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NEW RECORDS OF LEAFHOPPERS AND PLANTHOPPERS OF SLOVENIA (HEMIPTERA: AUCHENORRHYNCHA)

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Abstract - As a result of several sampling excursions in the year 2001, 40 species of 3 families are added to the list of the Auchenorrhyncha species of Slovenia. This increases the number of species recorded from Slovenia to 418.

KEY WORDS: Auchenorrhyncha, new records, leafhopper and planthopper, Slovenia, host plants

Izvleček – NOVI PODATKI O ŠKRŽATKIH SLOVENIJE (HEMIPTERA: AUCHENORRHYNCHA)

40 vrst iz treh družin, zbranih med več nabiralnimi izleti v letu 2001, je dodanih seznamu škržatkov (Auchenorrhyncha) Slovenije. To povečuje število v Sloveniji znanih vrst na 418.

KLJUČNE BESEDE: Auchenorrhyncha, novi podatki, škržatki, Slovenija, hranilne rastline

Introduction

The Auchenorrhyncha fauna of Slovenia is still comparatively poorly known. An important contribution achieved already Gabrijel Seljak and Werner Holzinger, who published a list of the Auchenorrhyncha species of Slovenia (Holzinger & Seljak 2001).

In the framework of an investigation on arboricolous Auchenorrhyncha species of Slovenian trees and shrubs (diploma thesis of Holger Löcker, in preparation) 16 sampling excursions (altogether 52 days) were done between 17th April and 15th October 2001. 53 plant species at 71 different locations were investigated by sweep-net sampling. As a result, 40 species were recorded as new for Slovenia. These species are listed below.

Results

Cixiidae Spinola, 1839

Cixius (Orinocixius) heydenii Kirschbaum, 1868

1 km NE Dragonja (N 45° 27' 58.6"; E 13° 39' 57.9"), 1 male and 3 females on *Quercus pubescens*, 18.4.2001; 0.5 km NE Radenci (N 46° 38' 48.8"; E 16° 02' 52.1"), 6 males and 7 females on *Quercus pubescens*, 18.4.2001; 0.5 km E Socerb (Kastelec) (N 45° 35' 24.4"; E 13° 51' 55.9"), 2 males on *Juniperus communis*, 18.4.01

Aphrophoridae Amyot & Serville, 1843

Aphrophora corticea Germar, 1821

0.3 km N Hudičevac (N 45° 45' 35.5"; E 14° 04' 57.4"), 2 females on *Salix purpurea*, 25.6.01

Aphrophora major Uhler, 1896 (*A. alpina* Melichar, 1900)

0.3 km N Hudičevac (N 45° 45' 35.5"; E 14° 04' 57.4"), 1 female on *Salix aurita*, 11.9.01

Cicadellidae Latreille, 1825

Macropsis fuscinervis (Boheman, 1845)

Cerkniško jezero 1.7 km NW Otok (N 45° 44' 42.7"; E 14° 22' 22.7"), 2 males, 1 female on *Populus tremula*, 25.6.01

Macropsis gravesteini Wagner, 1953

D. Počehova (N 46° 35' 46.9"; E 15° 39' 58.3"), 1 female on *Populus nigra*, 27.6.01, 1 male and 2 females on *Salix alba*, 27.6.01

Macropsis haupti Wagner, 1941

1 km NE Dragonja (N 45° 27' 58.6"; E 13° 39' 57.9"), 1 female on *Salix purpurea*, 21.6.01; Cerkniško jezero: 1.7 km NW Otok (N 45° 44' 42.7"; E 14° 22' 22.7"), 2 males on *Salix purpurea*, 25.6.01; 0.3 km N Hudičevac (N 45° 45' 35.5"; E 14° 04' 57.4"), 1 male and 1 female on *Salix purpurea*, 25.6.01; 0.5 km S Sp. Kungota (N

46° 36' 31.7''; E 15° 38' 56.9''), 2 males on *Salix purpurea*, 27.6.01; Slap Boka 1.8 km NE Žaga (N 46° 19' 02.8''; E 13° 29' 45.9''), 9 females on *Salix purpurea*, 23.7.01; 1.5 km NW Srpenica (N 46° 17' 38.8''; E 13° 29' 30.3''), 1 female on *Salix purpurea*, 24.7.01

Macropsis najas Nast, 1981

0.3 km N Hudičevce (N 45° 45' 35.5''; E 14° 04' 57.4''), 1 female on *Salix alba*, 25.6.01

Macropsis notata (Prohaska, 1923)

0.5 km S Sp. Kungota (N 46° 36' 31.7''; E 15° 38' 56.9''), 1 female on *Salix triandra*, 27.6.01

Macropsis scutellata (Boheman, 1845)

1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 1 female on *Sambucus nigra*, 12.7.01

Metidiocerus rutilans Kirschbaum, 1868

0.5 km N Tržišče (N 45° 58' 51.7''; E 15° 14' 01.5''), 1 female on *Salix caprea*, 19.5.01; 5.4 km NE Kočevje (N 45° 41' 46.8''; E 14° 52' 50.1''), 1 female on *Populus tremula*, 20.5.01; 2 km NE Brezno (Potočnikov potok) (N 46° 36' 57.6''; E 15° 20' 03.4''), 1 female on *Salix caprea*, 24.5.01; D. Počehova (N 46° 35' 46.9''; E 15° 39' 58.3''), 5 males and 3 females on *Salix caprea*, 27.6.01; 0.5 km N Radlje (N 46° 37' 16.4''; E 15° 13' 00.0''), 1 female on *Salix caprea*, 24.5.01; 1 female on *Cornus sanguinea*, 13.6.01; 1 male on *Salix fragilis*, 13.7.01

Tremulicerus tremulae (Estlund, 1796)

0.5 km SE Ribnica na Pohorju (N 46° 32' 09.4''; E 15° 16' 58.7''), 1 male and 1 female on *Populus tremula*, 20.9.01; 5.4 km NE Kočevje (N 45° 41' 46.8''; E 14° 52' 50.1''), 1 female on *Populus tremula*, 7.10.01

Tremulicerus vitreus (Fabricius, 1803) sensu Ribaut, 1952

D. Počehova (N 46° 35' 46.9''; E 15° 39' 58.3''), 1 female on *Populus nigra*, 27.6.01

Balcanocerus pruni Ribaut, 1952

Ledenica, 2.5 km S Divača (N 45° 39' 52.3''; E 13° 58' 20.8''), 1 female on *Prunus spinosa*, 17.4.01; 0.7 km N Kubed (N 45° 32' 29.3''; E 13° 52' 20.9''), 1 female on *Prunus spinosa*, 6.10.01; 0.5 km NW Lopar (N 45° 30' 39.9''; E 13° 49' 25.4''), 1 female on *Prunus spinosa*, 6.10.01

Iassus mirabilis Orosz, 1979

1 km NE Dragonja (N 45° 27' 58.6''; E 13° 39' 57.9''), 1 male and 3 females on *Ulmus minor*, 21.6.01

***Alebra viridis* Rey, 1824**

1 km S Dražgoše (N 46° 14' 52.1''; E 14° 11' 28.8''), 1 female on *Fagus sylvatica*, 24.7.01; 0.7 km NE Petrinje (N 45° 34' 50.5''; E 13° 54' 47.2''), 1 male and 2 females on *Quercus cerris*, 12.9.01

***Alebra coryli* Le Quesne, 1976**

1 km N Strunjan (N 45° 32' 15.3''; E 13° 36' 25.0''), 1 female on *Ulmus minor*, 22.6.01; W Šembijška bajta (Nanos) (N 45° 47' 49.7''; E 14° 00' 34.3''), 1 female on *Corylus avellana*, 11.09.01

***Forcipata major* (Wagner, 1948)**

1.5 km SE Idsko (N 46° 13' 06.4''; E 13° 36' 40.8''), 1 male on *Salix eleagnos*, 10.9.01

***Empoasca apicalis* (Flor, 1861)**

0.5 km N Podkoren (N 46° 29' 54.8''; E 13° 45' 43.8''), 1 male on *Acer pseudoplatanus*, 23.7.01

***Empoasca ossiannilssoni* Nuorteva, 1948**

0.5 km N Radlje (N 46° 37' 16.4''; E 15° 13' 00.0''), 1 male on *Acer campestre*, 13.7.01; 2 males on *Alnus incana*, 13.7.01, 1 male on *Salix caprea*, 13.7.01, 3 males on *Ulmus glabra*, 13.7.01; 1.5 km N Radlje (N 46° 37' 18.1''; E 15° 12' 56.6''), 1 male on *Salix alba*, 13.7.01; 0.5 km N Podkoren (N 46° 29' 54.8''; E 13° 45' 43.8''), 1 male on *Corylus avellana*, 23.7.01

***Edwardsiana ampliata* (Wagner, 1947)**

0.7 km SW Jelovec (N 45° 59' 29.6''; E 15° 15' 32.3''), 1 male on *Acer campestre*, 19.5.01; 1.2 km N Mokronog (N 45° 57' 09.0''; E 15° 09' 05.9''), 2 males on *Carpinus betulus*, 19.5.01; 1.2 km SE Žužemberk (N 45° 49' 46.5''; E 14° 56' 33.6''), 1 male on *Quercus robur*, 19.5.01; 3 km N Jančeva Gora (N 46° 34' 15.1''; E 15° 27' 32.5''), 1 male on *Castanea sativa*, 24.5.01; 0.5 km SE Ribnica na Pohorju (N 46° 32' 09.4''; E 15° 16' 58.7''), 1 male on *Frangula alnus*, 24.5.01; Škocjanski grič (W Cerknjško jezero) (N 45° 47' 28.3''; E 14° 17' 42.4''), 1 male on *Carpinus betulus*, 25.6.01; 1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 2 males on *Ulmus laevis*, 12.7.01; 0.5 km N Radlje (N 46° 37' 16.4''; E 15° 13' 00.0''), 1 male on *Ulmus glabra*, 13.7.01, 1 male on *Alnus incana*, 13.7.01

***Edwardsiana avellanae* (Edwards, 1888)**

Podraška bajta (Nanos) (N 45° 47' 29.9''; E 14° 01' 33.1''), 1 male on *Corylus avellana*, 24.6.01, 1 male on *Rhamnus* sp., 11.9.01; 1 km W Grmada (Nanos) (N 45° 47' 09.2''; E 14° 01' 50.4''), 3 males on *Ostrya carpinifolia*, 24.6.01; Škocjanski grič (W Cerknjško jezero) (N 45° 47' 28.3''; E 14° 17' 42.4''), 2 males on *Corylus avellana*, 25.6.01; 0.3 km N Hudičevce (N 45° 45' 35.5''; E 14° 04' 57.4''), 1 male on *Alnus*

glutinosa, 25.6.01; 0.5 km N Radlje (N 46° 37' 16.4''; E 15° 13' 00.0''), 1 male on *Cornus sanguinea*, 13.7.01, 3 males on *Corylus avellana*, 13.7.01, 1 male on *Corylus avellana*; 20.9.01, 1 male on *Salix fragilis*; 20.9.01; W Šembijška bajta (Nanos) (N 45° 47' 49.7''; E 14° 00' 34.3''), 2 males on *Ostrya carpinifolia*, 11.9.01, 1 male on *Prunus mahaleb*, 18.9.01, 1 male on *Corylus avellana*, 11.9.01

Edwardsiana gratiosa (Boheman, 1952)

0.6 km W Brje pri Komnu (N 45° 47' 08.9''; E 13° 43' 24.4''), 2 females on *Cornus sanguinea*, 22.6.01; 1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 1 female on *Alnus glutinosa*, 12.7.01; 0.5 km N Podkoren (N 46° 29' 54.8''; E 13° 45' 43.8''), 1 female on *Fraxinus excelsior*, 23.7.01; 0.3 km N Hudičevcevec (N 45° 45' 35.5''; E 14° 04' 57.4''), 2 females on *Alnus glutinosa*, 11.9.01

Edwardsiana nigriloba (Edwards, 1924)

S Tkalca jama (N 45° 47' 32.3''; E 14° 17' 15.8''), 1 male on *Acer pseudoplatanus*, 22.6.01

Edwardsiana plebeja (Edwards, 1914)

0.5 km E Kubed (N 45° 32' 28.2''; E 13° 52' 17.4''), 1 male on *Ulmus minor*, 27.5.01; 0.6 km N Kortine (N 45° 32' 34.7''; E 13° 51' 30.0''), 1 male on *Ulmus minor*, 27.5.01; 1 km NE Dragonja (N 45° 27' 58.6''; E 13° 39' 57.9''), 1 male on *Ulmus minor*, 21.6.01; 1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 2 males on *Ulmus laevis*, 12.7.01

Edwardsiana plurispinosa Wagner, 1935

1.2 km SE Žužemberk (N 45° 49' 46.5''; E 14° 56' 33.6''), 1 male on *Corylus avellana*, 19.5.01; Škocjanski grič (W Cerkniško jezero) (N 45° 47' 28.3''; E 14° 17' 42.4''), 1 male on *Salix caprea*, 25.6.01, 1 male on *Prunus padus*, 25.6.01; Hudičevcevec (N 45° 45' 35.7'' E 14° 04' 56.8''), 1 male on *Tilia cordata*, 27.6.01; 0.5 km N Radlje (N 46° 37' 16.4''; E 15° 13' 00.0''), 1 male on *Corylus avellana*, 13.7.01

Edwardsiana sociabilis (Ossiannilsson, 1936)

Škocjanski grič (W Cerkniško jezero) (N 45° 47' 28.3''; E 14° 17' 42.4''), 1 male on *Fagus sylvatica*, 25.6.01

Edwardsiana spinigera (Edwards, 1924)

Cerkniško jezero 1.7 km NW Otok (N 45° 44' 42.7''; E 14° 22' 22.7''), 1 male on *Corylus avellana*, 25.6.01; 0.5 km N Radlje (N 46° 37' 16.4''; E 15° 13' 00.0''), 2 males on *Corylus avellana*, 13.7.01; 1.5 km N Radlje (N 46° 37' 18.1''; E 15° 12' 56.6''), 1 male on *Salix alba*, 13.7.01

Edwardsiana staminata (Ribaut, 1931)

1.5 km NE Črni kal (N 45° 34' 41.7''; E 13° 54' 43.5''), 1 male on *Ulmus laevis*, 27.5.01; 1 km W Grmada (Nanos) (N 45° 47' 09.2''; E 14° 01' 50.4''), 1 male on *Ostrya carpinifolia*, 24.6.01; Škocjanski grič (W Cerknško jezero) (N 45° 47' 28.3''; E 14° 17' 42.4''), 1 male on *Salix caprea*, 25.6.01; 0.5 km N Podkoren (N 46° 29' 54.8''; E 13° 45' 43.8''), 1 male on *Corylus avellana*, 23.7.01; 1.7 km E Podbreg (Nanos) (N 45° 47' 35.8''; E 14° 00' 10.9''), 1 male on *Ostrya carpinifolia*, 11.9.01; W Šembijska bajta (Nanos) (N 45° 47' 49.7''; E 14° 00' 34.3''), 3 males on *Corylus avellana*, 11.9.01, 3 males on *Ostrya carpinifolia*, 11.9.01, 1 male on *Corylus avellana*, 24.6.01; Podraška bajta (Nanos) (N 45° 47' 29.9''; E 14° 01' 33.1''), 1 male on *Ostrya carpinifolia*, 11.9.01, 1 male on *Juniperus communis*, 11.9.01, 1 male on *Corylus avellana*, 24.6.01; 1.5 km N Radlje (N 46° 37' 18.1''; E 15° 12' 56.6''), 1 male on *Corylus avellana*, 20.9.01, 1 male on *Salix aurita*, 20.9.01

Linnavuoriana decempunctata (Fallén, 1806)

0.5 km N Tržišče (N 45° 58' 51.7''; E 15° 14' 01.5''), 1 female on *Populus tremula*, 19.5.01; 1 km NE Dragonja (N 45° 27' 58.6''; E 13° 39' 57.9''), 1 male and 1 female on *Ulmus minor*, 21.6.01; 0.5 km N Podkoren (N 46° 29' 54.8''; E 13° 45' 43.8''), 1 male on *Alnus incana*, 9.9.01

Ribautiana alces (Ribaut, 1931)

0.5 km E Socerb (Kastelec) (N 45° 35' 24.4''; E 13° 51' 55.9''), 1 male on *Quercus cerris*, 26.6.01; 1.7 km E Podbreg (Nanos) (N 45° 47' 35.8''; E 14° 00' 10.9''), 2 females on *Quercus pubescens*, 24.6.01

Ribautiana cruciata (Ribaut, 1931)

1.5 km NE Črni kal (N 45° 34' 41.7''; E 13° 54' 43.5''), 6 males on *Ulmus minor*, 27.5.01, 1 female on *Ulmus laevis*, 27.5.01; 0.6 km N Kortine (N 45° 32' 34.7''; E 13° 51' 30.0''), 10 males on *Ulmus minor*, 27.5.01; 1.2 km W Tinjan (N 45° 33' 35.1''; E 13° 49' 28.7''), 2 females on *Ulmus minor*, 27.5.01; 1 km NE Dragonja (N 45° 27' 58.6''; E 13° 39' 57.9''), 2 females on *Ulmus minor*, 21.6.01; 1 km N Strunjan (N 45° 32' 15.3''; E 13° 36' 25.0''), 5 males and 2 females on *Ulmus minor*, 22.6.01; 0.7 km NE Petrinje (N 45° 34' 50.5''; E 13° 54' 47.2''), 6 females on *Ulmus minor*, 26.6.01, 1 female on *Ulmus minor*, 12.9.01; Škrklovica, 3 km NW Petrinje (N 45° 34' 49.4''; E 13° 53' 21.7''), 1 male on *Ulmus minor*, 6.10.01; 0.5 km E Socerb (Kastelec) (N 45° 35' 24.4''; E 13° 51' 55.9''), 1 male and 1 female on *Quercus pubescens*, 26.6.01

Aguriahana stellulata (Burmeister, 1841)

1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 1 male on *Quercus robur*, 12.7.01

Zygina tiliae (Fallén, 1806)

0.5 km NE Radenci (N 46° 38' 48.8''; E 16° 02' 52.1''), 1 male on *Prunus padus*, 30.4.01; 0.5 km N Podkoren (N 46° 29' 54.8''; E 13° 45' 43.8''), 1 male on *Salix eleagnos*, 14.5.01; 6.5 km W Žiče (N 46° 18' 40.8''; E 15° 23' 29.6''), 1 male on *Carpinus betulus*, 15.5.01; 0.5 km SE Ribnica na Pohorju (N 46° 32' 09.4''; E 15° 16' 58.7''), 1 male on *Frangula alnus*, 24.5.01; 1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 1 female on *Alnus glutinosa*, 12.7.01

Zygina griseombra Remane, 1994

1.2 km N Mokronog (N 45° 57' 09.0''; E 15° 09' 05.9''), 1 female on *Crataegus monogyne*, 19.5.01; 0.5 km E Trnovo ob Soči (N 46° 17' 31.8''; E 13° 33' 51.9''), 1 male on *Salix caprea*, 24.7.01; 1.5 km N Radlje (N 46° 37' 18.1''; E 15° 12' 56.6''), 1 male on *Corylus avellana*, 20.9.01; 3 km N Jančeva gora (N 46° 34' 15.1''; E 15° 27' 32.5''), 1 male on *Carpinus betulus*, 20.9.01; 0.8 km S Lašče (N 45° 47' 05.6''; E 14° 56' 42.9''), 1 male on *Fagus sylvatica*, 7.10.01; 1 km E Tržišče (N 45° 57' 43.7''; E 15° 12' 36.8''), 1 female on *Carpinus betulus*, 7.10.01

Zygina suavis Rey, 1891 sensu Ossiannilsson, 1981

0.5 km SE Ribnica na Pohorju (N 46° 32' 09.4''; E 15° 16' 58.7''), 1 female on *Frangula alnus*, 20.9.01; 1 km NE Dragonja (N 45° 27' 58.6''; E 13° 39' 57.9''), 1 male on *Crataegus monogyne*, 6.10.01

Arboridia velata (Ribaut, 1952)

0.5 km NE Radenci (N 46° 38' 48.8''; E 16° 02' 52.1''), 1 male on *Carpinus betulus*, 30.4.01; 1.8 km SW Tišina (N 46° 38' 50.5''; E 16° 04' 55.9''), 5 males on *Quercus robur*, 12.7.01; 1 km E Tržišče (N 45° 57' 43.7''; E 15° 12' 36.8''), 1 males on *Castanea sativa*, 7.10.01; 0.5 km NE Radenci (N 46° 38' 48.8''; E 16° 02' 52.1''), 1 female on *Quercus robur*, 15.10.01

Grypotes staurus Ivanoff, 1885

1 km N Strunjan (N 45° 32' 15.3''; E 13° 36' 25.0''), 1 male on *Coronilla emerus*, 22.6.01, 1 male on *Ficus carica*, 22.6.01

Balclutha rhenana Wagner, 1939

0.5 km NE Radenci (N 46° 38' 48.8''; E 16° 02' 52.1''), 1 female on *Quercus robur*, 30.4.01; Cerknjsko jezero 2 km S D. Jezero (N 45° 45' 43.2''; E 14° 21' 42.7''), 1 male on *Salix fragilis*, 6.10.01

Macrosteles sardus Ribaut, 1948

0.3 km N Hudíčevac (N 45° 45' 35.5''; E 14° 04' 57.4''), 1 male on *Salix aurita*, 11.9.01

Colladonus torneellus (Zetterstedt, 1828)

Koča pri izviru Soče (Soška pot) (N 46° 24' 30.7''; E 13° 43' 45.8''), 1 female on *Juniperus communis*, 14.5.01

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