

**The Mordellidae (Coleoptera: Tenebrionoidea) of north-eastern
Poland, a faunistic synopsis**

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ABSTRACT. Knowledge on distribution of the Mordellidae in north-eastern Poland is summarized, provided with new records and complete set of original literature data. In total 42 species were recorded (79% of the Polish fauna of Mordellidae) from the area geographically delimited by NE border of Poland, and Bug-Narew and Vistula river valleys. *Mordellistena rufifrons* SCHILSKY is new for Poland, and further 11 spp. were recorded from NE Poland for the first time.

KEY WORDS: Coleoptera, Tenebrionoidea, Mordellidae, new records, NE Poland.

INTRODUCTION

In Poland the family Mordellidae is represented by 53 species, including one (*Mordellistena rufifrons* SCHILSKY) added in this paper (BOROWIEC 1996, BOROWIEC & KUBISZ 1999, KUBISZ 2000). For a long time this taxonomically difficult taxon had remained unattractive for coleopterists, which resulted in paucity and low quality of faunistic data, and poor knowledge on ranges of most species. Publication of the systematic monograph of this family in Poland (BOROWIEC 1996) prompted an increasing inflow of records, primarily from western and southern regions (BOROWIEC & KUBISZ 1999, KUBISZ et al. 2003). The north-eastern part of Poland remained less studied, with 30 species known to occur there (ca. 57% of Polish fauna). Situated between the boreal and the nemoral zones, and reached by many Atlantic species, the area is important for biogeographic considerations on Euro-

pean fauna. It is also interesting because of its very high environmental diversity. The wide range of habitats within the area, ranging from rich xerothermic swards on the slopes of the mid Bug and lower Vistula valleys to the unique primeval Białowieża forest, provides suitable conditions for species of very varied trophic and habitat preferences. Numerous new data presented here confirm its high biodiversity value, and encouraged us to attempt a synthesis of the knowledge of distribution of the tumbling flower beetles in north-eastern Poland.

STUDY AREA, MATERIAL AND CONVENTIONS

Apart from the NE border of Poland, the study area is geographically delimited by the Bug-Narew and Vistula river valleys (Fig. 1). According to the division adopted in the Catalogue of Polish Fauna (BURAKOWSKI et al. 1987), it comprises the entire Mazurian Lakeland and Białowieża Primeval Forest, northern Podlasie and Mazowiecka Lowland, and eastern peripheries of the Pommeranian Lakeland, Baltic Coast, and Wielkopolsko-Kujawska Lowland. Additionally, a few new records from the adjoining, more southern, portion of the Bug river valley (from Mielnik in the north to Wola Uhruska in the south) have been added.



Fig. 1. Localities of Mordellidae in NE Poland.

Besides our own unpublished data, we include all original literature records referring to the area in question. We do not quote subsequent contributions not containing original data. Each new record is ordered as follows: locality [UTM coordinates], date of collection, number of specimens, collector's abbreviated name. Voucher specimens are preserved at the Museum of Natural History, Institute of Systematics and Evolution of Animals PAS in Cracow, and in authors' collections. The following abbreviations have been used: collectors' names: **AL** – Andrzej LASON; **AP** – Andrzej PALACZYK; **DK** – Daniel KUBISZ; **DM** – Dawid MARCZAK; **JG** – Jerzy M. GUTOWSKI; **JK** – Janusz KUPRYJANOWICZ; **JP** – Jerzy PAWŁOWSKI; **JS** – Janusz SAWONIEWICZ; **MM** – Mieczysław MAZUR; **MW** – Marek WANAT; **RG** – Robert GAWROŃSKI; **RGO** – Rafał GOSIK; **WJ** – Wojciech JĘDRYCKOWSKI; regions of Poland (after BURAKOWSKI et al. 1987): **2** – Baltic Coast; **3** – Pommeranian Lakeland; **4** – Mazurian Lakeland; **5** – Wielkopolsko-Kujawska Lowland; **6** – Mazowiecka Lowland; **7** – Podlasie; **7a** – Białowieża Primeval Forest; locality characteristics: “Nadl.” (abbr. Nadleśnictwo) – forest division, „Leśn.” (abbr. Leśnictwo) – basic administration unit of forested area in Poland (forest district), “oddz.” – forest compartment.

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SPECIES LIST

Tomoxia bucephala COSTA, 1854

New records: – **4:** Małdyty [DE17], 15 VI 2001, 1, 24 V 2002, 1, RG; Olsztyn-Kortowo [DE65], 11 VII 2002, 1, DM; Leśn. Snopki [EE44], 8 – 25 VI 2007, 6, JG; Leśn. Szast [EE53], 7 V – 22 VIII 2005 and 7 V – 12 VII 2007, 59, JG; Leśn. Brzeziny [EE53], 19 V – 7 VII 2005, 3, JG; NE Jurkiszki [EF82], oddz. 165, 27 VI 2008, 1, JG. – **7a:** oddz. 454 [FD94], VI-VII 1996, 2, JG.

Literature data: – **2:** Leśn. Kadyny [DF01] (CAPECKI 1969). – **4:** Leśn. Kamieniec [CE96], Leśn. Małdyty [DE17] (CAPECKI 1969); „Dęby w Krukach Pasłęckich” Reserve [DE18] (BYK & BYK 2004); Jedwabno [DE83] (BERCIO & FOLWACZNY 1979); Leśn. Zalesie [DF10], Leśn. Reszel [EE08] (CAPECKI 1969); Biebrza National Park, Orzechówka [FE24], Grzędy [FE24] (GUTOWSKI et al. 2006); Augustowska Forest – no exact location (BOROWIEC & KUBISZ 1999). – **7:** Rybniki [FE40], Kopna Góra [FE60] (KUBISZ & SZWAŁKO 1991); Rybniki [FE40] (BOROWIEC & KUBISZ 1999). – **7a:** Hajnówka [FD74], Stara Białowieża [FD84], oddz. 312A/313B [FD84], Białowieża [FD94], oddz. 340 [FD94], oddz. 342 [FD94], oddz. 371D [FD94], oddz. 84C [FD95], oddz. 192 [FD95] (BOROWIEC & KUBISZ 1999); oddz. 288C/318A [FD94] (KUBISZ 2004); oddz. 131C [FD95] (GUTOWSKI et al. 2006); Białowieża National Park – no exact location (BOROWSKI

2001; BYK 2001a, 2001b; BYK et al. 2006); Nadl. Hajnówka – no exact location (BOROWSKI 2001; BYK 2001a; MOKRZYCKI 2001).

A relatively common species in Poland.

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

Literature data: – 5: Miszek [CD65] ad Włocławek (BOROWIEC & KUBISZ 1999).

Xerothermophilous species, in Poland known from a few southern (in Małopolska & Lubelska Uplands) and western (Rogalin) sites. In the study area found only in the Vistula river valley.

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

New records:– 7: Mielnik [FD30], 29 VII and 1 VIII 2008, 4, WJ; Radziwiłłówka [FD30], 1 VIII 2008, 4, WJ; Adamowo [FD30], 10 VII 2009, 5, WJ; Sutno [FC49], 31 VII 2008, 1, WJ; Niemirów [FC49], 31 VII 2008, 14, WJ.– 7a: Stara Judzianka [FD74], 30 VII 2001, 8, WJ; oddz. 520/543 [FD83], 15 VII 2004, 2, JG.

Rare species recorded from several localities in southern and western Poland but apparently more widespread, as confirmed by the above records.

***Variimorda mendax* (MEQUINON, 1946)**

New records:– 7: Mielnik [FD30], 30 VII 2008, 1, WJ; Adamowo [FD30], 10 VII 2009, 4, WJ.

Very rare species known hitherto from single localities in four regions, in NE Poland found for the first time.

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

New records:– 4: ad Lidzbark [DE20], 24 VII 2008, 2, RG; Łańsk [DE64] ad Olsztyn, 24 VII 2008, 1, WJ; Olsztyn-Kortowo [DE65], 22 VII 2003, 1, DM; Chełsty [DF10], 24 VII 2008, 2, RG; Osiniak [EE34] ad Ruciane-Nida, 24 VII 2004, 4, WJ; Leśn. Szast [EE53], 8 VI – 13 IX 2005 and 8 VI – 12 VII 2007, 47, JG. – 7: Niemirów [FC49], 31 VII 2008, 1, WJ; Sławatycze [FC73], 17 VIII 2003, 1, MW; Wołczyń [FC80] ad Sobibór, 18 VIII 2003, 1, MW; „Skarpa Mołozewska” Reserve [FD01] ad Drohiczyń, 21 VI 2001, 2, DK; Mielnik [FD30], 16 VI 2003, 29 VII 2008, 3, MW, WJ; Radziwiłłówka [FD30], 1 VIII 2008, 3, WJ; Adamowo [FD30], 10 VII 2009, 1, WJ; Białystok-Pietrasze [FD49], VI-X 2001, 1, JS; Biebrza National Park, Gać [FE00], 26 VI 2007, 2, JG; Biebrza National Park, ad Kolonia Zubole [FE11], 27 VI 2007, 2, JG. – 7a: Stara Judzianka [FD74], 30 VII 2001, 1, WJ.

Literature data: – 3: Płutowo [CE21] (BOROWIEC & KUBISZ 1999). – 4: Ostróda [DE35], Jedwabno [DE83] (BERCIO & FOLWACZNY 1979); Liski [DF91] ad Bartoszyce (BOROWIEC & KUBISZ 1999). – 6: Pomiechówek [DD81] (BOROWIEC & KUBISZ 1999). – 7:

Krynki [FE80] (KUBISZ & SZWAŁKO 1991); Międzyrzec Podlaski [FC26] (BOROWIEC & KUBISZ 1999). – **7a**: Hajnówka [FD74], Grudki [FD78], oddz. 424A [FD84], Skupowo [FD85], oddz. 779A [FD86] Białowieża [FD94], oddz. 340 [FD94] (BOROWIEC & KUBISZ 1999); Białowieża Forest – no exact location (BYK et al. 2006).

The commonest member of the genus in the area, and in the whole of Poland.

***Mordella aculeata* LINNAEUS, 1758**

New records: – **4**: Chelsty [DE10], 24 VII 2008, 1, RG; Kurojady [DE10], 23 VII 2008, 1, RG.

Literature data: – **4**: Jedwabno [DE83], Pisz [EE54] (BERCIO & FOLWACZNY 1979); Szeroki Bór [EE44], Płaska [FE47] (BOROWIEC & KUBISZ 1999). – **7**: Międzyrzec Podlaski [FC26] (BOROWIEC & KUBISZ 1999). – **7a**: Hajnówka [FD74], oddz. 182 [FD75], Czerlonka [FD84], Skupowo [FD85], Białowieża [FD94], oddz. 429 [FD94], oddz. 161/163 [FD95] (BOROWIEC & KUBISZ 1999).

A relatively rare, not abundant species, recorded from several localities in whole country, as well in the studied area.

***Mordella brachyura* MULSANT, 1856**

New records: – **4**: Małdyty [DE17], 12 VII 2001, 1, RG; Majki [DE18] ad Pasłek, 21 VI 2008, 1, RG; Olsztyn [DE65] ad Skanda Lake, 18 VII 2002, 1, DM; Leśn. Szast [EE53], 19 V – 14 VI 2005, 2, JG; N Jurkiszki [EF82], oddz. 225/226, 29 VI 2008, 3, JG; Biebrza National Park, Kapice area, Wysoki Grąd hill [FE13], 14 VI 2000, 11, JG; Wólka Piaseczna [FE13] ad Goniądz, 28 VI 2003, 1, AP; Biebrza National Park, Wilcza Góra [FE24], 10 VI 2000, 2, JG; Romincka Forest, „Dziki Kąt” Reserve [FF02], 28 VI 2008, 2, JG. – **6**: Twierdza Modlin fortress [DD70], 14 VI 2003, 1, DK. – **7**: Mielnik [FD30], 13 VII 2002, 16 VI 2003, 29-30 VII 2008, 10, MW, WJ; Radziwiłłówka [FD30], 1 VIII 2008, 19, WJ; Adamowo [FD30], 10 VII 2009, 1, WJ; Biebrza National Park, Grobla Honczarowska [FE00], 28 VI 2007, 3, JG; Biebrza National Park, Gać [FE00], 26 VI 2007, 2, JG; Biebrza National Park, Stójka [FE01], 27 VI 2007, 6, JG; Biebrza National Park, ad Kolonia Zubole [FE11], 27 VI 2007, 2, JG. – **7a**: Topiło-Majdan [FD73], 17-18 VI 2002, 4, WJ; Stara Judzianka [FD74], 29 VII 2001, 1, WJ; oddz. 454 [FD94], VI-VII 1996, 1, JG; ad Białowieża Towarowa [FD94], 14 VII 2004, 1, JG; ad Masiewo [FD95], 17 VI 2001, 1, JG.

Literature data: – **3**: Płutowo [CE21] (BOROWIEC & KUBISZ 1999). – **4**: Ostróda [DE35] (BERCIO & FOLWACZNY 1979); Biebrza National Park, Grzędy [FE24] (BOROWIEC & KUBISZ 1999; GUTOWSKI et al. 2006). – **6**: Kalinowo [ED65] ad Ostrów Mazowiecka (BOROWIEC & KUBISZ 1999). – **7a**: oddz. 572C [FD73], Hajnówka [FD74], Grudki [FD78], Czerlonka [FD84], Teremiski [FD84], Białowieża [FD94], Białowieża National Park [FD95], oddz. 192 [FD95] (BOROWIEC & KUBISZ 1999, GUTOWSKI et al. 2006).

Common throughout Poland.

***Mordella holomelaena* APFELBECK, 1914**

New records: – 4: Gardzień [DE04], 13 VII 2008, 1, RG; Zawroty [DE36], 24 VI 2008, 1, RG; „Jezioro Luba” Reserve [DE05], 23 VI 2008, 2, RG; Łańsk [DE64] ad Olsztyn, 24 VII 2008, 5, WJ; Olsztyn-Dajtki [DE65], 21 VI 2002, 2, DM; Osiniak [EE34] ad Ruciane-Nida, 24 VII 2004, 6, WJ; Leśn. Snopki [EE44], 8 – 25 VI 2007, 1, JG; Leśn. Brzeziny [EE53], 8-27 VII 2005, 3, JG; Leśn. Szast [EE53], 7 V – 22 VIII 2005 and 7 V – 12 VII 2007, 414, JG; N of Jurkiszki [EF82], oddz. 225/226, 29 VI 2008, 1, JG; NE Jurkiszki [EF82], oddz. 166, 27 VI 2008, 1, JG; Biebrza National Park, ad Polkowo [FE24], 16 VII 2000, 2, JG; Gawrych Ruda [FE38], 5 VI 2002, 1, DK; Bachanowo [FF11] ad Hańcza, „Głazowisko Bachanowo nad Czarną Hańczą” Reserve, 6 VI 2002, 1, DK.– 7: Kosyń [FB79] ad Włodawa, 12 VII 2002, 1, MW; Stulno [FB89] ad Włodawa, 16 VI 2003, 1, DK; Niemirów [FC49], 4 VI 2002, 1, DK; Orchówek [FC71] ad Włodawa, 17 V 2002, 2, MW; Wołczyzny [FC80] ad Sobibór, 18 VIII 2003, 1, MW; Mielnik [FD30], 22 VI 2001, 1, DK; Radziwiłłówka [FD30], 1 VIII 2008, 1, WJ; Adamowo [FD30], 10 VII 2009, 1, WJ; Biebrza National Park, Laskowo [FE00], 1 VI 2004, 1, JG; Biebrza National Park, Stójka [FE01], 27 VI 2007, 2, JG; Biebrza National Park, ad Kolonia Zubole [FE11], 27 VI 2007, 2, JG; Trzcianne [FE11] ad Białystok, 29 VII 2004, 9, JK.– 7a: Topiło-Majdan [FD73], 17-18 VI 2002, 3, WJ; oddz. 520/543 [FD83], 15 VII 2004, 2, JG; ad Białowieża Towarowa [FD94], 14 VII 2004, 1, JG; ad Masiewo [FD95], 17 VI 2001, 1, JG.

Literature data: – 4: Jedwabno [DE83], Szczytno [DE93] (BERCIO & FOLWACZNY 1979); Biebrza National Park, Orzechówka [FE24] (BOROWIEC & KUBISZ 1999; GUTOWSKI et al. 2006); Biebrza National Park, Grzędy [FE24] (GUTOWSKI et al. 2006); Szeroki Bór [EE44] (BOROWIEC & KUBISZ 1999).– 7: Osowiec-Twierdza [FE02] (BOROWIEC & KUBISZ 1999); Kopna Góra [FE60] (KUBISZ & SZWAŁKO 1991). – 7a: oddz. 539C [FD73], Hajnówka [FD74], Grudki [FD78], Czerlonka [FD84], Białowieża [FD94], Podolany [FD94], „Wysokie Bagno” Reserve [FD94], oddz. 161/163 [FD95], Kosy Most [FD95], Masiewo [FD95], Siemianówka [FD96] (BOROWIEC & KUBISZ 1999); oddz. 229B [FD95] (GUTOWSKI et al. 2006).

Perhaps the commonest tumbling flower beetle in Poland, abundant also in the study area.

***Hoshihanomia perlata* (SULZER, 1776)**

New records: – 4: Leśn. Szast [EE53], 19 V – 7 VII 2005 and 7 V – 25 VI 2007, 8, JG.

Literature data: – 7a: oddz. 106D [FD95], 131D [FD95] (KUBISZ & SZWAŁKO 1991; BOROWIEC & KUBISZ 1999). Rare primeval forest relict, hitherto never recorded from the Mazurian Lakeland. Placed on the Red List of Threatened Animals in Poland (PAWŁOWSKI et al. 2002) with the Least Concern (LC) category.

Mordellaria aurofasciata (COMOLLI, 1837)

Literature data: – **7a:** Białowieża National Park – no exact location (BOROWSKI 2001; BYK 2001a; BYK et al. 2006).

Xerothermophilous species extremely rare in Poland, hitherto found only in the southern part of the Vistula River Valley (BOROWIEC & KUBISZ 1999) and over 70 years ago in the vicinity of Przemyśl. Placed as Endangered species (EN) on the Red List of Threatened Animals in Poland (PAWŁOWSKI et al. 2002).

Curtimorda bisignata (REDTENBACHER, 1849)

Literature data: – **7a:** oddz. 454C [FD94] (KUBISZ et al. 2003).

Uncommon and not abundant species, in NE Poland recorded only from the Białowieża Forest.

Curtimorda maculosa (NAEZEN, 1794)

New records: – **4:** Leśn. Szast [EE53], 15 VI – 7 VII 2005, 1, JG. – **7a:** oddz. 454 [FD94], VI-VII 1996, 16 VI 1998, 2, JG; oddz. 375 [FD94], VI-VII 1996, 6 VI 2000, 2, JG.

Literature data: – **4:** Szeroki Bór [EE44] (BOROWIEC & KUBISZ 1999). – **7a:** Czerlonka [FD84], oddz. 474 [FD84] (BOROWIEC & KUBISZ 1999); Białowieża National Park – no exact location (BOROWSKI 2001, BYK 2001a, BYK et al. 2006).

Sparsely distributed in different regions of Poland, mostly in the south. Apparently more widely distributed in NE Poland, the paucity of records is probably due to its cryptic life style.

Mordellistenula perrisi (MULSANT, 1856)

New records: – **4:** Majki [DE18] ad Pastęk, 14 VI 2008, 3, RG; Prošno [DE26], 5 VII 2008, 1, RG; Zawroty [DE36], 7 VI 2008, several exs., RG; Leśn. Szast [EE53], 19 V – 7 VII 2005 and 7 V – 8 VI 2007, 3, JG. – **7:** Stulno [FB89] ad Włodawa, 16 VI 2003, 1, DK; Orchówek [FC71] ad Włodawa, 17 V 2002, 2, MW; Osłowo [FD30] ad Mielnik, 15 VI 2003, 10, DK; Mielnik [FD30], 16 VI 2003, 4, MW. – **7a:** oddz. 520/543 [FD83], 15 VII 2004, 1, JG.

Literature data: – **4:** Jedwabno [DE83], Szczytno [DE93] (BERCIO & FOLWACZNY 1979); Szeroki Bór [EE44] (BOROWIEC & KUBISZ 1999). – **7:** Mielnik [FD30], Jelonka [FD63] (BOROWIEC & KUBISZ 1999). – **7a:** Białowieża National Park (BOROWIEC & KUBISZ 1999); Białowieża Primeval Forest (BOROWIEC 1996).

Infrequently recorded species, but apparently inhabiting the whole of Poland. Usually collected in dry and warm places.

Mordellistena acuticollis SCHILSKY, 1895

New records: – 4: Gardzień [DE04] ad Susz, 13 VII 2008, 1, RG; Majki [DE18] ad Pasłek, 29 VI 2008, 2, RG; Zawroty [DE36], 24 VI – 3 VII 2008, 11, RG. – 6: Piątnica [ED79] ad Łomża, 15 VI 2003, 2, MW. – 7: Majdan Stuleński [FB89] ad Włodawa, 17 VI 2003, 5, DK; Zaczopki [FC68] ad Terespol, 3 VI 2002, 1, DK; Orchówek [FC71] ad Włodawa, 17 V 2002, 2, MW; Mielnik [FD30], 16 VI 2003, 4, MW. Xerothermophilous species, in Poland apparently on the northern border of its general European range; besides the southern uplands known primarily from the Odra, Vistula and Bug river valleys. First records from NE Poland.

Mordellistena austriaca SCHILSKY, 1899

Literature data: – 3: Płutowo [CE21] (BOROWIEC & KUBISZ 1999). – 5: Borek [CD18] ad Toruń (BOROWIEC & KUBISZ 1999).

Locally abundant in southern Poland, particularly in the Nida River Valley, being a characteristic element of the fauna of xerothermic swards. The localities in the Lower Vistula Valley are the northernmost in Poland and, probably, in its entire range.

Mordellistena bicoloripilosa ERMISCH, 1967

New records: – 4: Gardzień [DE04] ad Susz, 13 VII 2008, 2, RG; Majki [DE18] ad Pasłek, 21-29 VI 2008, 2, RG; Zawroty [DE36], 30 VI – 3 VII 2008, 5, RG; Biebrza National Park, 1-2 VI 2003, 1, JG. – 6: Piątnica [ED79] ad Łomża, 15 VI 2003, 1, MW. – 7: Niemirów [FC49], 15 VI 2003, 1, DK; Orchówek [FC71] ad Włodawa, 17 V 2002, 2, MW; Mielnik [FD30], 16 VI 2003, 2, MW.

This rare species preferring xerothermic habitats, occasionally occurs also in sandy places. Generally southern in distribution, it enters northern Poland primarily along the Odra and Vistula rivers. New for NE Poland.

Mordellistena brevicauda (BOHEMAN, 1849)

New records: – 3: Unisław [CE20], 16 V 2002, 18 V 2003, 2, DK; Wzgórza Płutowskie hills [CE21], 15 V 2002, 18 V 2003, 2, DK; Starogród Dolny [CE21], 18 V 2003, 1, DK; Starogród [CE21], „Góra św. Wawrzyńca” Reserve, 16 V 2002, 17 V 2003, 2, DK; Biała Góra [CE67] ad Sztum, 19 VI 2001, 16 V 2003, 2, DK. – 4: Morąg [DE27], army range, 3 VI – 6 VII 2008, 3, RG; Leśn. Szast [EE53], 7 V – 8 VI 2007, 1, JG. – 5: Włocławek [CD63], ad „Kulin” Reserve, 13 V 2001, 1, DK; Bobrowniki [CD65], 14 V 2001, 1, DK; Zarzeczewo [CD73] ad Włocławek, 15 V 2001, 1, DK; Tulibowo [CD73] ad Włocławek, 15 V 2001, 1, DK; Bachorzewo [CD83] ad Dobrzyń nad Wisłą, 15 V 2001, 1, DK. – 6: Chmielewo [DD40] ad Wyszogród, 11 V 2001, 1, DK; Wola Czerwińska [DD50] ad Wyszogród, 10 V 2001, 1, DK; Twierdza Modlin fortress [DD70], 10 V 2001, 1, DK.

Literature data: – 3: Wzgórza Płutowskie hills [CE21] (BOROWIEC & KUBISZ 1999). –

5: Rzęczkowo [CD18] ad Toruń; „Kulin” Reserve [CD63] ad Włocławek (BOROWIEC & KUBISZ 1999). – 6: Pomiechówek [DD81] (BOROWIEC & KUBISZ 1999).

Very common in southern Poland, less frequent in the north and here abundant only along the Vistula river down to its mouth. New for the Mazurian Lakeland.

Mordellistena brunneospinosa ERMISCH, 1963

New records: – 4: Zalewo [DE06], 22 VI 2008, 1, RG; Małydy [DE17] 14 VI 2006, 1, RG; Zawroty [DE36], 22-30 VI 2008, 6, RG; Olsztyn-Kortowo [DE65], 12 VII 2002, 1, DM. – 6: Piątnica [ED79] ad Łomża, 15 VI 2003, 3, MW. – 7: Zbereże [FB89] ad Stulno, 12-18 V 2002, 4, MW; Hniszów [FB97] ad Dorohusk, 15 VII 2002, 2, MW; Orchówek [FC71] ad Włodawa, 17 V 2002, 4, MW; Narwiański National Park, Kolonia Kruszewo [FD28], 28 V 2003, 3, MW. – 7a: ad Białowieża Towarowa [FD94], 14 VII 2004, 2, JG.

Rare species, associated with sandy habitats and waste ground. In Poland known from single sites in only four regions, never recorded from the north-east.

Mordellistena connata ERMISCH, 1969

New records: – 5: Łążyn [CD28] ad Ostromecko, 15 V 2002, 3, DK. – 7: Wola Uhruska [FB89] ad Włodawa, 16 VI 2003, 2, DK; Niemirów [FC49], 15 VI 2003, 2, DK.

Literature data: – 7: Mielnik [FD30], „Góra Uszeście” Reserve (BOROWIEC & KUBISZ 1999).

Rarely recorded in Poland, mostly from xerothermic sites in southern uplands. The new records expand its known range in Poland to the north.

Mordellistena dieckmanni ERMISCH, 1963

New records: – 7: Orchówek [FC71] ad Włodawa, 2 VII 2002, 1, MW.

In Poland known for certain from three southern localities (BOROWIEC & KUBISZ 1999), recorded also from Wejherowo on the Baltic Coast (BERCIO & FOLWACZNY 1979) and generally from “western Poland”, without exact localities (HORION 1971).

Mordellistena dvoraki ERMISCH, 1956

New records: – 4: Nowe Miasto Lubawskie [DE02], 7 VI 2002, 1, DK; Szymany [DE92] ad Szczytno, 7 VI 2002, 2, DK.

Rare species, collected from May to August on xerothermic swards, occasionally also in sandy sites, especially in gravel-pits. Hitherto known from several, mostly southern localities, but its distribution in Poland still remains poorly known and further records could be expected, also from north-eastern part of the country.

***Mordellistena falsoparvula* ERMISCH, 1956**

New records: – 4: Świecie [DE00] ad Brodnica, 15 V 2003, 1, DK; Majki [DE18] ad Pasłek, 21 VI 2008, 1, RG. – 5: Łążyn [CD28] ad Ostromecko, 15 V 2002, 2, DK; Włocławek [CD63], ad „Kulin” Reserve, 13 V 2002, 1, DK. – 7: Narwiański National Park, Kolonia Kruszewo [FD28], 28 V 2003, 2, MW.

Literature data: – 7a: Białowieża [FD94] (BOROWIEC & KUBISZ 1999).

Rarely recorded beetle, mostly from xerothermic sites. Considering its insufficiently known distribution in Poland, further records from the study area are not unlikely.

***Mordellistena humeralis* (LINNAEUS, 1758)**

New records: – 4: Kakaj Lake [CE92], 28 VII 2008, 2, RG; „Czarny Bryńsk” Reserve [DD09], 25 VII 2008, 1, RG; ad Lidzbark [DE20], 24 VII 2008, 4, RG; „Las Warmiński” Reserve [DE64] ad Olsztyn, 21 VII 2002, 1, WJ; Olsztyn-Kortowo [DE65], 19 VII 2002, 1, DM; Osiniak [EE34] ad Ruciane-Nida, 24 VII 2004, 2, WJ; Leśn. Szast [EE53], 8-25 VI 2007, 1, JG; Jurkiszki [EF81], 26 VI 2008, 1, JG; Biebrza National Park, Kapice area, Wysoki Grąd hill [FE13], 14 VI 2000, 1, JG; Biebrza National Park, ad Polkowo [FE24], 16 VII 2000, 1, JG; Romincka Forest, „Dziki Ką” Reserve [FF02], 28 VI 2008, 1, JG. – 7: Mielnik [FD30], 29 VII 2008, 1, WJ; Biebrza National Park, Grobla Honczarowska [FE00], 28 VI 2007, 1, JG; Biebrza National Park, ad Kopciowe [FE00], 17 VII 2000, 2, JG; Biebrza National Park, Stójka [FE01], 27 VI 2007, 1, JG. – 7a: Topiło-Majdan [FD73], 18 VI 2002, 2, WJ; oddz. 454 [FD94], VI-VII 1996, 2, JG.

Literature data: – 4: Jedwabno [DE83] (BERCIO & FOLWACZNY 1979); Piska Forest, oddz. 51, oddz. 123 [EE53] (BOROWIEC & KUBISZ 1999); Biebrza National Park, Grzędy [FE24] (BOROWIEC & KUBISZ 1999; GUTOWSKI et al. 2006); Brożany [FE57] (BOROWIEC & KUBISZ 1999). – 7: Biebrza National Park, Gugny [FE01] (BOROWIEC & KUBISZ 1999). – 7a: Grudki [FD78], Podcerkwa [FD83], Białowieża [FD94], oddz. 288C/318A [FD94] (BOROWIEC & KUBISZ 1999); oddz. 399C [FD94], oddz. 288C/318A [FD94], oddz. 161 [FD95] (KUBISZ 2004).

Forest species, widespread in the study area and the whole country.

***Mordellistena kraatzi* EMERY, 1876**

New records: – 4: Świecie [DE00] ad Brodnica, 15 V 2003, 2, DK; Nowe Miasto Lubawskie [DE02], 7 VI 2002, 1, DK. – 7: Mielnik [FD30], 13 V 2003, 2, RGO.

Rare species, strictly confined to xerothermic habitats. Although in the study area it was found only in the Bug and Drwęca river valleys, its occurrence in other similar sites, e.g. in the lower Vistula River Valley, should be expected.

Mordellistena luteipalpis SCHILSKY, 1895

Literature data: – 7: Mielnik [FD30], „Góra Uszeście” Reserve (BOROWIEC & KUBISZ 1999).

Xerothermophilous species, very rare in Poland, in the study area found only in the Bug River Valley.

Mordellistena neuwaldeggiana (PANZER, 1796)

New records: – 2: Rubno Wielkie [CF90], 24 VII 2007, 1, RG. – 4: Małdyty [DE17], 28 VII 2007, 1, RG; Olsztyn-Dajtki [DE65], 21 VI 2002, 1, DM. – 7: Mielnik [FD30], 30 VII 2008, 1, WJ. – 7a: Topiło-Majdan [FD73], 18 VI 2002, 2, WJ; Stara Judzianka [FD74], 29 VII 2001, 2, WJ; ad Zwierzyniec [FD84], 3 VII 1997, 1, JG; oddz. 454 [FD94], VI-VII 1996, 1, JG.

Literature data: – 7a: oddz. 399C [FD94] (BOROWIEC & KUBISZ 1999, KUBISZ 2004). Mesophilous species, apparently occurring in the whole area of Poland, usually singly collected, more abundant only in the western sites.

Mordellistena parvula (GYLLENHAL, 1827)

New records: – 4: Majki [DE18] ad Pasłek, 14 VI 2008, 1, RG; Zawroty [DE36], 7-30 VI 2008, 4, RG; Osiniak [EE34] ad Ruciane-Nida, 24 VII 2004, 3, WJ; Giętke [EE54] ad Pisz, 7 VI 2002, 1, DK; Gawrych Ruda [FE38], 5 VI 2002, 1, DK. – 6: Stare Budy [ED43] ad Wyszaków, 21 VI 2001, 1, DK; Piątница [ED79] ad Łomża, 15 VI 2003, 1, MW. – 7: Majdan Stuleński [FB89] ad Włodawa, 29 VII 2003, 2, MW; Niemirów [FC49], 15 VI 2003, 1, DK; Zaczopki [FC68] ad Terespol, 3 VI 2002, 2, DK; Mielnik [FD30], 22 VI 2001, 4 VI 2002, 2, DK; Białystok-Pietrasze [FD49], VI-X 2001, 1, JS; Biebrza National Park, Leszczynowe [FE01], 8 VII 1998, 1, JG. – 7a: Topiło-Majdan [FD73], 18 VI 2002, 1, WJ.

Literature data: – 4: Jedwabno [DE83] (BERCIO & FOLWACZNY 1979); Biebrza National Park, Grzędy [FE24] (BOROWIEC & KUBISZ 1999; GUTOWSKI et al. 2006). – 6: Pomiechówek [DD81] (BOROWIEC & KUBISZ 1999). – 7: Osowiec-Twierdza [FE02] (BOROWIEC & KUBISZ 1999). – 7a: Podborowisko [FD76], Białowieża [FD94], Podolany [FD94], Kosy Most [FD95], Siemianówka [FD96] (BOROWIEC & KUBISZ 1999).

Widespread in Poland, frequently collected in the study area.

Mordellistena pseudonana ERMISCH, 1956

New records: – 3: Biała Góra [CE67] ad Sztum, 19 VI 2001, 2, DK. – 4: Świecie [DE00] ad Brodnica, 15 V 2003, 1, DK; Nowe Miasto Lubawskie [DE02], 7 VI 2002, 1, DK; Morąg [DE27], army range, 3 VI 2008, 2, RG; Zawroty [DE36], 7-25 VI 2008, 3, RG; Gawrych Ruda [FE38], 5 VI 2002, 1, DK; Gulbieniszki [FF21] ad Suwałki, Cisowa Góra, 6 VI 2002, 1, DK. – 6: Biebrza National Park, Sieburczyn [ED99], 14 VI 2003, 1, MW. – 7:

Bytyń [FB89], 19 VI 2003, 1, MW; Gnojno [FC49], 13 V 2003, 1, DK; Narwiański National Park, Kolonia Kruszewo [FD28], 28 V 2003, 6, MW; Osłowo [FD30] ad Mielnik, 15 VI 2003, 1, DK; Mielnik [FD30], 4 VI 2002, 12 V 2003, 16 VI 2003, 5, DK, MW; Haćki [FD45] ad Bielsk Podlaski, 5 VI 2002, 1, DK; Studzianki [FE40] ad Wasilków, 5 VI 2002, 1, DK.

Literature data: – 5: Rzęczkowo [CD18] ad Toruń (BOROWIEC & KUBISZ 1999). – 7: „Skarpa Mołóżewska” Reserve [FD01] (KUBISZ et al. 2003).

Typical species of xerothermic swards, where it can be very abundant, but it also frequently occurs in waste ground. It can be expected in suitable habitats throughout Poland.

Mordellistena pseudoparvula ERMISCH, 1956

New records: – 4: Majki [DE18] ad Pasłek, 21 VI 2008, 1, RG; Zawroty [DE36], 30 VI 2008, 1, RG. – 7: Sobibór [FC80], 18 V 2002, 1, MW; Kodeń [FC85], 16 V 2002, 2, MW.

Known from only a few localities in Poland; the record from Majki is probably the northernmost in its entire range. Its biology remains practically unknown, it has been collected from xerothermic and ruderal plant communities.

Mordellistena pseudopumila ERMISCH, 1963

New records: – 4: Majki [DE18] ad Pasłek, 29 VI 2008, 2, RG.

Little known species of uncertain taxonomic status. The new record is the fourth from Poland and the first from the north-east.

Mordellistena pumila (GYLLENHAL, 1810)

New records: – 3: Wzgórza Płutowskie hills [CE21], 18 V 2003, 1, DK; Starogród [CE21], „Góra św. Wawrzyńca” Reserve, 16 V 2002, 17 V 2003, 2, DK; Kłodka [CE53] ad Grudziądz, 16 V 2003, 1, DK; Biała Góra [CE67] ad Sztum, 19 VI 2001, 2, DK. – 4: Świecie [DE00] ad Brodnica, 15 V 2003, 2, DK; Nowe Miasto Lubawskie [DE02], 7 VI 2002, 1, DK; Zalewo [DE06], 22 VI 2008, 1, RG; Morąg [DE27], 3 VI 2008, 6, RG; Zawroty [DE36], 30 V, 7, 25 and 30 VI 2008, 6, RG; Rentyny [DE45] ad Gietrzwałd, 16 VII 2003, 1, DM; Łańsk [DE64] ad Olsztyn, 14 VI 2006, 3, WJ; Olsztyn-Kortowo [DE65], 12.07.2002, 2, DM; Olsztyn-Dajtki [DE65], 21 VI 2002, 2, DM; Olsztyn [DE65] ad Skanda Lake, 18 VII 2002, 1, DM; Leśn. Snopki [EE44], 7 V – 8 VI 2007, 1, JG; Leśn. Brzeziny [EE53], 8-27 VII 2005, 2, JG; Leśn. Szast [EE53], 19 V – 13 IX 2005 and 7 V – 12 VII 2007, 32, JG; Giętkie [EE54] ad Pisz, 7 VI 2002, 1, DK; Biebrza National Park, ad Polkowo [FE24], 16 VII 2000, 1, JG; Biebrza National Park, Wilcza Góra [FE24], 10 VI 2000, 2, JG; Płociczno [FE29] ad Suwałki, 6 VI 2002, 2, DK; Gawrych Ruda [FE38], 5 VI 2002, 1, DK; Gulbieniszki [FF21] ad Suwałki, Cisowa Góra, 6 VI 2002, 1, DK. – 5: Łążyn [CD28] ad Ostromecko, 15 V 2002, 1, DK; Tulibowo [CD73] ad Włocławek, 15 V 2001, 1,

DK. – **6:** Piątnica [ED79] ad Łomża, 15 VI 2003, 1, MW. – **7:** Zbereże [FB89] ad Stulno, 12-18 V 2002, 2, MW; Niemirów [FC49], 4 VI 2002, 2, DK; Gnojno [FC49], 13 V 2003, 1, DK; Zaczopki [FC68] ad Terespol, 3 VI 2002, 1, DK; Wólka Zamkowa [FD10] ad Drohiczyn, 21 VI 2001, 1, DK; Narwiański National Park, Kolonia Kruszewo [FD28], 28 V 2003, 2, MW; Osłowo [FD30] ad Mielnik, 15 VI 2003, 1, DK; Mielnik [FD30], 22 VI 2001, 4-5 VI, 4 VII 2002, 12-13 V 2003, 16 VI 2003, 9, AL, DK, MW. – **7a:** ad Białowieża Towarowa [FD94], 14 VII 2004, 1, JG.

Literature data: – **3:** Biała Góra [CE67] ad Sztum (BOROWIEC & KUBISZ 1999). – **4:** Ostróda [DE35], Jedwabno [DE83] (BERCIO & FOLWACZNY 1979); Szeroki Bór [EE44] (BOROWIEC & KUBISZ 1999). – **6:** Pomiechówek [DD81] (BOROWIEC & KUBISZ 1999). – **7:** Mielnik [FD30], „Góra Uszeście” Reserve (BOROWIEC & KUBISZ 1999). – **7a:** Podborowisko [FD76], Białowieża [FD94], Orzeszkowo [FD94], Kosy Most [FD95] (BOROWIEC & KUBISZ 1999).

Widespread and common throughout Poland.

***Mordellistena purpureonigrans* ERMISCH, 1963**

New records: – **3:** Klódko [CE53] ad Grudziądz, 16 V 2003, 1, DK; Biała Góra [CE67] ad Sztum, 19 VI 2001, 16 V 2003, 3, DK. – **4:** Zalewo [DE06], 22 VI 2008, 3, RG; Morąg [DE27], 3 VI 2008, 3, RG; Prośno [DE36], 5 VII 2008, 1, RG; Zawroty [DE36], 7 and 30 VI, 3 VII 2008, 3, RG; Biebrza National Park, Dębowo [FE24], 24 V 2003, 4, MW; Płociczno [FE29] ad Suwałki, 6 VI 2002, 1, DK. – **5:** Włocławek [CD63], ad „Kulin” Reserve, 13 V 2002, 2, DK. – **7:** Kosyń [FB79] ad Włodawa, 12 VII 2002, 1, MW; Mielnik [FD30], 4-5 VI 2002, 6, DK; Adamowo [FD30], 10 VII 2009, 5, WJ. – **7a:** ad Białowieża Towarowa [FD94], 14 VII 2004, 2, JG.

Literature data: – **3:** Płutowo [CE21] (BOROWIEC & KUBISZ 1999). – **7:** Mielnik [FD30] (KUBISZ et al. 2003); Osowiec-Twierdza [FE02] (BOROWIEC & KUBISZ 1999).

Not uncommon in Poland, locally abundant in warm and dry places (xerothermic swards or, occasionally, waste ground) and probably widespread in a great part of Poland.

***Mordellistena pygmeola* ERMISCH, 1956**

New records: – **4:** Morąg [DE27], 3 VI and 6 VII 2008, 3, RG; Zawroty [DE36], 7 and 24 VI 2008, 4, RG.

Literature data: – **4:** Szczytno [DE93], Pisz [EE54] (BERCIO & FOLWACZNY 1979).

Xerothermophilous species of still unclear taxonomic position, hitherto recorded primarily from southern Poland but, judging from the new records, more widely distributed.

***Mordellistena rufifrons* SCHILSKY, 1894**

New records: – **7:** Mielnik [FD30], 29 VII 2008, 1, WJ. Xerothermic species, earlier recorded from Poland based on misidentified specimens and for this reason removed from the list of Polish Mordellidae (BOROWIEC & KUBISZ 1999). The above locality in Mielnik

is thus the first certain record of *M. rufifrons* in Poland, and the species is new for our fauna.

***Mordellistena secreta* HORAK, 1983**

New records: – 3: Kłodka [CE53] ad Grudziądz, 16 V 2003, 2, DK. – 4: Łańsk [DE64] ad Olsztyn, 14 VI 2006, 1, WJ. – 7: Niemirów [FC49], 15 VI 2003, 2, DK.

In all previous publications dealing with the Polish Mordellidae the species was listed as *Mordellistena pentas* MULS. In his revision of the group of species, HORAK (1983) showed that *M. pentas* proper occurred in southern Europe, while records from central Europe pertain to another species described by him – *M. secreta*. This was subsequently confirmed by LEVEY (1999), who provided a good description of differences between the two species. The results of catches in our studies confirm that it is this species that occurs in Poland. The same was noted by BOROWIEC (1996), who reported that specimens caught in Poland represented the form described as *M. secreta*. In central Europe it occurs mainly in xerothermic places and warm edges of scrub.

***Mordellistena thurepalmi* ERMISCH, 1965**

New records: – 4: Orzyny [EE04] ad Szczytno, „Kulka” Reserve, 7 VI 2002, 2, DK; Giętkie [EE54] ad Pisz, 7 VI 2002, 1, DK. – 7: Stulno [FB89] ad Włodawa, 12 V 2002, 2, MW; Niemirów [FC49] ad Mielnik, 12 V, 15 VI 2003, 2, DK; Haćki [FD45] ad Bielsk Podlaski, 5 VI 2002, 2, DK.

Literature data: – 3: Biała Góra [CE67] ad Sztum (KUBISZ et al. 2003). – 7: Mielnik [FD30] (KUBISZ et al. 2003). – 7a: oddz. 161/163 [FD95] (BOROWIEC & KUBISZ 1999).

Boreal species, previously known only from the north-eastern part of the country. The above localities from the environs of Włodawa are the southernmost in its range. Placed on the Polish Red List (PAWŁOWSKI et al. 2002), as Data Deficient (DD) species, but if suspicions of its current expansion were confirmed (KUBISZ et al. 2003), its inclusion in the list would be ungrounded.

***Mordellistena thuringiaca* ERMISCH, 1963**

New records: – 4: Zawroty [DE36], 3 VII 2008, 1, RG. – 7: Małoziemce [FB89] ad Wola Uhruska, 5 VIII 2003, 2, MW.

Literature data: – 3: Płutowo [CE21] (BOROWIEC & KUBISZ 1999). – 4: Sajenek [FE36] (BOROWIEC & KUBISZ 1999). – 5: Włocławek [CD63], ad „Kulin” Reserve (KUBISZ et al. 2003). – 7a: oddz. 454C [FD94] (KUBISZ et al. 2003).

In Poland rather rare, occurring in warm habitats, probably in most of the country. Its northern distribution border crosses Poland and Belarus.

Mordellistena variegata (FABRICIUS, 1798)

New records: – 4: „Niedźwiedzie Wielkie” Reserve [DE17], 17 VII 2004, 1, RG. – 7a: Topiło-Majdan [FD73], 18 VI 2002, 1, WJ; Stara Judzianka [FD74], 29 VII 2001, 2, WJ.

Literature data: – 7a: oddz. 399C [FD94] (BOROWIEC & KUBISZ 1999, KUBISZ 2004).

Recorded from most of Poland but not abundant, found mainly in forests and park tree stands.

Mordellistena weisei SCHILSKY, 1895

New records: – 4: Majki [DE18] ad Pasłek, 29 VI 2008, 1, RG; Zawroty [DE36], 30 VI and 3 VII 2008, 2, RG. – 7: Majdan Stuleński [FB89] ad Włodawa, 17 VI 2003, 2, DK; Sobibór [FC80], 18 V 2002, 4, MW; Osłowo [FD30] ad Mielnik, 15 VI 2003, 1, DK.

Literature data: – 7a: Białowieża [FD94] (BOROWIEC et al. 1992); Pogorzelce [FD94] (BOROWIEC & KUBISZ 1999).

Rare species, previously known from few localities in only four regions. These are the first records from Podlasie and the Mazurian Lakeland.

Mordellochroa abdominalis (FABRICIUS, 1775)

New records: – 4: Małdyty [DE17], 7 VI 2002, 19, 28 V, 2 VI 2005, 4, RG; Dobrocin [DE27], 30 IV 2005, 1, RG; Łańsk [DE64] ad Olsztyn, 14 and 16 VI 2006, 7, WJ; Olsztyn-Kortowo [DE65], 29 V 2003, 1, DM. – 7a: Topiło-Majdan [FD73], 18 VI 2002, 3, WJ; ad Masiewo [FD95], 17 VI 2001, 3, JG.

Literature data: – 4: Ostróda [DE35] (BERCIO & FOLWACZNY 1979); Górowo [DE97] (BOROWIEC & KUBISZ 1999). – 5: Wielka Kępa Ostromecka [CD19] ad Bydgoszcz (BOROWIEC & KUBISZ 1999). – 7a: Hajnówka [FD74], W. Szafer Landscape Reserve [FD84], oddz. 288C/318A [FD94], oddz. 399C [FD94], oddz. 341 [FD94], oddz. 161 [FD95] (BOROWIEC & KUBISZ 1999); Nadl. Hajnówka – no exact location (BOROWSKI 2001); Białowieża Primeval Forest (KUBISZ & SZWAŁKO 1991); oddz. 399C [FD94], oddz. 288C/318A [FD94] (KUBISZ 2004).

Rather often found in Poland, especially in the mountains. Associated mainly with forests.

Mordellochroa milleri EMERY, 1876

Literature data: – 7a: oddz. 288C/318A [FD94] (KUBISZ 2000). Placed on the Polish Red List (PAWŁOWSKI et al. 2002) as Data Deficient (DD).

The above locality is the only one in Poland and at the same time the northernmost in the entire range.

Mordellochroa tournieri EMERY, 1876

Literature data: – 5: Borek [CD18] ad Toruń (BOROWIEC & KUBISZ 1999). – 7a: Białowieża [FD94] (BOROWIEC & KUBISZ 1999).

Very rare in Poland, in the study area known only from the above localities. In our studies we have not managed to confirm its occurrence.

SUMMARY

A total of 42 species were recorded from the studied area, which is ca. 79% of the Polish fauna of Mordellidae. Including *Mordellistena rufifrons*, new for Poland, 12 species were recorded for the first time (*Variimorda briantea*, *V. mendax*, *Mordellistena acuticollis*, *M. bicoloripilosa*, *M. brunneospinosa*, *M. dieckmanni*, *M. dvoraki*, *M. kraatzi*, *M. pseudoparvula*, *M. pseudopumila*, *M. secreta*). We failed to confirm the occurrence of 7 species (*Variimorda basalis*, *Mordellaria aurofasciata*, *Curtimorda bisignata*, *Mordellistena austriaca*, *M. luteipalpis*, *Mordellochroa milleri*, *M. tournieri*) earlier recorded from the area. However, there are no grounds to question their occurrence and the lack of new data should rather be attributed to their rarity and local occurrence, short time of appearance of imagines and still insufficient knowledge of faunistics of this family. Considering the possibility of finding a few more, previously unrecorded species in the studied area, north-eastern Poland can be regarded as one of the mordellid-richest regions of the country.

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