

First record of the plant bug *Deraeocoris flavilinea* (Hemiptera: Heteroptera: Miridae) in Slovakia

První nález klopušky *Deraeocoris flavilinea* (Hemiptera: Heteroptera: Miridae) na Slovensku

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Abstract. The first record of the introduced plant bug *Deraeocoris flavilinea* (A. Costa, 1862) (Miridae: Deraeocorinae: Deraeocorini) from Slovakia is presented, as well as four additional records from the Czech Republic. In three of the cases the species was collected on the non-native honey locust *Gleditsia triacanthos* in city parks.

Deraeocoris flavilinea (A. Costa, 1862) was described from the Sila Mts. in Calabria, Italy (Costa 1862, Josifov & Kerzhner 1999) and later recorded from Sicily (e.g., Puton 1887, as *Capsus freyi*; Boselli 1932), Liguria (Mancini 1963) and Sardinia (Dioli 1979). Outside Italy, it was first recorded from Corsica in 1961 (Péricart 1965) and in Malta (<1993 – Schembri 1993). In the 1980s the species was first recorded in continental Europe in France (1984, Alsace – Ehanno 1989) and its spread still continues: the Netherlands (1985 – Aukema 1989), Germany (1987, North Rhine-Westphalia; 1988, Berlin – Göllner-Scheiding 1991), Switzerland (1987, Ticino – Göllner-Scheiding 1991), Luxembourg (1992 – Reichling 1994), Belgium (1996 – Chérot 1988), England (1996 – Miller 2001), Slovenia (1997 – Kerzhner & Josifov 1999, Gogala 2006), Albania (<1999 – Aukema & Rieger 2001: erratum on p. 345, Aukema et al. 2013), Austria (2002 – Rabitsch 2002), Czech Republic (2003, Bohemia – Kment et al. 2005; 2007, Moravia – Hradil et al. 2008), Serbia (2005 – Jerinić-Prodanović & Protić 2011), Sweden (2005 – Gillerfors & Coulianos 2005), Denmark (2006 – Skipper 2008, 2013), Spain (2006 – Gessé 2011), Bulgaria (2011 – Simov et al. 2012), European Turkey (2011 – Çerçi & Koçak 2016), Poland (2013 – Gierlasiński 2015) and Hungary (2014 – Varga et al. 2014). The record from Azerbaijan included in the catalogue by Kerzhner & Josifov (1999) was an error for Albania (see Aukema & Rieger 2001: 345, Aukema et al. 2013). *Deraeocoris flavilinea* is listed by Rabitsch (2008) as an alien species established in Europe. **New record for Slovakia.**

Material examined. CZECH REPUBLIC: Bohemia: Praha – Horní Počernice (5853, 50°07'13"N 14°37'44"E), Cirkusová street, depositories of National Museum, inside building, vi.2016, 1 ♀, P. Kment lgt. et det.; Praha – Nové Město, Vyšehradská ulice street (5952), 21.vi.2010, 1 ♀, P. Kment lgt. et det.; Praha, Vrchlického sady park (5952, 50°05'03"N 14°26'02"E), on *Gleditsia triacanthos*, 7.vi.2016, 5 ♂♂ 6 ♀♀, 3.vii.2016, 1 ♂, P. Kment lgt. et det.; Praha, Letenské sady park (5952, 50°05'46"N 14°24'50"E), on *Gleditsia triacanthos*,

7.vi.2016, 6 ♂♂, 3.vii.2016, 1 ♀, P. Kment lgt. et det. (all coll. National Museum, Praha).
SLOVAKIA: Nitra – Klokočina (7574), beating of *Gleditsia triacanthos*, 10.vi.2016, 1 ♂
 1 ♀, J. Cunev lgt., det. et coll., P. Kment revid.

Deraeocoris flavilinea is a zoophytophagous species preying on aphids, psyllids as well as on eggs of Pentatomidae and larvae of Syrphidae (Boselli 1932, Triggiani 1973, Ehanno 1989, Jerinić-Prodanović & Protić 2011). Apart from predatory habits, Boselli (1932) observed specimens of this species piercing bracts and soft organs of hazel (*Corylus avellana*). This species inhabits various deciduous trees and shrubs, and has also been found rarely on low shrubs, herbs or conifers (*Pinus halepensis*, *Thuja* sp.) (see Wachmann et al. 2004, Kment et al. 2005, Zeinstra & Aukema 2005, Gessé 2011). It is a univoltine species overwintering in the egg stage; the larvae occur in May and June, adults in June and July (Wachmann et al. 2004).

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Figs 1–2. Habitus of *Deraeocoris flavilinea* (A. Costa, 1862) (1 – ♂, 2 – ♀), Czech Republic, Praha – Vrchlického sady park (7.vi.2016) (Photo: P. Kment).

Obr. 1–2. Habitus druhu *Deraeocoris flavilinea* (A. Costa, 1862) (1 – ♂, 2 – ♀), Česká republika, Praha – Vrchlického sady (7.VI.2016) (fotografie: P. Kment).

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SOUHRN

Klopuška parková (*Deraeocoris flavilinea* (A. Costa, 1862)) byla popsána z pohoří Sila v jihoitalské Calábrii (Costa 1862, Josifov & Kerzhner 1999) a později hlášena ze Sicílie (např., Puton 1887, jako *Capsus freyi*; Boselli 1932), Ligurie (Mancini 1963) a Sardinie (Dioli 1979). Mimo Itálii byl tento druh nalezen nejprve na Korsice v roce 1961 (Péricart 1965) a později na Maltě (<1993 – Schembri 1993). V 80. letech 19. století byl tento druh zjištěn i v kontinentální Evropě, postupně ve Francii (1984, Alsasko – Ehanno 1989), Nizozemí (1985 – Aukema 1989), Německu (1987, Severní Porýní-Vestfálsko; 1988, Berlín – Göllner-Scheiding 1991), Švýcarsku (1987, Ticino – Göllner-Scheiding 1991), Lucembursku (1992 – Reichling 1994), Belgii (1996 – Chérot 1988), Anglii (1996 – Miller 2001), Slovinsku (1997 – Kerzhner & Josifov 1999, Gogala 2006), Albánii (<1999 – Aukema & Rieger 2001: erratum na str. 345, Aukema et al. 2013), Rakousku (2002 – Rabitsch 2002), České republice (2003, Čechy – Kment et al. 2005; 2007 – Morava, Hradil et al. 2008), Srbsku (2005 – Jerinić-Prodanović & Protić 2011), Švédsku (2005 – Gillerfors & Coulianos 2005), Dánsku (2006 – Skipper 2008, 2013), Španělsku (2006 – Gessé 2011), Bulharsku (2011 – Simov et al. 2012), evropské části Turecka (2011 – Çerçi & Koçak 2016), Polsku (2013 – Gierlasiński 2015) a Maďarsku (2014 – Varga et al. 2014). Údaj z Ázerbajdžánu v katalogu Kerzhnera a Josifova (1999) představoval omyl místo Albánie (viz Aukema & Rieger 2001: 345, Aukema et al. 2013). Klopuška *Deraeocoris flavilinea* je uvedena v seznamu etablovaných nepůvodních druhů ploštic Evropy (Rabitsch 2008). Nový druh pro faunu Slovenska.

Deraeocoris flavilinea je zoofytofágní druh, který se živí mšicemi, merami, ale i vajíčky kněžic nebo larvami pestřenek (Boselli 1932, Triggiani 1973, Ehanno 1989, Jerinić-Prodanović & Protić 2011). Vedle toho Boselli (1932) pozoroval jedince tohoto druhu rovněž napichovat listeny a měkké orgány lísky (*Corylus avellana*). Obvykle osidluje nejružnější

druhy listnatých stromů a keřů, vzácně bývá nalézán rovněž na nízkých keřících, bylinách nebo na jehličnanech (*Pinus halepensis*, *Thuja* sp.) (viz Wachmann et al. 2004, Kment et al. 2005, Zeinstra & Aukema 2005, Gessé 2011). Klopouška parková má jednu generaci ročně přičemž přezimuje ve stádiu vajíčka; larvy se vyskytují v květnu a červnu, dospělci pak v červnu a červenci (Wachmann et al. 2004).