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FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 529

Hymenoptera: Aculeata: Apoidea: Apidae, Colletidae, Halictidae

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Apidae

Ceratina chalybea Chevrier, 1872. Bohemia mer., Nová Ves nad Lužnicí env. (7155), 48°48′50.6″N 14°56′57.2″E, 4.ix.2021, 1 ♂, M. Šlachta lgt., det. et coll.

Mediterranean species nesting in dry stems of plants. It is distributed from northern Africa and Portugal in the west as to western Siberia and Turkmenistan. In Central Europe, it occurs in the warmest regions of Austria, Germany, Hungary, Poland, and Slovakia (Scheuchl & Willner 2016). In Czech Republic it is quite widespread in South Moravia (Dvořák et al. 2008). New species for Bohemia.

Pasites maculatus Jurine, 1807. Moravia mer.: Špidláky Nature Monument (7067), 48°55′17.2″N 16°57′24.9″E, 1.vii.2020, 1 ♀, J. Miesbauer lgt. et coll, M. Šlachta det.; Ječmeniště Nature Monument (7262), 48°44′45.6″N 16°08′51.7″E, 3.vii.2021, 1 ♂, M. Šlachta lgt., det. et coll.; Liščí vrch Nature Reserve env. (7266), 48°47′22.5″N 16°41′35.0″E, 7.vii.2021, 1 ♂, 1 ♀, M. Šlachta lgt., det. et coll.; Němčičky env. (6965), 49°02′53.2″N 16°31′17.1″E, 2.viii.2021, 1 ♀, former sand pit, D. Benda lgt., det. et coll. (Figs 3–4); Pouzdřanská step – Kolby Nature Monument (7065), 48°56′47.8″N 16°38′19.2″E, 1.–7.viii.2021, 1 ♂, 2 ♀, M. Halada & Z. Haladová lgt., M. Šlachta det. et coll.

Cleptoparasitic species in nests of *Nomiapis diversipes* (Latreille, 1806) and *N. femoralis* (Pallas, 1773) (both Apidae). *Pasites maculatus* is distributed from northern Africa and Portugal in the west as to eastern Russia (Amur), Central Asia, and Pakistan in the east. In Europe, it is distributed to Austria, the Loire region in France, Germany, Poland, Czech Republic, and Slovakia in the north (Straka et al. 2007, Scheuchl & Willner 2016). The species was considered

regionally extinct in the Czech Republic (Straka & Bogusch 2017). It was probably extinct when its former host, *N. femoralis*, disappeared from southern Moravia (Straka & Bogusch 2017). The second host species, *N. diversipes*, has recently spread to southern Moravia from Austria – it was newly reported from Ječmeniště and from Skalky (2 km far from Liščí vrch) by Šlachta et al. (2021). Now it has been individually collected in many localities in southern Moravia (incl. Špidláky in 2020, Liščí Vrch in 2021, and Pouzdřany in 2021), preferring loess walls or sandy habitats. This parasitic species has evidently spread with its host recently in southern Moravia. Confirmed occurrence in the Czech Republic.

Triepeolus tristis (Smith, 1854). Moravia mer., Pouzdřanská step – Kolby Nature Monument (7065), 48°56′47.8″N 16°38′19.2″E, 1.viii.2021, 1 ♀, Z. Haladová lgt., M. Šlachta det. et coll.

Cleptoparasitic species in nests of *Tetraloniella salicariae* (Lepeletier, 1841), regionally extinct in Moravia, *T. dentata* (Germar, 1839), occurring in South Moravia, and *Tetralonia malvae* (Rossi, 1790) (all Apidae), collected at the same locality by M. Halada in 2021 (M. Šlachta det. et coll.) (Scheuchl & Willner 2016, Straka & Bogusch 2017). In Europe it occurs from the Mediterranean in the south to Austria, Poland, and Slovakia in the north (Straka et al. 2007, Scheuchl & Willner 2016). New species for the Czech Republic.

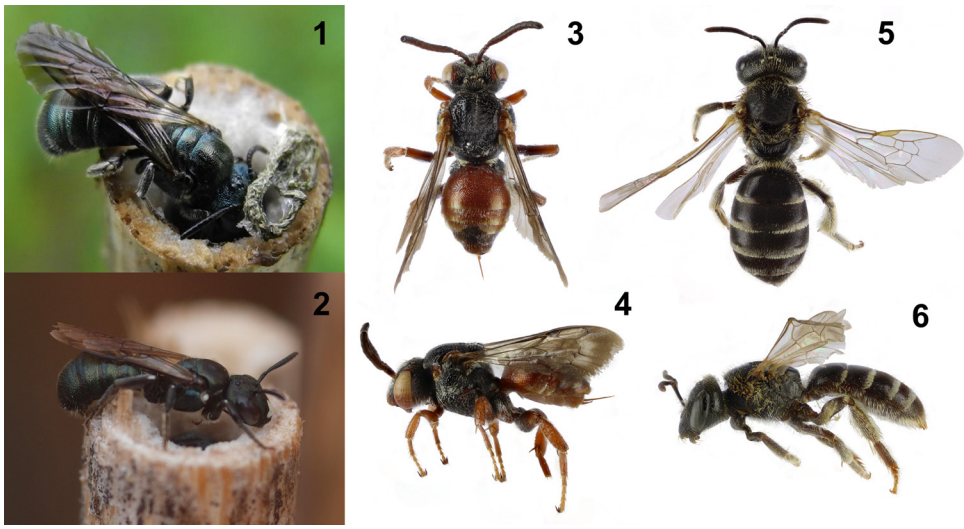
Colletidae

Colletes hederae Schmidt et Westrich, 1993. Bohemia mer.: České Budějovice, U Rozvodny street (7052), 48°59′20.5″N 14°26′11.9″E, 9.x.2021, 2 ♂♂, on blossoming ivy (*Hedera helix*), M. Šlachta lgt., det. et coll.; Branišov (7052), 48°58′44.1″N 14°24′1.0″E, 18.x.2021, 1 ♀, J. Erhart lgt., Z. Karas det. et coll.

Colletes hederae is oligolectic on ivy (*Hedera helix*). It was distributed predominantly in southwestern Europe and it has been spreading to the north and east. Currently, the species occurs in Austria, Belgium, Croatia, Britain (incl. Channel Islands), France, Germany, Greece, Hungary, Italy, Montenegro, Netherlands, Serbia, Slovenia, Spain, Switzerland, and Ukraine (Bogusch et al. 2021). It was recorded from Slovakia in 2017 and recently from the Czech Republic (southern Moravia and southern Bohemia) in 2020 (Bogusch et al. 2021). We add new records from southern Bohemia. Unlike the previous sites located near the state border to Austria, the recent records come from an area about 35 km northwest of the border. Recent sites are 2.8 km from each other. Like previous observations in southern Bohemia, the frequency of occurrence of this species at ivy flowers was very low, approximately one specimen per 30 minutes of observation. It could easily have been overlooked by former short-term surveys. As no intensive surveys were undertaken in southern Bohemia in the past, it is not possible to specify when the species arrived in the region. Additional records for Bohemia.

Halictidae

Halictus asperulus Pérez, 1895. Moravia mer.: Ječmeniště Nature Monument (7262), 48°44′45.6″N 16°08′51.7″E, 4.vii.2020, 1 ♀; 3.vii.2021, 2 ♀♀, M. Šlachta lgt., det. et coll.; Svatý kopeček Nature Reserve env. (7165), 48°48′32.4″N 16°39′14.6″E, 6.vii.2021, 1 ♀, M. Šlachta lgt., det. et coll.; Liščí vrch Nature Reserve env. (7266), 48°47′22.5″N 16°41′35.0″E, 7.vii.2021, 2 ♀♀, M. Šlachta lgt. et coll., J. Straka det.



Figs 1–6. 1, 2 – *Ceratina chalybea* Chevrier, 1872 (1 – female entering nest in a dry stick of *Solidago* sp.; 2 – male waiting on nest for a potential mate; both specimens from Havraníky (Moravia mer.); 3, 4 – *Pasites maculatus* Jurine, 1807, female from Němčičky (Moravia mer.) in dorsal and lateral view; 5, 6 – *Halictus asperulus* Pérez, 1895, female from Pákozd (Hungaria centr.) in dorsal and lateral view.
Obr. 1–6. 1, 2 – *Ceratina chalybea* Chevrier, 1872 (1 – samice vstupující do hnízda vytvořeném v suchém stonku zlatobýlu; 2 – samec čekající hnízdě, aby se spářil se samicí; oba jedinci z lokality Havraníky (jižní Morava); 3, 4 – *Pasites maculatus* Jurine, 1807, samice z lokality Němčičky (jižní Morava) v dorzálním a laterálním pohledu; 5, 6 – *Halictus asperulus* Pérez, 1895, samice z lokality Pákozd (střední Maďarsko) v dorzálním a laterálním pohledu.

Probably polylectic eusocial species, which inhabits southern parts of western Palearctic from Portugal in the west to Iran in the east and to Austria, Hungary, Russia, Slovakia, and Ukraine in the north (Scheuchl & Willner 2016). It prefers dry and warm sites from lowlands to highlands (Scheuchl & Willner 2016). New species for the Czech Republic.

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