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FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 239

Lepidoptera:

Adelidae

Adela associatella Zeller, 1839. Bohemia or., Přibyslav near Náchod, Peklo Nature Reserve (5663), mixed, predominantly beech forest with *Abies alba*, 7.vii.2006, 1 ♂, L. Maršík leg. et coll., J. Šumpich det. Distributed mainly in Central Europe, occurring also in France and the Balkans (Wojtusiak 1996). In the Czech Republic distributed more widely in Moravia (Skala 1912-1913, Elsner et al. 1998, Laštůvka & Marek 2002); only old records available from Bohemia (Sterneck & Zimmermann 1933). Occurrence in Bohemia confirmed after ca. 80 years.

Yponomeutidae

Niphonympha dealbatella Zeller, 1847. Bohemia or.: Hradec Králové – Svinary, Dehetník Hill (5761), south-facing xerothermic slope and forest margin, 240 m a.s.l., 7.ix.2006, 1 ♂, at light, M. Mikát leg. et coll., J. Liška det.; Přibyslav near Náchod, Peklo Nature Reserve (5663), 7.vii.2006, 2 ♂♂, L. Maršík leg. et coll., M. Mikát det.; Moravia occ., Kladeruby nad Oslavou, Údolí Oslavy a Chvojnice Nature Reserve, Vlčí kopec locality (6863), 13.vii.2006, 1 spec., 17.ix.2006, 1 spec., J. Šumpich leg., I. Dvořák det. et coll. Thermophilic species associated chiefly with thermophilous oak forests. It occurs in Central Europe and also in France, Sicily and Corsica (Agassiz & Friese 1996). In the Czech Republic recorded in the Pálava hills and the Podyjí National Park in southern Moravia for the first time in 1990 (Laštůvka et al. 1994). Later on found north of these localities in the Moravian Karst in2002 (Laštůvka & Marek 2002) and in Kladeruby nad Oslavou in south-eastern part of the Bohemian-Moravian highlands in 2006. The Bohemian records are probably due to range expansion / dispersal following the last few warm years. Additional data from Moravia; new species for Bohemia.

Autostichidae

Apatema cf. ***mediopallidum*** Walsingham, 1900. Moravia mer., National Park Podyjí, Podmolí, Šobes locality (7161), 400 m a.s.l., 11.viii.2005, 1 ♀, J. Šumpich leg. et coll., J. Liška det. Thirteen species of the genus *Apatema* Walsingham, 1900, are known from Europe (including Cyprus and the Canary Islands). However only four species have been recorded from Central Europe: *A. apolausticum* Gozmány, 1996 (Italy, Slovenia, Romania), *A. mediopallidum* (Austria, Hungary, Romania, Slovakia), *A. impunctella* Amsel, 1940 (Italy), and *A. whalleyi* Popescu-Gorj et Capuse, 1965 (Austria, Czech Republic, Slovakia, Hungary, Romania) (Vives 2005, Sutter 2005). Prior to this record only *A. whalleyi* has been recorded from the Czech Republic (Laštůvka & Liška 2007); it is locally distributed in the warmest areas of southern Moravia (Elsner et al. 1998). One female recently collected in southern Moravia belongs to the *Apatema mediopallidum*-group but exhibits some small differences

from specimens of *A. mediopallidum* from Corsica, the type locality. This record corresponds probably with populations found in Hungary and Slovakia (Tokár et al. 2002). The signa on the female genitalia of several closely related species are often indistinguishable (cf. Sutter 2005) and a male specimen from southern Moravia is necessary to confirm the exact identification. However, this complex species group needs a revision and discoveries of new undescribed species or resurrections of some synonyms is possible (namely *Apatema proteroclina* Meyrick, 1939, type locality southern France) (Sutter 2005). Vives (2005) mentions three synonyms of *A. mediopallidum*: *A. proteroclina*, *A. phanerodoxa* Meyrick, 1926, and *A. melitensis* Amsel, 1951 (latter two with type localities in Spain). The Moravian habitat of *Apatema* cf. *mediopallidum* comprises steep rocky slopes with xerothermic vegetation. The locality belongs to the area of Pannonian thermophytic vegetation, which extends into the Czech Republic only at that locality. New species for the Czech Republic.

Cosmopterigidae

Pyroderces klimeschi Rebel, 1938. Moravia mer., Dolní Morava Biosphere Reserve, Lanžhot – Soutok (7367), 160 m a.s.l., 28.vi.2006, 1 spec., J. Šumpich leg., det. et coll. Local species with mainly Central-European distribution, recorded also in Mallorca (Koster & Sinev 2003). In neighbouring countries occurring only in Burgenland in Austria (Huemer & Tarmann 1993) and Slovakia (Reiprich 1989). Only one older record from Poland is available from Puszcza Bialowieska Forest (Bialowieza National Park) from 1963 (Buszko 2001). Its biology is unknown (cf. Koster & Sinev 2003) but the species is apparently associated with wet habitats. The Moravian specimen was captured in alluvial forest, the Polish specimen at a wet meadow along the river Narewka (J. Buszko, pers. comm.), and the recent Slovak records come from wet biotopes in the basins of rivers Váh and Dunaj (Z. Tokár, pers. comm.). New species for the Czech Republic.

Depressariidae

Agonopterix angelicella (Hübner, 1813). Bohemia mer., Šumava National Park: Knížecí Pláně near Borová Lada (7048), montane *Nardus* grassland, 1000 m a.s.l., 10.viii.2004, 2 spec., 27.viii.2004, 1 spec.; Trojmezná – the first zone of the park (7248), climax montane spruce forest with *Athyrium*, 1260 m a.s.l., 24.vii.2006, 2 spec.; Smrčina – the first zone of the park (7249), climax montane spruce forest with *Athyrium*, 1240 m a.s.l., 25.vii.2006, 1 spec.; all J. Šumpich leg., det. et coll. Probably more widely distributed in the mountain areas of the Czech Republic, above all in the Bohemian Forest Mts., but only older findings from the Krkonoše Mts. and Havraní hory hills in Bohemia (Sterneck & Zimmermann 1933) and from Pálava hills in Moravia (Skala 1923-1924) have been published. Occurrence in the Krkonoše Mts. and Orlické hory Mts. was mentioned by Rotter (2005) and Soffner (1960) without further details. Occurrence in the Czech Republic confirmed; precise data given after more than 80 years.

Elachistidae

Elachista trapeziella Stainton, 1849. Bohemia mer., Šumava National Park, Trojmezná – the first zone of the park (7248), 1260 m a.s.l., 25.vii.2006, 1 ♂ (genitalia examined), J. Šumpich

leg. et coll., J. Liška det. Known in all countries of northern Europe, in northern parts of Central Europe and also in Belgium, France, Italy, Latvia and the United Kingdom (Kaila 2005). In the Czech Republic only older findings from Bohemia by Sterneck & Zimmermann (1933) and from Moravia by Starý (1932). The specimen was captured in climax montane spruce forest with *Athyrium*; the character of this habitat corresponds with habitat requirements published by Bland (1996). Occurrence in the Czech Republic confirmed.

Gelechiidae

Monochroa divisella (Douglas, 1850). Moravia mer., Dolní Morava Biosphere Reserve, Lanžhot – Soutok (7367), 160 m a.s.l., 28.vi.2006, 1 ♂ (genitalia examined), J. Šumpich leg., det. et coll. Very local and sporadic species in its whole area of distribution (Elsner et al. 1999), known above all from Central Europe, recorded also in Belgium, the Netherlands, England, Denmark, Latvia and Ukraine (Karsholt 2005). The Moravian record comes from an alluvial forest; according to published data, the species is closely associated with wetland ecosystems, above all sedge marshes (cf. Elsner et al. 1999). This conclusion is confirmed also by the single Polish record from marshy areas in the Puszcza Borecka Forest east of Lublin (J. Buszko, pers. comm.) and by a Slovak record from wet habitats in the Záhorie lowland (G. Elsner, pers. comm.). New species for the Czech Republic.

Coleotechnites piceaella (Kearfott, 1903). Moravia mer., National Park Podyjí, Čížov – Hardeggská vyhlídka locality (7161), steppe with thermophilic vegetation, 23.vi.2006, 1 spec., 6.vii.2006, 3 spec., J. Šumpich leg., det. et coll. North American species, introduced to western Europe in 1950s and 1960s (Allen 1961). In neighbouring countries known from Austria, Germany and Slovakia (Karsholt 2005). The repeated Moravian records can be regarded as a result of its spreading in Europe. New species for the Czech Republic.

Tortricidae

Epinotia pusillana (Peyerimhoff, 1863). Moravia occ., Švařec, Švařec National Nature Reserve (6464), juniper submontane grasslands, 28.vii.2006, 1 ♂ (genitalia examined), J. Šumpich leg., det. et coll. The species was described from France, but the centre of its distribution is situated above all in Central Europe (cf. Aarvik 2005). In the Czech Republic recorded in Bohemia (Patočka 1958), only older data were mentioned from Moravia by Skala (1912-1913). Occurrence in Moravia confirmed after approximately 100 years.

Pyralidae

Cadra furcatella (Herrich-Schäffer, 1849). Bohemia or., Lovčice env., Kněžičky National Nature Reserve (area of former Bludy Nature Reserve) (5858), south-facing xerothermic slope above the Žehuňský rybník pond, 220 m a.s.l., 20.ix.2003, 1 ♂ (genitalia examined), at light, M. Mikát leg., det. et coll., J. Liška revid. Widely distributed species in Europe, absent only in Scandinavia (Nuss et al. 2005), in the Czech Republic only recent records from Moravia (Laštůvka et al. 1993, Elsner et al. 1997, Laštůvka & Marek 2002). New species for Bohemia.

Crambidae

Udea hamalis (Thunberg, 1788). Bohemia or., Světlá nad Sázavou (6358), 400 m a.s.l., 27.vi.1974, 1 spec., T. Dufek leg., det. et coll.; Bohemia mer., Libořezy (6955), roadside with whortleberry growth, 480 m a.s.l., 21.vi.1975, 1 spec., J. Marek leg., det. et coll.; Moravia mer., Přímětice near Znojmo (7162), 320 m a.s.l., 4.vii.1996, 1 spec., light trap, V. Elsner leg., det. et coll. Predominantly mountain species with Euro-Siberian distribution. In Europe occurring above all in Central and Northern Europe, recorded also in France, Ukraine and Moldova (Nuss et al. 2005). In the Czech Republic known from border mountain areas in the past, namely from the Bohemian Forest Mts., Giant Mountains, Jizerské hory Mts. and Jeseníky Mts., only exceptionally from lowlands (Sterneck & Zimmermann 1933, Skala 1912-1913). These records are the first from the wider area of Bohemian-Moravian Highlands and they confirm the occurrence in the Czech Republic.

Nascia cilialis (Hübner, 1796). Bohemia or., Bohemia centr., Hradčany env., area south of Báň Nature Monument (5857), xerothermic meadow near area with wet and halophilous vegetation, 230 m a.s.l., 13.vii.2006, 1 ♂, at light, M. Mikát leg., det. et coll. Widely distributed in Europe and recorded in all neighbouring countries (Nuss et al. 2005). In the Czech Republic hitherto known only from southern Moravia (Laštůvka 1994, Elsner et al. 1997). The Bohemian habitat corresponds with known requirements as the species inhabits wet meadows and wetlands (cf. Slamka 1995). New species for Bohemia.

Duponchelia fovealis Zeller, 1847. Bohemia or., Hradec Králové (5761), town centre – inside a building, 230 m a.s.l., 7.viii.2006, 1 ♀, M. Mikát leg., det. et coll., J. Liška revid. Migratory Mediterranean species with synanthropic occurrence in Central Europe (Nuss et al. 2005, Šefrová & Laštůvka 2005). In the Czech Republic recorded only in northern Moravia in 1997 and 1998 as a pest of aquatic plants cultivated in a greenhouse (Marek & Bártová 1998, Liška et al. 2000). The first occurrence in Bohemia.

Geometridae

Idaea degeneraria (Hübner, 1799). Bohemia or., Broumovsko Protected Landscape Area, Jetřichov – locality of Mokřadní louky u Jetřichova (5363), wet meadows neighbouring dry habitats along the railway, 450 m a.s.l., 25.vii.2006, 1 ♂, at light, L. Maršík leg., det. et coll., J. Šumpich revid. Occurrence in Bohemia was based on an older museum specimen (Šumpich et al. 2005), and is confirmed here.

Noctuidae

Aedia leucomelas (Linnaeus, 1758). Bohemia or., Bohemia centr., Hradčany env., Báň Nature Monument (5857), southern xerothermic marly slope, 250 m a.s.l., 12.viii.2003, 1 ♀, at light, M. Mikát leg., det. et coll. Thermophilic species, in Europe occurring mainly in the Mediterranean territory (Goater et al. 2003), in neighbouring countries recorded only in Austria: Carinthia (Huemer & Tarmann 1993) and one older record from Upper Austria (Malicky et al. 2000). In the Czech Republic known from one specimen captured in southern Moravia in 2003 (Sitek & Janovský 2006). The first record in Bohemia. However, this single record cannot be regarded as a sufficient proof of its autochthonous occurrence in the territory.

Trichoplusia ni (Hübner, 1803). Bohemia occ., Strojetice (6356), 390 m a.s.l., 13.v.1958, 1 spec., Z. Mráček leg. et det., coll. Okresní muzeum v České Lípě (= District Museum in Česká Lípa), J. Šumpich revid. Cosmopolitan species known from all neighbouring countries (Goater et al. 2003), but only very old findings are available from the Czech Republic. In Bohemia, only one doubtful record from the Brdy hills in 1918 was known (Sterneck 1929). Novák & Liška (1997) followed this opinion and regarded it as doubtful and undocumented. The species has been excluded from the Czech lepidopteran fauna (cf. Laštůvka & Liška 2005). Approximately 100-years-old records were also published from Moravia (Skala 1912-1913, Wawerka 1911). Historical occurrence in Bohemia is confirmed, and the present record is the last from the Czech Republic.

Basistriga flammatra (Dennis et Schiffermüller, 1775). Bohemia mer., National Park Šumava, Trojmezná – the first zone of the park (7248), climax montane spruce forests with *Athyrium*, 1200 m a.s.l., 25.vii.2006, 1 spec., J. Šumpich leg., det. et coll. Sporadically occurring in Central Europe, above all in mountain areas (Fibiger 1990, Fajčík 1998). The southern limit of its European distribution is running across the Czech Republic (cf. Fibiger 1990). It was recorded only several times in the Czech Republic (Skala 1913-1913, 1942, Sterneck 1929), in Bohemia for the last time in Plzeň in 1919 (Fajčík 1998) and in Moravia in Tavíkovice in 1924 (Skala 1936). Occurrence in the Czech Republic is confirmed.

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