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FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 310

Hymenoptera: Apocrita:

Chrysidoidea: Chrysididae

Spinolia unicolor Dahlbom, 1831. Moravia mer., Podyjí National Park (NP), Havraníky env., Havranické vřesoviště moorland (7161–7162), 20.v.2009, small rocks on the pathway, 3 ♂♂; Tasovice env., Nad Splavem Nature Monument (NM) (7162), 21.v.2009, small rocks by cottages, 1 ♀, in both localities observed in association with the solitary wasp *Pterocheilus phaleratus* (Panzer, 1797), all P. Bogusch lgt., det. et coll. Distribution: northern and central Europe, Poland, western Russia, the Netherlands, France, Hungary (Balthasar 1946), Europe and Mongolia (Linsenmaier 1997). Very rare species, historically known only from two finds in the Czech Republic (one each for Bohemia and Moravia), with the last records from the 1940's (Balthasar 1954). The records here published are the only recent records from the Czech Republic (Moravia only) and confirm the occurrence of this species after about 70 years. The digger wasps *Larra anathema* (Rossi, 1790) and *Tachysphex nitidus* (Spinola, 1805) have been published as hosts (Balthasar 1946, Linsenmaier 1997). However, these data are probably only based on observations of the species together the same locality. Furthermore, *L. anathema* has for a long time been considered to be extinct in the Czech Republic (Straka 2005a). Here, we observed an association between *S. unicolor* and *P. phaleratus*, where the solitary wasp females were building nests, chrysidid males or females were around them, and one female entered the nest of *Pterocheilus*. Sörensson (2003) published a species account of *S. unicolor* from Sweden, and discussed a possible association with *P. phaleratus*. Also, Kubes's very old record (Bohemia centr., Kolín-Záblatí (5957), 3.vii.1903, 1 ♀, A. Kubes lgt. et det., coll. National Museum, Prague, Czech Republic (NMPC)) shows a similar situation – no previously reported hosts were collected, but two females of *P. phaleratus* were collected by the same collector at the same locality on the same day. Thus, *P. phaleratus* can be considered as a possible host of *S. unicolor*.

Vespoidea: Tiphiidae

Icronatha olcesei (Tournier, 1889). Moravia mer. or., Bzenec env., military training area (7069), 17.v.2009, 1 ♂, yellow pan trap, 13.vi.2009, 1 ♀, window trap, both P. Marhoul lgt., P. Bogusch det. et coll. Historically, this species was known only from Slovakia, no records from the Czech Republic have been published. Distribution: south Europe – Spain, Greece, Italy, Albania, Bulgaria, Turkey, Asian Near East, North Africa (Nagy 1975). Rare species, parasitoid of scarabaeid beetles. New species for the Czech Republic.

Vespoidea: Pompilidae

Arachnospila conjungens (Kohl, 1898). Bohemia centr., Křivoklátsko Protected Landscape Area (PLA), Branov env., Vysoký Tok Nature Reserve (NR) (5949), 2.vii.2009, 1 ♂,

15.vii.2009, 1 ♂, 2 ♀♀, 27.vii.2009, 1 ♀, yellow pan traps, all A. Hoffmannová lgt., J. Straka det. et coll. Distribution: France, Greece, Romania (Wolf 1972), Slovakia (Straka 2007), and recently also Switzerland (Wallis, Leuk env., viii.2006, Y. Chittaro lgt., J. Straka det. et coll.). This species is probably recently spreading across appropriate biotopes in Europe. New species for the Czech Republic.

Dipogon austriacus Wolf, 1964. Moravia mer., Břeclav-Lednice, river Dyje alluvial plain (7266–7267), 18.–30.vi.2006, 1 ♂, flight trap, 30.vi.–14.vii.2006, 1 ♂, flight trap, both Š. Vodka lgt., P. Bogusch det. et coll., J. Straka revid. Distribution: Spain, France, Austria, Switzerland, Germany, Belarus (Schmid-Egger & Wolf 1992), the first and only find in the Czech Republic published from Kokořínsko PLA by Straka et al. (2004). New species for Moravia.

Dipogon monticolus Wahis, 1972. Bohemia centr., Český kras PLA, Tetín env., Koda National Nature Reserve (NNR) (6050), lowland oak forest, 22.viii.2009, 1 ♀, yellow pan trap, J. Straka lgt., det. et coll. Distribution: Austria, Germany, Switzerland, Italy, France, Portugal (Wolf 1972, Schmid-Egger & Wolf 1992) and Slovakia (Straka 2007). New species for the Czech Republic.

Evagetes elongatus (Lepeletier, 1845). Moravia mer., Brno-Líšeň, Hády hill, Kavky NM (6766), 8.vi.2007, 1 ♂, yellow pan trap, I. Malenovský lgt., J. Straka det., coll. Moravian Museum Brno, Czech Republic (MMBC). Distribution: south Europe and north Africa, in central Europe only on southern slopes of Wallis (Switzerland) and the Pannonian lowland, north to south Slovakia and south Moravia (Smissen 2003, Straka 2007). Straka (2005b) listed this species under the synonym *E. magrettii* (Kohl, 1886) as regionally extinct in the Czech Republic. Confirmed recent occurrence in the Czech Republic.

Evagetes siculus (Lepeletier, 1845). Bohemia centr., Český kras PLA, Tetín env., Koda NNR (6050), steppe, 22.viii.2009, 2 ♀♀, yellow pan traps, J. Straka lgt., det. et coll. Distribution: North Africa and south Europe, north to the Netherlands, central Germany and Poland (Smissen 2003). In the Czech Republic, only four Moravian localities are known (Wolf 1971). These records are old and for this reason Straka (2005b) listed the species as extinct in the Czech Republic. New species for Bohemia and confirmation of recent occurrence in the Czech Republic.

Priocnemis enslini Haupt, 1927. Bohemia centr., Český kras PLA, Tetín env., Koda NNR (6050), lowland oak forest, 4.vi.2009, 1 ♀, yellow pan trap, J. Straka lgt., det. et coll.; Bohemia mer., Chotýčany env. (6953), 19.vi.1980, 1 ♀, Z. Karas lgt. et coll., J. Straka det.; Blanský les PLA, Krasetín env., Kleť Mt. (7175), 4.vi.1988, 1 ♀, Z. Karas lgt. et coll., J. Straka det. Distribution: Austria, Belgium, Germany, Slovakia and Czech Republic (Wolf 1971). In the Czech Republic known only from old records from south Moravia (Wolf 1971, Straka 2007). New species for Bohemia and confirmed recent occurrence in the Czech Republic.

Priocnemis mesobrometi Wolf, 1958. Moravia centr., Moravský kras PLA, Macošská stráň hillside (6666), sunny hillside, 3.–10.vii.2008, 1 ♀, yellow pan trap; 5.viii.2008, 1 ♀, swept, both J. Niedobová lgt., J. Straka et P. Bogusch det. et coll. Distribution: the Netherlands, France, Germany, Austria, Czech Republic and Slovakia (Schmid-Egger & Wolf 1992); Wolf (1971) also lists it from in Hungary, Spain and Switzerland. The same author gives data from

the Czech Republic, both from Bohemia and Moravia. However, these records are old and Straka (2005b) listed the species as extinct in the Czech Republic. The most recent specimen in the National Museum, Prague, Czech Republic (NMPC) dates back to 1951. Here, we present recent reliable records from Moravia, which have also been published in a faunistic study (Bogusch et al. 2010).

Telostegus inermis (Brullé, 1832). Moravia mer. or., Bzenec env., military training area (7069), 13.vii.2009, 2 ♀♀, yellow pan trap, P. Marhoul lgt., J. Straka det., coll. P. Bogusch et J. Straka. Distribution: southern Europe to central Europe, north distribution border goes through Hungary and Slovakia, not recorded in Germany and Austria (Wolf 1971). Species of sand dunes, very rare, only one old record from Slovakia (Wolf 1971). Recently recorded near the border at Záhorie PLA (Slovakia mer. occ., Lakšárská Nová Ves (7468–7469), sand dunes, 6.viii.2008, 1 ♂, 2 ♀♀, J. Straka lgt., det. et coll.). New species for the Czech Republic.

Vespoidea: Scoliidae

Megascolia maculata maculata (Drury, 1773). Moravia mer., Břeclav env. (7267), along the route to Pohansko NM, sawdust, 14.vi.2009, 1 spec., O. Vahala observed; ditto, 27.vi.2009, 3 ♂♂, Z. Navrátil lgt. et det., M. Říha revid., coll. Z. Navrátil, M. Říha et Moravian Museum, Brno, Czech Republic (MMBC). Distribution: south parts of the Palaearctic region, the south-European subspecies reaches central Europe, Turkey to central Asia (Macek et al. 2010). This very conspicuous species is the largest aculeate hymenopteran in Europe, but no confirmed data on its occurrence in the Czech Republic were known (except numerous oral reports). Thus, the records presented here are the first confirmed finds for the Czech Republic (Moravia).

Scolia sexmaculata (O. F. Müller, 1766). Bohemia bor. occ., Žatecká planina plateau, Stroupeč (5646), 15.vi.2010, 3 ♂♂, P. Krásenský lgt. et coll., P. Tyrner det.; Bohemia or., Hradec Králové – Březhrad (5761), 4.–5.vii.2009, 6 ♂♂, sandy site prepared for new building spaces, M. Mikát lgt., M. Mikát et P. Bogusch det. et coll.; Hradec Králové, Na Plachtě NM (5861), 10.viii.2009, 1 ♀, on the ground of sandy moorland, P. Bílek observed and photographed, P. Bogusch det. Distribution: south and central Europe, Turkey, Middle East, in the Czech Republic previously at sandy sites in the warmest regions, recently very rare, only present in south Moravia (Macek et al. 2010). Last records from Bohemia date back to 1940's (Baťa et al. 1938). Confirmed occurrence in Bohemia after about 60 years.

Apoidea: Sphecidae

Sceliphron destillatorium (Illiger, 1807). Bohemia bor. or., Náchod, Kašparák (5562–5563), sunny slope, 28.vii.2010, 1 ♂, R. Macek observed and photographed, P. Bogusch det. Distribution: southeastern parts of Europe, northern parts of Africa, and also from southwestern and central Asia. The northern border of its distribution area goes through central Europe – Poland, Czech Republic and Germany (Blösch 2000; Lukáš et al. 2006). The species is rare in south Moravia, the northernmost locality in the Czech Republic is at Svitavy (Lukáš et al. 2006). New species for Bohemia.

Apoidea: Crabronidae

Ammoplanus kaszabi Tsuneki, 1972. Bohemia occ., Radnice env. (6147), spoil heap of mine, 5.–7.vi.2009, 1 ♂, 3 ♀♀, yellow pan trap, J. Farkač, J. Straka et V. Vrabec lgt., J. Straka det. et coll. Distribution: This species was known from central Asia (Siberia, Kazakhstan, Mongolia) and southwestern Europe (France and Spain) (Bouček 2001). Vepřek & Straka (2007) published first records from Moravia. Here we present the first record from Bohemia.

Ammoplanus pragensis Šnoflák, 1945. Moravia mer., Podyjí NP, Šobes NR (7161), on flowers of *Asperula cynanchica*, 20.v.2009, 3 ♂♂, 3 ♀♀; Pálava PLA, Děvín NNR (7165), on flowers of *Asperula cynanchica*, 3.vi.2009, 1 ♂, 2 ♀♀, all P. Bogusch lgt., det. et coll. Distribution: Germany, Austria, Czech Republic, Montenegro (Bouček 2001), Slovakia (Vepřek & Straka 2007). This species was previously regarded as endemic to Prague, but recent distribution shows it to be distributed in south and central Europe. However, only records from Bohemia are known from the Czech Republic. Both males and females are well recordable on flowers of *Asperula cynanchica* on steppes, vineyards, and other xerothermic open habitats. New species for Moravia.

Didineis crassicornis Handlirsch, 1888. Moravia mer. or., Čejč (7067), sandy slope, 14.viii.2009, 2 ♂♂, 1 ♀; Bzenec-Přívoz, sandpit (7069), 3.ix.2009, 1 ♂, all D. Vepřek lgt., det. et coll., P. Bogusch revid. Distribution: south European species, reaching Switzerland, Austria, Slovakia, and Hungary (Noyes 2004). This species is historically known from Slovakia (Zavadil et al. 1937). Recently recorded near the border at Záhorie PLA (Slovakia mer. occ., Abrod NNR (7468), 5.viii.2008, 1 ♂, P. Bogusch lgt., det. et coll. New species for the Czech Republic.

Ectemnius nigritarsus (Herrich-Schäffer, 1841). Moravia mer., Pouzdřany env. (7065), 15.vi.1981, 1 ♀, Z. Karas lgt. et coll., J. Straka det.; Břeclav-Lednice, river Dyje alluvial plain (7266–7267), 12.–23.viii.2006, 1 ♂, flight trap, Š. Vodka lgt., P. Bogusch det. et coll., J. Straka revid.; Lednice env. (7266–7267), 14.vi.1981, 1 ♂, Z. Karas lgt. et coll., J. Straka det. Distribution: Euro-Siberian species, known from many European countries, but very rare throughout the distribution area (Blösch 2000). From the Czech Republic recorded only historically from Litovel (Zavadil et al. 1937) and Pavlovské vrchy (specimen in NMPC), no recent records are known. Occurs in warmer regions at forest margins, especially in alluvial plains (Blösch 2000). New species for Moravia.

Gorytes planifrons (Wesmael, 1852). Bohemia centr., Praha-Nusle (5952), 15.iii.2008, 1 ♂, 20.iii.2008, 1 ♀, both specimens caught on indoor window, both P. Číla lgt., J. Macek det., J. Straka revid., coll. NMPC. Distribution: from Spain and north Italy in south to Belgium, Germany, Poland and Finland in the north, rare in all countries (Bitsch et al. 1997). In Germany is known in Baden-Württemberg, Rheinland-Pfalz, Bayern, Hessen and Sachsen (Blösch 2000). New species for the Czech Republic.

Gorytes quinquefasciatus (Panzer, 1798). Moravia mer., Mikulov env. (7165), 28.viii.2008, 1 ♀, swept, V. Hula lgt., P. Bogusch det. et coll. Distribution: south and central Europe, Asia Minor to Iran (Zavadil et al. 1937, Blösch 2000). Historically known from the Czech

Republic, where it was collected in warm regions (Zavadil et al. 1937). The authors stated that the species is rare in the whole area. However, no newer records were observed, so Straka (2005c) considered the species to be extinct in the Czech Republic. Here, we present recent record from south Moravia.

Mimumesa littoralis (Bondroit, 1934). Bohemia centr.: Bukovina nad Labem env. (5860), ash sedimentary basin, 2.–4.vii.2009, 15 ♀♀, yellow pan trap; Chvaletice env. (5958), ash sedimentary basin, 2.–4.vii.2009, 5 ♀♀, yellow pan trap, all I. Černá et R. Tropek lgt., J. Straka det., coll. I. Černá, R. Tropek et J. Straka; Moravia mer., Bzenec-Přívoz, sand quarry (7069), 30.vii.2008, 1 ♀, yellow pan trap, J. Farkač, J. Straka et V. Vrabec lgt., J. Straka det. et coll. Distribution: Euro-Siberian species, known from England to Japan (Blösch 2000). Pádr (1989) reported this species from Moravia, but without specific data. This species nests in dune and fluvial sand biotopes. In central Europe it is very rare (Blösch 2000). In the Czech Republic it is critically endangered (Straka 2005c). New species for Bohemia and confirmed recent occurrence in Moravia.

Nysson hrubanti Balthasar, 1972. Bohemia centr., Chvaletice env. (5958), ash sedimentary basin, 2.–4.vii.2009, 1 ♀, yellow pan trap, I. Černá et R. Tropek lgt., J. Straka det. et coll. Distribution: Germany, Czech Republic (Moravia) and Slovakia. Very rare species, described from the former Czechoslovakia (Moravia and Slovakia) (Balthasar 1972). The only recent findings of this highly endangered species come from Germany (Blösch 2000). In the Czech Republic only old findings are known and thus the species is classified as extinct (Straka 2005c). New species for Bohemia, and confirmed recent occurrence in the Czech Republic.

Pison atrum Spinola, 1808. Bohemia centr., Písty, Písečný přesyp u Píst NM (5856), sanddune, 30.vi.2010, 1 ♂, P. Bogusch lgt., det. et coll.; Bohemia occ., Chotíkov env. (6245), active sand quarry, yellow pan trap, 5.–7.vi.2009, 1 ♀, J. Farkač, J. Straka et V. Vrabec lgt., J. Straka det. et coll. Distribution: very widespread in the whole Mediterranean region and central Asia (Bitsch et al. 2001). Recently spreading northwards, recorded in Germany (Baden-Württemberg) (Herrmann 2005) and in the Czech Republic in south Moravia in 2006 and 2007 (Vepřek & Straka 2007). New species for Bohemia.

Psen exaratus (Eversmann, 1849). Bohemia mer., Zliv env. (6952), 7.viii.2008, 1 ♀, Z. Karas lgt., det. et coll., J. Straka revid. Distribution: south and central Europe, east to Japan; in Europe known from north Spain, north Italy, south and central France, Switzerland, south Germany and Austria (Bitsch et al. 2001). New species for the Czech Republic.

Apoidea: Megachilidae

Osmia tergestensis Ducke, 1897. Moravia mer.: Bílovice nad Svitavou env., Hádecká planinka NNR (6766), 8.vi.2007, 1 ♀; Brno-Líšeň, Kavky NM (6766), 8.vi.2007, 1 ♂, P. Bogusch lgt., det. et coll.; Zbýšov env. (6864), spoil heap of former Jindřich mine, 31.v.2009, 1 ♂, yellow pan trap, J. Farkač, J. Straka et V. Vrabec lgt., J. Straka det. et coll.; Pouzdřany, Pouzdřanská step NNR (7065), 17.vi.2007, 1 ♂; Pálava PLA, Děvín-Soutěska NNR (7165), 22.vi.2005, 1 ♀, both P. Bogusch lgt., det. et coll. Distribution: south and central Europe, Egypt (Banaszak & Romasenko 1998). Rare species of warm localities, in the Czech Republic historically

known from Moravia, but without recent records. Straka (2005c) considered this species to be extinct in the Czech Republic. Confirmed occurrence in the Czech Republic.

Apoidea: Apidae

Bombus muscorum (Linnaeus, 1758). Bohemia occ., Františkovy Lázně env., Soos NR (5840), peat-bog, 24.viii.2004, 4 ♂♂, Z. Andrš lgt., det. et coll., L. Dvořák revid., 6.ix.2008, 14 ♂♂, Z. Andrš lgt., det. et coll., L. Dvořák revid. et coll.; Moravia mer. or., Bzenec-Přívoz, military training area (7069), 8.ix.2009, 1 ♂, yellow pan trap, P. Marhoul lgt., P. Bogusch det. et coll. Straka (2005c) ranked this species as critically endangered for the territory of the Czech Republic, although no recent data were known at the time of publication, the last known records were summarised by Zeman (1997). Confirmed occurrence in the Czech Republic (both Bohemia and Moravia) after about 40 years.

Nomada kohli Schmiedeknecht, 1882. Bohemia bor., Patokryje env., sunny steppe above the village (5448), 23.vii.2009, 1 ♀, yellow pan trap, P. Marhoul lgt., P. Bogusch det. et coll. Distribution: south-west Europe, east to Slovenia, Hungary and Slovakia, northwest Russia (Scheuchl 2000). Rare species, nest kleptoparasite of small *Lasioglossum* species (Scheuchl 2000). Only older records from the Czech Republic (Bohemia and Moravia) are known, so the species was regarded as extinct in the Czech Republic (Straka 2005c). The record presented here confirms its recent occurrence in the Czech Republic (Bohemia).

Nomada montana Mocsáry, 1894. Bohemia bor. occ., Přebuz env. (5641), peatbog, 23.–25. vii.2009, 1 ♀, yellow pan trap, J. Farkač, J. Straka et V. Vrabec lgt., J. Straka det. et coll.; collected with two host females of *Andrena tarsata* Nylander, 1848. Distribution: north and central Europe (Scheuchl 2000). Straka (2005c) listed this species as extinct in the Czech Republic. Confirmed recent occurrence in the Czech Republic.

Xylocopa iris (Christ, 1791). Moravia mer., Pouzdřany env., Pouzdřanská step steppe NNR (7065), on flowers of *Stachys recta*, 2.vi.2009, 1 ♀, P. Bogusch lgt., det. et coll. Distribution: south and central Europe, reaching southern parts of Germany, Switzerland, Czech Republic (south Moravia), Slovakia, and Russia (Noyes 2004). Only one very old find is known (coll. NMPC), recently confirmed in the same locality.

Apoidea: Andrenidae

Andrena combaella Warncke, 1966. Moravia mer., Bzenec-Přívoz, military training area (7069), 17.v.2009, 1 ♀, yellow pan trap, P. Marhoul lgt., P. Bogusch det. et coll., J. Straka revid. Distribution: south and southeast Europe and Turkey (Schmid-Egger & Scheuchl 1997). Rare species of sandy sites. New species for the Czech Republic and first record from central Europe.

Andrena mocsaryi Schmiedeknecht, 1884. Moravia mer.: Podyjí NP, Havraníky env., Havranické vřesoviště moorland (7261), 1.v.2004, 2 ♀♀, 7.v.2007, 1 ♀, swept, both P. Bogusch lgt., det. et coll., J. Straka revid.; Poštorná env., Boří Les (7267), 30.iii.2008, 1 ♀, yellow pan trap, J. Batelka et J. Straka lgt., J. Straka det. et coll. Distribution: Greece, Albania, Hungary,

Austria, Slovakia, Czech Republic (Kocourek 1966). Species of xerothermes, nesting in both sand and loess. Only historical records have been reported from south Moravia (Kocourek 1966). Confirmed occurrence in the Czech Republic.

Andrena pontica Warncke, 1972. Bohemia bor. occ., České středohoří PLA, Leština env., Babinské louky NR (5351), 3.vii.2009, 1 ♂, swept, P. Bogusch lgt., det. et coll. Distribution: central Europe – Czech Republic, Poland, Hungary, Austria, Romania, and Slovenia (Noyes 2004). One old record from Moravia was published by Kocourek (1989), but the specimen is probably lost. The first reliable record of this species from Moravia (and also from the Czech Republic) was published by Bogusch et al. (2009). New species for Bohemia.

Andrena scita Eversmann, 1852. Moravia mer., Tasovice, sand quarry (7162), 21.v.2009, 1 ♂, P. Bogusch lgt., det. et coll. Distribution: south Europe, north to Hungary, Austria, Czech Republic, central Asia. Species bound to warm xerothermes, usually in steppe biotopes. In the Czech Republic formerly in the warmest localities in south Moravia – Znojmo, Pouzdřany, Čejč (Kocourek 1966), but recently thought to be extinct (Straka 2005c). Confirmed recent occurrence in the Czech Republic.

Andrena seminuda Friese, 1896. Moravia mer., Podyjí NP, Havraníky env., Louka pod Šobesem (7162), 4.v.2009, 1 ♀, J. Straka lgt., det. et coll. Distribution: southeast Europe, north to Austria and Slovakia (Schmid-Egger & Scheuchl 1997, Straka et al. 2007). New species for the Czech Republic.

Apoidea: Halictidae

Lasioglossum corvinum (Morawitz, 1876). Bohemia bor. occ., Žatec env., Žatec NM (5647), 17.vii.2007, 1 ♀, P. Tyrner lgt., P. Bogusch det. et coll., J. Straka revid. Distribution: North Africa, south Europe from France to Ukraine, absent in Austria, Switzerland, Hungary, and recently extinct in Germany (Ebmer 1971, Pesenko et al. 2000). Probably a relict species, very rare in south and central Europe (Pesenko et al. 2000). New species for the Czech Republic.

Systropha planidens Giraud, 1861. Moravia mer., Znojmo env., Načeratický kopec hill (7162), 11.vi.–14.vii.2009, 1 ♂, 1 ♀, 14.vii.–10.viii.2009, 1 ♂, yellow pan traps, all P. Marhoul lgt., P. Bogusch det. et coll. Distribution: south Europe, central to west Europe (Amiet et al. 1999). Species of dry steppes, loess walls and sandy sites, collecting pollen of *Convolvulus*. Formerly rare but widespread in xerothermic localities both in Bohemia and Moravia (Macek et al. 2010). However, no data are present from the year 1960. Here, we present first reliable data of its recent occurrence in the Czech Republic (Moravia).

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