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İnanç Özgen
Fırat University, Engineering
Faculty, Bioengineering
Department, Elazığ, Turkey

Barış Çerçi
Kökнар 4, Tarçın Street, Kору
Mahallesi Ardıçlı Evler,
Esenyurt, İstanbul, Turkey

Paride Dioli
Museo di Storia Naturale Sezione
di Entomologia Corso Venezia
55-Milano- Italia

Some rare species of heteroptera (Hemiptera) from Turkey

İnanç Özgen, Barış Çerçi and Paride Dioli

Abstract

In this paper, new records on some rare Heteroptera (Hemiptera) from East and South East Anatolian Region of Turkey are given.

Keywords: Hemiptera, Rare species, Turkey

Introduction

Heteroptera (Hemiptera) species are still poorly known in Eastern and Sotheastern Anatolia region of Turkey. In last ten years, some important field reserches have done in these regions: Matocq and Özgen (2010) [8], Yıldırım *et al.* (2011) [12], Gözüaçık *et al.* (2011) [6], Maral *et al.* (2012) [10], Matocq *et al.* (2014) [9], Yazıcı *et al.* (2014, 2015, 2016a, 2016b) [13, 14, 15, 16]. An increase in the number of species newly recorded from regions Eastern and Sotheastern Anatolia region of Turkey is expected because the distribution of species is changing depending on flora. In this study, new records of some rare species which are already known from Turkey are given.

Material and Methods

The specimens were mainly collected by hand and visual sampling. Specimens were caught by sweep-netting the herbaceous vegetation, or collected by beating the branches of trees and shrubs over a white net. Material identified by second and thirty authors.

Results

Family: Miridae

Stethoconus pyri (Mella, 1869)

Material examined: Elazığ, Palu, Baltaş village, 13.10.2017, 2 exc. leg. Özgen (Figure 1.)

Distribution in Turkey: Adana, Bursa, İzmir, Sakarya, Hatay (Önder *et al.*, 2006) [7], Elazığ (this paper).



Fig 1: Habitus of *Stethoconus pyri* (Mella, 1869).

Correspondence
İnanç Özgen
Fırat University, Engineering
Faculty, Bioengineering
Department, Elazığ, Turkey

Note: This species is firstly recorded in East Anatolia region in Turkey. It is a predator of *Stephanitis pyri* (Önder *et al.*, 1986) [6]. The specimens were found near a river surrounded by *Mentha sp.* and *Typha sp.*

***Alloeomimus kurdus* (Hoberlandt, 1953)**

Material examined: Elazığ, Baskil, Şahaplı village, 12.09.2016, 2 exc. leg. Özgen (Figure 2.)

Distribution in Turkey: Gaziantep, Kahramanmaraş (Önder *et al.*, 2006) [7], South Eastern Anatolia (Bolu, 2002) [2] Elazığ (this paper).

Note: The species is present also in Iran, Iraq, Syria, Uzbekistan and Turkmenistan (Aukema, Rieger & Rabitsh, 2013) [1]



Fig 2: Habitus of *Allomimus kurdus* Hoberlandt, 1953.

Family: Tingidae

Cantacader quadricornis (Lepeletier & Serville, 1828)

Material examined: Siirt, Aydınlar, 12.09.2009, 3 exc. pistachio orchard, leg. Özgen (Figure 3.).

Distribution in Turkey: Adana, İzmir (Dursun & Fent, 2017), Siirt (this paper).

Note: Taxon distributed from Mediterranean Countries to Medio Oriental Region and Arabia (Aukema, Rieger & Rabitsh, 2013) [1].



Fig 3: Habitus of *Cantacader quadricornis* (Lepeletier & Serville, 1828).

Family: Anthocoridae

Xylocoris (Arrostelus) flavipes (Reuter, 1875)

Material examined: Elazığ, Karakoçan, 22.05.2016. 2 exc. leg. Özgen (Figure 4.).

Distribution in Turkey: Elazığ (this paper), İzmir

Note: It is the second record in Turkey. This species, markedly thermophilous, is present in the warm regions of the world, often introduced in the vicinities of seaports. It is well known species in grain stores where is considered as a predator of major grain and rice pests, in particular the beetles *Tribolium castaneum* (Herbst, 1797) and *Oryzaephilus surinamensis* (Linnaeus, 1758) (Pericart, 1972).



Fig 4: Habitus of *Xylocoris (Arrostelus) flavipes* (Reuter, 1875)

Family: Coreidae

Anoplocerus elevatus (Fieber, 1861)

Material examined: Elazığ, Baskil, Kuşsarayı village, 05.05.2014, leg Ozgen, 2 exc.

Distribution in Turkey: Elazığ (this paper), Ankara, Niğde, Osmaniye, Isparta (Fent and Japoshvili, 2012)

Note: First record in East Anatolia.



Fig 5: Habitus of *Anoplocerus elevatus* (Fieber, 1861)

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