

CONTRIBUTION TO THE BUGS (HETEROPTERA) OF COASTAL ECOTONES OF THE BORISOGLEBSK ENVIRONS (VORONEZH REGION, RUSSIA)

A. M. Kondratyeva¹, E. V. Aksenenko² & V. A. Verteeva²

¹All-Russian Research Institute of Forest Genetics, Breeding and Biotechnology, Lomonosov str., 105, 394043, Voronezh, Russia

E-mail: knyuta_2007@mail.ru

²Voronezh State University, University sq., 1, 394006, Voronezh, Russia

E-mail: entoma@mail.ru

Kondratyeva A. M., Aksenenko E. V. & Verteeva V. A. Contribution to the bugs (Heteroptera) of coastal ecotones of the Borisoglebsk environs (Voronezh Region, Russia). List of 108 heteropteran species and 15 families of coastal ecotones of the Borisoglebsk environs (Voronezh Region) is provided. Materials are collected during 2010–2011. Areal of all species are provided.

Key words: Heteroptera, Voronezh Region, ecotones.

Кондратьева А. М., Аксёненко Е. В. и Вертева В. А. К изучению полужесткокрылых (Heteroptera) околотовидных экотонів окрестностей Борисоглебска (Воронежская область, Россия). Приводится список 108 видов и 15 семейств полужесткокрылых прибрежных экотонів окрестностей Борисоглебска (Воронежская область), собранных в 2010–2011 гг. Для каждого вида указан тип ареала.

Ключевые слова: Heteroptera, Воронежская область, экотоны.

Кондратьєва А. М., Аксьєненко Е. В. і Вертеєва В. А. До вивчення напівтвердокрилих (Heteroptera) навколотовидних екотонів околиць Борисоглєбська (Воронєзька область, Росія). Наведено список 108 видів і 15 сімейств напівтвердокрилих навколотовидних екотонів околиць Борисоглєбська (Воронєзька область), зібраних у 2010–2011 рр. Для кожного виду зазначений тип ареалу.

Ключевые слова: Heteroptera, Воронєзька область, екотони.

Introduction

Some species of Heteroptera were observed in the Borisoglebsk environs (the Voronezh Region) previously. Heteropteran complexes of shrubs and trees and above-ground inhabitants were studied in the Tellerman oakery (Borisoglebsk environs) (Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015). Also, some species of families Coreidae, Reduviidae and Rhopalidae we observed in coastal ecotones of the Borisoglebsk environs (Kondrateva et al., 2013; Aksenenko et al., 2014; Kondrateva et al., 2015). Despite this, the species diversity of coastal ecotones of Borisoglebsk environs studied is not enough.

Material and methods

More than 1600 specimens of Heteroptera were collected during 2010 and 2011 in ecotones of river

floodplains (the Koper River and the Vorona River) of the investigation territory. Most insects were collected on grasses, shrubs and trees by the method of entomological mowing. Species names and distribution given according to the Catalogue of the Palaearctic Heteroptera (Aukema & Rigier, 1995, 1996, 1999, 2001, 2006) and Catalogue of the Heteroptera of Asian part of Russia (Vinokurov et al., 2010). The areal types of species correspond to those proposed by A. F. Emeljanov (1974).

Results

108 heteropteran species of 15 families were revealed in coastal ecotones of the Borisoglebsk environs. A list of Heteroptera, species distribution and information on the species observation in the investigated territory are given below.

Saldidae Amyot & Serville, 1843

Saldinae Amyot & Serville, 1843

Saldoidini J. T. Polhemus, 1985

***Chartoscirta cincta* (Herrich-Schaeffer, 1841)**

Material examined. 4.07.2010, 1 specimen.

Distribution. Superatlantic; boreal-subtropical. Afrotropical Region.

***Saldula arenicola arenicola* (Scholtz, 1847)**

Material examined. 2–4.07.2010, 102 specimens; 12–14.08.2011, 8 specimens.

Distribution. Superatlantic; boreal-subtropical. Afrotropical Region.

***Saldula pallipes* (Fabricius, 1794)**

Material examined. 3–4.07.2010, 3 specimens.

Distribution. Holarctic; boreal-subtropical. Neotropical Region.

***Saldula palustris* (Douglas, 1874)**

Material examined. 2–3.07.2010, 6 specimens.

Distribution. Transpalaeartic; boreal-subtropical.

***Saldula saltatoria* (Linnaeus, 1758)**

Material examined. 2.07.2010, 3 specimens.

Distribution. Holarctic; subarctic-subboreal.

Nabidae A. Costa, 1853

Nabinae A. Costa, 1853

Nabini A. Costa, 1853

***Himacerus mirmicoides* (O. Costa, 1834)**

Material examined. 5.07.2010, 5 specimens.

Distribution. Panatlantic; boreal-subtropical.

***Himacerus apterus* (Fabricius, 1798)**

Literature. Svyatoduh, Golub, 2015.

Material examined. 5.07.2010, 1 specimen.

Distribution. Transpalaeartic; boreal-subtropical.

***Nabis limbatus* Dahlbom, 1851**

Literature. Svyatoduh, Golub, 2015.

Material examined. 2–4.07.2010, 35 specimens.

Distribution. Transpalaeartic; boreal-subboreal.

***Nabis ferus* (Linnaeus, 1758)**

Material examined. 2–4.07.2010, 32 specimens.

Distribution. Transpalaeartic; boreal-subtropical.

***Nabis pseudoferus pseudoferus* Remane, 1949**

Material examined. 13.08.2011, 2 specimens.

Distribution. Panatlantic; boreal-subtropical.

***Nabis punctatus punctatus* A. Costa, 1847**

Literature. Svyatoduh, Golub, 2015.

Material examined. 14.08.2011, 1 specimen.

Distribution. Panatlantic; boreal-subtropical.

***Nabis rugosus* (Linnaeus, 1758)**

Literature. Svyatoduh, Golub, 2015.

Material examined. 12–14.08.2011, 17 specimens.

Distribution. Superatlantic; subboreal.

Anthocoridae Fieber, 1836

Anthocorinae Fieber, 1836

Anthocorini Fieber, 1836

***Anthocoris limbatus* Fieber, 1836**

Material examined. 4.07.2010, 1 specimen.

Distribution. Superatlantic; boreal-subtropical.

***Anthocoris minki minki* Dohrn, 1860**

Literature. Golub, Svyatoduh, 2013.

Material examined. 5.07.2010, 4 specimens.

Distribution. Superatlantic; boreal-subboreal.

***Anthocoris nemorum* (Linnaeus, 1761)**

Literature. Golub, Svyatoduh, 2013.

Material examined. 5.07.2010, 1 specimen.

Distribution. Transpalaeartic; boreal-subtropical.

Orini Carayon, 1958

***Orius horvathi* (Reuter, 1884)**

Literature. Golub, Svyatoduh, 2013.

Material examined. 2–4.07.2010, 2 specimens.

Distribution. Superatlantic; boreal-subtropical.

***Orius majusculus* (Reuter, 1879)**

Literature. Golub, Svyatoduh, 2013.

Material examined. 4.07.2010, 1 specimen.

Distribution. Amphipaleartic; boreal-subtropical.

***Orius minutus* (Linnaeus, 1758)**

Literature. Golub, Svyatoduh, 2013.

Material examined. 2–4.07.2010, 89 specimens; 12–14.08.2011, 23 specimens.

Distribution. Holarctic; boreal-subtropical.

Orius niger* (Wolff, 1811)*Literature.** Svyatoduh, Golub, 2015.**Material examined.** 2–3.07.2010, 2 specimens; 12–14.08.2011, 141 specimens.**Distribution.** Transpalearctic; boreal-subtropical.**Miridae Hahn, 1833****Deraeocorinae Douglas & Scott, 1865****Deraeocorini Douglas & Scott, 1865*****Deraeocoris lutescens* (Schilling, 1837)****Literature.** Golub, Svyatoduh, 2013.**Material examined.** 4–5.07.2010, 16 specimens; 13–14.08.2011, 4 specimens.**Distribution.** Superatlantic; boreal-subtropical.**Mirinae Hahn, 1833****Mirini Hahn, 1833*****Adelphocoris lineolatus* (Goeze, 1778)****Material examined.** 2–4.07.2010, 7 specimens; 12–14.08.2011, 4 specimens.**Distribution.** Transpalearctic; boreal-subtropical.***Adelphocoris quadripunctatus* (Fabricius, 1794)****Material examined.** 1–5.07.2010, 63 specimens.**Distribution.** Transpalearctic; boreal-subtropical.***Agnocoris reicheli* (Fieber, 1836)****Literature.** Golub, Svyatoduh, 2013.**Material examined.** 4–5.07.2010, 3 specimens; 13.08.2011, 1 specimens.**Distribution.** Superatlantic; subboreal.***Adelphocoris seticornis* (Fabricius, 1775)****Material examined.** 2–4.07.2010, 3 specimens.**Distribution.** Superatlantic; boreal-subtropical.***Adelphocoris ticinensis* (Meyer-Dür, 1843)****Material examined.** 1.07.2010, 1 specimen.**Distribution.** Panatlantic; subboreal-subtropical.***Apolygus lucorum* (Meyer-Dür, 1843)****Material examined.** 1.07.2010, 5 specimens.**Distribution.** Transpalearctic; boreal-subtropical.
Introduced to North America.***Charagochilus gyllenhalii* (Fallén, 1807)****Material examined.** 3.07.2010, 1 specimen.**Distribution.** Superatlantic; boreal-subtropical.***Liocoris tripustulatus* (Fabricius, 1781)****Material examined.** 12.08.2011, 1 specimen.**Distribution.** Western Palearctic; boreal-subtropical.***Lygus gemellatus gemellatus* (Herrich-Schaeffer, 1835)****Material examined.** 2.07.2010, 6 specimens.**Distribution.** Transpalearctic; boreal-subtropical.***Lygus pratensis* (Linnaeus, 1758)****Material examined.** 1–5.07.2010, 37 specimens.**Distribution.** Superatlantic; boreal-subtropical.***Lygus rugulipennis* Poppius, 1911****Material examined.** 2.07.2010, 1 specimens; 12–14.08.2011, 4 specimens.**Distribution.** Holarctic; boreal-subtropical.***Phytocoris longipennis* Flor, 1861****Literature.** Golub, Svyatoduh, 2013.**Material examined.** 1–5.07.2010, 3 specimens.**Distribution.** Transpalearctic; boreal-subtropical.***Polymerus cognatus* (Fieber, 1858)****Material examined.** 3.07.2010, 1 specimen.**Distribution.** Holarctic; boreal-subtropical.***Polymerus unifasciatus* (Fabricius, 1794)****Material examined.** 2–4.07.2010, 3 specimens.**Distribution.** Holarctic; boreal-subtropical.***Polymerus nigrita* (Fallén, 1807)****Material examined.** 1–4.07.2010, 19 specimens.**Distribution.** Superatlantic; boreal-subboreal.**Stenodemini China, 1943*****Myrmecoris gracilis* (R. F. Sahlberg, 1848)****Material examined.** 2.07.2010, 1 specimen.**Distribution.** Superatlantic; boreal-subboreal.***Stenodema calcarata* (Fallén, 1807)****Material examined.** 1–4.07.2010, 15 specimens.**Distribution.** Transpalearctic; boreal-subtropical.***Stenodema trispinosa* Reuter, 1904****Material examined.** 1.07.2010, 1 specimen.**Distribution.** Holarctic; boreal-subboreal.***Stenodema laevigata* (Linnaeus, 1758)****Material examined.** 13.08.2011, 1 specimen.

Distribution. Panatlantic; boreal-subtropical.

Phylini Douglas & Scott, 1865

Trigonotylus caelestialium (Kirkaldy, 1902)

Material examined. 3–4.07.2010, 29 specimens; 12–14.08.2011, 23 specimens.

Distribution. Holarctic; boreal-subtropical.

Campylomma verbasici (Meyer-Dur, 1843)

Material examined. 13–14.08.2011, 10 specimens.

Distribution. Panatlantic; boreal-subtropical.

Orthotylinae Van Duzee, 1916 (1865)

Halticini A. Costa, 1853

Halticus apterus apterus (Linnaeus, 1758)

Material examined. 2–4.07.2010, 34 specimens.

Distribution. Transpalaeartic; boreal-subtropical. Introduced to North America.

Chlamydatus pullus (Reuter, 1870)

Literature. Golub, Svyatoduh, 2013.

Material examined. 3–4.07.2010, 2 specimens; 14.08.2011, 1 specimens.

Distribution. Holarctic; subarctic-subboreal.

Europiella artemisiae (Becker, 1864)

Material examined. 2–4.07.2010, 27 specimens.

Distribution. Holarctic; boreal-subtropical.

Halticus saltator (Geoffroy, 1785)

Material examined. 4.07.2010, 2 specimens.

Distribution. Panatlantic; subboreal-subtropical.

Megalocoleus tanacetii (Fallén, 1807)

Material examined. 1–4.07.2010, 30 specimens.

Distribution. Superatlantic; boreal-subtropical.

Orthotylini Van Duzee, 1916 (1865)

Monosynamma bohemani Fallén, 1829

Material examined. 3.07.2010, 1 specimen.

Distribution. Holarctic; boreal-subtropical.

Blepharidopterus angulatus (Fallén, 1807)

Literature. Golub, Svyatoduh, 2013.

Material examined. 5.07.2010, 1 specimen.

Distribution. Transpalaeartic; boreal-subtropical.

Plagiognathus arbustorum arbustorum (Fabricius, 1794)

Literature. Golub, Svyatoduh, 2013.

Material examined. 1–5.07.2010, 23 specimens.

Distribution. Transpalaeartic; boreal-subtropical. Introduced to North America.

Globiceps flavomaculatus (Fabricius, 1794)

Material examined. 1, 5.07.2010, 2 specimens.

Distribution. Superatlantic; boreal-subtropical.

Plagiognathus fulvipennis (Kirschbaum, 1856)

Material examined. 1–4.07.2010, 15 specimens.

Distribution. Panatlantic; subboreal-subtropical.

Orthotylus marginalis Reuter, 1883

Literature. Golub, Svyatoduh, 2013.

Material examined. 4.07.2010, 7 specimens.

Distribution. Superatlantic; boreal-subtropical.

Sthenarus rotermundi (Scholtz, 1847)

Literature. Golub, Svyatoduh, 2013.

Material examined. 4.07.2010, 6 specimens.

Distribution. Panatlantic; boreal-subboreal.

Phylinae Douglas & Scott, 1865

Tingidae Laporte, 1832

Pilophorini Douglas & Scott, 1876

Tinginae Laporte, 1832

Pilophorus clavatus (Linnaeus, 1767)

Material examined. 5.07.2010, 2 specimens.

Distribution. Holarctic; boreal-subtropical.

Agramma fallax Horvath, 1906

Material examined. 3.07.2010, 4 specimens; 14.08.2011, 3 specimens.

Distribution. Panatlantic; boreal-subboreal.

Pilophorus confusus (Kirschbaum, 1856)

Literature. Golub, Svyatoduh, 2013.

Material examined. 2–5.07.2010, 29 specimens; 12–14.08.2011, 3 specimens.

Distribution. Transpalaeartic; boreal-subtropical. Introduced to North America.

Derephysia longispina Golub, 1974

Material examined. 2–4.07.2010, 3 specimens.

Distribution. Western Palaeartic; subboreal.

Kalama tricornis* (Schrank, 1801)*Literature.** Svyatoduh, Golub, 2015.**Material examined.** 14.08.2011, 12 specimens.**Distribution.** Superatlantic; boreal-subtropical. Nearctic Region.***Stephanitis pyri* (Fabricius, 1775)****Literature.** Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015.**Material examined.** 5.07.2010, 5 specimens; 13.08.2011, 1 specimens.**Distribution.** Panatlantic; subboreal.***Tingis crispata* (Herrich-Schaeffer, 1838)****Material examined.** 14.08.2011, 1 specimen.**Distribution.** Transpalaeartic; boreal-subboreal.**Reduviidae Latreille, 1807****Emesinae Amyot & Serville, 1843****Ploiariolli Van Duzee, 1916*****Empicoris vagabundus* (Linnaeus, 1758)****Literature.** Golub, Svyatoduh, 2013; Aksenenko et al., 2014.**Material examined.** 5.07.2010, 1 specimen.**Distribution.** Holarctic; boreal-subtropical.**Harpactorinae Amyot & Serville, 1843****Harpactorini Amyot & Serville, 1843*****Rhynocoris annulatus* (Linnaeus, 1758)****Literature.** Golub, Svyatoduh, 2013; Aksenenko et al., 2014; Svyatoduh, Golub, 2015.**Material examined.** 12.08.2011, 1 specimen.**Distribution.** Superatlantic; boreal-subtropical.**Piesmatidae Amyot & Serville, 1843*****Piesma capitatum* (Wolff, 1804)****Material examined.** 3.07.2010, 1 specimens; 12–14.08.2011, 124 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.***Piesma maculatum* (Laporte, 1833)****Literature.** Svyatoduh, Golub, 2015.**Material examined.** 13–14.08.2011, 14 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.***Parapiesma quadratum* (Fieber, 1844)****Material examined.** 13.08.2011, 1 specimen.**Distribution.** Superatlantic; boreal-subtropical.**Lygaeidae Schilling, 1829****Lygaeinae Schilling, 1829*****Tropidothorax leucopterus* (Goeze, 1778)****Material examined.** 13–14.08.2011, 2 specimens.**Distribution.** Panatlantic; boreal-subtropical.**Orsillinae Stål, 1872****Nysiini Uhler, 1876*****Nysius ericae ericae* (Schilling, 1829)****Material examined.** 2.07.2010, 1 specimen.**Distribution.** Transpalaeartic; boreal-subtropical.***Nysius helveticus* (Herrich-Schaeffer, 1850)****Literature.** Svyatoduh, Golub, 2015.**Material examined.** 2.07.2010, 2 specimens; 14.08.2011, 2 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.***Nysius thymi thymi* (Wolff, 1804)****Material examined.** 2.07.2010, 1 specimen.**Distribution.** Holarctic; boreal-subtropical.**Orsillini Stål, 1872*****Ortholomus punctipennis* (Herrich-Schaeffer, 1838)****Material examined.** 2.07.2010, 1 specimen.**Distribution.** Transpalaeartic; boreal-subtropical.**Cyminae Baerensprung, 1860****Cymini Baerensprung, 1860*****Cymus aurescens* Distant, 1883****Material examined.** 3.07.2010, 8 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.***Cymus claviculus* (Fallén, 1807)****Material examined.** 2.07.2010, 2 specimens.**Distribution.** Superatlantic; boreal-subtropical.***Cymus glandicolor* Hahn, 1832****Material examined.** 3–4.07.2010, 3 specimens.**Distribution.** Superatlantic; boreal-subtropical.

Geocorinae Pahlbom, 1851

Geocoris ater (Fabricius, 1787)

Material examined. 14.08.2011, 1 specimen.

Distribution. Superatlantic; boreal-subtropical.

Geocoris dispar (Waga, 1839)

Material examined. 3.07.2010, 1 specimen.

Distribution. Superatlantic; boreal-subtropical.

Oxycareninae Stål, 1862

Microplax interrupta (Fieber, 1837)

Literature. Svyatoduh, Golub, 2015.

Material examined. 14.08.2011, 1 specimen.

Distribution. Panatlantic; subboreal-subtropical.

Oxycarenus pallens (Herrich-Schaeffer, 1850)

Material examined. 14.08.2011, 1 specimen.

Distribution. Western Palaearctic; boreal-subtropical.

Rhyparochrominae Amyot & Serville, 1843

Drymini Stål, 1872

Scolopostethus pilosus pilosus Reuter, 1875

Literature. Svyatoduh, Golub, 2015.

Material examined. 4.07.2010, 1 specimen.

Distribution. Western Palaearctic; boreal-subtropical.

Gonianotini Stål, 1872

Pterotmetus staphyliniformis (Schilling, 1829)

Material examined. 2.07.2010, 1 specimens; 12–14.08.2011, 4 specimens.

Distribution. Transpalaearctic; boreal-subtropical.

Megalonotini J. A. Slater, 1957

Sphragisticus nebulosus (Fallén, 1807)

Literature. Svyatoduh, Golub, 2015.

Material examined. 13.08.2011, 1 specimen.

Distribution. Transpalaearctic; boreal-subtropical.

Rhyparochromini Amyot & Serville, 1843

Rhyparochromus vulgaris (Schilling, 1829)

Literature. Svyatoduh, Golub, 2015.

Material examined. 12–14.08.2011, 10 specimens.

Distribution. Panatlantic; boreal-subtropical.

Stygnocoris rusticus (Fallén, 1807)

Literature. Svyatoduh, Golub, 2015.

Material examined. 13.08.2011, 1 specimen.

Distribution. Holarctic; boreal-subtropical.

Pyrrhocoridae Amyot & Serville, 1843

Pyrrhocoris apterus (Linnaeus, 1758)

Literature. Svyatoduh, Golub, 2015.

Material examined. 1–4.07.2010, 7 specimens.

Distribution. Western Palaearctic; boreal-subtropical.

Stenocephalidae Dallas, 1852

Dicranocephalus albipes (Fabricius, 1781)

Literature. Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015.

Material examined. 12.08.2011, 1 specimen.

Distribution. Panatlantic; subboreal-subtropical.

Coreidae Leach, 1815

Pseudophloeinae Stål, 1868

Pseudophloeini Stål, 1868

Ceraleptus gracilicornis (Herrich-Schaeffer, 1835)

Literature. Svyatoduh, Golub, 2015; Kondrateva et al., 2015.

Material examined. 2.07.2010, 2 specimens; 12.08.2011, 1 specimen.

Distribution. Western Palaearctic; subboreal-subtropical.

Coreinae Leach, 1815

Coreini Leach, 1815

Coreus marginatus marginatus (Linnaeus, 1758)

Literature. Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015; Kondrateva et al., 2015.

Material examined. 1–5.07.2010, 51 specimens; 12–14.08.2011, 58 specimens.

Distribution. Transpalaearctic; boreal-subtropical.

Enoplops scapha (Fabricius, 1794)

Literature. Svyatoduh, Golub, 2015.

Material examined. 13.08.2011, 2 specimens.

Distribution. Western Palaearctic; boreal-subtropical.

Alydidae Amyot & Serville, 1843**Alydinae Amyot & Serville, 1843***Alydus calcaratus* (Linnaeus, 1758)**Material examined.** 2.07.2010, 1 specimen.**Distribution.** Holarctic; boreal-subtropical.**Rhopalidae Amyot & Serville, 1843****Rhopalinae Amyot & Serville, 1843****Rhopalini Amyot & Serville, 1843***Brachycarenum tigrinus* (Schilling, 1829)**Literature.** Svyatoduh, Golub, 2015.**Material examined.** 12–14.08.2011, 12 specimens.**Distribution.** Superatlantic; boreal-subtropical.
Oriental Region. Introduced to North America.*Corizus hyoscyami hyoscyami* (Linnaeus, 1758)**Material examined.** 13–14.08.2011, 2 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.
Oriental Region.*Rhopalus parumpunctatus* Schilling, 1829**Literature.** Kondrateva et al., 2013; Svyatoduh, Golub, 2015.**Material examined.** 2.07.2010, 1 specimen; 12–14.08.2011, 2 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.*Stictopleurus abutilon* (Rossi, 1790)**Literature.** Kondrateva et al., 2013; Svyatoduh, Golub, 2015.**Material examined.** 4.07.2010, 2 specimens; 12–14.08.2011, 3 specimens.**Distribution.** Superatlantic; boreal-subtropical.*Stictopleurus punctatonervosus* (Goeze, 1778)**Material examined.** 13–14.08.2011, 4 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.**Chorosomatini Fieber, 1860***Myrmus miriformis miriformis* (Fallén, 1807)**Literature.** Kondrateva et al., 2013.**Material examined.** 2–4.07.2010, 26 specimens; 13.08.2011, 4 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.**Scutelleridae Leach, 1815****Eurygastrinae Amyot & Serville, 1843****Eurygastrini Amyot & Serville, 1843***Eurygaster integriceps* Puton, 1881**Literature.** Svyatoduh, Golub, 2015.**Material examined.** 13.08.2011, 1 specimen.**Distribution.** Western Palaearctic; boreal-subtropical.*Eurygaster testudinaria testudinaria* (Geoffroy, 1785)**Literature.** Svyatoduh, Golub, 2015.**Material examined.** 1–5.07.2010, 58 specimens; 12–14.08.2011, 13 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.**Pentatomidae Leach, 1815****Asopinae Amyot & Serville, 1843***Arma custos* (Fabricius, 1794)**Literature.** Svyatoduh, Golub, 2015.**Material examined.** 4.07.2010, 4 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.**Pentatominae Leach, 1815****Триба Aeliini Douglas & Scott, 1865***Aelia acuminata* (Linnaeus, 1758)**Literature.** Svyatoduh, Golub, 2015.**Material examined.** 2–4.07.2010, 5 specimens; 13–14.08.2011, 17 specimens.**Distribution.** Superatlantic; boreal-subtropical.*Neottiglossa leporina* (Herrich-Schaeffer, 1830)**Material examined.** 13–14.08.2011, 3 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.**Carpocorini Mulsant & Rey, 1866***Carpocoris purpureipennis* (De Geer, 1773)**Literature.** Golub, Svyatoduh, 2013.**Material examined.** 2.07.2010, 2 specimens; 12–14.08.2011, 9 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.*Dolycoris baccarum* (Linnaeus, 1758)**Literature.** Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015.**Material examined.** 1–4.07.2010, 3 specimens; 12–14.08.2011, 16 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.

Palomena prasina* (Linnaeus, 1761)*Literature.** Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015.**Material examined.** 1–5.07.2010, 80 specimens; 12–14.08.2011, 30 specimens.**Distribution.** Transpalaeartic; boreal-subtropical.***Palomena viridissima* Poda, 1761****Literature.** Golub, Svyatoduh, 2013.**Material examined.** 2.07.2010, 1 specimen.**Distribution.** Superatlantic; boreal-subtropical.**Pentatomini Leach, 1815*****Pentatoma rufipes* (Linnaeus, 1758)****Literature.** Golub, Svyatoduh, 2013; Svyatoduh, Golub, 2015.**Material examined.** 5.07.2010, 2 specimens.**Distribution.** Transpalaeartic; boreal-subtropical. Oriental Region.**Sciocorini Amyot & Serville, 1843*****Sciocoris microphthalmus* Flor, 1860****Material examined.** 13.08.2011, 1 specimen.**Distribution.** Holarctic; boreal-subtropical.***Sciocoris distinctus* Fieber, 1865****Literature.** Svyatoduh, Golub, 2015.**Material examined.** 3.07.2010, 1 specimen.**Distribution.** Transpalaeartic; boreal-subtropical.**Strachiini Mulsant & Rey, 1866*****Eurydema oleracea* (Linnaeus, 1758)****Literature.** Svyatoduh, Golub, 2015.**Material examined.** 1–4.07.2010, 3 specimens; 12–14.08.2011, 58 specimens.**Distribution.** Superatlantic; boreal-subtropical.***Eurydema ornata* (Linnaeus, 1758)****Literature.** Svyatoduh, Golub, 2015.**Material examined.** 1.07.2010, 1 specimen.**Distribution.** Superatlantic; boreal-subtropical.**Acknowledgements**

This investigation was supported by the Russian Foundation for Basic Research (Grant No. 14-04-31644-мол-а). The authors express their gratitude to Prof. V. B. Golub (Voronezh State University, Voronezh) and N. Yu. Svyatoduh (Borisoglebsk branch of Voronezh State University, Borisoglebsk) for help in organizing of these expeditions.

References

- Аксёненко, Е. В., Кондратьева, А. М. и Голуб, В. Б. (2014). Заметки к фауне и распространению клопов-хищнецов (Heteroptera: Reduviidae) Воронежской области (Россия). *Кавказский энтомологический бюллетень*, 10 (2), 205–206.
- Винокуров, Н. Н., Каникова, Е. В. и Голуб, В. Б. (2010). *Каталог полужесткокрылых насекомых (Heteroptera) азиатской части России*. Наука, Новосибирск, 1–320.
- Голуб, В. Б. и Святodух, Н. Ю. (2013). Видовой состав и доминанты комплексов полужесткокрылых (Heteroptera) древесно-кустарниковой растительности Теллермановской дубравы (Воронежская область). *Известия Санкт-Петербургской лесотехнической академии*, 205, 54–64.
- Емельянов А. Ф. (1974). Предложения по классификации и номенклатуре ареалов. *Энтомологическое обозрение*, 53 (3), 497–522.
- Кондратьева, А. М., Голуб, В. Б. и Аксёненко, Е. В. (2013). Полужесткокрылые семейства Rhopalidae (Heteroptera) прибрежных экотонів юго-востока среднерусской лесостепи. *Фундаментальные исследования*, 10 (14), 3098–3101.
- Святodух, Н. Ю. и Голуб, В. Б. (2015). Экологические комплексы полужесткокрылых (Heteroptera) в составе герпетобия Теллермановской дубравы (Воронежская область). *Известия Санкт-Петербургской лесотехнической академии*, 211, 105–118.
- Aukema B. & Rigier Chr. (eds). (1995). Catalogue of the Heteroptera of the Palaearctic Region. The Netherlands Entomological Society, Amsterdam, Vol. 1, 1–222.
- Aukema B. & Rigier Chr. (eds). (1996). Catalogue of the Heteroptera of the Palaearctic Region. The Netherlands Entomological Society, Amsterdam, Vol. 2, 1–361.
- Aukema B. & Rigier Chr. (eds). (1999). Catalogue of the Heteroptera of the Palaearctic Region. The Netherlands Entomological Society, Amsterdam, Vol. 3, 1–577.
- Aukema B. & Rigier Chr. (eds). (2001). *Catalogue of the Heteroptera of the Palaearctic Region*. The Netherlands Entomological Society, Amsterdam, Vol. 4, 1–346.
- Aukema B. & Rigier Chr. (eds). (2006). Catalogue of the Heteroptera of the Palaearctic Region. The Netherlands Entomological Society, Amsterdam, Vol. 5, 1–550.
- Kondratyeva, A. M., Golub, V. B. & Aksenenko, E. V. (2015). Contribution to the coreid bugs (Heteroptera, Coreidae) of coastal ecotones of the Middle-Russian Wood-and-Steppe. *Українська ентомофауністика*, 6 (1), 51–53.