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Notes on the biology and occurrence of *Acrocormus semifasciatus* (Hymenoptera: Pteromalidae) in the Czech Republic

Poznámky k biologii a rozšíření druhu *Acrocormus semifasciatus* (Hymenoptera: Pteromalidae) v České republice

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Abstract. *Acrocormus semifasciatus* Thomson, 1878, is recorded in the Czech Republic for the first time, based on specimens from Moravia. The bark beetle *Scolytus carpini* Chapuis, 1869 (Coleoptera: Scolytidae) is reported as its new host, and hence the species is associated with hornbeam (*Carpinus betulus*) for the first time.

The parasitoid *Acrocormus semifasciatus* Thomson, 1878, was discovered among the parasitioids of bark beetles of the genus *Scolytus* Geoffroy, 1762 (Coleoptera: Scolytidae) in the Litovelské Pomoraví Protected Landscape Area. The finding is interesting both from a faunistic and ecological perspective.

Acrocormus semifasciatus Thomson, 1878. Moravia bor., Litovel env., Víska (6268c), Hejtmanka Nature Reserve, iv.2005, 1 ♀, 1 ♂, O. Nakládal lgt. et coll., V. Kalina det. Both specimens were reared under laboratory conditions from larvae of *Scolytus carpini* Chapuis, 1869 (Coleoptera: Scolytidae). The species is known from Great Britain (e.g. Graham 1969), Moldova (e.g. Bouček 1961), Netherlands (Gijswijt 2003), Poland (Herting 1973), Slovakia (Kalina 1989), Spain (Garrido Torres & Nieves-Aldrey 1999), Sweden (e.g. Graham 1969), Switzerland (Baur 2005), and Yugoslavia (Marković & Stojanović 1996; 2003). It has been known in the Czech only from Bohemia (Kalina 1989) and is new for Moravia.

Acrocormus semifasciatus is a primary parasitoid of some beetles (Coleoptera) from the families Curculionidae and Scolytidae. Its hosts include weevils (Curculionidae) *Magdalis armigera* (Fourcroy, 1785) and *M. cerasi* (Linnaeus, 1758) (Bouček 1957a, 1957b, 1961; Dzhanokmen 1978; Graham 1969; Herting 1973). Bouček (1957a) further mentioned as *Magdalis* sp. as a host. However, most known hosts belong to the bark beetles (Scolytidae). They include *Hylesinus oleiperda* (Fabricius 1792) (e.g. Bouček 1957a, 1957b, 1961, Graham 1969, Herting 1973), *Hylesinus* sp. (Bouček 1957a), *Pteleobius vittatus* (Fabricius, 1787) (Graham 1969, Dzhanokmen 1978), *Scolytus ensifer* Eichhoff, 1881 and *S. pygmaeus* (Fabricius, 1787) (Herting 1973), and *S. intricatus* (Ratzeburg, 1837) (Dzhanokmen 1978, Graham 1969, Marković & Stojanović 1996). *Scolytus carpini* is therefore a new host of this parasitoid. So far, *A. semifasiatus* has been associated only with *Fraxinus* sp. and *Ulmus* sp. – hosts plants of its known host beetles (Bouček 1957b, Graham 1969). *Carpinus betulus* is therefore a newly recorded plant host.

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SOUHRN

Během výzkumu parazitoidů kůrovců rodu *Scolytus* v Litovelském Pomoraví byl nalezen druh *Acrocormus semifasciatus* Thomson, 1878. Byl vychován z větví habru (*Carpinus betulus*) napadených kůrovcem *Scolytus carpini* Chapuis, 1869. Kůrovce *S. carpini* poprvé uvádím jako hostitele tohoto parazitoida a poprvé jej uvádím v souvislosti s habrem (*Carpinus betulus*) jakožto živnou dřevinou svého hostitele. Jedná se o evropský druh rozšířený ve Velké Británii (více autorů, např. Graham 1969), Moldávii (více autorů, např. Bouček 1961), Polsku (Herting 1973), Slovensku (Kalina 1989), Španělsku (Garrido Torres & Nieves-Aldrey 1999), Švédsku (více autorů, např. Graham 1969) a Jugoslávii (Marković & Stojanović 1996; 2003). V seznamu Československých blanokřídlých jej Kalina (1989) uvádí pouze z Čech a jedná se tedy o nový druh pro Moravu. *Acrocormus semifasciatus* byl dosud uváděn jako primární parazitoid nosatců *Magdalis armigera* (Fourcroy, 1785) a *M. cerasi* (Linnaeus, 1758) (Bouček 1957a, 1957b, 1961; Dzhanokmen 1978; Graham 1969; Herting 1973). Bouček (1957a) uvádí údaj *Magdalis* sp., ovšem bez druhové specifikace. Většina známých hostitelů však spadá mezi kůrovce (Scolytidae). Bouček (1957a) uvádí údaj *Hylesinus* sp., ovšem

znovu bez druhové specifikace. Více autorů pak konkrétně uvádí druh *Hylesinus oleiperda* (Fabricius, 1792) (např. Bouček 1957a, 1957b, 1961; Graham 1969; Herting 1973). Graham (1969) a Dzhanokmen (1978) uvádějí *Pteleobius vittatus* (Fabricius, 1787); Herting (1973) uvádí druhy *Scolytus ensifer* Eichhoff, 1881 a *S. pygmaeus* (Fabricius, 1787); Dzhanokmen (1978), Graham (1969) a Marković & Stojanović (1996) pak *S. intricatus* (Ratzeburg, 1837). *Scolytus carpini* byl zaznamenán jako nový hostitel tohoto parazitoida, který byl dosud spojován pouze s *Fraxinus* sp. a *Ulmus* sp. jako živnými rostlinami hostitelských brouků (Bouček 1957b, Graham 1969).