
FAUNISTIC RECORDS FROM THE CZECH REPUBLIC – 274

Hemiptera: Cicadomorpha: Cicadellidae

Platymetopius guttatus Fieber, 1869. Bohemia centr.: Koněprusy (6050), Zlatý kůň National Nature Reserve, Houbův lom quarry, 49°54'52"N, 14°04'01"E, 415 m a.s.l., 4.vi.2007, 1 larva; Měňany (6050), Plešivec quarry, 49°54'20"N, 14°05'25"E, 410 m a.s.l., 4.vi.2007, 1 ♂, 1 ♀, 1 larva; Svatý Jan pod Skalou (6050), Karlštejn National Nature Reserve, Paraple (Solvayovy lomy) quarry, 49°58'20"N, 14°08'47"E, 380 m a.s.l., 4.vi.2007, 1 larva; Kosoř (6051), Hviždalka quarry, 49°59'45"N, 14°19'49"E, 300 m a.s.l., 22.vii.2007, 1 ♀. All specimens R. Tropek lgt., I. Malenovský det., coll. Moravian Museum, Brno. Widely distributed in the western Palaearctic Region; recorded from Portugal, France, Norway, Sweden, Germany, Switzerland, Austria, Italy, Czech Republic, Hungary, Poland, Ukraine, Moldavia, Bulgaria, former Yugoslavia, Albania, Cyprus, Turkey, southwestern Russia, Iran, and Tadjikistan; doubtful records also from Belgium, the Netherlands and Greece (Nast 1972, Hoch 2007). It has a single generation per year and overwinters in the egg stage; adults occur from the beginning of June (our data) until the end of August (Dlabola 1954, Nickel 2003). Larvae probably feed on some low-growing herbs (exact host data unknown) while adults are frequently found on birch (*Betula pendula*) and oak (*Quercus* spp.) (Wagner & Franz 1961, Ossiannilsson 1983, Nickel 2003). In Germany, *P. guttatus* occurs in open xerothermic forests and along their margins, mainly at sun-exposed slopes or in plateau situations and it is known from about 15 scattered localities in warmer regions (Bavaria, Thuringia, Palatinate, and Saxony-Anhalt) up to 400 m a.s.l. (Nickel 2003). In Austria it was found in similar habitats (Holzinger 1996). In both Germany and Austria, *P. guttatus* is considered endangered by habitat loss and intensification of forestry (Nickel et al. 1999, W. Holzinger, pers. comm.). Our specimens were collected in the Bohemian Karst (Central Bohemia) by sweeping from xeric grassland and scrub on bottoms and terraces of abandoned limestone quarries left to spontaneous succession. There had been a single previous record from the Czech Republic – one specimen collected at light in Vrané nad Vltavou (6052) (Dlabola 1954). Due to the absence of more recent data, Malenovský & Lauterer (2005) listed *P. guttatus* as regionally extinct. Confirmed occurrence in the Czech Republic.

Zyginidia scutellaris (Herrich-Schäffer, 1838). Bohemia centr.: Koněprusy (6050), Zlatý kůň National Nature Reserve, Houbův lom quarry, 49°54'52"N, 14°04'01"E, 415 m a.s.l., 20.viii.2007, 9 ♂♂, 9 ♀♀, R. Tropek lgt.; Měňany (6050), Homolák quarry, 49°54'15"N, 14°05'24"E, 400 m a.s.l., 20.viii.2007, 5 ♂♂, 5 ♀♀, R. Tropek lgt.; Tetín (6050), abandoned quarry 1 km SW, 49°56'33"N, 14°05'12"E, 330 m a.s.l., 2.ix.2008, 1 ♂, P. Baňar lgt. All specimens I. Malenovský det., coll. Moravian Museum, Brno. Nomenclature uncertain due to the lost type material (Nickel 2003); currently commonly interpreted according to the redescription by Ribaut (1936). Distributed in the western Mediterranean region, western and central Europe (Algeria, Morocco, Spain, Portugal, France, Great Britain, Belgium, the Netherlands, Germany, Switzerland, Italy, Austria, Slovakia, and Hungary); reported also from other countries but at least some records may concern related species (Dworakowska 1970,

Hoch 2007). In central Europe apparently spreading eastwards in a few last decades (Nickel 2003). Probably a single generation per year with adult females overwintering; adults present throughout the year (della Giustina 1999, Nickel 2003). A mesophyll feeder on various grasses (Poaceae), e.g. *Festuca arundinacea*, *F. pratensis*, *Poa* spp., *Dactylis glomerata*, *Agrostis stolonifera*, *Bothriochloa ischaemum*, *Echinochloa crus-galli*, *Avena fatua*, and *Bromus erectus*, frequently occurring also on cultivated maize (*Zea mays*) on which it causes feeding damage and is considered as minor pest in some countries (Vidano 1982, Marion-Poll et al. 1987, della Giustina 1989, 1999, Nickel 2003, Pons et al. 2005). In Germany found mainly in ruderal sites, disturbed dry grassland and abandoned vineyards; in summer it migrates, often in large numbers, into abandoned fields, fallows, winter cereals, maize fields, fertilized meadows and grassland along waysides (Nickel 2003). All our specimens were collected by sweeping on bottoms and terraces of abandoned limestone quarries. It was listed from the Czech Republic by Then (1886; from “Dittersdorf” [= probably Dětřichov nad Bystricí (6170), P. Lauterer, pers. comm.]) and the same find was cited by Spitzner (1891). The species was also included in the list of the Auchenorrhyncha of Bohemia by Duda (1892; no locality data) but all these old records were considered doubtful as voucher specimens were not available for revision (Dlabola 1954, 1977) and some closely related species can be differentiated only using characters on the male genitalia. First reliable data from the Czech Republic.

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DLABOLA J. 1954: *Křísi – Homoptera. Fauna ČSR, svazek 1.* [Zikaden – Homoptera. Fauna der ČSR, Band 1.]. Nakladatelství Československé akademie věd, Praha, 339 pp (in Czech, Russian and German summary). – DLABOLA J. 1977: Homoptera Auchenorrhyncha, pp. 83–96. In: DLABOLA J. (ed.): *Enumeratio Insectorum Bohemoslovakiae. Check List Tschechoslowakische Insektenfauna. Acta Faunistica Entomologica Musei Nationalis Pragae*, 15, Suppl. 4: 1–158. – DUDA L. 1892: *Hmyz polokřídlý (Rhynchota) (Heteroptera, Cicadina, Psyllidae) v Čechách žijící. [Hemiptera (Rhynchota) (Heteroptera, Cicadina, Psyllidae) living in Bohemia]. Catalogus insectorum faunae bohemicae. I.* Společnost pro fyziokracii, Praha, 44 pp (in Czech). – DWORAKOWSKA I. 1970: On the genera Zyginidia Hpt. and Lublinia gen. n. (Auchenorrhyncha, Cicadellidae, Typhlocybinae). *Bulletin de l'Académie Polonaise des Sciences, Cl. II*, 18: 625–632. – GIUSTINA W. DELLA 1989: *Homoptères Cicadellidae. Volume 3. Compléments aux ouvrages d'Henri Ribaut. Faune de France 73.* Fédération Française des Sociétés de Sciences Naturelles & Institut national de la Recherche agronomique, Paris, 350 pp. – GIUSTINA W. DELLA 1999: A review of the genus Zyginidia in France (Hemiptera: Auchenorrhyncha: Cicadimorpha: Cicadellidae: Typhlocybinae). *Reichenbachia*, 33: 141–146. – HOCH H. 2007: *Fauna Europaea: Hemiptera: Cicadomorpha etc.* Fauna Europaea, Version 1.3, <http://www.faunaeur.org> (as of 24 March 2009). – HOLZINGER W. 1996: Die Zikadenfauna wärmeliebender Eichenwälder Ostösterreichs (Insecta: Homoptera, Auchenorrhyncha). *Mitteilungen des Naturwissenschaftlichen Vereins für Steiermark*, 126: 169–187. – MALENOVSKÝ I. & LAUTERER P. 2005: Auchenorrhyncha (křísi), pp. 147–155. In: FARKAČ J., KRÁL D. & ŠKORPÍK M. (eds.): *Červený seznam ohrožených druhů České republiky. Bezobratlí. Red list of threatened species in the Czech Republic. Invertebrates.* Agentura ochrany přírody a krajiny ČR, Praha, 760 pp (in Czech and English). – MARION-POLL P., GIUSTINA W. DELLA & MAUCHAMP B. 1987: Changes of electric patterns related to feeding in a mesophyll feeding leafhopper Zyginidia scutellaris. *Entomologia Experimentalis et Applicata*, 43: 115–124. – NAST J. 1972: *Palaeartic Auchenorrhyncha (Homoptera). An annotated check list.* Polish Scientific Publishers, Warszawa, 550 pp. – NICKEL H. 2003: *The leafhoppers and planthoppers of Germany (Hemiptera, Auchenorrhyncha): Patterns and strategies in a highly diverse group of phytophagous insects.* Pensoft Publishers, Sofia-Moscow and Goecke & Evers, Keltern, 460 pp. – NICKEL H., WITSACK W. & REMANE R. 1999: Rote Liste der Zikaden Deutschlands (Hemiptera, Auchenorrhyncha) – Habitate, Gefährdung-

sfaktoren und Anmerkungen zum Areal. *Beiträge zur Zikadenkunde*, 3: 13-32. – OSSIANNILSSON F. 1983: The Auchenorrhyncha (Homoptera) of Fennoscandia and Denmark. Part 3: The Family Cicadellidae: Deltocephalinae, Catalogue, Literature and Index. *Fauna Entomologica Scandinavica*, 3: 594-978. – RIBAUT H. 1936: *Homoptères Auchenorrhynques. I (Typhlocybidae)*. *Faune de France 31*. Paul Lechevalier et fils, Paris, 231 pp. – PONS X., LUMBIERRES B., LÓPEZ C. & ALBAJES R. 2005: Abundance of non-target pests in transgenic Bt-maize: A farm scale study. *European Journal of Entomology*, 102: 73-79. – SPITZNER W. 1891: Beitrag zur Hemipteren-fauna Mährens. *Verhandlungen des Naturforschenden Vereines in Brünn*, 30: 3-34. – THEN F. 1886: Katalog der Österreichischen Cicadinen. *Programm des k. k. Theresianischen Gymnasiums Wien*, 1886: 1-59. – VIDANO C. 1982: Contributo alla conoscenza delle Zyginiida d'Italia (Homoptera Auchenorrhyncha Typhlocybinae). *Memorie della Società Entomologica Italiana*, 60: 343-355. – WAGNER W. & FRANZ H. 1961: 34. Rhynchota. Unterordnung Homoptera, Überfamilie Auchenorrhyncha, pp. 74-158. In: FRANZ H. (ed.): *Die Nordost-Alpen im Spiegel ihrer Landtierwelt II*. Universitätsverlag, Innsbruck, 790 pp.

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