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## FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 441

### Lepidoptera:

### Tineidae

***Cephimallota angusticostella*** (Zeller, 1839). Bohemia centr.: Radotín-Cikánka (6052), 6.vii.2014, 1 ♂ (Fig. 1), Vonoklasy (6051), 21.vii.2015, 1 ♂, both J. Liška leg., det. et coll., 16.vii.2016, 1 spec., J. Liška observ.; Bohemia sept.: Břvany, Písečný vrch Nature Reserve (5548), 16.viii.1991, 2 ♂♂, 13.viii.1992, 1 ♂, Hrušovany near Žatec (5647), 7.viii.1996, 1 ♂, Stroupeč, Stroupeč Natural Monument (5646), 28.vii. 1997, 2 ♂♂, all J. Vávra leg., det. et coll. Rare species, confused for a long time with the externally similar *C. crassiflavella* Bruand, 1850 (Gaedike & Mally 2011). All previous published records of *C. angusticostella* from the Czech Republic in fact refer to *C. crassiflavella*. Only Gaedike & Mally (2011) mentioned two records of *C. angusticostella* from the Czech Republic, but without any further details. In central Europe known from Germany, Austria, Hungary, and Slovakia (Gaedike 2013). The first faunistic details from the Czech Republic.

***Monopis fenestratella*** (Heyden, 1863). Bohemia mer.: Třísov env., Vltava valley, mixed forest (7152), 490 m a.s.l., 3.vi.2015, 1 ♂, J. Jaroš leg., det. et coll. (Fig. 2), Záluží near Zlatá Koruna (7151), 27.vi.2011, 1 ♀, J. Vávra leg., det. et coll. In the Czech Republic hitherto recorded only three-times from Moravia (Sitek 2008, Šumpich 2011, 2017). It was recorded in all neighbouring countries, in Germany (Gaedike & Heinicke 1999), Poland (Šumpich et al. 2011), Austria (Huemer 2013), and Slovakia (Pastorális et al. 2013). Sparsely distributed in western, northern and central Europe from Great Britain to Ukraine (Gaedike 2013). New species for Bohemia.

### Gracillariidae

***Caloptilia jurateae*** Bengtsson, 2010. Bohemia mer., Šumava Mts., Staré Srní (6946), 27.vii.2016, larvae on *Acer platanoides*, 4 ♂♂, 3 ♀♀ emerged viii.2016, A. Laštůvka leg., det. et coll. Mostly north European species, in central Europe recorded from Germany and Poland (Bengtsson 2010, Lepiforum 2017), and also in the Czech Republic (Silesia) (Liška et al. 2014). New species for Bohemia.

***Caloptilia honoratella*** (Rebel, 1914). Bohemia centr., Vonoklasy (6051), 14.vii.2013, 1 ♂, 1.iv.1917, 1 ♂, both J. Liška leg., det. et coll.; Bohemia mer., Třísov env., Vltava valley, mixed forest (7152), 490 m a.s.l., 4.viii.2016, 1 ♀, 29.ix.2016, 1 ♀, both J. Jaroš leg., det. et coll. (Fig. 3). In the Czech Republic recorded only from Moravia (Šumpich et al. 2009). In neighbouring countries occurring in Austria (Huemer 2013), Germany (Segerer et al. 2013) and Slovakia (Pastorális et al. 2013). Known also from Hungary, Macedonia (De Prins & De Prins 2005), Spain, Croatia, Italy (Laštůvka & Laštůvka 2011), and France (Nel & Varenne 2015). New species for Bohemia.

***Phyllonorycter trifoliella*** (Gerasimov, 1933). Bohemia sept., Jílové env., Sněžník (5250), 600 m a.s.l., 1.ix.2016, 2 ♂♂, at light, E. Kula leg., J. Černý det. et coll., A. Laštůvka revid.

Described from South Russia (Caucasus – Krasnaya Polyana and Sochi) (Gerasimov 1933), further records from Finland, Estonia, Latvia, and Lithuania (Aarvik et al. 2017), in central Europe only from Switzerland (Schmid 2013), recorded also from Spain (Laštůvka & Laštůvka 2009). According to Gerasimov (1933), the species is associated with *Trifolium* spp. and *Lathyrus roseus* (a plant not recorded in the Czech Republic). New species for the Czech Republic.

***Phyllocnistis ramulicola*** Langmaid et Corley, 2007. Bohemia centr.: Praha-Modřany (5952), 11.viii.1986, pupae on *Salix euxina*, 2 ♂♂ emerged 16.viii.1986, 15.x.1996, pupae on *Salix euxina*, 1 ♀ emerged 17.x.1996, Praha-Kunratice (5953), 10.x.1995, pupae on *Salix euxina*, 1 ♂ emerged 15.x.1995; Bohemia mer., Žichovice near Sušice (6747), 13.ix.1987, pupae on *Salix euxina*, 1 ♂ emerged 15.ix.1987, all J. Vávra leg., det. et coll. Recently described species, with only limited distribution information available. At present, it is known from the Czech Republic, England, Italy, Portugal, and Switzerland (Liška et al. 2014). In the Czech Republic recorded in southern Moravia (Liška et al. 2014). New species for Bohemia.

***Phyllocnistis asiatica*** Martynova, 1955. Bohemia sept., Prachov (5557), 18.viii.2013, pupae on *Salix alba*, 5 ♂♂, 6 ♀♀ emerged viii.2013, A. Laštůvka leg., det. et coll.; Bohemia centr.: Praha-Butovice (5952), 14.viii.1988, pupae on *Salix euxina*, 1 ♂ emerged 16.viii.1988, Praha-Modřany (5952), 19.ix.2016, numerous larvae and pupae on *Salix purpurea*, 4 ♂♂, 2 ♀♀ emerged 22.ix.2016, Praha-Lahovičky (5952), 20.ix.2016, numerous larvae and pupae on *Salix purpurea*, Nehasice (5647), 26.vii.2016, 1 ♀ at light, all J. Vávra observ., leg., det. et coll.; Moravia centr., Horka nad Moravou (6369), 3.ix.2012, pupae on *Salix alba*, 12 ♂♂, 14 ♀♀ emerged ix.2012, Tovačov (6569), 20.viii.2012, pupae on *Salix alba*, 6 ♂♂, 3 ♀♀ emerged ix.2012, Lobodice (6569), 27.ix.2012, pupae on *Salix euxina*, 4 ♂♂, 2 ♀♀ emerged ix.2012, Troubky (6570), 20.viii.2012, pupae on *Salix alba*, 3 ♂♂, 1 ♀ emerged ix.2012; Moravia mer., Mušov (7065), 10.vii.2012, pupae on *Salix alba*, 2 ♂♂, 1 ♀ emerged ix.2012, Pasohlávky (7065), 18.vii.2012, pupae on *Salix babylonica*, 4 ♂♂, 6 ♀♀ emerged vii.2012, 2.viii.2012, pupae on *Salix euxina*, 3 ♂♂, 8 ♀♀ emerged viii.2012, 1.ix.2012, pupae on *Salix alba*, 2 ♂♂, 4 ♀♀ emerged ix.2012, Dolní Věstonice (7165), 2.viii.2012, pupae on *Salix alba*, 3 ♂♂, 1 ♀ emerged viii.2012, Lanžhot (7267), 1.ix.2012, pupae on *Salix alba*, 8 ♂♂, 6 ♀♀ emerged ix.2012, all A. Laštůvka leg., det. et coll. Described as a subspecies of *Phyllocnistis saligna* (Zeller, 1839) from Kazakhstan (Alma-Ata), Turkmenistan (Kara-Kala) and Uzbekistan (Bukhara) (Martynova 1955). In 2005 synonymized with *Phyllocnistis saligna* by De Prins & De Prins (2005), but it can be distinguished from this very closely related species by the forewing pattern, bionomics and by DNA barcoding. The longitudinal streak of the forewing is less distinct or nearly absent in the summer generation (always distinct both in *P. saligna* and *P. ramulicola*). The larvae usually create underside mines on leaves, or only short mines on twigs (usually very long mines on twigs in *P. saligna* and *P. ramulicola*). New species for the Czech Republic, and for Europe.

***Phyllocnistis extrematrix*** Martynova, 1955. Bohemia sept.: Jílové, Martiněves (5250), 206 m a.s.l., 3.ix.2017 pupae on *Populus nigra*, 1 ex. emerged 5.ix.2017, J. Černý leg., det. et coll., Děčín-Podmokly (5251), 135 m a.s.l., 14.ix.2015, 30 empty mines, Děčín-Krásný Studenec (5250, 5251), 193 m a.s.l., 27.viii.2017, 10 empty mines, Děčín-Boletice nad Labem (5251), 156 m a.s.l., 17.ix.2015, 30 empty mines, all J. Černý observ., Teplice (5348, 5349), 228 m a.s.l. , 30.ix.2016, 20 empty mines, M. Žemlička observ., Ústí nad Labem-Všebořice (5349), 249 m a.s.l., 5.xi.2005, 2 empty mines, V. Vysoký leg., J. Černý det., coll. Municipal

Museum of Ústí nad Labem, Chabařovice (5349), 175 m a.s.l., 30.ix.2016, 20 mines with pupae and empty mines, M. Žemlička observ., Trmice (5349, 5350), 148 m a.s.l., 27.x.2016, 5 empty mines, V. Vysoký leg., J. Černý det., coll. Municipal Museum of Ústí nad Labem, Ústí nad Labem-Krásné Březno (5350), 148 m a.s.l., 17.ix.2016, 20 empty mines, M. Žemlička observ., Ústí nad Labem-Střekov (5350), 150 m a.s.l., 8.vii.2017 pupae on *Populus nigra*, 2 ex. emerged 14.vii.2017, M. Žemlička leg., det. et coll., Most (5447), 233 m a.s.l., 18.x.2016, 30 empty mines, M. Žemlička observ., Prackovice nad Labem (5450), 170 m a.s.l., 17.ix.2015, 5 empty mines, Litochovice nad Labem (5450), 153 m a.s.l., 17.ix.2015, 10 empty mines, all V. Vysoký leg., J. Černý det., Municipal Museum of Ústí nad Labem, Lovosice (5450), 151 m a.s.l., 15.ix.2016, 20 empty mines, Lovosice-Prosmyky (5450), 145 m a.s.l., 15.ix.2016, 20 empty mines, all J. Černý et M. Žemlička observ., Ústí nad Labem, Církvice (5450), 157 m a.s.l., 15.vii.2017, 20 mines with larva and pupae on *Populus nigra*, M. Žemlička leg., det. et coll., Velké Žernoseky (5450), 151 m a.s.l., 12.vii.2017, 30 mines with larvae on *Populus nigra*, J. Černý & M. Žemlička leg., det et coll. (Figs 5–6); Doksy, Staré Splavy (5453), 275 m a.s.l., 5.viii.2017, 50 mines with larvae on *Populus nigra*, J. Černý leg., det. et coll. (additional empty mines observ.), Dobroměřice (5648), 185 m a.s.l., 6.vii.2017, 20 mine with larvae on *Populus nigra*, M. Žemlička leg., det coll.; Bohemia centr., Praha-Lahovičky (5952), 21.ix.2016, numerous pupae and exuviae on *Populus* ×*canadensis*, 1 ♂ emerged 30.ix.2016, Praha-Žižkov (5952), 26.x.2016, numerous exuviae on *Populus* ×*canadensis*, J. Vávra observ., leg., det. et coll. Known from the Czech Republic, Kazakhstan, Romania, Russia, and Slovakia (De Prins & De Prins 2005, Liška et al. 2014). In the Czech Republic recorded from central and southern Moravia (Liška et al. 2014). New species for Bohemia.

**Argyresthiidae**

***Argyresthia kulfani*** Bengtsson et Johansson, 2012. Bohemia mer., Svatý Jan nad Malší, Pod Horou (7153), 27.v.2017, 3 ♀♀ (Fig. 4); Moravia centr.: Vilémovice env., Macošská stráň slope (6666), 2.vi.2017, 1 ♂, all J. Liška let., det. et coll., Bohuslavice (6367), 28.iii.2016, larvae on *Abies alba*, 2 ♂♂ emerged iv.2016, Ptenský Dvorek (6467), 5.iii.2016, larvae on *Abies alba*, 16 ♂♂, 8 ♀♀ emerged iv.2016, all A. Laštůvka leg., det. et coll. Species with poorly known distribution due to previous confusion with *Argyresthia illuminatella* Zeller, 1839. It has been recorded in Germany, Slovakia (Bengtsson & Johansson 2012, cf. also Baraniak et al. 2003), Switzerland (Lepiforum 2017), and Spain (Laštůvka & Laštůvka 2015). Its distribution probably follows the range of *Abies alba*. Published records of *Argyresthia illuminatella* Zeller, 1839 may refer to this species and require revision – for example old records from Czech lands mentioned by Sterneck & Zimmermann (1933). Larva develops and pupates in tips of young shoots of *Abies alba*, mostly on shaded low trees or branches, in contrast to *A. illuminatella* which lives on *Larix decidua*. New species for the Czech Republic.

***Argyresthia arceuthina*** Zeller, 1839. Moravia or., Bílé Karpaty Mts., Nedašov (6874), 21.v.2016, 2 ♂♂, 2 ♀♀, A. Laštůvka leg., det. et coll. Species associated with *Juniperus communis*. In the Czech Republic locally recorded in central Bohemia (Sterneck & Zimmermann 1933), in Moravia only given by Zimmermann (1922) from Lednice 1904. Confirmed occurrence in Moravia after more than 110 years.

**Plutellidae**

***Rhigognostis schmaltzella*** (Zetterstedt, 1839). Bohemia mer.: Modrava (6946), 6.vi.1928, 1 ♂, J. Soffner leg., J. Šumpich det., coll. National Museum Prague, Stachy (6947), 20.vi.1957, 1 ♂, J. Wichra leg., J. Šumpich det., coll. National Museum Prague, Arnoštov near Křišťanov, Dlouhý hřbet Ridge (7149), 8.vi.2009, 2 ♂♂ (barcoded under the number TLMF Lep 19739), J. Šumpich leg., P. Huemer det., coll. National Museum Prague, Včelná pod Boubínem, Boubínský prales National Nature Reserve (6949), 12.v.2011, 1 ♀, J. Liška leg. et coll., J. Šumpich det. (Figs 7–11). Until known only from northern Europe and Germany (Agassiz 2013), also recently recorded in Italy (Huemer et al. 2014). Central-European records were hitherto probably confused with the similar *Rhigognostis incarnatella* (Steudel, 1873) (Fig. 12). External features and genetic differences between the two species are very small (1.08%) (Huemer et al. 2014) but the diagnostic characters are near invariable and the species level status of *R. schmaltzella* is justified. The Bohemian record from Modrava (mentioned above) was previously published as *Rhigognostis annulatella* (Curtis, 1832) by Sterneck & Zimmermann (1933). New species for the Czech Republic.

**Oecophoridae**

***Batia lunaris*** (Haworth, 1828). Bohemia centr., Vonoklasy (6051), 26.vi.2017, 3 ♂♂, J. Liška leg., det. et coll. (Fig. 15). In central Europe recorded from Switzerland, Austria, Germany, and Poland, widely distributed mainly in southern Europe (Lvovsky 2013). New species for the Czech Republic.

***Schiffermuelleria grandis*** (Desvignes, 1842). Bohemia mer., Třísov env., Vltava valley, mixed forest (7152), 480–500 m a.s.l., 19.v.2007, 1 ♀, 25.v.2008, 1 ♂, 16.iii.2012, decayed wood of *Prunus padus* with larvae or pupae, 1 ♀ emerged 11.v.2012, 19.iv.2015, decayed wood of *Prunus padus* with a larvae or pupae, 1 ♂ emerged 29.iv.2015, 1.vi.2015, 1 ♂, all J. Jaroš leg., det. et coll. (Fig. 16). Only an old record known from Bohemia, from Teplice (Zimmermann 1943); in Moravia recorded from Bílé Karpaty Mts. (Sitek 2008). In neighbouring countries occuring in Austria, Germany, and Slovakia (Tokár et al. 2005). Sparsely distributed in western, southern and central Europe, from Great Britain to Romania (Tokár et al. 2005). Confirmed occurrence in Bohemia after more than 70 years.

**Lypusidae**

***Agnoea synchrozella*** (Jäckh, 1959). Bohemia mer., Třísov env., Vltava valley, mixed forest (7152), 480–500 m a.s.l., 9.vi.2007, 1 ♂, 1 ♀, 18.vi.2013, 1 ♂, all J. Jaroš leg., det. et coll. (Fig. 17). In neighbouring countries recorded from Austria, Germany, and Slovakia (Tokár et al. 2005). Predominantly montane species, widespread in the valleys of the Alps and Alpine foothills, known also from the Carpathians and the Učka Mts. in Croatia (Tokár et al. 2005). Laštůvka & Liška (2011) mentioned a recent record without giving details. The first detailed records from the Czech Republic.

**Coleophoridae**

***Coleophora aleramica*** Baldizzone et Stübner, 2007. Bohemia centr.: Praha-Barrandov (5952), 1.vii.2008, 1 ♂ on light, Stráž nad Ohří (5644), 2.vi.2015, 1 ♂ on light, both J. Vávra

leg., det. et coll., Vonoklasy (6051), 16.vii.2014, 1 ♂, 1 ♀, J. Liška leg., det. et coll. (Fig. 18). Described from Italy, Slovakia, Austria, Croatia, Monte Negro, Macedonia, Greece, Jordan, and Turkey (Baldizzone & Stübner 2007). Also recorded in Bulgaria, France (Richter 2017), and Hungary (Buschmann et al. 2014). New species for the Czech Republic.

***Coleophora bornicensis*** Fuchs, 1886. Moravia mer.: Střelice, Bažinka Nature Reserve (6864), 24.ix.2015, cases with larvae in faded and dry inflorescences of *Tanacetum vulgare*, 2 ♂♂, 6 ♀♀ emerged 24.v.–14.vi.2016, J. Marek leg., det. et coll., Rosice (6864), 24.ix.2016, Trávní Dvůr near Hrabětice (7264), 27.ix.2016, cases with larvae on *Tanacetum vulgare*, J. Marek leg. et det. Species described from Rhineland (Rheinland-Pfalz), Germany (Fuchs 1886) and known from that territory for a very long time; only recently a much wider distribution was revealed. It was recorded in the Netherlands (Schreurs et al. 2013), Belgium (De Prins & Steeman 2017), Hungary (Szabóky 2014), Slovakia, and the Crimea (Richter & Šima 2015). New species for the Czech Republic.

***Coleophora variicornis*** Toll, 1952. Bohemia centr., Srbsko (6050), 1.vii.2014, 4 ♀♀, J. Liška lgt., det. et coll. (Fig. 19). Scattered distribution in western, central and southeastern Europe, and Turkey (Baldizzone & Stübner 2007). In central Europe recorded in Germany, Poland (Baldizzone & Stübner 2007), and Slovakia (Tokár et al. 2010). In the Czech Republic only recently reported from Moravia (Šumpich et al. 2010, Laštůvka & Liška 2011). New species for Bohemia.

***Coleophora subula*** (Falkovitsh, 1993). Moravia mer., Dyjákovičky-Ječmeniště (near Znojmo) (7262), 14.viii.2015, 1 ♀, J. Skyva leg. et coll., I. Richter det. (genitalia preparation 25412). Distributed in Central Siberia, Altai, Tajikistan, Turkmenistan, Turkey, Russia (Lower Volga), China (Xinjiang) (Baldizzone et al. 2006), Hungary (Száboky et al. 2007), and Slovakia (Tokár et al. 2010). New species for the Czech Republic.

## Elachistidae

***Depressaria libanotidella*** Schläger, 1849. Bohemia centr., Karlštejn (6051), vi.1945, 2 ♀♀, B. Starý leg., J. Liška det., coll. Moravian Museum in Brno (Fig. 21). Scattered distribution all over Europe, in neighbouring countries only Poland without records (Lvovsky 2013). In the Czech Republic, known until now only from one old and unreliable record from Silesia (cf. Laštůvka & Liška 2011). Confirmed occurrence in the Czech Republic, new species for Bohemia.

***Depressaria bupleurella*** Heinemann, 1870. Bohemia centr.: Prag [Praha], 1863, 1 ♂, F. A. Nickerl leg., J. Liška det., coll. National Museum Prague, Radotín-Cikánka (6052), 19.viii.2012, 1 ♀, J. Liška leg., det. et coll. (Figs 22–23). Very local in Europe, not recorded from the Iberian Peninsula, Scandinavian and Baltic countries, and most of the Balkans (Lvovsky 2013). Recorded from all of central Europe except Slovenia and Hungary (Lvovsky 2013). In the Czech Republic already known from Moravia (Šumpich 2011, Laštůvka & Liška 2011). New species for Bohemia.

## Scythrididae

***Scythris fuscoaenea*** (Haworth, 1828). Moravia mer., Pavlovské vrchy Hills, Tabulová National Nature Reserve (7165), 8.ix.2016, 1 ♂, 3.viii.2017, 1 ♂, 1 ♀, all J. Liška leg., det. et coll., additional 3 spec. J. Liška observ. Species associated with *Helianthemum* spp.

(Cistaceae). Known from most European countries, of neighbouring countries only Poland without records (Bengtsson 2013). In the Czech Republic recorded from Bohemia (Sterneck & Zimmermann 1933, Laštůvka & Liška 2011). New species for Moravia.

**Gelechiidae**

***Ptocheuusa paupella*** (Zeller, 1047). Moravia mer., Sedlec near Mikulov (7266), 23.viii.2017, 3 ♂♂, 1 ♀, in the salt marsh around the host plant *Pulicaria dysenterica* (Asteraceae), J. Liška leg., det. et coll. (Fig. 20), 14.ix.2017, 5 spec., J. Liška observ. Widely distributed mainly in western and southern Europe (Karsholt 2013). In central Europe known from Germany, Austria, and Hungary (Karsholt 2013). New species for the Czech Republic.

**Tortricidae**

***Phalonidia contractana*** (Zeller, 1847). Bohemia centr.: Vonoklasy (6051), 17.viii.2013, 1 ♀, 8.ix.2013, 1 ♀, 16.ix.2014, 1 ♀, 31.viii.2015, 1 ♂, 1 ♀, 22.vi.2016, 1 ♂, 1 ♀, all J. Liška leg., det. et coll., 28.vi.2017, 2 spec., 9.ix.2017, 2 spec., both J. Liška observ. (Fig. 24), Praha-Kbely (5853), 10.ix.2012, 1 ♂, G. Elsner leg., det. et coll. Widely distributed in southern Europe, in central Europe no records so far from Switzerland or Poland (Aarvik 2013). In the Czech Republic known from many localities in Moravia, mainly in the Moravian thermophyticum (for example Elsner et al. 1997, Laštůvka & Marek 2002, Šumpich 2011, 2017). New species for Bohemia.

***Argyroploce concretana*** (Wocke, 1862). Bohemia mer., Šumava Mts., Horská Kvilda (6947), 7.vi.2012, 1 ♂, J. Liška leg., det. et coll., J. Jaroš revid. (Fig. 25). The moth was collected on a small mountain bog, at elevation about 1050 m a.s.l. Tyrphobiontic boreo-montane Holarctic species. In Europe distributed especially in the North (Aarvik 2013), only an isolated occurrence in Austria is known from central Europe (Huemer 2013). The record from Germany is not specified (Razowski 1996) and probably erroneous (cf. Gaedike & Heinicke 1999). Its occurrence is also reported from Romania (Kovács & Kovács 2001) and Italy (Trematerra 2004). New species for the Czech Republic.

***Cydia ilipulana*** (Walsingham, 1903). Bohemia centr., Milovice-Mladá, Pod Benáteckým vrchem Nature Reserve (5755), 15.vi.1992, 3 ♂♂, 5 ♀♀, J. Vávra leg., det. et coll. (Fig. 26), many other adults observed in a growth of *Dorycnium herbaceum* in a broad-leaved dry grassland during the daytime; Moravia mer.: Hustopeče-Klínky (7066), 19.vi.1997, 1 ♀, Pavlovské vrchy Hills, Děvín-Kotel-Soutěska National Nature Reserve (7165), 28.vi.2005, 1 ♀, Dyjákovičky-Ječmeniště (near Znojmo) (7262), 29.vi.2011, 1 ♀, all J. Liška leg., det. et coll. Razowski (2003) reports this species (under the name *C. conjunctana* (Möschler, 1866)) without any information on its host plant, but Walsingham (1903) in the original description is convinced that the host plant is *Dorycnium*. A xerothermophilous species, with a scattered distribution in western, southern and central Europe (Aarvik 2013, Pastorális et al. 2013). In central Europe not recorded from Switzerland or Poland. In the Czech Republic recorded only from Moravia: Kobylí (V. Elsner in Laštůvka 1993) and Mohelno (Šumpich 2017). New species for Bohemia.

## Pyralidae

***Ephestia woodiella*** Richards et Thomson, 1932. Bohemia centr., Radotín-Cikánka (6052), 6.vi.2017, 1 ♀, Vonoklasy (6051), 15.viii.2017, 1 ♂, both J. Liška leg., det. et coll. (Figs 28–29); Moravia mer.-occ.: Lhánice env., Kozének Natural Monument (6863), 12.vi.2015, 1 ♂, Mohelno env., Mohelenská hadcová step National Nature Reserve (6863), 27.v.1998, 2 ♂♂, 30.v.1999, 1 ♂, 5.vi.2002, 2 ♂♂, 24.vi.2004, 1 ♂, 30.vi.2004, 1 ♂, Lhánice env., Velká skála Nature Reserve (6963), 12.vi.2015, 2 ♂♂, 16.vii.2015, 2 ♂♂, all J. Šumpich leg. et det., coll. National Museum in Prague, all published as *Ephestia unicolorella* Staudinger, 1881 by Šumpich (2017); Moravia mer.: Podyjí National Park, Hardeggská vyhlídka (7161), 26.vi.2002, 1 ♂ (published as *E. unicolorella* by Šumpich et al. (2006)), Podyjí National Park, Podmolí-Šobes (7161), 22.viii.2017, 1 ♂, 1 ♀, all J. Liška leg., det. et coll., Podyjí National Park, Hnanice env., Fládnitzské vřesoviště heath (7161), 11.v.2009, 1 ♂, J. Šumpich leg. et det., coll. National Museum in Prague, Kozí stezky (7161), 8.vi.2008, 1 ♂, J. Liška leg., det. et coll., Liščí skála (7161), 18.v.2009, 1 ♂, J. Šumpich leg., det. et coll., Šobes 17.v.2002, 1 ♂, J. Šumpich leg. et det., coll. National Museum in Prague, all published as *E. unicolorella* by Šumpich (2011), Lanžhot-Soutok, Dúbravka hunting lodge (7367), 6.ix.2008, 1 ♂, Kobylí-Zázmoníky (7067), 16.vii.2009, 2 ♂♂, 14.vii.2010, 1 ♂, Pavlovské vrchy Hills, Tabulová National Nature Reserve (7165), 8.ix.2016, 2 ♂♂, all J. Liška leg., det. et coll. All European material previously identified as *E. unicolorella* actually belongs to *E. woodiella*; the true *E. unicolorella* occurs in Turkey and Syria (Leraut 2014). From the Czech Republic, Roesler (1973) published the occurrence of *E. parasitella* ssp. *unicolorella* both in Bohemia and Moravia (without any details), these records also refer to *E. woodiella* (cf. Laštůvka & Liška 2011). New species for the Czech Republic.

## Crambidae

***Spoladea recurvalis*** (Fabricius, 1775). Moravia mer., Mutěnice-Zbrod (7168), 25.x.2016, 1 ♂, J. Holomek leg. et coll., det. A. Gottwald (Fig. 30). A migratory species described from eastern India and distributed on all continents, mostly in the tropics. In Europe it occurs as a rare migrant especially in southern and western countries (Speidel et al. 2013), in central Europe the only individual record in Lower Austria (Lichtenberger & Längauer 2014), Hungary (Szabóky & Buschmann 2010) and several observations in various parts of Germany (Lepiforum 2017). First record of this species in the Czech Republic.

***Pyrausta obfuscata*** (Scopoli, 1763). Moravia mer.-or., Bílé Karpaty Mts., Zahrady pod Hájem National Nature Reserve (7171), 22.vi.2016 , 1 ♀, J. Uřičář leg., det. et coll. (Fig. 27). It occurs mainly in southern and western Europe (Speidel et al. 2013), in central Europe known from all adjacent countries with the exception of Poland (Slamka 2013). In the Czech Republic only one record, from Oblík hill (nothern Bohemia) from 1979, published by Povolný & Králíček (1984). New species for Moravia.

## Geometridae

***Eilicrinia trinotata*** (Metzner, 1845). Moravia mer., Dyjákovičky-Ječmeniště (near Znojmo) (7262), 27.v.2016, 1 ♂, in light trap, J. Uřičář leg., det. et coll. (Fig. 31). Known from central

and southeastern Europe, Turkey, and Caucasus (Skou & Sihvonen 2005). In central Europe recorded from Switzerland, Slovakia, Hungary (Hausmann et al. 2013), and Austria (Habeler 2014). New species for the Czech Republic.

## Notodontidae

***Thaumetopoea processionea*** (Linnaeus, 1758). Bohemia occ.: Klatovy-Luby, Na Výhořici (6645), 31.vii.2017, 1 ♂, L. Bešta leg., det. et coll., Rokycany (6247), 4.viii.2017, 6 ♂♂, G. Elsner leg., det. et coll.; Bohemia centr., Kostelec nad Labem (5753), 4.viii.2017, 1 ♂, T. Jirgl leg., det. et coll., Požáry near Křivoklát (5949), 4.–6.viii.2017, 2 ♂♂, P. Heřman leg., det. et coll.; Bohemia mer., Třísov env., Vltava valley, mixed forest (7152), 480 m a.s.l, 4.viii.2016, 1 ♂, J. Jaroš leg., det. et coll. (Fig. 32). Widely distributed species, known from most European countries including all neighbouring states (Schintlmeister 2013). In the Czech Republic widely distributed in southern Moravia, but only very old records avalaible from Bohemia (Nickerl 1850). Confirmed occurrence in Bohemia after more than 160 years.

## Noctuidae

***Senta flammea*** (Curtis, 1828). Moravia mer., Nové Mlýny-Křivé jezero env., 29.iv.2012, 1 ♂, portable light trap, L. Bešta et M. Bešta leg., det. et coll. (Fig. 33). Widely distributed in Europe except the Iberian Peninsula and most of the Balkan states (Fibiger & Skule 2013). Recorded in all neighbouring countries, but within the Czech Republic repeatedly reported only from the surroundings of Karlovy Vary (western Bohemia) in the second half of the 19th century. However, Sterneck (1929) considered all those records to be unreliable. The first reliable record from the Czech Republic.

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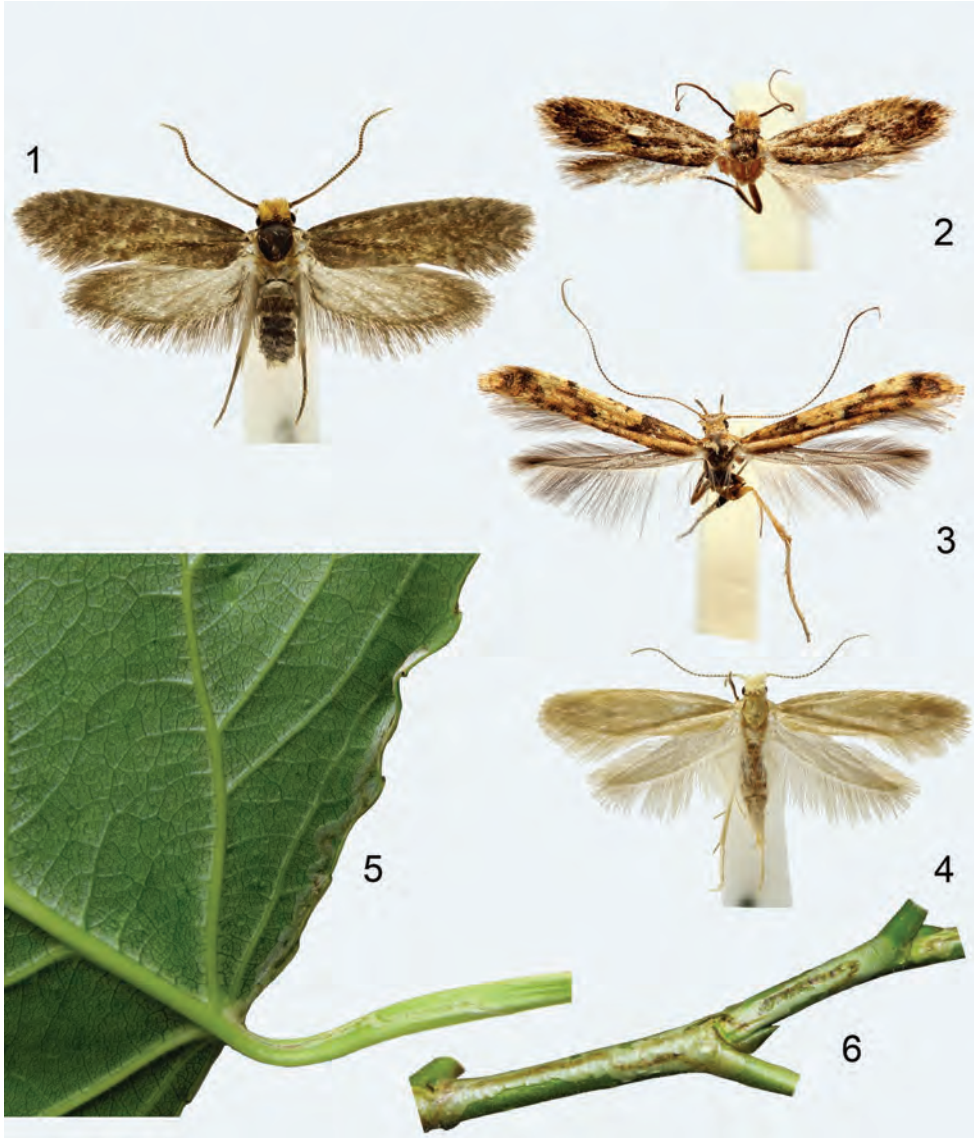
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Figs 1–6. Voucher specimens of recorded species. 1. *Cephimallota angusticostella* (Zeller, 1839). Radotín-Cikánka, ♂. 2. *Monopis fenestratella* (Heyden, 1863). Třísov, ♂. 3. *Caloptilia honoratella* (Rebel, 1914). Třísov, ♀. 4. *Argyresthia kulfani* Bengtsson et Johansson, 2012. Svatý Jan nad Malší, ♀. 5–6. Mine with larvae of *Phyllocnistis extrematrix* Martynova, 1955 on leaf of *Populus nigra*. 5. Velké Žernoseky. 6. Moravia centr., Čelechovice na Hané (Photo: J. Šumpich (1, 4), J. Jaroš (2–3), J. Černý (5), A. Laštůvka (6)).

Obr. 1–6. Sbírkové doklady zaznamenaných druhů. 1. *Cephimallota angusticostella* (Zeller, 1839). Radotín-Cikánka, ♂. 2. *Monopis fenestratella* (Heyden, 1863). Třísov, ♂. 3. *Caloptilia honoratella* (Rebel, 1914). Třísov, ♀. 4. *Argyresthia kulfani* Bengtsson et Johansson, 2012. Svatý Jan nad Malší, ♀. 5–6. Mina s housenkou *Phyllocnistis extrematrix* Martynova, 1955 na listu *Populus nigra*, 5. Velké Žernoseky. 6. Moravia centr., Čelechovice na Hané (Foto: J. Šumpich (1, 4), J. Jaroš (2–3), J. Černý (5), A. Laštůvka (6)).



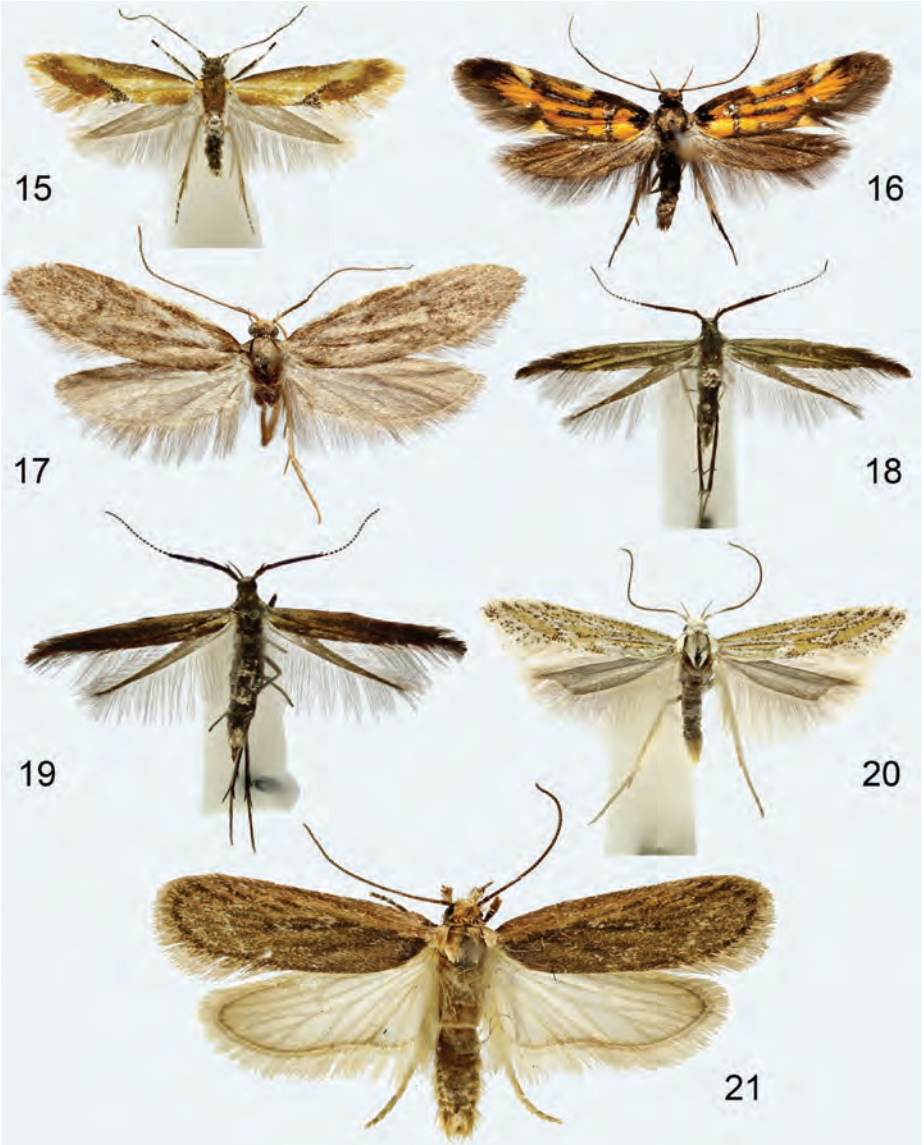

Figs 7–12. Voucher specimens of recorded species. 7–11. *Rhigognostis schmaltzella* (Zetterstedt, 1839). 7. Modrava, ♂. 8. Stachy, ♂. 9. Včelná pod Boubínem, ♀. 10–11. Arnoštov, ♂. 12. *Rhigognostis incarnatella* (Steudel, 1873). Bohemia centr., Voznice, 11.vii.2015, ♂, J. Liška leg. et coll. (Photo: J. Šumpich).
Obr. 7–12. Sbírkové doklady zaznamenaných druhů. 7–11. *Rhigognostis schmaltzella* (Zetterstedt, 1839). 7. Modrava, ♂. 8. Stachy, ♂. 9. Včelná pod Boubínem, ♀. 10–11. Arnoštov, ♂. 12. *Rhigognostis incarnatella* (Steudel, 1873). Bohemia centr., Voznice, 11.vii.2015, ♂, J. Liška leg. et coll. (Foto: J. Šumpich).





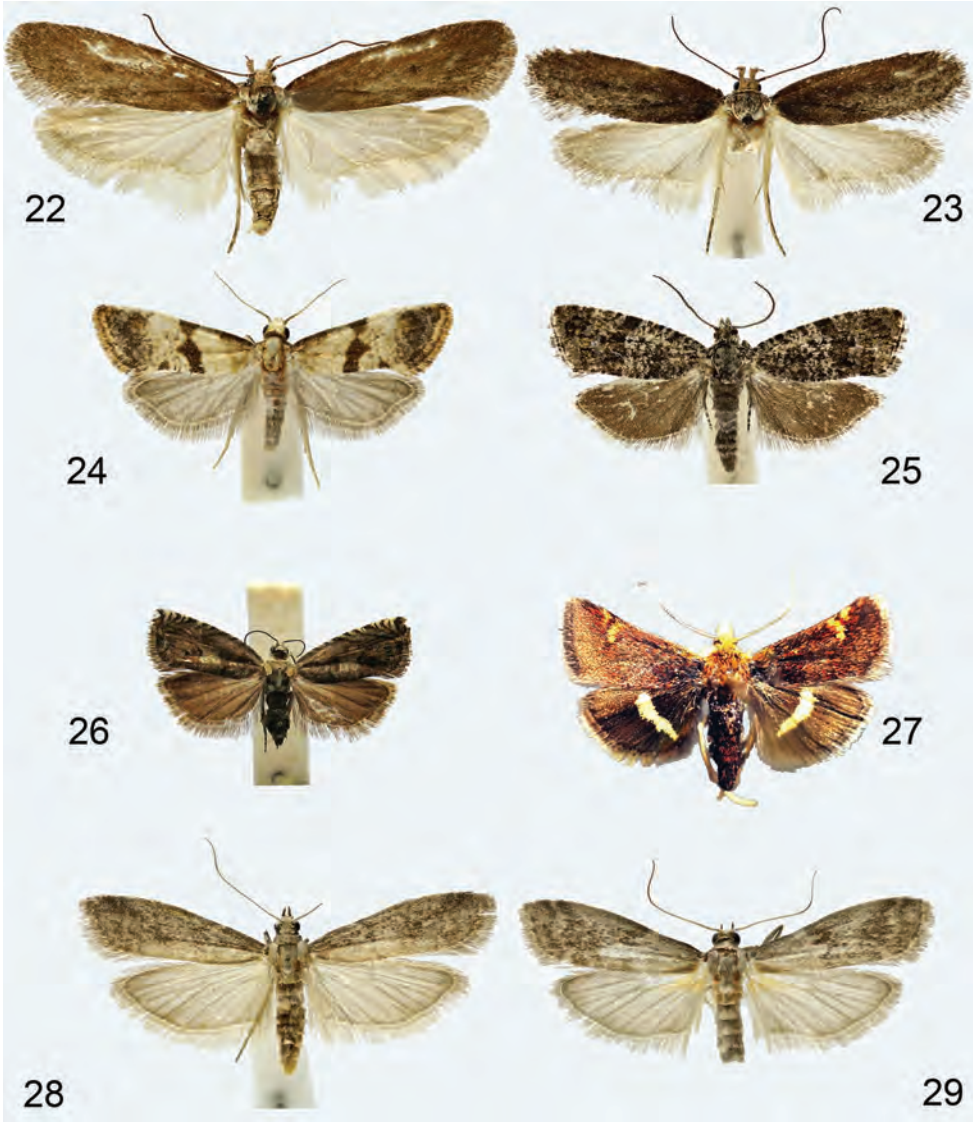


Figs 13–14. *Rhigognostis schmaltzella* (Zetterstedt, 1839). 13. Male genitalia, a – detail of apical part of phallus (tip broken). 14. Habitat in southern Bohemia, Arnoštov. (Photo: J. Šumpich).
Obr. 13–14. *Rhigognostis schmaltzella* (Zetterstedt, 1839). 13. Samčí genitálie, a – detail vrcholové části penisu (konec je ulomen). 14. Stanoviště v jižních Čechách, Arnoštov. (Foto: J. Šumpich).




Figs 15–21. Voucher specimens of recorded species. 15. *Batia lunaris* (Haworth, 1828). Vonoklasy, ♂. 16. *Schiffermuelleria grandis* (Desvignes, 1842). Třísov, ♀. 17. *Agnoea synchrozella* (Jäckh, 1959). Třísov ♂. 18. *Coleophora aleramica* Baldizzone et Stübner, 2007. Vonoklasy, ♀. 19. *Coleophora variicornis* Toll, 1952. Srbsko, ♀. 20. *Ptocheuusa paupella* (Zeller, 1047). Sedlec, ♂. 21. *Depressaria libanotidella* Schläger, 1849. Karlštejn, ♀. (Photo: J. Šumpich (15, 18–21), J. Jaroš (16–17)).

Obr. 15–21. Sbírkové doklady zaznamenaných druhů. 15. *Batia lunaris* (Haworth, 1828). Vonoklasy, ♂. 16. *Schiffermuelleria grandis* (Desvignes, 1842). Třísov, ♀. 17. *Agnoea synchrozella* (Jäckh, 1959). Třísov ♂. 18. *Coleophora aleramica* Baldizzone et Stübner, 2007. Vonoklasy, ♀. 19. *Coleophora variicornis* Toll, 1952. Srbsko, ♀. 20. *Ptocheuusa paupella* (Zeller, 1047). Sedlec, ♂. 21. *Depressaria libanotidella* Schläger, 1849. Karlštejn, ♀. (Foto: J. Šumpich (15, 18–21), J. Jaroš (16–17)).




Figs 22–29. Voucher specimens of recorded species. 22–23. *Depressaria bupleurella* Heinemann, 1870. 22. Praha, ♂. 23. Radotín-Cikánka, ♀. 24. *Phalonidia contractana* (Zeller, 1847). Vonoklasy, ♂. 25. *Argyroploce concretana* (Wocke, 1862). Horská Kvilda, ♂. 26. *Cydia ilipulana* (Walsingham, 1903). Milovice, ♀. 27. *Pyrausta obfuscata* (Scopoli, 1763). Zahrady pod Hájem, ♀. 28–29. *Ephestia woodiella* Richards et& Thomson, 1932. 28. Radotín-Cikánka, ♀. 29. Vonoklasy, ♂. (Photo: J. Šumpich (22–25, 28–29), J. Liška (26), J. Uřičář (27)).

Obr. 22–29. Sbírkové doklady zaznamenaných druhů. 22–23. *Depressaria bupleurella* Heinemann, 1870. 22. Praha, ♂. 23. Radotín-Cikánka, ♀. 24. *Phalonidia contractana* (Zeller, 1847). Vonoklasy, ♂. 25. *Argyroploce concretana* (Wocke, 1862). Horská Kvilda, ♂. 26. *Cydia ilipulana* (Walsingham, 1903). Milovice, ♀. 27. *Pyrausta obfuscata* (Scopoli, 1763). Zahrady pod Hájem, ♀. 28–29. *Ephestia woodiella* Richards et Thomson, 1932. 28. Radotín-Cikánka, ♀. 29. Vonoklasy, ♂. (Foto: J. Šumpich (22–25, 28–29), J. Liška (26), J. Uřičář (27)).




Figs 30–33. Voucher specimens of recorded species. 30. *Spoladea recurvalis* (Fabricius, 1775). Mutěnice – Zbrod, ♂. 31. *Eilicrinia trinotata* (Metzner, 1845). Ječmeniště, ♂. 32. *Thaumetopoea processionea* (Linnaeus,1758). Třísov, ♂. 33. *Senta flammea* (Curtis, 1828). (Photo: J. Uřičář (30–31), J. Jaroš (32), L. Bešta (33)).
Obr. 30–33. Sbírkové doklady zaznamenaných druhů. 30. *Spoladea recurvalis* (Fabricius, 1775). Mutěnice – Zbrod, ♂. 31. *Eilicrinia trinotata* (Metzner, 1845). Ječmeniště, ♂. 32. *Thaumetopoea processionea* (Linnaeus,1758). Třísov, ♂. 33. *Senta flammea* (Curtis, 1828). (Foto: J. Uřičář (30–31), J. Jaroš (32), L. Bešta (33)).