

## Data to the terrestrial Heteroptera fauna of Dobrogea

**Attila Torma**

University of Szeged, Department of Ecology H-6725 Szeged,  
Közép fasor 52., Hungary, *torma\_a@yahoo.com*.

### Abstract

Present paper contains Heteroptera faunistical data obtained during the joint expeditions of Babeş-Bolyai University, Sapientia University and University of Szeged. Altogether 109 true bug species of 17 families were collected in Northern-Dobrogea. The plant bug *Lygus adspersus* (Schilling, 1837) is new record to the Romanian fauna.

**Key words:** true bugs, faunistics, Northern-Dobrogea

### Introduction

The investigation of Heteroptera fauna of Dobrogea was started at the end of the 19<sup>th</sup> century by Montandon (1886). In the 20<sup>th</sup> century several authors published faunistical and ecological studies (e.g. Sienkiewicz 1962, Sienkiewicz and Paraschivescu 1963, Negru 1968, Kis 1972, 1976, 1984, 2001). Sienkiewicz (1962, 1964) published some new species to the Romanian fauna and revised the collection of Montandon. He mentions 144 species for the region. Kis (1972, 1976) summarised the true bug fauna of Dobrogea on the basis of formerly published data and his own collected materials. According to his work 239 Heteroptera species occur in Northern-Dobrogea.

### Materials and methods

This paper presents Heteroptera faunistical data obtained during the joint expeditions of Babeş-Bolyai University, Sapientia University and University of Szeged in 2004, 2005 and 2006. In 2004 the Heteroptera fauna was sampled in the Măcin Mountains, exclusively on 10.09.2004. In 2005 and

2006, respectively two collecting trips were organised (29.05–04.06.2005 and 10–11.06.2006) to the Northern part of Dobrogea.

We used different sampling methods: mostly sweep-netting and direct sampling by hand (ground and plant search, turning rocks and sifting of leaf litter). The collected material was preserved in 70° ethylic alcohol. Adult individuals were identified under stereoscopic microscope with the use of various keys (Benedek 1969, Kis 1984, 2001, Kis and Kondorosy 1999, Vásárhelyi 1978, Wagner 1952, 1967). The nomenclature of true bugs is based on Cantoreanu's study (2007).

### Results and discussion

The collected material comprises of 1013 adult true bug specimens belonging to 107 species of 17 families. The list of species is given below. The number of collected species within a specific family is given in parenthesis behind the family names.

#### LEPTOPODOMORPHA

##### SALDIDAE (3)

- Chartoscirta cocksi* (Curtis, 1835): 30.05.2005. Valea Fagilor 1♂;  
*Saldula opacula* (Zetterstedt, 1839): 11.06.2006. Cetățuia, muddy surface of a searing puddle 1♂;  
*Saldula palustris* (Douglas et Scott, 1874): 11.06.2006. Cetățuia, muddy surface of a searing puddle 1♂, 1♀;

#### CIMICOMORPHA

##### TINGIDAE (5)

- Agramma (Agramma) minutum* Horváth, 1874: 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀;  
*Catoplatus carthusianus* (Goeze, 1778): 29.05.2005. Măcin Mountains, hillside meadow 2♂♂, 1♀;  
*Copium teucrici* (Host, 1788): 29.05.2005. Măcin Mountains, hillside meadow 1♀; 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀;  
*Kalama tricornis* (Schrank, 1801): 30.05.2005. Valea Fagilor 1♂; 04.06.2005. Hanul Conachi, sandy grassland 1♂;

*Tingis (Tingis) auriculata* (Costa, 1847): 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♀;

## MIRIDAE (34)

- Acetropis (Acetropis) carinata* (Herrich-Schäffer, 1842): 29.05.2005. Măcin Mountains, hillside meadow 2♂♂, 2♀♀; 30.05.2005. Cetățuia, dry meadow 14♂♂, 20♀♀; 01.06.2005. Horia, hillside grassland with oak trees 3♂♂, 3♀♀; 02.06.2005. Babadag, oak forest and clearings 4♂♂, 8♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♂;
- Adelphocoris lineolatus* (Goeze, 1778): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa spp.* 2♂♂, 1♀; 29.05.2005. Măcin Mountains, hillside meadow 1♀; 30.05.2005. Valea Fagilor 1♂, 2♀♀; 30.05.2005. Cetățuia, dry meadow 6♂♂, 10♀♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 2♂♂, 3♀♀; 01.06.2005. Horia, hillside grassland with oak trees 1♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♀; 02.06.2005. Babadag, oak forest and clearings 1♂; 03.06.2005. Lake Amara, lakeside saline marshland 1♂; 04.06.2005. Hanul Conachi, sandy grassland 3♂♂, 2♀♀; 11.06.2006. Cetățuia, dry meadow 2♂♂, 2♀♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 2♂♂, 1♀;
- Adelphocoris quadripunctatus* (Fabricius, 1794): 29.05.2005. Măcin Mountains, hillside meadow 1♂; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♀;
- Adelphocoris seticornis* (Fabricius, 1775): 30.05.2005. Cetățuia, dry meadow 1♂;
- Amblytylus nasutus* (Kirschbaum, 1856): 29.05.2005. Măcin Mountains, hillside meadow 7♂♂, 6♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 2♂♂, 2♀♀; 03.06.2005. Lake Amara, lakeside saline marshland 2♂♂, 8♀♀; 11.06.2006. Cetățuia, dry meadow 4♂♂, 4♀♀;
- Amblytylus concolor* Jakovlev, 1877: 29.05.2005. Măcin Mountains, hillside meadow 9♂♂, 4♀♀; 30.05.2005. Cetățuia, dry meadow 61♂♂, 49♀♀; 31.05.2005. Slava Rusă (Mănăstirea

- Uspenia), hillside meadow 9♂♂, 11♀♀; 04.06.2005. Hanul Conachi, sandy grassland 21♂♂, 28♀♀;
- Brachycoleus decolor* Reuter, 1887: 29.05.2005. Măcin Mountains, hillside meadow 1♂, 2♀; 30.05.2005. Cetățuia, dry meadow 2♂♂, 4♀♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 6♂♂, 4♀♀; 02.06.2005. Babadag, oak forest and clearings 1♀; 11.06.2006. Cetățuia, dry meadow 1♂, 2♀♀; 11.06.2006. Luncavița 1♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 3♂♂, 6♀♀;
- Campylomma verbasci* (Meyer-Dür, 1843): 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♂;
- Chlamydatus (Euattus) pulicarius* (Fallén, 1807): 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 2♀♀;
- Chlamydatus (Euattus) pullus* Reuter, 1870: 30.05.2005. Valea Fagilor 4♂♂, 1♀; 30.05.2005. Cetățuia, dry meadow 1♂; 30.05.2005. Luncavița, grassland 1♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 3♂♂, 1♀; 04.06.2005. Hanul Conachi, sandy grassland 1♂;
- Deraeocoris (Camptobrochis) serenus* (Douglas et Scott, 1868): 30.05.2005. Cetățuia, dry meadow 2♂♂; 04.06.2005. Hanul Conachi, sandy grassland 2♂♂; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♂;
- Europiella albipennis* (Fallén, 1829): 29.05.2005. Măcin Mountains, hillside meadow 2♂♂, 3♀♀;
- Europiella artemisiae* (Becker, 1864): 30.05.2005. Cetățuia, dry meadow 5♂♂, 2♀♀; 30.05.2005. Luncavița, grassland 11♂♂, 1♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 3♂♂, 8♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 2♂♂, 1♀;
- Globiceps (Globiceps) sphaegiformis* (Rossi, 1790): 11.06.2006. Luncavița 1♂;
- Leptoterna ferrugata* (Fallén, 1807): 30.05.2005. Cetățuia, dry meadow 1♀; 11.06.2006. Cetățuia, dry meadow 1♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♀;

- Lygus adpersus* (Schilling, 1837): 03.06.2005. Lake Amara, lakeside saline marshland 1♂; - This is the first record of the species in Romania.
- Lygus gemellatus* (Herrich-Schäffer, 1835): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♀; 29.05.2005. Măcin Mountains, hillside meadow 1♀; 04.06.2005. Hanul Conachi, sandy grassland 1♀;
- Lygus pratensis* (Linnaeus, 1758): 29.05.2005. Măcin Mountains, hillside meadow 1♂;
- Lygus rugulipennis* Poppius, 1911: 29.05.2005. Măcin Mountains, hillside meadow 1♂; 30.05.2005. Valea Fagilor 1♀; 30.05.2005. Cetățuia, dry meadow 2♀♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀; 01.06.2005. Horia, hillside grassland with oak trees 1♂;
- Macrotylus (Alloeonycha) paykulli* (Fallén, 1807): 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀;
- Orthocephalus saltator* (Hahn, 1835): 11.06.2006. Luncavița 1♂;
- Orthonotus cylindricollis* (Costa, 1852): 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♂, 1♀; 02.06.2005. Babadag, oak forest and clearings 2♂♂; 11.06.2006. Cetățuia, dry meadow 4♂♂;
- Orthotylus (Melanotrichus) flavosparsus* (F. Sahlberg, 1842): 30.05.2005. Cetățuia, dry meadow 1♂;
- Plagiognathus (Plagiognathus) bipunctatus* Reuter, 1883: 29.05.2005. Măcin Mountains, hillside meadow 2♂♂, 1♀; 30.05.2005. Valea Fagilor 2♂♂, 2♀♀; 30.05.2005. Cetățuia, dry meadow 7♂♂, 6♀♀; 30.05.2005. Luncavița, grassland 3♂♂, 2♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 5♂♂, 3♀♀; 04.06.2005. Hanul Conachi, sandy grassland 1♂, 1♀;
- Plagiognathus (Plagiognathus) chrysanthemi* (Wolff, 1804): 11.06.2006. Cetățuia, dry meadow 1♀;
- Plagiognathus (Plagiognathus) fulvipennis* (Kirschbaum, 1856): 30.05.2005. Cetățuia, dry meadow 1♂;
- Polymerus (Poeciloscytus) asperulae* (Fieber, 1861): 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♂;

- Polymerus (Poeciloscytus) cognatus* (Fieber, 1858): 30.05.2005. Cetățuia, dry meadow 1♂;
- Polymerus (Poeciloscytus) vulneratus* (Panzer, 1806): 30.05.2005. Cetățuia, dry meadow 3♂♂; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 5♂♂, 10♀♀; 04.06.2005. Hanul Conachi, sandy grassland 1♂, 2♀♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♂;
- Stenodema (Brachystira) calcarata* (Fallén, 1807): 30.05.2005. Valea Fagilor 1♀; 04.06.2005. Hanul Conachi, sandy grassland 1♂, 2♀♀; 11.06.2006. Cetățuia, dry meadow 3♀♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 2♂♂;
- Stenodema (Stenodema) laevigata* (Linnaeus, 1758): 02.06.2005. Babadag, oak forest and clearings 1♀;
- Stenotus binotatus* (Fabricius, 1794): 11.06.2006. Luncavița 1♀;
- Trigonotylus caelestialium* (Kirkadly, 1902): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 2♀♀; 29.05.2005. Măcin Mountains, hillside meadow 4♂♂, 5♀♀; 30.05.2005. Valea Fagilor 2♂♂, 11♀♀; 30.05.2005. Cetățuia, dry meadow 1♂; 30.05.2005. Luncavița, grassland 6♂♂, 2♀♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 5♂♂, 8♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 2♀♀; 02.06.2005. Babadag, oak forest and clearings 1♂; 04.06.2005. Hanul Conachi, sandy grassland 4♂♂, 11♀♀;
- Trigonotylus pulchellus* (Hahn, 1834): 30.05.2005. Cetățuia, dry meadow 1♂; 30.05.2005. Cetățuia, dry meadow 4♂♂, 12♀♀; 11.06.2006. Cetățuia, dry meadow 1♀;
- NABIDAE (3)
- Nabis (Nabis) pseudoferus* Remane, 1949: 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂; 30.05.2005. Cetățuia, dry meadow 1♂; 04.06.2005. Hanul Conachi, sandy grassland 1♂;
- Nabis (Nabis) punctatus* Costa, 1847: 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂; 30.05.2005. Valea Fagilor 1♂;

*Nabis* sp.: 30.05.2005. Valea Fagilor 1♀; 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 2♀♀; 29.05.2005. Măcin Mountains, hillside meadow 1♀; 30.05.2005. Cetățuia, dry meadow 4♀♀; 30.05.2005. Luncavița, grassland 1♀; 04.06.2005. Hanul Conachi, sandy grassland 3♀♀;  
*Nabis (Nabis) rugosus* (Linnaeus, 1758): 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀;

## ANTHOCORIDAE (2)

*Orius (Orius) niger* Wolff, 1804: 30.05.2005. Valea Fagilor 1♂; 30.05.2005. Cetățuia, dry meadow 15♂♂, 19♀♀; 30.05.2005. Luncavița, grassland 1♂, 2♀♀; 03.06.2005. Lake Amara, lake side saline marshland 3♂♂; 04.06.2005. Hanul Conachi, sandy grassland 1♀;  
*Orius (Heterorius) minutus* (Linnaeus, 1758): 30.05.2005. Valea Fagilor 2♀;

## REDUVIIDAE (1)

*Rhinocoris (Rhinocoris) iracundus* (Poda, 1761): 02.06.2005. Babadag, oak forest and clearings 1♂;

## PENTATOMOMORPHA

## PIESMATIDAE (1)

*Piesma maculatum* (Laporte, 1832): 30.05.2005. Cetățuia, dry meadow 1♀; 30.05.2005. Luncavița, grassland 1♂, 3♀♀;

## BERYTIDAE (2)

*Berytinus (Berytinus) hirticornis* (Brullé, 1835): 11.06.2006. Cetățuia, dry meadow 1♂;  
*Neides tipularius* (Linnaeus, 1758): 11.06.2006. Cetățuia, dry meadow 1♂;

## LYGAEIDAE (16)

*Beosus quadripunctatus* (Müller, 1766): 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀;

- Brachyplax tenuis* (Mulsant et Rey, 1852): 30.05.2005. Cetățuia, dry meadow 4♂♂, 4♀♀;
- Oxycarenus pallens* (Herrich-Schäffer, 1850): 30.05.2005. Cetățuia, dry meadow 14♂♂, 9♀♀; 30.05.2005. Luncavița, grassland 2♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♀;
- Cymus claviculus* (Fallén, 1807): 30.05.2005. Valea Fagilor 1♀;
- Cymus glandicolor* (Hahn, 1831): 30.05.2005. Cetățuia, dry meadow 1♀;
- Cymus melanocephalus* Fieber, 1861: 11.06.2006. Cetățuia, dry meadow 2♂♂; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♂, 1♀;
- Geocoris (Piocoris) erythrocephalus* (Lepeletier & Serville, 1825): 30.05.2005. Cetățuia, dry meadow 1♂; 02.06.2005. Babadag, oak forest and clearings 1♀;
- Graptopeltus lynceus* (Fabricius, 1775): 30.05.2005. Cetățuia, dry meadow 1♀;
- Ischnodemus sabuleti* (Fallén, 1829): 30.05.2005. Valea Fagilor 1♂;
- Megalonotus praetextatus* (Herrich-Schäffer, 1835): 30.05.2005. Cetățuia, dry meadow 1♀;
- Melanocoryphus tristrami* (Douglas et Scott, 1868): 01.06.2005. Horia, hillside grassland with oak trees 1♀;
- Metopoplax origani* (Kolenati, 1845): 30.05.2005. Cetățuia, dry meadow 8♂♂, 9♀♀; 03.06.2005. Lake Amara, lakeside saline marshland 1♂, 1♀;
- Nysius ericae* (Schilling, 1829): 30.05.2005. Cetățuia, dry meadow 12♂♂, 20♀♀; 30.05.2005. Luncavița, grassland 1♂; 03.06.2005. Lake Amara, lakeside saline marshland 5♀♀; 04.06.2005. Hanul Conachi, sandy grassland 6♀♀;
- Nysius senecionis* (Schilling, 1829): 30.05.2005. Cetățuia, dry meadow 4♂♂, 4♀♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 2♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 4♂♂, 6♀♀;
- Peritrechus gracilicornis* (Puton, 1877): 30.05.2005. Valea Fagilor 1♀; 30.05.2005. Cetățuia, dry meadow 1♀; 04.06.2005. Ha-



nul Conachi, sandy grassland 1♂; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♀;

*Tropistethus holosericeus* (Scholtz, 1846): 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♀;

#### PYRRHOCORIDAE (1)

*Pyrrhocoris apterus* (Linnaeus, 1758): 30.05.2005. Valea Fagilor 1♂, 1♀; 30.05.2005. Cetățuia, dry meadow 1♂, 1♀;

#### STENOCEPHALIDAE (1)

*Dicranocephalus albipes* (Fabricius, 1781): 30.05.2005. Cetățuia, dry meadow 2♂, 2♀;

#### COREIDAE (9)

*Centrocoris spiniger* (Fabricius, 1781): 30.05.2005. Cetățuia, dry meadow 1♂;

*Ceraleptus gracilicornis* (Herrich-Schäffer, 1835): 30.05.2005. Cetățuia, dry meadow 2♂♂; 11.06.2006. Cetățuia, dry meadow 1♂;

*Ceraleptus lividus* Stein, 1858: 30.05.2005. Cetățuia, dry meadow 1♂;

*Coriomeris hirticornis* (Fabricius, 1794): 29.05.2005. Măcin Mountains, hillside meadow 2♂♂; 30.05.2005. Cetățuia, dry meadow 4♂♂;

*Syromastes rhombeus* (Linnaeus, 1767): 29.05.2005. Măcin Mountains, hillside meadow 1♀;

*Coreus marginatus* (Linnaeus, 1758): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂; 30.05.2005. Cetățuia, dry meadow 2♀♀; 11.06.2006. Luncavița 1♂, 1♀;

*Nemocoris falleni* F. Sahlberg, 1848: 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♀;

*Phyllophya laciniata* (Villers, 1789): 29.05.2005. Măcin Mountains, hillside meadow 1♂;

*Spathocera tuberculata* Horváth, 1882: 30.05.2005. Cetățuia, dry meadow 1♂;

ALYDIDAE (1)

*Camptopus lateralis* (Germar, 1817): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂;

RHOPALYDAE (10)

*Brachycarenum tigrinus* (Schilling, 1817): 30.05.2005. Cetățuia, dry meadow 2♂♂, 1♀; 01.06.2005. Horia, hillside grassland with oak trees 1♂; 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂;

*Chorosoma gracile* Josifov, 1968: 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂, 2♀♀;

*Corizus hyoscyami* (Linnaeus, 1758): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂;

*Myrmus miriformis* (Fallén, 1807): 11.06.2006. Măcin 2♂♂, 3♀♀; 11.06.2006. Cetățuia, dry meadow 1♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 3♂♂, 3♀♀;

*Rhopalus (Rhopalus) conspersus* (Fieber, 1837): 29.05.2005. Măcin Mountains, hillside meadow 1♂;

*Rhopalus (Rhopalus) parumpunctatus* (Schilling, 1817): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂; 29.05.2005. Măcin Mountains, hillside meadow 1♀; 11.06.2006. Luncavița 1♀;

*Rhopalus (Rhopalus) subrufus* (Gmelin, 1788): 11.06.2006. Luncavița 3♂♂;

*Stictopleurus abutilon* (Rossi, 1790): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♀; 30.05.2005. Valea Fagilor 1♂; 30.05.2005. Cetățuia, dry meadow 1♂; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♀;

*Stictopleurus pictus* Fieber, 1861: 29.05.2005. Măcin Mountains, hillside meadow 1♂, 2♀♀; 30.05.2005. Valea Fagilor 1♂, 1♀; 04.06.2005. Hanul Conachi, sandy grassland 1♀;

*Stictopleurus punctatonervosus* (Goeze, 1778): 30.05.2005. Valea Fagilor 1♂, 1♀; 30.05.2005. Cetățuia, dry meadow 2♂♂, 4♀♀; 30.05.2005. Luncavița, grassland 1♂, 1♀; 31.05.2005. Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♂, 1♀;

02.06.2005. Babadag, oak forest and clearings 1♀; 11.06.2006. Cetățuia, dry meadow 1♂; 11.06.2006. Luncavița 1♂, 2♀♀;

PLATASPIDAE (1)

*Coptosoma scutellatum* (Geoffroy, 1785): 10.06.2006. Valea Fagilor 1♀; 11.06.2006. Cetățuia, dry meadow 1♂, 3♀♀;

CYDNIDAE (1)

*Legnotus limbosus* (Geoffroy, 1785): 10.06.2006. Valea Fagilor 1♀;

PENTATOMIDAE (16)

*Aelia acuminata* (Linnaeus, 1758): 29.05.2005. Măcin Mountains, hillside meadow 1♀; 30.05.2005. Cetățuia, dry meadow 1♀; 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♂; 04.06.2005. Hanul Conachi, sandy grassland 1♂, 2♀♀; 10.06.2006. Valea Fagilor 1♀; 11.06.2006. Luncavița 1♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♂, 2♀♀;

*Aelia rostrata* Boheman, 1852: 30.05.2005. Cetățuia, dry meadow 1♂; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♂;

*Ancyrosoma leucogrammes* (Gmelin, 1781): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂;

*Anthemina lunulata* (Goeze, 1778): 08.10.2007. dob5 1♀;

*Arma custos* (Fabricius, 1794): 11.06.2006. Luncavița 1♀;

*Carpocoris* (*Carpocoris*) *pudicus* (Poda, 1761): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 6♂♂, 3♀♀; 11.06.2006. Măcin Mountains (Pricopanu), hillside meadow 1♂, 2♀♀;

*Carpocoris* (*Carpocoris*) *purpureipennis* (De Geer, 1773): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♀;

*Codophila varia* (Fabricius, 1787): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 2♂♂, 3♀♀;

*Dolycoris baccarum* (Linnaeus, 1758): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 2♂♂, 1♀; 30.05.2005. Cetățuia, dry meadow 2♂♂, 1♀; 11.06.2006. Cetățuia, dry meadow 1♀; 11.06.2006. Luncavița 1♂; *Eysarcoris ventralis* (Westwood, 1837): 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♀; *Eurydema (Eurydema) oleracea* (Linnaeus, 1758): 30.05.2005. Cetățuia, dry meadow 1♀; 04.06.2005. Hanul Conachi, sandy grassland 1♂, 1♀; *Eurydema (Eurydema) ornata* (Linnaeus, 1758): 29.05.2005. Măcin Mountains, hillside meadow 1♂, 1♀; 30.05.2005. Cetățuia, dry meadow 4♂♂, 2♀♀; 01.06.2005. Măcin Mountains (Pricopanu), hillside meadow 1♀;

**Table 1.** Zoogeographical distribution of the collected Heteroptera species. (Abbreviations: N–Number of species; %–percentage).

**1. táblázat:** A gyűjtött fajok állatföldrajzi elterjedése. (Rövidítések: N–fajszám; %–százalékos arány).

Zoogeographical distribution	N	%
Cosmopolitan	2	1.87
Holarctic	11	10.28
Palaeartic	20	18.69
Eurosiberian	12	11.22
South-Eurosiberian	4	3.74
West-Eurosiberian	1	0.93
West-Palaeartic	24	22.43
European	3	2.8
Holomediterranean	10	9.35
Euromediterranean	15	14.02
Pontomediterranean	5	4.67
Boreomontaneous	–	–
Total	107	100

- Graphosoma lineatum* (Linnaeus, 1758): 10.09.2004. Măcin Mountains, hillside meadow dominated by *Stipa* spp. 1♂, 1♀; 11.06.2006. Luncavița 1♀;
- Sciocoris sulcatus* Fieber, 1851: 31.05.2005 Slava Rusă (Mănăstirea Uspenia), hillside meadow 1♂; 04.06.2005. Hanul Conachi, sandy grassland 1♀;
- Palomena prasina* (Linnaeus, 1761): 11.06.2006. Luncavița 1♀;
- Staria lunata* (Hahn, 1835): 02.06.2005. Babadag, oak forest and clearings 1♂;

Although the sampling periods were short we collected several rare species (e.g. *C. teucarii*, *A. minutum*, *Ph. laciniata*) and a new plant bug species to the Romanian fauna. *L. adspersus* has a wide distribution in Europe and Asia. According to several studies (e.g. Kerzhner and Josifov 1999, Rédei 2006), *L. adspersus* is a valid species, although Demchenko (2004) suggests that *L. adspersus* is a synonym of *L. gemellatus*.

Most species were collected in the Măcin Mountains (68 species). Contrary to the high species number at Măcin Mountains, only 5 and 6 species were collected at Horia and at Lake Amara, respectively. The variance in the number of collected species at different sites could occur due to differences in sampling efforts per sites. Furthermore, Heteroptera assemblages have a seasonal variation in species composition, thus any conclusions regarding species richness or diversity of the sampling sites could be erroneous.

In spite of the fact that the number of collected species is far from the total species number of true bugs in Northern-Dobrogea, a brief zoogeographical analysis is given (Table 1). As it is expected, the proportion of Mediterranean and West Palaearctic species is relatively high in the region. The number of the widely distributed (e.g. Eurosiberian) species is relatively low. The lack of some taxa (eg. Dipsocoromorpha, Aradidae) is due to the fact that special sampling methods are required in their case. Furthermore, the species number of some taxa (eg. Tingidae, Miridae, etc.) is relatively low, presumably several additional species could occur.

### Acknowledgements

I am grateful to Miklós Bozsó, Dávid Fülöp, Róbert Gallé, Bálint Markó, Lujza Ujvárosi and István Urák for their help in the sampling. Special thanks to Lujza Ujvárosi and Bálint Markó for organizing the expeditions.

### References

- Benedek, P. (1969): *Poloskák – Heteroptera VII. Fauna Hungariae, vol. 17*, Akadémiai Kiadó, Budapest.
- Cantoreanu, M. (2007): *Ordinul Hemiptera*. In: Moldovan, O.T. (ed.): *Lista faunistică a României (specii terestre și de apă dulce)*. Casa Cărții De Știință, Cluj-Napoca, pp. 237–262.
- Demchenko, N. Yu. (2004): *Lygus adspersus* (Schilling, 1837) is a synonym of *L. gemellatus* (Herrich-Schaeffer, 1835) (Heteroptera: Miridae). *Zoosystematica Rossica*, 12: 225–226.
- Kerzhner, I. M., Josifov, M. (1999): *Cimicomorpha II. Miridae*. In: Aukema, B., Rieger, Chr. (eds): *Catalogue of the Heteroptera of the Palaearctic Region, vol. 2*, The Netherlands Entomological Society, Amsterdam.
- Kis, B. (1972): *Ord. Heteroptera. L'entomofaune du "grind" de Caraorman, Delta du Danube*. *Travaux du Muséum d'Histoire Naturelle "Grigore Antipa"*, 12: 131–139.
- Kis, B. (1976): *Ord. Heteroptera. L'entomofaune du nord de la Dobrogea, la zone Măcin-Tulcea-Niculitel*. *Travaux du Muséum d'Histoire Naturelle "Grigore Antipa"*, 17: 135–143.
- Kis, B. (1984): *Heteroptera: Pentatomoidea. Fauna Republicii Socialiste România, vol. 8, fasc. 8*, Editura Academiei Republicii Socialiste România, București.
- Kis, B. (2001): *Heteroptera: Coreoidea și Pyrrhocorioidea. Fauna României, vol. 8, fasc. 9*, Editura Academiei Române, București.
- Kis, B., Kondorosy, E. (1999): *Poloskák – Heteroptera IV. Fauna Hungariae, vol. 17*, Manuscript.
- Montandon, A.L. (1886): *Hémiptères – Hétéroptères de la Dobroudja*. *Revue d'Entomologie*, 5: 257–264.

- Negru, S. (1968): *Ord. Heteroptera In. L'entomofaune de l'île de Letea (Delta du Danube)*. Travaux du Muséum d'Histoire Naturelle "Grigore Antipa", 9: 123–125.
- Rédei, D. (2006): *Lygus adspersus* (Schilling, 1837), a New Plant Bug Species in the Fauna of Hungary (Heteroptera: Miridae). Acta Phytopathologica et Entomologica Hungarica, 41: 357–360.
- Sienkiewicz, I. (1962): *Heteroptere noi pentru fauna României*. Studii și Cercetări de biologie, Seria biologie animală, 14 (1): 79–88.
- Sienkiewicz, I. (1964): *The Catalogue of the "A.L. Montandon Collection" of Palearctic Heteroptera preserved in the "Grigore Antipa" Museum of Natural History, Bucharest*.
- Sienkiewicz, I., Paraschivescu, D. (1963): *Contributions to the study of the Heteroptera from the Dobrogea region*. Travaux du Muséum d'Histoire Naturelle "Grigore Antipa", 4: 230–237.
- Vásárhelyi, T. (1978): *Poloskák – Heteroptera V. Fauna Hungariae, vol. 17*, Akadémiai Kiadó Budapest.
- Wagner, E. (1967): *Wanzen oder Heteropteren II. Cimicomorpha*. In: *Die Tierwelt Deutschlands vol. 55*, Veb Gustav Fisher Verlag, Jena.
- Wagner, E. (1952): *Blindwanzen oder Miriden*. In: *Die Tierwelt Deutschlands vol. 41*, Verlag Von Gustav Fischer, Jena.

### **Adatok Dobrudzsa szárazföldi poloskafaunájának (Insecta: Heteroptera) ismeretéhez**

#### **Összefoglalás**

Jelen dolgozat a Babeş-Bolyai Egyetem, a Sapientia Egyetem és a Szegedi Tudományegyetem közös expedícióinak poloskákra vonatkozó faunisztikai eredményét közli. Összesen 17 családba tartozó 109 poloska fajt gyűjtöttünk be Észak-Dobrudzsában. A *Lygus adspersus* (Schilling, 1837) mezeipoloska új faj Románia faunájában.

