



New records of butterflies and moths from the Czech Republic, and update the Czech Lepidoptera checklist since 2011

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Abstract: Altogether four moth species, namely *Agonopterix paraselini* Buchner, 2017, *A. medelichensis* Buchner, 2015, *Brachodes pumila* (Ochsenheimer, 1808), and *Callopietria latreillei* (Duponchel, 1827) are reported from the Czech Republic for the first time. *Coleophora aleramica* Baldizzone & Stübner, 2007 is reported as a new species for Moravia, and *Coleophora bilineatella* Zeller, 1849, *C. oriolella* Zeller, 1849 and *Syncopacma albifrontella* (Heinemann, 1870) are new species for Bohemia. Historical record of *Ischnoscia borreonella* (Millière, 1874), unaccepted in previous checklists, is considered possible and included into the species list. Historical records of *Plusidia cheiranthi* (Tauscher, 1809) which were omitted in recent checklists are now considered reliable. The origin of *Dorycnium herbaceum* Vill. in Bohemia is commented on the basis of Lepidoptera trophically associated with this plant species.

Keywords: Lepidoptera, *Dorycnium herbaceum*, new records, species list, Czech Republic, Europe, Palearctic Region

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Introduction

Concerning Lepidoptera, the Czech Republic belongs among best explored European countries. The history of knowledge of the fauna of Lepidoptera is dated back to the end of the 18th century, and several thousands of various papers concerning this insect order have been published in last c. 220 years. On the basis of those publications and continually increasing interest in the collecting of Lepidoptera, several compendious species lists (mainly the papers by Nickerl) were published already in the second half of the 19th century. The fundamental papers were then published in the first half of the 20th century (Sterneck 1929, Sterneck & Zimmermann 1931). Whereas among these publications and the subsequent overall list (Laštůvka et al. 1993) more than 60 years passed, the actual effort is to summarize

the knowledge markedly more often. The last species list was published in 2011 (Laštůvka & Liška 2011) and its updated version is being prepared currently. The main reason for that is a constantly increasing degree of knowledge of our fauna, and also a higher frequency of nomenclatory changes or the changes in taxonomical status of some species or species groups. The aim of the present paper is to provide an important background material for such update and, besides new records, to summarize the progress in the faunistic knowledge since 2011. Moreover, historical occurrence of selected species, previously not accepted by authors of some species lists for various reasons, is commented. Conversely, some recently published data which need confirmation by subsequent findings (left only with great reservation in the current checklist) are highlighted.

Material and methods

The data on new species for the Bohemian or Moravian-Silesian fauna were obtained partly by collecting activities of the authors and partly by a revision of older museum collections. In order to summarize the current faunistic data, all relevant sources published after 2011 were studied. Nomenclature follows Laštůvka & Liška (2011).

Abbreviations:

MMBC	Moravian Museum, Brno
NHMV	Natural History Museum, Vienna
NMPC	National museum, Prague
NR	Nature Reserve

New records and taxa not mentioned in the last version of the Czech species list

Ischnoscia borreonella (Millière, 1874)

Published data: Giant Mountains [„Riesengebirge“], Juli (year not stated), Krone leg. (Nickerl 1908).

This published record was accepted by Sterneck & Zimmermann (1931) in their Prodnomus der Schmetterlingsfauna Böhmens, and later also by Novák & Liška (1997) (with a reservation) and subsequently by Gaedike (2015). However, it was excluded from the last version of the checklist (Laštůvka & Liška 2011). Regarding its occurrence in Germany, on the basis of historical (although still unrepeated) record we incline to return the species to the Bohemian species list.

Eteobalea serratella (Treitschke, 1833) (fig. 1)

Material studied: Moravia mer., Lanžhot-Soutok, 8.vii.2017, 1 ♂, J. Liška leg., det. et coll.

E. serratella was mentioned already in the old checklists by Skala (1912–1913) and Sterneck & Zimmermann (1933). However, these may concern also other species, still undescribed at that time. All historical records therefore should be revised. Regarding Moravia, beside the record mentioned by Skala (1912–1913), it was published also by Povolný & Gregor (1948) and Gregor & Povolný (1949) from Mohelno. The voucher specimens were revised, and they actually belong to the species *Eteobalea anonymella* (Riedl, 1965) (cf. Šumpich 2017). Similarly, all Bohemian records checked by the authors of this paper always belonged to other *Eteobalea* species. In spite of its continuous introducing in Bohemian and Moravian Lepidoptera checklists we consider the above mentioned record as the first reliable ones from the Czech Republic.



Fig. 1. *Eteobalea serratella* (Treitschke, 1833), Lanžhot-Soutok (16 mm).



Fig. 2. *Brachodes pumila* (Ochsenheimer, 1808), Praha (13 mm).

***Brachodes pumila* (Ochsenheimer, 1808) (fig. 2)**

Material studied: Bohemia centr., Prague, Závist [“Zavist”], Juni (year not stated), 1 ♂, O. Nickerl leg., coll. NMPC.

This record was previously published as *Brachodes appendiculata* (Esper, 1783) (Nickerl 1908) and later it was accepted also by Sterneck & Zimmermann (1933). Only recently the voucher specimen was revised and the previous Nickerl’s identification corrected. The voucher specimen was placed among the individuals of *B. appendiculata* in the original Nickerl’s collection, and in contrast to the majority of other material it is labelled „Zavist | Nickerl“. The date of the record was published by Nickerl (1908) and the author also described the habitat as the sunny and dry slopes near the Vltava River. This record, so far unique from the territory of the Czech Republic, is reliable and documents historical occurrence of *B. pumila* in central Bohemia. Also *B. appendiculata* has been recorded in Bohemia only once, namely on 5 June 1952 near Srbsko – a village located also in central Bohemia (in the area of the Bohemian Karst) (Krušek & Soldát 1980). However, the identification of this specimen was not verified so far. Within Czechia this species is sparsely distributed in southern Moravia (e.g. Šumpich 2011a).

***Coleophora aleramica* Baldizzone & Stübner, 2007 (fig. 3)**

Material studied: Moravia mer., Lanžhot-Soutok, 5.v.2018, 2 ♂♂, J. Liška leg., det. et coll.

Recently reported from Bohemia as a new species for the Czech Republic (Liška et al., in press.). Its occurrence is known from France, Italy, Slovakia, Hungary, Austria, Croatia, Montenegro, Macedonia, Bulgaria, Greece, Jordan, and Turkey (Liška et al. 2018). New species for Moravia.



Fig. 3. *Coleophora aleramica* Baldizzone & Stübner, 2007, Lanžhot-Soutok (13 mm).



Fig. 4. *Coleophora bilineatella* Zeller, 1849, Milovice (13 mm).

***Coleophora bilineatella* Zeller, 1849 (fig. 4)**

Material studied: Bohemia centr., Milovice – Na Skále (5755), 12.vi.2018, 3 ♀♀, 20.vi.2018, 3 ♂♂, 1 ♀ (all specimens in flight around the tufts of *Dorycnium herbaceum* Vill.), J. Liška leg., det. et coll.

Very local species in the Czech Republic, recorded so far only in southern Moravia (e.g. Laštůvka & Liška 2011, Šumpich 2017). In central Europe hitherto not recorded only from Poland (Baldizzone & van der Wolf 2013). New species for Bohemia.

***Coleophora oriolella* Zeller, 1849 (fig. 5)**

Material studied: Bohemia centr., Milovice – Na Skále (5755), 12.vi.2018, 1 ♀, 20.vi.2018, 1 ♂, 1 ♀ (all specimens in flight around the tufts of *Dorycnium herbaceum* Vill.), J. Liška leg., det. et coll.

Similarly to the previous species, this one is also trophically associated with *Dorycnium* spp. (but develops also on *Lotus* spp. and *Securigera varia*), and was hitherto known only from southern Moravia in the Czech Republic (e.g. Laštůvka & Liška 2011, Šumpich 2017), recorded also in the Údolí Brtnice NR (Šumpich 2011b). It is known from all neighbouring countries (Baldizzone & van der Wolf 2013). New species for Bohemia.



Fig. 5. *Coleophora oriolella* Zeller, 1849, Milovice (12 mm).



Fig. 6. *Agonopterix medelichensis* Buchner, 2015, Praha-Radotín (14 mm).

***Agonopterix medelichensis* Buchner, 2015 (fig. 6)**

Material studied: Bohemia centr., Praha – Prokopské údolí, 29.iv.1992, 1♂, Radotín – Cikánka, 27.vii.1995, 1♀, 7.iv.1996, 1♂, 15.iv.2004, 1♂, 2.ix.2006, 3 ♂♂, 6.vii.2014, 1♂, 1♀, 18.viii.2014*, 1f Srbsko, 21.vii.1992, 1♂, all J. Liška, leg., det. et coll.

Recently described species so far published from Italy, Slovenia, Croatia and Greece (Buchner 2015). It was separated from *Agonopterix rotundella* (Douglas, 1846) which was repeatedly reported from central Bohemia (Bohemian Karst) and sporadically also from Moravia (Laštůvka & Liška 2011). On the basis of this taxonomic change we report it as new species for the Czech Republic and at the same time we remove *A. rotundella* from the Czech checklist.

***Agonopterix paraselini* Buchner, 2017 (fig. 7)**

Material studied: Moravia mer., Kobyly – Zázmoníky, 30.vii.2003, 1♂, 1♀, 14.vii.2005, 2 ♂♂, Pavlovské vrchy – Tabulová, 3.viii.2017, 1♂, 1♀, all J. Liška leg., det. et coll., Ječmeniště near Znojmo, 2.vii.2014, 1 ♂, J. Skyva leg. et coll., P. Buchner det. (Gp. DEURR 6200).

The species was recently described by a result of the revision of *Agonopterix selini* group

of species (Buchner 2017). The Czech vouchers of *A. selini* (Heinemann, 1870) and *A. parilella* (Treitschke, 1835) were subsequently revised and the first specimens of *A. paraselini* were found. *A. paraselini* has been hitherto recorded in Croatia, France, Greece, Italy, Slovenia, Slovakia and Turkey. New species for the Czech Republic.

***Syncopacma albifrontella* (Heinemann, 1870) (fig. 8)**

Material studied: Bohemia centr., Milovice – Na Skále (5755), 20.vi.2018, 4 ♂♂, 6.vii.2018, 2 ♂♂, J. Liška leg., det. et coll.

In the Czech Republic reported so far only from southern Moravia, mainly the Pálava Hills (Elsner et al. 1999) and the Moravian Karst (Laštůvka et Marek 2002), and also from the southeastern edge of the Bohemian-Moravian Highlands (Dvořák 2017). In central Europe hitherto not recorded only from Poland and Slovenia (Karsholt 2013). The larva develops on *Astragalus arenarius* L. New species for Bohemia.



Fig. 7. *Agonopterix paraselini* Buchner, 2017, Kobylí (16 mm).



Fig. 8. *Syncopacma albifrontella* (Heinemann, 1870), Milovice (10 mm).

***Limenitis reducta* Staudinger, 1901 (figs 9–12)**

Material studied: Bohemia bor., České středohoří [Mittelgebirge], 20.vii.1936, 2 ♂♂, 15.vii.1938, 2 ♂♂, J. König leg., coll. NMPC; Bohemia centr., Bohemian Karst, Karlštejn, 2.vii.1927, 1 ♂, collector not stated, coll. NMPC.

The species is currently considered extinct in the Czech Republic. Its occurrence in southern and central Moravia in the first half of the 20th century was published by more authors, and Beneš et al. (2002) accepted its historical occurrence in Moravia without a doubt. No record was published from Bohemia so far. However, several Bohemian specimens are deposited in the NMPC. Although the authors are aware of the fact that at that time some entomologists used the locality labels containing their home address instead an exact locality, it must be taken into account that the Bohemian specimens of *L. reducta* in the NMPC originate from two collections. In proof of the credibility of these records we introduce also the photos of the labels. We consider the historical records from Bohemia possible and thus also reliable, and *L. reducta* therefore should be listed in the Bohemian checklist.

***Plusidia cheiranthi* (Tauscher, 1809)**

Published data: Bohemia (without exact locality), 1926 (without exact date) and Cheb (without date) (Goater et al. 2003).

These published records are based on the museum vouchers, both photographed in the monography by Goater et al. (2003). In the neighbouring countries it was recorded in western Poland, and according to Goater et al. (2003) also in north-eastern Germany and

Slovakia. In Slovakia, its occurrence was published already by Bauer (1927), and later these data were included also to the lists of Slovakian Lepidoptera (e. g. Hrubý 1964, and additional works). This species was removed from Slovakian checklist by Laštůvka (1998) as doubtful undocumented records. The occurrence in Germany published by Goater et al. (2003) was recently commented by A. Steiner in Gaedike et al. (2017), and he states that *P. cheranthi* actually was never recorded there. From these reasons, it is not listed in the recent German and Slovakian national checklists. However, with respect to the being of Bohemian voucher specimens we cannot so resolutely exclude its occurrence here in the past, and we support its placement to the Bohemian Lepidoptera list as old datum without recent confirmation.



Fig. 9. *Limenitis reducta* Staudinger, 1901, Karlštejn (52 mm).



Fig. 10. *Limenitis reducta* Staudinger, 1901, České středohoří (48 mm).



Fig. 11. *Limenitis reducta* Staudinger, 1901, České středohoří (48 mm).



Fig. 12. *Limenitis reducta* Staudinger, 1901, České středohoří (50 mm).

***Callopietria latreillei* (Duponchel, 1827) (Figs 13)**

Material studied: Moravia mer., Podyjí National Park, Podmolí env., Liščí skála (rock), 12.vii.2018, 1 ♂, J. Šumpich leg. (NMPC).

A Mediterranean species, outside Europe known from the Canary Islands and northern Africa in the west and to Afghanistan and Turkestan in the east (Fibiger & Hacker 2007). In central Europe it occurs only in Hungary, Slovenia and Austria (Fibiger & Skule 2013). However, in Austria it was recorded only in the south, namely in Carinthia (Huemer 2013). *C. latreillei* is associated with xerotherm, mainly rocky habitats. The larva develops on ferns, predominantly on *Asplenium ceterach* L. (cf. Fibiger & Hacker 2007). Considering that within the Czech Republic, *A. ceterach* recently occurs only in northern and central Bohemia, and at the same time it belongs among critically endangered species (cf. Strnad & Ekrt 2007),

the larvae of *C. latreillei* have to develop on other fern species in Podyjí National Park. At the Liščí skála locality, only one specimen was caught by a portable light trap positioned below a high rock wall (figs 14–15) where chasmophytic vegetation of cliffs and screes occurs. Autochthonous occurrence of *C. latreillei* in southern Moravia remains questionable but it is not possible to exclude it. The captured specimen was fresh, and the locality is rather isolated from civilisation. New species for the Czech Republic.

Comments on some species deposited in MMBC and NMPC

Particular Lepidoptera collections in the NMPC were examined during last four years and some interesting discoveries were made there. Some of them were already published in various papers, the others are still being worked out. The species *Rhigognostis schmaltzella* (Zetterstedt, 1839), *Depressaria bupleurella* Heinemann, 1870, and *Scrobipalpa hyoscyamella* (Stainton, 1869) from the collection of the NMPC were previously overlooked or erroneously identified, and they were listed within the Czech fauna only recently (mostly more than hundred years after their collecting) (cf. Šumpich et al. 2013, Liška et al. 2015, 2018). Only the first species was confirmed also by recent findings.

A similar situation can be also found in the second largest museum in the Czech Republic – the MMBC. The species *Phtheochroa annae* Huemer, 1990, *Depressaria libanotidella* Schläger, 1849, *Synaphe antennalis* (Fabricius, 1794), and *Acrobasis dulcella* (Zeller, 1848) were discovered in old collections as new species for Bohemia or the whole Czech Republic (Liška et al. 2008, 2015, 2018). Additional interesting records found in both mentioned museums are reported below.



Fig. 13. *Calloplistria latreillei* (Duponchel, 1827), Podmolí, Liščí skála (rock) (24 mm).



Figs 14–15. Liščí skála (rock) in Podyjí National Park, the habitat of *Calloplistria latreillei* (Duponchel, 1827). Left: portable light trap below the rock. Right: General view of the Dyje river valley from the site where the trap was located.

***Depressaria floridella* (Mann, 1864) (fig. 16)**

Material studied: Bohemia centr., Bohemian karst, Prague, Prokopské údolí NR [„Prokop“], 30.viii.[18]83, 2 ♂♂, 18.viii.[18]87, 1 ♂, 12.viii.[18]84, 1 ♂, 13.viii.[18]84, 2 ♀♀, 1.ix.[18]83, 1 ♂, 1 ♀, 4.ix.[1]882, 1 ♂ (fig. 16), 21.vi.[18]90, 1 ♂, O. Nickerl leg., coll. NMPC.

The species was recently reported as new for Bohemia (Šumpich et al. 2013) and subsequently also for Moravia (Liška et al. 2015). However, a series of 13 specimens of the species is deposited in Nickerl's research collection in the NMPC. Ten specimens (7 ♂♂ and 3 ♀♀) are labelled as „Sct. Prokop“, „St. Prokop“ or „Prokop“ (see the exact data above), three specimens are unlabelled but most likely originating from the same locality. One male from 21 June 1890 was identified and published by O. Nickerl as *Depressaria chaerophylli* Zeller, 1839 (cf. Nickerl 1908), the others were unsorted as unidentified. Until recently, *D. floridella* was known only from Turkey (locus typicus) and Greece, now it is known from Spain across central Europe to Ukraine, Russia, and Caucasus (Buchner & Šumpich, in press). Recently it was collected on more sites of the Bohemian Karst, including the Prokopské údolí NR (Liška 2015).

***Megacraspedus albovenatus* Junnilainen, 2010 (fig. 17)**

Material studied: Moravia mer., Pouzdřany env., Pouzdřanská step [Pouzďřany steppe], 17.vii.1947, F. Gregor leg., coll. MMBC.

A species described recently from southern Ural. Its occurrence in the Czech Republic was firstly published from Hustopeče in southern Moravia (Vávra et al. 2008, published as *M. fallax* Mann, 1867). Later it was recorded also on other Moravian sites and also in Slovakia (Šumpich et al. 2011, Šumpich & Skyva 2012). Its formerly overlooked occurrence in central Europe is confirmed by the presented record.

***Cydia ilipulana* (Walsingham, 1903) (figs 18–19)**

Material studied: Bohemia centr., Milovice – Na Skále (5755), 12.vi.2018, 4 ♂♂, 4 ♀♀ (and several dozens of specimens observed), J. Liška leg. et det., coll. NMPC, 20.vi.2018, more specimens, J. Liška observ.

To date it was known only from southern Moravia (cf. Šumpich 2017). However, the species was recorded by J. Vávra in Bohemia (the same locality as stated above –Milovice env.) already in the 1990s but published as new species for Bohemia only recently (Liška et al. 2018). The new records confirm its permanent presence at the locality, and also its relation to *Dorycnium* spp. (cf. Walsingham 1903) in which growths the adults were obligatory observed. Also at other localities it is being observed only in the communities with this plant species (similarly like the related *Cydia centralasiae* Obratzsov, 1949).



Fig. 16. *Depressaria floridella* (Mann, 1864), Prague (20 mm).



Fig. 17. *Megacraspedus albovenatus* Junnilainen, 2010, Pouzdřany (12 mm).

***Crambus heringiellus* Herrich-Schäffer, 1848 (fig. 20)**

Material studied: Bohemia bor., Staré Splavy env., Jestřebí [“Thammül”], 27.vii.1936, 1 ♂, 30.vii.1936, 1 ♂, F. Zimmermann leg., coll. NMPC.

The first record of *C. heringiellus* from the Czech Republic was published only recently by Šumpich et al. (2011). However, two older specimens originating from the same locality as the recent finding are deposited in the NMPC, and F. Zimmermann correctly identified them but he already did not manage to publish the records himself, and these remained unnoticed to date. The records are very important from the faunistic view as the locality is placed on the south-western border of currently known distribution of *C. heringiellus*. The locality also represents one of the most important sites for boreal elements in Bohemia.

***Eucarta amethystina* (Hübner, 1803)**

Material studied: Moravia mer., Valtice env., 23.vi.1970, 1 ♂, 26.vi.1970, 1 ♀, Kaftan leg., coll. NMPC.

The species was recently published as new for the Czech Republic from southern Moravia (Liška et al. 2014). However, its already earlier occurrence in the area is confirmed by the above presented record.



Figs 18–19. *Cydia ilipulana* (Walsingham, 1903), Milovice. Left: Male (11.5 mm). Right: Female (10 mm).

Comments on some published records

The occurrence data of more species from the Czech fauna of Lepidoptera are based only on a single record. Sometimes it is possible to verify the species identity if a voucher specimen is available (e.g. *Eulamprotes libertinella* (Zeller, 1872), see Liška et al. 2015). Sometimes the doubts may persist even if the identification is clearly correct but a confusion in labelling can not be excluded (e.g. *Pyrausta obfuscat*a (Scopoli, 1763) and *P. coracinalis* Leraut, 1982 in Bohemia, see Povolný & Králíček 1984, Povolný & Marek 2001). Among such uncertain cases we classify also the recently published record of *Epichnopterix ardua* Mann, 1867. Based on finding of one sac („case“) it was



Fig. 20. *Crambus heringiellus* Herrich-Schäffer, 1848, Staré Splavy (20 mm).

published by Arnscheid & Weidlich (2017) from the Králický Sněžník Mt. The sacs of related taxa are very similar and easily confusable. Therefore we accept this published record with this objection. Similarly, the occurrence of *Rebelia kruegeri* Turati, 1915 in the Czech Republic is based only on the records from Pouzdřany in southern Moravia published by Sitek (2013). However, *Rebelia* specimens from this locality were identified as *R. sapho* (Millière, 1864) by other lepidopterologists (J. Liška coll., J. Uříčář, pers. comm.), and their identification corresponds to Arnscheid & Weidlich (2017). Thus, also in this case we accept *R. kruegeri* in the Czech checklist with an objection, and the records published by Sitek (2013) require a revision. On the other hand we incline to leave *Rebelia bavarica* Wehrli, 1926 as a part of Czech fauna due still not completely resolved taxonomical position of Czech individuals (cf. Arnscheid & Weidlich 2017).

It is also worth mentioning the published or unpublished records of several taxa of which the species identity is still not clear or completely resolved, and therefore they are not listed in the current version of the Czech checklist. One so far undescribed species was published already nearly twenty years ago as „*Monochroa* sp. 1“ from southern Moravia (Elsner et al. 1999) and is still awaiting its description. Some additional taxa were most likely described



Figs 21–22. Milovice, the habitat of *Coleophora bilineatella*, *C. oriolella*, *Syncopacma albifrontella* and *Cydia ilipulana*. In the upper left corner: Detail of *Dorycnium herbaceum* with the adult of *C. ilipulana*.



Fig. 23. Milovice, meadow with *Dorycnium herbaceum*.

but due to the absence of a taxonomical revision they are difficult to identify reliably. This is mainly the case of some *Pelochrista* and *Eucosma* species with the occurrence reported from some neighbouring countries (e.g. *Pelochrista modicana* (Zeller, 1847)). The species *P. modicana* or *P. medullana* (Staudinger, 1879) were mentioned in previous Bohemian and Moravian checklists but later they were rejected as a misidentification. Actually at least one *Pelochrista* species, in this moment without a reliable identification, occurs here currently. Similarly we are aware of the occurrence of several other species of Lepidoptera that are currently not listed from our territory due to lack of revision works and persisting taxonomical questions. This includes for example some taxa close to *Eucosma aspidiscana* (Hübner, [1817]), or *E. metzneriana* (Treitschke, 1830).

The following species should be removed from the updated Czech checklist

Species	Correct status
<i>Monochroa suffusella</i> (Douglas, 1850)	<i>Monochroa arundinetella</i> (Boyd 1857) ¹
<i>Ephestia unicolorrella</i> Staudinger, 1881	<i>Ephestia woodiella</i> Richards et Thomson, 1932
<i>Agonopterix rotundella</i> (Douglas, 1846)	<i>Agonopterix medelichensis</i> Buchner, 2015
<i>Coleophora kroneella</i> Fuchs, 1899	<i>Coleophora genistae</i> Stainton, 1857
<i>Coleophora chamaedriella</i> Bruand, 1852	<i>Coleophora mareki</i> Tabell & Baldizzone, 2014
<i>Acrobasis glaucella</i> Staudinger, 1859	<i>Acrobasis fallouella</i> (Ragonot, 1871)
<i>Entephria nobiliaria</i> (Herrich-Schäffer, 1852)	<i>Entephria flavicinctata</i> (Hübner, 1813)

¹ this correction applies only to the Moravian checklist

Comments on Lepidoptera species closely associated with *Dorycnium herbaceum* in Bohemia

The occurrence of *Dorycnium herbaceum* Vill. in Bohemia is considered secondary (Slavík 1995, Kubát et al. 2002). However, recent records of three Lepidoptera species trophically closely associated with this plant were published from the surroundings of Milovice in central Bohemia (Liška et al. 2018, and this paper). These species, namely *Coleophora bilineatella*, *C. oriolella* and *Cydia ilipulana*, are monophagous (in Moravia, their larvae develop on *Dorycnium germanicum* (Gremli) Rikli) or oligophagous (*C. oriolella* develops also on *Lotus* and *Securigera varia*). All mentioned species are very rare and local in southern Moravia whereas they were not mentioned from Bohemia to date. They were most probably overlooked due to their small size and rather a lower affinity to light sources (they were collected mainly in the daytime). Their possible introduction to Bohemia is unlikely, moreover, *C. ilipulana* was recorded from here already more than 25 years ago. Therefore we consider also the occurrence of *D. herbaceum* in Milovice as autochthonous.

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Appendix

Lepidoptera species not listed for the Czech Republic or for its part by Laštůvka & Liška (2011) with their first records (B = Bohemia; M = Moravia; S = Silesia; CZ = Czech Republic; * – alien species; ** – synanthropic or mostly synanthropic occurrence, *** – migrant; very old records are in brackets).

Species	B	M	S	CZ	Source
Incurvariidae					
<i>Lampronia capitella</i> (Clerck, 1759)		M			Kuras & Mazalová (2010), Liška et al. (2015)
Psychidae					
<i>Dahlica charlottae</i> (Meier, 1957)		M			Němý (2016)
<i>Dahlica lazuri</i> (Clerck, 1759)	B	M		CZ	Němý (2012)
<i>Dahlica wockii</i> (Heinemann, 1870)		M		CZ	Sterneck & Zimmermann (1933), Němý (2012)
<i>Epichnopterix ardua</i> Mann, 1867	B			CZ	Arnscheid & Weidlich (2017)
<i>Rebelia kruegeri</i> Turati, 1914		M		CZ	Sitek (2013)
<i>Rebelia surientella</i> (Bruand, 1858)		M		CZ	Liška et al. (2014)
Tineidae					
<i>Cephimallota angusticostella</i> (Zeller, 1839)	B			CZ	Gaedike & Mally (2011), Liška et al. (2018)
<i>Ischnoscia borreonella</i> (Millière, 1874)	(B)			(CZ)	Nickerl (1908)
<i>Monopis fenestratella</i> (Heyden, 1863)	B				Liška et al. (2018)
<i>Monopis neglecta</i> Šumpich & Liška, 2011		M		CZ	Šumpich (2011a)
<i>Pelecystola fraudulentella</i> (Zeller, 1852)	(B)			(CZ)	Sterneck & Zimmermann (1933)
Gracillariidae					
<i>Caloptilia honoratella</i> (Rebel, 1914)	B				Liška et al. (2018)
<i>Caloptilia jurateae</i> Bengtsson, 2010	B		S	CZ	Liška et al. (2014, 2018)
<i>Phyllocnistis asiatica</i> Martynova, 1955	B	M		CZ	Liška et al. (2018)
<i>Phyllocnistis extrematrix</i> Martynova, 1955	B	M		CZ	Liška et al. (2014, 2018)
<i>Phyllocnistis ramulicola</i> Langmaid et Corley, 2007	B	M		CZ	Liška et al. (2014, 2018)
<i>Phyllocnistis valentinensis</i> Hering, 1936	B	M		CZ	Pastoralis et al. (2013), Liška et al. (2014)
<i>Phyllonorycter hostis</i> Triberti, 2007		M		CZ	Liška et al. (2014)
<i>Phyllonorycter trifoliella</i> (Gerasimov, 1933)	B			CZ	Liška et al. (2018)
Bucculatricidae					
<i>Bucculatrix humiliella</i> Herrich-Schäffer, 1855		M			Liška et al. (2015)
Argyresthiidae					
<i>Argyresthia aurulentella</i> Stainton, 1849		M			Liška et al. (2014)
<i>Argyresthia kulfani</i> Bengtsson et Johansson, 2012	B	M		CZ	Liška et al. (2018)
<i>Argyresthia svenssoni</i> Bengtsson et Johansson, 2012	B			CZ	Liška et al. (2014)
Plutellidae					
<i>Rhigognostis schmaltzella</i> (Zetterstedt, 1839)	B			CZ	Liška et al. (2018)
Glyphipterigidae					
<i>Digitivalva valeriella</i> (Snellen, 1878)		M		CZ	Liška et al. (2014)
Ypsolophidae					

<i>Ypsolopha hazariella</i> (Mann, 1866)	B				Liška et al. (2014)
Acrolepiidae					
<i>Acrolepia autumnitella</i> Curtis, 1838		M			Liška et al. (2015)
Blastobasidae					
<i>Blastobasis pannonica</i> Šumpich & Liška, 2011		M	CZ		Šumpich (2011)
<i>Tecmerium perplexum</i> (Gozmány, 1957)		M	CZ		Liška et al. (2014)
Oecophoridae					
<i>Batia lunaris</i> (Haworth, 1828)	B		CZ		Liška et al. (2018)
Lypusidae					
<i>Agnoea synchrorella</i> (Jäckh, 1959)	B		CZ		Liška et al. (2018)
Elachistidae					
<i>Elachista consortella</i> Stainton 1851		M			Liška et al. (2015)
<i>Elachista scirpi</i> Stainton, 1887		M	CZ		Liška et al. (2015)
<i>Chrysoclista gabretica</i> Šumpich, 2012	B		CZ		Šumpich & Skyva (2012)
<i>Chrysoclista germanica</i> Šumpich et Huemer, 2016	B		CZ		Šumpich & Jaroš (in press)
Depressariidae					
<i>Agonopterix bipunctosa</i> (Curtis, 1850)		M	CZ		Sitek & Vacula (2014)
<i>Agonopterix medelichensis</i> Buchner, 2015	B	M	CZ		this paper
<i>Agonopterix paraselini</i> Buchner, 2017		M	CZ		this paper
<i>Depressaria bupleurella</i> Heinemann, 1870	B				Liška et al. (2018)
<i>Depressaria floridella</i> (Mann, 1864)	B	M	CZ		Šumpich et al. (2013), Liška et al. (2015)
<i>Depressaria libanotidella</i> Schläger, 1849	(B)				Liška et al. (2018)
Coleophoridae					
<i>Coleophora aleramica</i> Baldizzone et Stübner, 2007	B	M	CZ		Liška et al. (2018), this paper
<i>Coleophora bilineatella</i> Zeller, 1849	B				this paper
<i>Coleophora bornicensis</i> Fuchs, 1886		M	CZ		Liška et al. (2018)
<i>Coleophora frankii</i> Schmidt, 1886		M			Liška et al. (2015)
<i>Coleophora glaseri</i> Toll, 1961	B				Krampl et al. (2014)
<i>Coleophora hackmani</i> (Toll, 1953)		M	CZ		Sitek (2015)
<i>Coleophora chalcogrammella</i> Zeller, 1839		M			Liška et al. (2014)
<i>Coleophora mareki</i> Tabell & Baldizzone, 2014	B	M	CZ		Tabell & Baldizzone (2014)
<i>Coleophora oriolella</i> Zeller, 1849	B				this paper
<i>Coleophora paramayrella</i> Nel, 1993	B	M			Liška et al. (2015)
<i>Coleophora scabrída</i> Toll, 1959	B	M	CZ		Krampl et al. (2014), Šumpich (2017)
<i>Coleophora subula</i> (Falkovitsh, 1993)		M	CZ		Liška et al. (2018)
<i>Coleophora variicornis</i> Toll, 1952	B				Liška et al. (2018)
Scythrididae					
<i>Scythris buszkoi</i> Baran, 2004		M	CZ		Sitek & Vacula (2014)

<i>Scythris fuscoaenea</i> (Haworth, 1828)		M			Liška et al. (2018)
Gelechiidae					
<i>Anarsia innoxia</i> Gregersen & Karsholt, 2017	B	M		CZ	Gregersen & Karsholt (2017), Šumpich (2017)
<i>Caryocolum pullatella</i> (Tengström, 1848)		M		CZ	Šumpich (2017)
* <i>Coleotechnites piceaella</i> (Kearfott, 1903)	B				Liška et al. (2014)
<i>Ephysteris minutella</i> (Zeller, 1847)		M		CZ	Liška et al. (2014)
<i>Eulamprotes libertinella</i> (Zeller, 1872)	(B)			(CZ)	Liška et al. (2015)
<i>Monochroa arundinetella</i> (Boyd 1857)		M			Liška et al. (2015)
<i>Monochroa niphognatha</i> (Gozmány, 1953)		M		CZ	Sitek (2015)
<i>Monochroa rectifasciella</i> Fuchs, 1902		M		CZ	Šumpich (2011a)
<i>Ptocheuusa paupella</i> (Zeller, 1047)		M		CZ	Liška et al. (2018)
<i>Scrobipalpa hyoscyamella</i> (Stainton, 1869)	(B)			(CZ)	Liška et al. (2015)
<i>Syncopacma albifrontella</i> (Heinemann, 1870)	B				this paper
Epermeniidae					
<i>Epermenia profugella</i> (Stainton, 1856)		M			Liška et al. (2014)
Tortricidae					
<i>Acleris lacordairana</i> (Duponchel, 1836)		M		CZ	Liška et al. (2014)
<i>Acleris quercinana</i> (Zeller, 1849)		M		CZ	Sitek (2013)
<i>Argyroploce concretana</i> (Wocke, 1862)	B			CZ	Liška et al. (2018)
<i>Bactra robustana</i> (Christoph, 1872)	B	M		CZ	Liška et al. (2015)
<i>Bactra suedana</i> (Bengtsson, 1990)		M		CZ	Němý (2016)
<i>Celypha rosaceana</i> Schläger, 1847		M			Komínková & Šefrová (2014)
<i>Cydia exquisitana</i> (Rebel, 1899)		M		CZ	Liška et al. (2015)
<i>Cydia ilipulana</i> (Walsingham, 1903)	B				Liška et al. (2018), this paper
<i>Epinotia cinereana</i> Haworth, 1811	B	M		CZ	Liška et al. (2014)
<i>Eugnosta lathoniana</i> (Hübner, [1800])		M		CZ	Šumpich et al. (in prep.)
<i>Gynnidomorpha minimana</i> (Caradja, 1916)		M		CZ	Liška et al. (2014)
<i>Olethreutes subtilana</i> (Falkovitsh, 1959)	B			CZ	Liška et al. (2014)
<i>Phalonidia contractana</i> (Zeller, 1847)	B				Liška et al. (2018)
<i>Phalonidia udana</i> Guenée, 1845		M		CZ	Liška et al. (2014)
Brachodidae					
<i>Brachodes pumila</i> (Ochsenheimer, 1808)	(B)			CZ	this paper
Sesiidae					
<i>Synanthedon soffneri</i> Špatenka, 1983		M			Liška et al. (2014)
Lycaenidae					
*** <i>Cacyreus marshalli</i> Butler, 1898			S	CZ	Novák & Beneš (2016)
Nymphalidae					
<i>Limenitis reducta</i> Staudinger, 1901	(B)			(CZ)	this paper
Pyralidae					

<i>Acrobasis dulcella</i> (Zeller, 1848)	(B)			(CZ)	Liška et al. (2015)
<i>Acrobasis fallouella</i> (Ragonot, 1871)		M		CZ	Skala (1931), Šumpich (2017)
<i>Aglossa caprealis</i> (Hübner, [1809])		M		CZ	Liška et al. (2015)
** <i>Cadra figulilella</i> (Gregson, 1871)		M			Sitek & Vacula (2014), Liška et al. (2015)
<i>Delplanqueia inscriptella</i> (Duponchel, 1836)	B	M		CZ	Šumpich (2017)
** <i>Endotricha kuznetzovi</i> Whalley, 1963			S	CZ	Sitek (2015)
<i>Ephestia woodiella</i> Richards et Thomson, 1932	B	M		CZ	Liška et al. (2018)
<i>Phycitodes inquinatella</i> (Ragonot, 1887)		M		CZ	Liška et al. (2014)
** <i>Pyralis lienigialis</i> Zeller, 1843		M		CZ	Liška et al. (2015)
<i>Synaphe antennalis</i> (Fabricius, 1794)	(B)				Liška et al. (2015)
Crambidae					
<i>Agriphila tolli</i> (Błeszyński, 1952)	B				Liška et al. (2015)
* <i>Cydalima perspectalis</i> (Walker, 1859)	B	M		CZ	Šumpich (2011a), Liška et al. (2015)
<i>Mecyna lutealis</i> (Duponchel, 1833)	B			CZ	Nickerl (1906), Liška et al. (2014)
<i>Pyrausta obfuscata</i> (Scopoli, 1763)		M			Liška et al. (2018)
*** <i>Spoladea recurvalis</i> (Fabricius, 1775)		M		CZ	Liška et al. (2018)
* <i>Sufetula</i> sp.	B			CZ	Šumpich (in prep.)
Geometridae					
<i>Cyclophora puppillaria</i> (Hübner, 1799)	B			CZ	Jirgl (2015)
<i>Eilicrinia trinotata</i> (Metzner, 1845)		M		CZ	Liška et al. (2018)
* <i>Stegania trimaculata</i> (de Villers, 1789)	B			CZ	Zapletal & Knížek (2016)
Erebidae					
*** <i>Dysgonia algira</i> (Linnaeus, 1767)	B				Bouma & Švarc (2017)
Noctuidae					
<i>Eucarta amethystina</i> (Hübner, 1803)		M		CZ	Liška et al. (2014)
*** <i>Heliothis nubigera</i> Herrich-Schäffer, 1851		M			Sitek (2013)
<i>Plusidia cheiranthi</i> (Tauscher, 1809)	(B)			(CZ)	Goater et al. (2003)
<i>Callopietria latreillei</i> (Duponchel, 1827)		M		CZ	this paper
<i>Polyphaenis sericata</i> (Esper, 1787)	B				Krampl et al. (2014)
<i>Senta flammea</i> (Curtis, 1828)	(B)	M		CZ	Sterneck (1929), Liška et al. (2018)