**

Literature data

Warszawa vic. (OSTERLOFF 1885 under *Meligethes viduatus* (HEER)); PK, Marianów [EC21] (LASOŃ & MIŁKOWSKI 2011).

***Lamiogethes persicus* (FELDERMANN, 1837)**

Literature data

Warszawa – Służewiec [DC98] (BŁAŻEJEWSKI 1962 under *Meligethes pedicularius* (GYLL.)).

***Lamiogethes serripes* (GYLLENHAL, 1827)**

Literature data

Warszawa – Gołławek [EC08] (OSTERLOFF 1885).

***Lamiogethes sulcatus* (BRISOUT, 1863)**

New records

Posiołek [EC51] ad Dęblin, 9 V 2001, 2 exx., leg. DK, det. AL.

A species very rarely trapped; known from single localities in 5 regions. Recently found in the Podlasie region, the first time for 50-60 years (LASOŃ 2002).

***Meligethes denticulatus* (HEER, 1841)**

Literature data

PK, Dąbrowa Kozłowska [EC10], PK, Januszno [EC30], PK, Marianów [EC21] (LASOŃ & MIŁKOWSKI 2011).

***Pria dulcamarae* (SCOPOLI, 1763)**

New records

Jegiel nature res. [ED43] near Szumin, 21 IV 1991, 2 exx., leg. TM, det. AL.

Literature data

Grodzisk Mazowiecki [DC77] (OSTERLOFF 1885); PK, Dąbrowa Kozłowska [EC10]

(LASON & MIŁKOWSKI 2011).

***Sagittogethes ater* (BRISOUT, 1863)**

Literature data

Zegrze [ED01] (TENENBAUM 1937); Warszawa vic. (NUNBERG 1976).

***Sagittogethes maurus* (STURM, 1845)**

New records

Chmielewo [DD40] ad Wyszogród, 11 V 2001, 1 ex., leg. DK, det. AL; Czernsk [EC15], xerothermic slope, 9 V 2001, 6 exx., leg. DK, det. AL; Płock [DD12], 15 V 2001, 1 ex., leg. DK, det. AL.

Literature data

Zegrze [ED01] (BŁAŻEJEWSKI 1962).

***Sagittogethes ovatus* (STURM, 1845)**

Literature data

Grodzisk Mazowiecki [DC77] (OSTERLOFF 1885).

***Stachygethes assimilis* (STURM, 1845)**

New records

Czernsk [EC15], xerothermic slope, 9 V 2001, 2 exx., leg. DK, det. AL; Chmielewo [DD40] ad Wyszogród, 11 V 2001, 2 exx., leg. DK, det. AL; Płock [DD12], 15 V 2001, 2 exx., leg. DK, det. AL; Wola Klasztorna [EC50], railway embankment, on *Echium vulgare* L., 30 V 2010, 2 exx., leg. MM, det. AL.

Literature data

PK, Wola Klasztorna [EC 50] (LASON & MIŁKOWSKI 2011).

***Stachygethes nanus* (ERICHSON, 1845)**

Literature data

Warszawa – Wawer [EC08] (OSTERLOFF 1885, ŁOMNICKI 1913).

***Stachygethes ruficornis* (MARSHAM, 1802)**

New records

Czernsk [EC15], 9 V 2001, 4 exx., leg. DK, det. AL; Płock [DD12], 15 V 2001, 6 exx., leg. DK, det. AL; Posiołek [EC51] ad Dęblin, 9 V 2001, 1 ex., leg. DK, det. AL; Twierdza Modlin [DD70], 10 V 2001, 29 exx., 14 VI 2001, 2 exx., leg. DK, det. AL.

Literature data

Warszawa – Goćław [EC08] (OSTERLOFF 1885 under *M. flavipes* STURM); Warszawa (BŁAŻEJEWSKI 1962 under *M. flavipes* STURM).

***Stachygethes villosus* (BRISOUT, 1863)**

Literature data

Grodzisk Mazowiecki [DC77] (OSTERLOFF 1885, ŁOMNICKI 1913).

***Thymogethes egenus* (ERICHSON, 1845)**

New records

Posiołek [EC51] ad Dęblin, 9 V 2001, 4 exx., leg. DK, det. AL.

Occurs in almost the whole country, though comparatively rare in all localities. Reported from 14 regions so far, mostly at the beginning of the 20th century.

***Thymogethes exilis* STURM, 1845**

New records

KNP, Brzozówka [DC79], on *Thymus* sp., 28 V 2010, 3 exx., leg. DM, det. AL.

The species is reported only rarely and sporadically. Known from 8 regions, although found only 3 times in Poland during the last 100 years (BŁAŻEJEWSKI 1962, NUNBERG 1976b, LASOŃ 2002).

***Thymogethes gagathinus* ERICHSON, 1845**

New records

Posiołek [EC51] ad Dęblin, 9 V 2001, 5 exx., leg. DK, det. AL; KNP, Wiejca [DC69], in a *Molinion caeruleae* plant community, 29 VI 2010, 1 ex., leg. DM, det. AL.

A species of insufficiently known distribution; commonly confused with *Th. lugubris* STURM. Reported from as few as 6 regions; however, found only in the Kraków-Wieluń Upland in the last 80 years (PAWŁOWSKI et al. 1994).

***Thymogethes lugubris* (STURM, 1845)**

New records

Twierdza Modlin [DD70], 10 V 2001, 1 ex., leg. DK, det. AL.

Literature data

Warszawa – Wygoda [EC18] (OSTERLOFF 1885); Chojnów [EC06], Stefanów [EC15] (BŁAŻEJEWSKI 1962).

***Xerogethes discoideus* (ERICHSON, 1845)**

Literature data

Warszawa – Fort Śliwicki [EC09] (OSTERLOFF 1885).

***Xerogethes kraatzii* (REITTER, 1871)**

Literature data

Dęblin [EC51] (LASOŃ & JELÍNEK 1997).

Cybocephalinae JACQUELIN DU VAL, 1858***Cybocephalus pulchellus* ERICHSON, 1845****Literature data**

Near Warszawa (TENENBAUM 1923, KUBISZ & SZWAŁKO 1999).

The species is on the Red List of invertebrates (GŁOWACIŃSKI 1992) under the “Data Deficient” category.

DISCUSSION

Little detailed knowledge is available of the species distribution of these two not very species-rich families of beetles. The majority of the species are highly specialized, occurring in specific sites usually associated with their food resources, e.g. the fermenting sap of trees for some *Epuraea* species, or the flowers of particular plants for many members of the Meligethini. This is one of the main reasons for the scarcity of records. Although the authors of this analysis gave preferential treatment to the city of Warsaw and surrounding areas, the results show that even in the case of species-poor groups, local faunal inventories can significantly increase when proper collection methods are applied. A large proportion of the new records were acquired from just a few localities, and window traps turned to be an efficient method for the detection of species from the two families studied.

We suggest that future regional analyses of Polish beetle fauna should be subject to more thorough considerations of geographical definitions of the areas they refer to. Differences in borders may cause differences in the species inventories of the areas compared, depending on the diversity of habitats that are excluded or included by the change of borders. If more data on the insect groups analysed in this article were available, the counts and composition of the species from the Mazovian Lowland would surely be quite different, depending on the delimitation of its boundaries.

REFERENCES

- AUDISIO P., CLINE A.R., DE BIASE A., ANTONINI G., MANCINI E., TRIZZINO M., COSTANTINI L., STRIKA S., LAMANNA F. & CERRETTI P. 2009. Preliminary re-examination of genus-level taxonomy of the pollen beetle subfamily Meligethinae (Coleoptera: Nitidulidae). *Acta Entomologica Museum Naturalae Prague* **49**: 341-504.
- BARTOSZYŃSKI A. 1936. Przyczynek do fauny chrząszczy piwnic. *Polskie Pismo Entomologiczne* **13**: 118-122.
- BŁAŻEJEWSKI F. 1962. Badania morfologiczno-porównawcze nad niektórymi środkowoeuropejskimi gatunkami z rodzaju *Meligethes* STEPH. (Nitid., Col.). *Studia Societatis Scientiarum Torunensis, Sect. E.* **6**: 229-302.
- BURAKOWSKI, B., LUNIAK, M. 1982. Świat zwierząt. [In:] BAUM T., TROJAN P. (eds). *Las Bielański w Warszawie – rezerwat przyrody*. PWN, Warszawa. Pp.: 179-211.

- BURAKOWSKI B., MROCKOWSKI M., STEFAŃSKA J. 1986. Chrzęszcze Coleoptera – Cucujoidea, cz. 1, Katalog Fauny Polski, Warszawa, XXIII, **12**: 1-266.
- BYK A., MAZUR S., SMOLEŃSKI M. 1998: Chrzęszcze (Coleoptera) odłowione w ptasich budkach legowych w Kampinoskim Parku Narodowym. Wiadomości Entomologiczne **17**: 59-60.
- GAWROŃSKI R., LASON A., OLEKSA A. 2008. Nowe dla Pojezierza Mazurskiego gatunki łyszczynkowatych i ścierowatych (Coleoptera: Nitidulidae, Mycetophagidae). Wiadomości Entomologiczne **27**: 484.
- GŁOWACIŃSKI Z. (ed.) 1992. Red List of Threatened Animals in Poland. ZOP & ZN PAN, Kraków. 119 pp.
- GUTOWSKI J. M., BUCHHOLZ L., KUBISZ D., OSSOWSKA M., SUĆKO K. 2006: Chrzęszcze saproksyliczne jako wskaźnik odkształceń ekosystemów leśnych borów sosnowych. Leśne Prace Badawcze **4**: 101-144.
- HORION A. 1960. Faunistik der mitteleuropäischen Käfer. Band VII: Clavicornia 1. Teil (Sphaeritidae bis Phalacridae). A. Feyel Verl., Überlingen-Bodensee **XII**: 1-422.
- JELÍNEK J. & AUDISIO P. 2007: Family Nitidulidae. Pp. 459-491. [In:] LÖBL I. & SMETANA A.: Catalogue of Palaearctic Coleoptera. Volume 4: Elateroidea, Derodontoidea, Bostrichoidea, Lymexyloidea, Cleroidea, Cucujoidea. Apollo Books. 935 pp.
- KONDRACKI J. 2002. Geografia regionalna Polski. PWN, Warszawa.
- KOŚLIŃSKA M. 1963. Badania nad fauną zimującą pod korą i w korze jabłoni. Część I. Badania nad owadami. Prace Instytutu Sadownictwa Skierniewice **7**: 207-226.
- KUBISZ D., HILSZCZAŃSKI J., GARBALIŃSKI P. 2000. Chrzęszcze (Coleoptera) rezerwatów Czerwińskie Góry I i II i ich otuliny w Puszczy Kampinoskiej. Parki Narodowe i Rezerваты Przyrody **19**: 83-89.
- KUBISZ D., SZWAŁKO P. 1999. Cybocephalidae. Klucze do oznaczania owadów Polski. XIX **66**, 16 pp., Toruń.
- LASON A. 1998a. Nowe stanowiska polskich Kateretidae i Nitidulidae (Coleoptera). Wiadomości Entomologiczne **17**: 157-163.
- LASON A. 1998b. *Carpophilus marginellus* MOTSCHULSKY, 1858 i *Meligethes caudatus* GUILLEBEAU, 1897 (Coleoptera: Nitidulidae) – gatunki nowe dla fauny Polski. Wiadomości Entomologiczne **17**: 165-168.
- LASON A. 2002. *Meligethes jelineki* AUDISIO, 1976 – nowy dla fauny Polski gatunek chrzęszcza oraz nowe dane o rozszedleniu przedstawicieli rodziny Nitidulidae (Coleoptera) na Podlasiu. Wiadomości Entomologiczne **21**: 205-212.
- LASON A. 2004. *Eपुरaea (Eपुरaea) muehli* REITTER, 1908 i *Meligethes matronalis* AUDISIO et SPORNRAFT, 1990 – nowe dla Polski gatunki chrzęszczy oraz nowe dane o rozmieszczeniu Kateretidae i Nitidulidae (Coleoptera) w Polsce. Wiadomości Entomologiczne **23**: 21-28.
- LASON A., JELÍNEK J. 1997. *Meligethes kraatzi* REITTER, 1871 (Coleoptera: Nitidulidae: Meligethinae), gatunek nowy dla fauny Polski. Wiadomości Entomologiczne **16**: 75-77.
- LASON A., MILKOWSKI M. 2011 (in press). Kateretidae i Nitidulidae okolic Radomia. Wiadomości Entomologiczne **30**.
- ŁOMNICKI M. 1913: Wykaz chrzęszczów czyli tęgopokrywych (Coleoptera) ziem polskich. (Catalogus coleopterorum Poloniae). Kosmos **38**: 21-155.
- MACIEJEWSKI K.H. 1997. Nowe stanowisko *Pocadius adustus* REITTER, 1888 (Coleoptera: Nitidulidae) w Polsce. Wiadomości Entomologiczne **16**: 117.
- MELKE A., GRZYWOCZ J. 2003. *Carpophilus pilosellus* MOTSCHULSKY, 1858 (Coleoptera, Nitidulidae) – nowy chrzęszcz w polskiej entomofaunie synantropijnej oraz interesujące dane o innych gatunkach tego środowiska. Acta Entomologica Silesiana **11**: 102-105.
- MOKRZECKI Z. 1934. Raub- und Schmarotzer-Insekten des Buchdruckers *Ips typographus* L. in Polen. Polskie Pismo Entomologiczne **12**: 275-289.

- NUNBERG M. 1976. Łyszczynkowate – Nitidulidae. Klucze do oznaczania owadów Polski, XIX, **65**, 92 pp., Warszawa.
- NUNBERG M. 1976b. Nowe dla północno-wschodniej Polski gatunki i odmiany chrząszczy (Coleoptera). *Polskie Pismo Entomologiczne* **46**: 721-727.
- OSTERLOFF F. 1885. O chrząszczach krajowych. Dalszy ciąg. *Pamiętnik Fizyograficzny* **5** (III): 202-215.
- PAWŁOWSKI J., MAZUR M., MŁYNARSKI J. K., STEBNICKA Z., SZEPTYCKI A., SZYMCZAKOWSKI W. 1994. Chrząszcze (Coleoptera) Ojcowskiego Parku Narodowego i terenów ościennych. Ojcowski Park Narodowy. *Prace i Materiały Muzeum im. Prof. Władysława Szafera, Ojców*. 248 pp.
- PRÜFFER K. 1958. Żerowanie słodyszków (*Meligethes* sp.) w kwiatach różnych gatunków roślin. *Studia Societatis Scientiarum Torunensis, Sect. E.*, **4**: 141-188.
- TENENBAUM SZ. 1923. Przybytki do fauny chrząszczów Polski od roku 1913. *Rozprawy i Wiadomości z Muzeum Dzieduszyckich* **7-8**: 136-186.
- TENENBAUM SZ. 1931. Nowe dla Polski gatunki i odmiany chrząszczy, oraz nowe stanowiska gatunków dawniej podawanych. V. *Fragmenta Faunistica* **1**: 329-359.
- TENENBAUM SZ. 1937. Nowe dla Polski gatunki i odmiany chrząszczy. VII. *Polskie Pismo Entomologiczne* **14-15**: 366.
- TENENBAUM SZ. 1938. Nowe dla Polski oraz rzadsze gatunki i odmiany chrząszczy. VIII. *Fragmenta Faunistica* **3**: 415-429.
- WIACKOWSKI S. 1957. Entomofauna pniaków sosnowych w zależności od wieku i rozmiaru pniaka. *Ekologia Polska A.*, **5**: 13-140.

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