

NOTA / NOTE

Corythucha arcuata (Say, 1832) (Hemiptera: Tingidae),
new species for the Iberian PeninsulaFrancisco Gil¹ & José Manuel Grosso-Silva²¹ Rua Dr. Sérgio Vieira de Melo, 39, 3º dir., 4420-623 S. Cosme, Portugal. e-mail: franvbgil@gmail.com² Museu de História Natural e da Ciência da Universidade do Porto (MHNC-UP) / PRISC, Praça Gomes Teixeira, 4099-002 Porto, Portugal. e-mail: jmgrossosilva@mhnc.up.pt

Abstract: The Nearctic lacebug *Corythucha arcuata* (Say, 1832) (Hemiptera, Tingidae) is reported for the first time from the Iberian Peninsula, with records from two localities in the district of Porto (Portugal).

Key words: Hemiptera, Tingidae, *Corythucha arcuata*, invasive species, first record, Portugal, Iberian Peninsula.

Resumen: *Corythucha arcuata* (Say, 1832) (Hemiptera: Tingidae), nueva especie para la Península Ibérica. Se cita el tinguído neártico *Corythucha arcuata* (Say, 1832) (Hemiptera, Tingidae) por primera vez de la Península Ibérica, con registros de dos localidades en el distrito de Porto (Portugal).

Palabras clave: Hemiptera, Tingidae, *Corythucha arcuata*, especie invasora, primera cita, Portugal, Península Ibérica.

Recibido: 20 de octubre de 2021
Aceptado: 29 de octubre de 2021

Publicado on-line: 3 de noviembre de 2021

Native to North America, *Corythucha arcuata* (Say, 1832) (Hemiptera, Tingidae) is an invasive species of lace bug in Europe (CSÓKA *et al.*, 2020). It is mainly a pest of oak trees (*Quercus* spp.), but other plant species have been recorded as hosts, namely trees such as *Castanea dentata* (Marsh.) Borkh., *Castanea sativa* Mill., *Malus sylvestris* (L.) Mill., *Ulmus minor* Mill., and *Acer* spp. and shrubs like *Rosa canina* L., *Rubus idaeus* L., and *Rubus ulmifolius* Schott (ZÚBRIK *et al.*, 2018; GOLUB & SOBOLEVA, 2018; CSÓKA *et al.*, 2020).

Corythucha arcuata was first recorded in Europe from Italy by BERNARDINELLI & ZANDIGIACOMO (2000), who suggested that the species had been introduced a few years earlier due to its wide distribution in the Italian peninsula. In the following two decades, it has swiftly spread and has already been found in 18 countries, the closest to Portugal being France, where it was detected in 2017 (CSÓKA *et al.*, 2020; MERTELÍK & LIŠKA, 2020). To our knowledge, no Spanish records of *C. arcuata* have been published yet.

In this paper, we present the first records of *C. arcuata* from the Iberian Peninsula, more specifically in the district of Porto (Portugal).

Material examined: Portugal: Porto district:

- Lousada municipality: Mata de Vilar (41.284984, -8.224706; 310 m above sea level): 23/03/2021 (1 specimen photographed by F. Gil, Fig. 1).
- Vila Nova de Gaia municipality: Quinta de Chão de Carvalhos, on *Quercus robur* L. (41.083185, -8.542239; 79 m above sea level): 19/06/2021, 2 specimens, Grosso-Silva leg., MHNC-UP col. (MHNCUP/ART/37705 and MHNCUP/ART/37706); 04/07/2021 [42 specimens, Grosso-Silva leg. (34 specimens, MHNC-UP col.: MHNCUP/ART/37707 to MHNCUP/ART/37740; 8 specimens, Grosso-Silva col.)] (Fig. 2).

References

BERNARDINELLI, I. & ZANDIGIACOMO, P. 2000. Prima segnalazione di *Corythucha arcuata* (Say) (Heteroptera, Tingidae) in Europa. *Informatore Fitopatologico*, **50**(12): 47-49.

CSÓKA, G.; HIRKA, A.; MUTUN, S.; GLAVENDEKIĆ, M.; MIKÓ, Á.; SZŐCS, L.; PAULIN, M.; EÖTVÖS, C.B.; GÁSPÁR, C.; CSEPELÉNYI, M.; SZÉNÁSI, Á.; FRANJEVIĆ, M.; GNINENKO, Y.; DAUTBAŠIĆ, M.; MUZEJINOVIĆ, O.; ZÚBRIK, M.; NETOIU, C.; BUZATU, A.; BĂLĂCENOIU, F.; JURC, M.; JURC, D.; BERNARDINELLI, I.; STREITO, J.C.; AVTZIS, D. & HRAŠOVEC, B. 2020. Spread and potential host range of the invasive oak lace bug [*Corythucha arcuata* (Say, 1832) - Heteroptera: Tingidae] in Eurasia. *Agricultural and Forest Entomology*, **22**(1): 61-74.

GOLUB, V.B. & SOBOLEVA, V.A. 2018. Morphological differences between *Stephanitis pyri*, *Corythucha arcuata* and *C. ciliata* (Heteroptera: Tingidae) distributed in the south of the European part of Russia. *Zoosystematica Rossica*, **27**(1): 142-145.

MERTELÍK, J. & LIŠKA, J. 2020. Faunistic records from the Czech Republic - 495. Hemiptera: Heteroptera: Tingidae. *Corythucha arcuata* (Say, 1832). *Klapalekiana*, **56**: 295-296.

ZÚBRIK, M.; GUBKA, A.; RELL, S.; KUNCA, A.; VAKULA, J.; GALKO, J.; NIKOLOV, C. & LEONTOVYČ, R. 2019. First record of *Corythucha arcuata* in Slovakia. *Plant Protection Science*, **55**(2): 129-133.



Fig. 1. - *Corythucha arcuata* photographed in Mata de Vilar (Lousada, Porto).

Fig. 2. - *Corythucha arcuata* captured on *Quercus robur* in Quinta de Chão de Carvalhos (Vila Nova de Gaia, Porto).