

Insecta Hemiptera collected in the Mont Avic Natural Park (Aosta Valley, Northwest Italy)

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Abstract

The results are given of the Hemiptera collection excursions in the Mont Avic Natural Park (Aosta Valley, NW Italy) that took place during the 4th European Hemiptera Congress held in Ivrea in September 2007. Altogether 126 species of Heteroptera, belonging to 89 genera, 108 species of Auchenorrhyncha, belonging to 75 genera, and 30 species of Sternorrhyncha Psyllomorpha, belonging to 8 genera were collected at the four different elevation sites of Capoluogo-Tendeur (500-600 m a.s.l.), Chevrère (1200-1400 m a.s.l.), Dondena (2100-2300 m a.s.l.), and Miserin (2588 m a.s.l.). Of these species, 2 were new records for Italy: the Mirid *Lygus maritimus* and the Cicadellid *Edwardsiana ishidai*. New records for Italy are also the Pipunculid Dipteran *Tomosvaryella freidbergi* and the Halictophagid Strepsipteran *Halictophagus languedoci*, parasitoids of Auchenorrhyncha.

Key words: Hemiptera, Western Alps

INTRODUCTION

During the 4th European Hemiptera Congress, Hemiptera specialists carried out collecting activity at some sites of the Mont Avic Natural Park on 13th September 2007. The results of this collecting activity in Piedmont are presented here. As the collecting was carried out without any standardised methods, no ecological considerations are made, but only a list of species is given as a contribution to the Hemiptera fauna of Mont Avic and of the Aosta Valley. The voucher specimens are located in the institutional or private collections of the authors.

RESULTS

1 – CAPOLUOGO-TENDEUR, m 500-600 (CHAMPDEPRAZ) E395554 N5060583
This site is characterized by terraces exposed to the south-east, once cultivated and then abandoned. This dry and sunny site was partially filled with a xerothermophilous thick-

et with representative species of the Berberidion and of the Downy Oak wood: *Quercus pubescens*, *Pinus sylvestris* (isolated specimens), *Ulmus minor*, *Colutea arborescens*, *Coronilla emerus*, *Lonicera etrusca*, *Prunus spinosa*, *Prunus mahaleb*, *Hedera helix*, *Ligustrum vulgare*, *Rosa* sp.). There are also areas in which xerothermophilous prairies prevail, which are dominated by grasses. On the many dry-stone walls one can see *Ceterach officinarum*, *Sedum telephium*, and *Sedum montanum*.

HETEROPTERA

CIMICOMORPHA

Anthocoridae

Anthocoris gallarumulmi (De Geer) 1 ♀
Anthocoris nemorum (Linnaeus) many adults
Orius (*Orius*) *niger* Wolff, many adults
Orius gr. *minutus* (Linnaeus) many adults

Nabidae

Himacerus (*Aptus*) *mirmicoides* (O.C. Costa) 2 ♀ ♀
Himacerus (*Himacerus*) *apterus* (Fabricius) 1 ♂ 2 ♀ ♀
Nabis gr. *ferus* (Linnaeus) many adults
Nabis (*Nabis*) *rugosus* (Linnaeus) many adults

Miridae

Deraeocoris (*Camptobrochis*) *punctulatus* (Fallén) not counted
Deraeocoris (*Camptobrochis*) *serenus* Douglas & Scott 3 ♂ ♂
Europiella artemisiae (Becker) 2 ♂ ♂ 1 ♀
Lygus maritimus Wagner 1 ♂
Orthops (*Orthops*) *kalmi* (Linnaeus) not counted

Phymatidae

Phymata (*Phymata*) *crassipes* (Fabricius) 2 ♂ ♂ 3 ♀ ♀

Reduviidae

Rhynocoris iracundus (Poda) 1 ♂ 6 ♀ ♀

Tingidae

Catoplatus carthusianus (Goeze) 2 ♂ ♂
Copium clavicorne (Linnaeus) 1 ♂ 4 ♀ ♀
Dictyla echii (Schrank) many adults
Lasiacantha capucina (Germar) 1 ♂ 1 ♀
Tingis (*Tingis*) *cardui* (Linnaeus) 4 ♀ ♀
Tingis (*Tropidocheila*) *reticulata* Herrich-Schäffer 1 ♂

PENTATOMOMORPHA

Alydidae

Camptopus lateralis (Germar) 2 ♂ ♂ 5 ♀ ♀

Coreidae*Centrocoris variegatus* Kolenati, 3♂♂ 4♀♀*Coriomeris* spp. many adults**Rhopalidae***Rhopalus (Rhopalus) conspersus* (Fieber) 3♂♂ 5♀♀*Rhopalus (Rhopalus) parumpunctatus* Schilling, many adults*Rhopalus (Rhopalus) subrufus* (Gmelin) not counted*Stictopleurus abutilon* (Rossi) not counted*Stictopleurus punctatonervosus* (Goeze) not counted**Stenocephalidae***Dicranocephalus agilis* (Scopoli) 1♂ 1♀**Lygaeidae***Aellopus atratus* (Goeze) 1♂ 1♀*Aphanus rolandri* (Linnaeus) 2♂♂ 4♀♀*Emblethis* spp. many adults*Geocoris (Piocoris) erythrocephalus* (Le Peletier & Serville) 4♂♂ 6♀♀*Graptopeltus lynceus* (Fabricius) 3♂♂ 4♀♀*Heterogaster artemisiae* Schilling 3♂♂ 2♀♀*Lygaeosoma sardeum sardeum* Spinola 3♂♂ 1♀*Lygaeus equestris* (Linnaeus) / *simulans* Deckert, many adults*Melanocoryphus albomaculatus* (Goeze) 2♂♂ 1♀*Nysius* spp. many adults*Oxycarenus (Euoxycarenus) pallens* (Herrich-Schäffer) many adults*Platyplax salviae* (Schilling) many adults*Rhyparochromus (Xanthochilus) quadratus* (Fabricius) 2♂♂ 2♀♀*Spilostethus pandurus pandurus* (Scopoli) 1♀*Spilostethus saxatilis* (Scopoli) not counted*Tropidothorax leucopterus* (Goeze) 2♂♂ 5♀♀**Cydnidae***Tritomegas bicolor* (Linnaeus) many adults**Pentatomidae***Aelia acuminata* (Linnaeus) many adults*Ancyrosoma leucogrammes* (Gmelin) many adults*Antheminia lunulata* (Goeze) 2♂♂ 4♀♀*Carpocoris (Carpocoris) purpureipennis* (De Geer) many adults*Carpocoris pudicus* (Poda) 1♀*Dolycoris baccarum* (Linnaeus) many adults*Eurydema (Eurydema) ornatum* (Linnaeus) many adults*Eurydema (Rubrodorsalium) dominulum* (Scopoli) 1♂*Eurydema (Rubrodorsalium) ventrale* Kolenati, 2♂♂ 1♀*Graphosoma lineatum* (Linnaeus) many adults*Nezara viridula* (Linnaeus) many adults

Palomena prasina (Linnaeus) many adults

Palomena viridissima (Poda) 2♀♀

Pentatoma rufipes (Linnaeus) 1♂

Sciocoris spp. many adults

Stagonomus bipunctatus (Linnaeus) 2♂♂ 2♀♀

Staria lunata (Hahn) 5♂♂ 4♀♀

Plataspidae

Coptosoma scutellatum (Geoffroy) many adults

Scutelleridae

Odontotarsus purpureolineatus (Rossi) 2♂♂ 4♀♀

AUCHENORRHYNCHA

FULGOROMORPHA

Delphacidae

Ditropsis flavipes (Signoret) 1♂

Laodelphax striatella (Fallén) not counted

Dictyopharidae

Dictyophara europaea (Linnaeus) 4♂♂ 2♀♀

Issidae

Issus coleoptratus (Fabricius) 1♂ 1♀ and 2 nymphs

Flatidae

Metcalfa pruinosa (Say) not counted

CICADOMORPHA

Aphrophoridae

Aphrophora alni (Fallén) 2♂♂ 1♀

Neophilaenus gr. *exclamationis* (Thunberg) 15♂♂ 10♀♀

Philaenus spumarius (Linnaeus) not counted

Membracidae

Stictocephala bisonia Kopp & Yonke 1♀

Cicadellidae

Aconurella prolixa (Lethierry) 1♂ 3♀♀

Adarrus exornatus Ribaut, not counted

Alebra wahlbergi (Boheman) 1♂

Allygidius furcatus Ferrari 1♀

Allygus mixtus (Fabricius) not counted

Anaceratagallia ribauti (Ossiannilsson) not counted

Anaceratagallia venosa (Geoffroy) 12♂♂ 2♀♀ and 2 nymphs

Arboridia spathulata (Ribaut) 1♂ 4♀

- Arocephalus longiceps* (Kirschbaum) 24♂♂ 29♀♀ (1 individual of which parasitized by 1♀ of *Halictophagus languedoci* Abdul-Nour)
Asymmetrasca decedens (Paoli) 1♂
Austroagallia sinuata (Mulsant & Rey) 5♂♂ 9♀♀
Balclutha punctata (Fabricius) 1♀
Balclutha rosea (Scott) 1♂
Balclutha saltuella (Kirschbaum) 43♂♂ 27♀♀
Cicadella viridis (Linnaeus) not counted
Dikraneura variata Hardy, not counted
Ebarrius cognatus (Fieber) 6♂♂ 2♀♀
Emelyanoviana mollicula (Boheman) 4♂♂ 4♀♀
Empoasca vitis (Göthe) 3♀♀
Eremochlorita hungarica (Ribaut) 17♂♂ 14♀♀ and 2 nymphs
Eupteryx adpersa (Herrich-Schäffer) 1♂
Eupteryx aurata (Linnaeus) not counted
Eupteryx curtisii (Flor) 1♂ 1♀
Eupteryx zelleri (Kirschbaum) 52♂♂ 40♀♀
Fieberiella sp. 2♀♀
Fruticidia bisignata (Mulsant & Rey) 1♂ 1♀
Goniagnathus brevis (Herrich-Schäffer) 2♀♀
Hardya tenuis (Germar) 1♂ 1♀
Hephathus freyi (Fieber) 2♂♂
Idiocerus herrichii (Kirschbaum) 1♀
Idiocerus stigmatalis Lewis 2♀♀
Jassargus cfr. *bicorniger* (Then) 14♂♂ 11♀♀
Jassargus gr. *obtusivalvis* (Kirschbaum) 20♂♂ 20♀♀ (of which 5♂♂ and 8♀♀ parasitized hosting 1 specimen of *Halictophagus languedoci* Abdul-Nour, 1 individual hosting 1♂ 1♀ of the parasite and 1 individual hosting 2♀♀ of the parasite)
Kybos sp. 5♀♀
Macrosteles cristatus (Ribaut) 2♂♂
Mocytia crocea (Herrich-Schäffer) 5♂♂ 1♀
Psammotettix helvolus (Kirschbaum) 9♂♂ 29♀♀
Rhopalopyx elongatus Wagner 2♂♂ 1♀
Ribautiana alces (Ribaut) 1♂ 1♀
Selenocephalus obsoletus (Germar) 1♀
Thamnotettix dilutior (Kirschbaum) 1♂ 4♀♀
Thamnotettix exemptus Melichar 1♂
Wagneriala incisa (Then) 1♂
Zyginidia pullula (Boheman) 1♀

STERNORRHYNCHA

PSYLLOMORPHA

Psyllidae

Aphalara sauteri Burckhardt, not counted

Triozidae

Bactericera perrisii Puton 1♂

Phylloplecta trisignata (Löw) many nymphs

Trioza urticae (Linnaeus) not counted

Trioza velutina Foerster 1♂

2 – CHEVRÈRE, m 1200-1400 (CHAMPDEPRAZ) E391384 N5059599

This rural area is surrounded by forests dominated by *Pinus sylvestris*, *Pinus uncinata*, *Larix decidua* and, in correspondence to the watersheds, *Fagus sylvatica* and *Alnus incana*. The pastures are attributable to the Polygono-Trisetion in the areas regularly irrigated and fertilized (fertile mountain meadows) and to the Mesobromion in the more xeric areas; on the margins of the cultivated land the following species are frequent: *Corylus avellana*, *Betula pendula*, *Fraxinus excelsior*, *Sorbus aria*, *Sorbus aucuparia*, *Prunus* spp., *Rosa* spp., *Berberis vulgaris*, *Juniperus communis*.

HETEROPTERA**GERROMORPHA****Gerridae**

Gerris gibbifer Schummel, many adults

Veliidae

Velia sp. 5♂♂ 6♀♀

Hydrometridae

Hydrometra stagnorum (Linnaeus) 1♂ 4♀♀

LEPTOPODOMORPHA**Saldidae**

Macrosaldula scotica (Curtis) 3♂♂ 2♀♀

Saldula orthochila (Fieber) 1♀

Saldula saltatoria (Linnaeus) 2♂♂ 1♀

CIMICOMORPHA**Anthocoridae**

Anthocoris nemorum (Linnaeus) many adults

Dufouriellus ater (Dufour) 1♂

Orius (*Heterorius*) *laticollis* (Reuter) not counted

Orius (*Orius*) *niger* Wolff, not counted

Nabidae

Himacerus (*Himacerus*) *apterus* (Fabricius) 3♂♂ 3♀♀

Nabis (*Nabicula*) *flavomarginatus* Scholtz many adults

Nabis (*Nabis*) *brevis* Scholtz 5♂♂ 7♀♀

Nabis (Nabis) rugosus (Linnaeus) not counted

Nabis spp. gr. *ferus* (Linnaeus) many adults

Miridae

Adelphocoris lineolatus (Goeze) not counted

Alloeotomus germanicus Wagner 1 ♀

Bryocoris pteridis (Fallén) 1 ♀

Chlamydatus (Attus) pullus Reuter 1 ♂

Deraeocoris (Camptobrochis) punctulatus (Fallén) not counted

Deraeocoris (Knightocapsus) lutescens (Schilling) 1 ♂

Dicyphus sp. not counted

Dicyphus (Brachyceraea) globulifer (Fallén) not counted

Dicyphus (Dicyphus) cerastii Wagner 1 ♂ 1 ♀

Dicyphus (Dicyphus) hyalinipennis (Burmeister) not counted

Lygus rugulipennis Poppius 2 ♂ ♂ 2 ♀ ♀

Monalocoris (Monalocoris) filicis (Linnaeus) 5 ♂ ♂ 7 ♀ ♀

Orthops (Orthops) kalmi (Linnaeus) 1 ♂ 1 ♀

Pantilius tunicatus (Fabricius) not counted

Stenodema (Stenodema) holsatum (Fabricius) 4 ♀ ♀

Trigonotylus ruficornis (Geoffroy) not counted

Tingidae

Acalypta musci (Schränk) 1 ♀

Corythucha ciliata (Say) 1 ♀

PENTATOMOMORPHA

Coreidae

Syromastus rhombeus (Linnaeus) 1 ♂ 1 ♀

Rhopalidae

Myrmus miriformis (Fallén) many adults

Rhopalus (Rhopalus) conspersus (Fieber) 1 ♀

Berytidae

Berytinus (Berytinus) minor (Herrich-Schäffer) not counted

Berytinus (Lizinus) montivagus (Meyer-Dür) 1 ♀

Lygaeidae

Aphanus rolandri (Linnaeus) 1 ♀

Drymus (Sylvadrymus) brunneus (F. Sahlberg) 1 ♂

Emblethis spp. many adults

Eremocoris plebejus (Fallén) 1 ♀

Gastrodes grossipes (De Geer) 1 ♂ 3 ♀ ♀

Geocoris (Geocoris) ater (Fabricius) 2 ♂ ♂

Kleidocerys resedae (Panzer) 1 ♀

Lygaeosoma sardeum Spinola, not counted

Megalonotus gr. *chiragra* (Fabricius) 1 ♂ 2 ♀ ♀

Megalonotus sabulicola (Thomson) not counted

Nysius spp. many adults

Oxycarenus (*Oxycarenus*) *modestus* (Fallén) 2♀♀

Plinthis sp. 2♀♀

Rhyparochromus (*Rhyparochromus*) *pini* (Linnaeus) many adults

Rhyparochromus (*Rhyparochromus*) *vulgaris* (Schilling) not counted

Rhyparochromus (*Xanthochilus*) *quadratus* (Fabricius) not counted

Stygnocoris rusticus (Fallén) not counted

Stygnocoris sabulosus (Schilling) not counted

Trapezonotus (*Trapezonotus*) *arenarius* (Linnaeus) 2♂♂ 1♀

Acanthosomatidae

Elasmotethus interstinctus (Linnaeus) 3♀♀

Cydnidae

Adomerus biguttatus (Linnaeus) 1♀

Pentatomidae

Carpocoris (*Carpocoris*) *fuscispinus* (Boheman) 3♂♂ 3♀♀

Carpocoris (*Carpocoris*) *purpureipennis* (De Geer) 2♂♂ 1♀

Dolycoris baccarum (Linnaeus) not counted

Eurydema oleraceum (Linnaeus) many adults

Eysarcoris venustissimus (Schrank) 3♀♀

Jalla dumosa (Linnaeus) 1♀

Palomena prasina (Linnaeus) many adults

Pentatoma rufipes (Linnaeus) 1♂ and some nymphs

Picromerus bidens (Linnaeus) 3♂♂ 2♀♀

Piezodorus lituratus (Fabricius) 1♂ 3♀♀

Sciocoris spp. many adults

AUCHENORRHYNCHA

FULGOROMORPHA

Delphacidae

Conomelus lorifer dehnelti Nast 2♂♂ 1♀

Ditropsis flavipes (Signoret) 1♂ 1♀

Florodelphax leptosoma (Flor) not counted

Javesella dubia (Kirschbaum) not counted

Kelsia gr. *haupti* Wagner 1♀

Laodelphax striatella (Fallén) 3♀♀

Muellerianella brevipennis (Boheman) not counted

Muellerianella extrusa (Scott) 1♂

Ribautodelphax albostrata (Fieber) 2♂♂ 3♀♀

Ribautodelphax pungens (Ribaut) 1♂ 1♀

Stenocranus minutus (Fabricius) 5♂♂ 9♀♀ and nymphs

Toya propinqua (Fieber) 1♂

Tettigometridae

Tettigometra cfr. *impressopunctata* Dufour 1♂ 3♀♀

Caliscelidae

Caliscelis sp. nymphs not counted

Issidae

Issus coleoptratus (Fabricius) 7♂♂ and 3 nymphs

CICADOMORPHA**Aphrophoridae**

Aphrophora alni (Fallén) 5♂♂

Aphrophora corticea Germar 2♀♀

Neophilaenus albipennis (Fabricius) 1♀

Neophilaenus campestris (Fallén) 1♀

Neophilaenus exclamationis (Thunberg) not counted

Neophilaenus lineatus (Linnaeus) 3♀♀

Philaenus spumarius (Linnaeus) 5♂♂ 3♀♀

Membracidae

Centrotus cornutus (Linnaeus) 1 nymph

Ulopidae

Utecha trivialis (Germar) 1♂

Cicadellidae

Aconurella prolixa (Lethierry) 1♂

Adarrus sp. 1♂ 3♀♀

Adarrus exornatus Ribaut 2♂♂ 5♀♀

Adarrus multinodeatus (Boheman) 1♂

Anaceratagallia venosa (Geoffroy) not counted

Anosopus cfr. *flavostriatus* (Donovan) 2♂♂

Aphrodes bicincta (Schrank) 1♀

Arboridia sp. 1♀

Arboridia ribauti (Ossiannilsson) 1♂

Arocephalus longiceps (Kirschbaum) 71♂♂ 74♀♀

Austroagallia sinuata (Mulsant & Rey) not counted

Balclutha punctata (Fabricius) 13♂♂ 19♀♀ and 14 nymphs

Balclutha saltuella (Kirschbaum) 1♂ 1♀

Chlorita viridula (Fallén) not counted

Cicadella viridis (Linnaeus) 1♂ 4♀♀

Cicadula persimilis (Edwards) 13♂♂ 3♀♀

Cicadula quadrinotata (Fabricius) 2♂♂

Conosanus obsoletus (Kirschbaum) 3♀♀

Deltoccephalus pulicaris (Fallén) 10♂♂ 1♀ (2♂♂ of which parasitized and castrated)

Diplocolenus bohemani (Zettstedt) 1♀

Doratura stylata (Boheman) 2♂♂ 3♀♀
Ebarrius cognatus (Fieber) not counted
Edwardsiana sp. 1♀
Edwardsiana geometrica (Schrank) not counted
Edwardsiana ishidai (Matsumura) 2♂♂
Edwardsiana rosae (Linnaeus) 1♂ (parasitized and castrated)
Emelyanoviana mollicula (Boheman) 23♂♂ 9♀♀
Empoasca decipiens Paoli not counted
Erythria manderstjernii (Kirschbaum) 4♂♂ 1♀
Eupteryx atropunctata (Goeze) 2♂♂
Eupteryx curtisii (Flor) 8♂♂
Eupteryx notata Curtis 1♂
Eupteryx urticae (Fabricius) 1♂ 3♀♀
Euscelis incisus (Kirschbaum) 5♂♂ 7♀♀
Forcipata major (Wagner) 1♀
Goniagnathus brevis (Herrich-Schäffer) 2♀♀
Grypotes puncticollis (Herrich-Schäffer) 1♀
Hardya tenuis (Germar) not counted
Idiocerus stigmatalis Lewis 1♀
Macropsis cfr. *infusata* (Sahlberg) 1♀
Macropsis fuscata (Zetterstedt) 1♀
Macrosteles cristatus (Ribaut) 10♂♂ 15♀♀
Mocytia crocea (Herrich-Schäffer) 1♀
Psammotettix alienus (Dahlbom) 1♂
Psammotettix confinis (Dahlbom) 1♂
Psammotettix gr. *helvolus* (Kirschbaum) 93♂♂ 94♀♀
Wagneripteryx germari (Zetterstedt) 2♂♂ 17♀♀ (some of which parasitized by Dryinidae)
Zyginidia pullula (Boheman) 1♀

STERNORRHYNCHA

PSYLLOMORPHA

Psyllidae

Aphalara polygoni Förster, not counted
Aphalara sauteri Burckhardt 8♂♂ 16♀♀
Bactericera nigricornis (Förster) 6♂♂ 7♀♀
Cacopsylla affinis (Löw) 1♀
Cacopsylla albipes (Flor) 2♀♀
Cacopsylla brevipennata (Flor) 6♂♂ 4♀♀
Livia junci (Schrank) not counted
Psylla alni (Linnaeus) 14♂♂ 7♀♀
Psyllopsis fraxini (Linnaeus) 1♂
Psyllopsis fraxinicola (Förster) 1♂ 1♀

Triozidae*Triozia caesaris* Burckhardt & Lauterer 2♂♂*Triozia rumicis* Löw 1♀

3 – DONDENA REFUGE, m 2100-2300 (CHAMPORCHER) E387135

N5052166

This site is characterized by alpine meadows (Nardion prevailing in grazed areas; Festucion dominant on steep slopes exposed southwards), strips of shrubs dominated by *Rhododendron ferrugineum*, *Vaccinium gaultherioides*, and *Alnus viridis* on North exposures, and *Juniperus* on South exposures, wide debris layers and rocky outcrops (area of contact between the ophiolites of the Mont Avic massif and the lime schists are dominant in the upper Champorcher Valley). In the immediate surroundings there are sparse forests of *Larix decidua* and some nuclei of *Pinus uncinata*.

HETEROPTERA**LEPTOPODOMORPHA****Saldidae***Salda littoralis* not counted*Saldula orthochila* (Fieber) not counted*Saldula saltatoria* (Linnaeus) not counted**CIMICOMORPHA****Nabidae***Nabis (Nabis) punctatus* A. Costa, not counted*Nabis (Nabis) rugosus* (Linnaeus) not counted**Miridae***Adelphocoris lineolatus* (Goeze) not counted*Stenodema calcaratum* (Fallén) not counted*Trigonotylus caelestialium* (Kirkaldy) not counted**PENTATOMOMORPHA****Alydidae***Camptopus lateralis* (Germar) not counted**Coreidae***Coreus marginatus* (Linnaeus) not counted**Rhopalidae***Stictopleurus abutilon* (Rossi) not counted**Lygaeidae***Geocoris lapponicus* Zetterstedt, not counted*Kleidocerys ericae* (Horváth) not counted*Melanocoryphus albomaculatus* (Goeze) not counted

Metopoplax origani (Kolenati) not counted
Nysius sp. not counted
Nysius thymi (Wolff) not counted
Oxycarenus (*Euoxycarenus*) *pallens* (Herrich-Schäffer) not counted
Trapezonotus (*Trapezonotus*) *arenarius* (Linnaeus) not counted

AUCHENORRHYNCHA

FULGOROMORPHA

Delphacidae

Kelisia ribauti Wagner, many adults
Laodelphax striatella (Fallén) 1♂ 1♀
Toya propinqua (Fieber) 1♂

CICADOMORPHA

Aphrophoridae

Neophilaenus exclamationis (Thunberg) 8♂♂ 3♀♀

Cicadellidae

Anaceratagallia venosa (Geoffroy) 1♂ 1♀
Arocephalus longiceps (Kirschbaum) 1♀
Cicadula quadrinotata (Fabricius) 3♂♂ 4♀♀
Deltocephalus pulicaris (Fallén) 2♂♂ 2♀♀
Ebarrius cognatus (Fieber) 1♂
Ebarrius interstictus (Fieber) 1♂ 2♀♀
Idiodonus cruentatus (Panzer) 2♀♀
Psammotettix cephalotes (Herrich-Schäffer) 9♂♂ 10♀♀
Psammotettix helvolus (Kirschbaum) 9♂♂ 5♀♀
Psammotettix nardeti Remane 1♀
Streptopyx tamaninii Linnavuori 1♂
Verdanus abdominalis (Fabricius) 2♀♀
Zyginidia cornicula Meusnier 1♂ 7♀♀

STERNORRHYNCHA

PSYLLOMORPHA

Psyllidae

Aphalara calthae (Linnaeus) 2♂♂
Aphalara longicaudata Wagner & Franz 3♂♂ 3♀♀
Aphalara sauteri Burckhardt, many adults
Bactericera bohémica (Šulc) 18♂♂ 19♀♀
Bactericera femoralis (Förster) 28♂♂ 45♀♀
Bactericera harrisoni (Wagner) 1♂ 4♀♀
Bactericera parastriola Conci, Ossiannilsson & Tamanini 2♂♂ 2♀♀

Cacopsylla brunneipennis (Edwards) 15♂♂ 12♀♀

Cacopsylla melanoneura (Förster) 1♂

Cacopsylla nigrita (Zetterstedt) 2♂♂ 4♀♀

Cacopsylla pulchra (Zetterstedt) 1♀

Cacopsylla rhododendri (Puton) 1♂ 8♀♀

Triozidae

Trioza dispar (Löw) 1♀

Trioza remaudierei Burckhardt & Lauterer 13♂♂ 17♀♀

Trioza rumicis Löw 1♂

Trioza schrankii (Flor) 1♂

4 – MISERIN REFUGE, m 2588 (CHAMPORCHER) E384776 N5051171

This area has a discontinuous plant cover (*Carex curvula*, Poion, Elynion, Salicion herbaceae and Loiseleurio-Vaccinion), interrupted by large areas of debris and rocky outcrops (mainly lime schist), and is close to one of the largest lakes in the Aosta Valley (Lac Miserin). There are also patches of Caricion fuscae and isolated shrubs (*Rhododendron ferrugineum*, *Vaccinium gaultherioides*, *Juniperus nana*).

HETEROPTERA

LEPTOPODOMORPHA

Saldidae

Saldula orthochila (Fieber) 1♂ 2♀♀

PENTATOMOMORPHA

Lygaeidae

Nysius sp. not counted

AUCHENORRHYNCHA

FULGOROMORPHA

Delphacidae

Kelisia ribauti Wagner 1♂

Ribautodelphax albostrigata (Fieber) 1♂ 1♀

CICADOMORPHA

Aphrophoridae

Neophilaenus exclamationis (Thunberg) 1♀

Philaenus spumarius (Linnaeus) 1♂ 1♀

Cicadellidae

Cicadula quadrinotata (Fabricius) 1♂

Erythria sp. 1♂ 1♀
Eupteryx cyclops Matsumura 2♂♂
Nealiturus fenestratus (Herrich-Schäffer) 3♀♀
Psammotettix cfr. *nardeti* Remane 1♂ 1♀
Psammotettix helvolus (Kirschbaum) 1♂
Psammotettix nardeti Remane 10♂♂ 27♀♀
Verdanus abdominalis (Fabricius) 3♀♀

STERNORRHYNCHA

PSYLLOMORPHA

Triozidae

Bactericera bohemica (Šulc) not counted
Bactericera femoralis (Förster) not counted
Triosa urticae (Linnaeus) not counted

REMARKS

Altogether 126 species of Heteroptera, belonging to 89 genera, 108 species of Auchenorrhyncha, belonging to 75 genera, and 30 species of Sternorrhyncha Psyllomorpha, belonging to 8 genera, were collected at the three sites of the Natural Park of Mont Avic in the Aosta Valley.

The number of families totals 21 for the Heteroptera, 10 for the Auchenorrhyncha, and 2 for the Sternorrhyncha Psyllomorpha.

The collecting activity at the four different collecting sites gave the following numbers: Capoluogo-Tendeur 66 species of 52 genera of Heteroptera, 53 species of 44 genera of Auchenorrhyncha, and 5 species of 4 genera of Sternorrhyncha Psyllomorpha; Chevrère 71 species of 55 genera of Heteroptera, 69 species of 52 genera of Auchenorrhyncha, and 12 species of 7 genera of Sternorrhyncha Psyllomorpha; Dondena Refuge 18 species of 16 genera of Heteroptera, 17 species of 14 genera of Auchenorrhyncha, and 16 species of 4 genera of Sternorrhyncha Psyllomorpha; Miserin Refuge 2 species of 2 genera of Heteroptera, 11 species of 10 genera of Auchenorrhyncha, and 3 species of 2 genera of Sternorrhyncha Psyllomorpha.

New records for Italy are, for the Heteroptera Cimicomorpha, the Mirid *Lygus maritimus* from Capoluogo-Tendeur and, for the Auchenorrhyncha Cicadomorpha, the Cicadellid *Edwardsiana ishidai* from Chevrère. The Delphacid *Mullerianella extrusa* from Chevrère is confirmed as a new record for Italy, having been found at the same time in the neighbouring Canavese district (Alma *et al.*, 2009).

Zyginidia cornicula collected at the Dondena Refuge corresponds to *Z. viaduensis* (Wagner) reported in the Checklist of the Italian Fauna (D'Urso, 1995) and in a previous paper (Bocca *et al.*, 1988). The name *Z. cornicula* was preferred, because the aedeagus is intermediate, but closer in shape to the French species.

The male specimens of *Jassargus* gr. *obtusivalvus* collected at Capoluogo-Tendeur have details of the aedeagus of the lobes of the pygofer and of the styli that do not coin-

cide perfectly neither with *J. obtusivalvis* nor with *J. avennicus* Ribaut nor with *J. bicorniger* (Then).

The Pipunculid Diptera collected at Capoluogo-Fabrique are 1♂ and 1♀ of *Tomosvaryella geniculata* (Meigen), while at Chevrère 1♂ was collected of *Tomosvaryella freidbergi* DeMeyer, the latter being the first record for Italy. The leafhopper species parasitized by undetermined larvae of Pipunculidae at Chevrère were *Deltocephalus pulicaris* and *Edwardsiana rosae*.

The Halictophagid Strepsiptera collected at Chevrère were 6 empty male puparia (3 with cephalothecae) and 13♀♀ of *Halictophagus languedoci* Abdul Nour, which is a new species for Italy. The leafhoppers parasitized by *H. languedoci* belonged to *Jassargus* gr. *obtusivalvis*, *Psammotettix helvolus*, and *Arocephalus longiceps* (the two last species are new hosts for this parasite).

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RÉSUMÉ

Hémiptères récoltés dans le Parc Naturel Mont Avic (Vallée d'Aoste, Italie NW).

On mentionne les résultats des récoltes effectuées à l'occasion de l'excursion dans le Parc Naturel du Mont Avic (Vallée d'Aoste, Alpes occidentales italiennes) organisée dans le cadre du 4th European Hemiptera Congress – Ivree, septembre 2007. On a cherché à connaître quatre milieux le long d'un vaste gradient d'altitude: Chef-lieu-Tendeur (500-600 mètres), Chevrère (1200-1400 mètres), Dondena (2100-2300 mètres) et Miserin (2588 mètres). Au total on a retrouvé 126 espèces de Heteroptera appartenant à 89 genres, 108 espèces de Auchenorrhyncha appartenant à 75 genres et 30 espèces de Sternorrhyncha Psyllomorpha. Deux espèces sont nouvelles pour l'Italie: le Miridae *Lygus maritimus* et le Cicadellidae *Edwardsiana ishidai*. Nouveaux signalements pour l'Italie sont aussi *Tomosvaryella freidbergi* (Diptera Pipunculidae) et *Halictophagus languedoci* (Strepsiptera Halictophagidae), parasitoïdes de Auchenorrhyncha.

RIASSUNTO

Emitteri raccolti nel Parco Naturale Mont Avic (Valle d'Aosta, Italia NW)

Vengono riportati i risultati delle raccolte effettuate in occasione dell'escursione nel Parco Naturale Mont Avic (Valle d'Aosta, Alpi occidentali italiane) organizzata nell'ambito del 4th European Hemiptera Congress – Ivrea, settembre 2007. Sono stati indagati quattro siti lungo un ampio gradiente altitudinale: Capoluogo-Tendeur (500-600 m s.l.m.), Chevrère (1200-1400 m s.l.m.), Dondena (2100-2300 m s.l.m.) e Miserin (2588 m s.l.m.). In totale sono state rinvenute 126 specie di Heteroptera appartenenti a 89 generi, 108 specie di Auchenorrhyncha appartenenti a 75 generi e 30 specie di Sternorrhyncha Psyllomorpha. Due specie sono risultate essere nuove per l'Italia: il Miridae *Lygus maritimus* e il Cicadellidae *Edwardsiana ishidai*. Di nuova segnalazione per l'Italia sono anche il Dittero Pipunculidae *Tomosvaryella freidbergi* e lo Strepsittero Halictophagidae *Halictophagus languedoci*, parassitoidi di Auchenorrhyncha.