

THE
HEMIPTERIST

A JOURNAL ON THE NATURAL HISTORY
OF THE HEMIPTERA OF THE BRITISH ISLES

Volume 5

Part 2 (July 2018)

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OF THE HEMIPTERA OF THE BRITISH ISLES

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Volume 5, Part 2 (July 2018)

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**AN ADDENDUM TO SAUNDERS' SYNOPSIS OF BRITISH HEMIPTERA-HETEROPTERA
AND DOUGLAS & SCOTT'S BRITISH HEMIPTERA-HETEROPTERA**

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Douglas & Scott (1865) was the first textbook that covered the British Hemiptera-Heteroptera as a whole. Alas, it was rather incomplete and was subject to many additions and corrections in the following years, necessitating the publication of the Synopsis of Saunders (1875a, 1875b & 1876) to present a more complete British list. Further additions and corrections occurred over the 17 years till the publication of Saunders (1892). In order that bug records for this period may be correctly interpreted, I present below a checklist of the modern names of the British Hemiptera-Heteroptera with the corresponding names used as headings for the species accounts in the Synopsis and, in square brackets, those in Douglas & Scott (1865) where different. The name correspondences were derived from Saunders (1892), Butler (1923) and the addenda to these works (Ryan, 2016a & 2018a). Multiple correspondences due to ambiguous species names are not shown here, but are documented in Ryan (2015, 2016b, 2018b & 2018c).

ARADIDAE

<i>Aneurus avenius</i> (Dufour)	-
<i>Aneurus laevis</i> (Fabricius)	<i>Aneurus laevis</i>
<i>Aradus aterrimus</i> Fieber	<i>Aradus aterrimus</i>
<i>Aradus betulae</i> (Linnaeus)	-
<i>Aradus cinnamomeus</i> Panzer	-
<i>Aradus corticalis</i> (Linnaeus)	<i>Aradus corticalis</i>
<i>Aradus depressus</i> (Fabricius)	<i>Aradus depressus</i>

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	<i>Acanthosoma haemorrhoidale</i>
<i>Cyphostethus tristriatus</i> (Fabricius)	<i>Acanthosoma tristriatum</i> [pictum]
<i>Elasmostethus interstinctus</i> (Linnaeus)	<i>Acanthosoma dentatum</i>
<i>Elasmucha ferrugata</i> (Fabricius)	-
<i>Elasmucha grisea</i> (Linnaeus)	<i>Acanthosoma griseum</i>

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	<i>Sehirus biguttatus</i>
<i>Byrsinus flavicornis</i> (Fabricius)	-
<i>Canthophorus impressus</i> (Horváth)	<i>Sehirus dubius</i>
<i>Geotomus punctulatus</i> (A. Costa)	<i>Geotomus punctulatus</i> [-]
<i>Legnotus limbosus</i> (Geoffroy)	<i>Sehirus albomarginatus</i>
<i>Legnotus picipes</i> (Fallén)	<i>Sehirus picipes</i> [-]
<i>Sehirus luctuosus</i> Mulsant & Rey	<i>Sehirus morio</i>
<i>Tritomegas bicolor</i> (Linnaeus)	<i>Sehirus bicolor</i>
<i>Tritomegas sexmaculatus</i> (Rambur)	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	<i>Corimelaena scarabaeoides</i> [Scarabaeoides]
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SCUTELLERIDAE

<i>Eurygaster austriaca</i> (Schrank)	<i>Eurygaster niger</i> [hottentottus]
<i>Eurygaster maura</i> (Linnaeus)	<i>Eurygaster maurus</i>
<i>Eurygaster testudinaria</i> (Geoffroy)	-
<i>Odontoscelis fuliginosa</i> (Linnaeus)	<i>Odontoscelis fuliginosus</i>
<i>Odontoscelis lineola</i> Rambur	-

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	<i>Aelia acuminata</i>
<i>Carpocoris mediterraneus</i> Tamanini	-
<i>Carpocoris purpureipennis</i> (De Geer)	<i>Pentatoma baccharum</i> [nigricorne]
<i>Chlorochroa juniperina</i> (Linnaeus)	<i>Pentatoma juniperinum</i>
<i>Dolycoris baccharum</i> (Linnaeus)	<i>Pentatoma verbasci</i> [baccharum]
<i>Dyroderes umbraculatus</i> (Fabricius)	-
<i>Eurydema dominulus</i> (Scopoli)	<i>Strachia festiva</i> [ornata]
<i>Eurydema oleracea</i> (Linnaeus)	<i>Strachia oleracea</i>
<i>Eurydema ornata</i> (Linnaeus)	-
<i>Eysarcoris aeneus</i> (Scopoli)	<i>Eysarcoris aeneus</i>
<i>Eysarcoris venustissimus</i> (Schrank)	<i>Eysarcoris melanocephalus</i>
<i>Jalla dumosa</i> (Linnaeus)	<i>Jalla dumosa</i>
<i>Neottiglossa pusilla</i> (Gmelin)	<i>Aelioides inflexus</i> [inflexa]
<i>Nezara viridula</i> (Linnaeus)	-
<i>Palomena prasina</i> (Linnaeus)	<i>Pentatoma viridissima</i> [dissimile]
<i>Pentatoma rufipes</i> (Linnaeus)	<i>Tropicoris rufipes</i>
<i>Peribalus strictus</i> (Fabricius)	<i>Pentatoma vernale</i>
<i>Picromerus bidens</i> (Linnaeus)	<i>Picromerus bidens</i>
<i>Piezodorus lituratus</i> (Fabricius)	<i>Piezodorus lituratus</i> [purpureipennis]
<i>Podops inunctus</i> (Fabricius)	<i>Podops inunctus</i>
<i>Rhacognathus punctatus</i> (Linnaeus)	<i>Rhacognathus punctatus</i>
<i>Rhaphigaster nebulosa</i> (Poda)	-
<i>Sciocoris cursitans</i> (Fabricius)	<i>Sciocoris terreus</i>
<i>Troilus luridus</i> (Fabricius)	<i>Podisus luridus</i> [Asopus]
<i>Zicrona caerulea</i> (Linnaeus)	<i>Zicrona caerulea</i>

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	<i>Pseudophloeus Fallenii</i> [Falléni]
<i>Arenocoris waltlii</i> (Herrich-Schaeffer)	-
<i>Bathysolen nubilus</i> (Fallén)	<i>Bathysolen nubilus</i> [Pseudophloeus]
<i>Ceraleptus lividus</i> Stein	<i>Ceraleptus lividus</i> [squalidus]
<i>Coreus marginatus</i> (Linnaeus)	<i>Syromastes marginatus</i>
<i>Coriomeris denticulatus</i> (Scopoli)	<i>Dasycoris hirticornis</i> [Coreus]
<i>Enoplops scapha</i> (Fabricius)	<i>Coreus scapha</i> [Enoplops]
<i>Gonocerus acuteangulatus</i> (Goeze)	<i>Gonocerus venator</i>
<i>Leptoglossus occidentalis</i> Heidemann	-
<i>Spathocera dalmanii</i> (Schilling)	<i>Atractus Dalmanii</i> [Spathocera Dalmani]
<i>Syromastus rhombeus</i> (Linnaeus)	<i>Verlusia rhombea</i>

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	<i>Alydus calcaratus</i>
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RHOPALIDAE

<i>Brachycarenum tigrinus</i> (Schilling)	-
<i>Chorosoma schillingii</i> (Schilling)	<i>Chorosoma Schillingi</i>
<i>Corizus hyoscyami</i> (Linnaeus)	<i>Therapha hyoscyami</i> [Hyoscyami]
<i>Liorhyssus hyalinus</i> (Fabricius)	-
<i>Myrmus miriformis</i> (Fallén)	<i>Myrmus miriformis</i>
<i>Rhopalus maculatus</i> (Fieber)	<i>Corizus maculatus</i>
<i>Rhopalus parumpunctatus</i> Schilling	<i>Corizus parumpunctatus</i>
<i>Rhopalus rufus</i> Schilling	-
<i>Rhopalus subrufus</i> (Gmelin)	<i>Corizus capitatus</i>
<i>Stictopleurus abutilon</i> (Rossi)	<i>Corizus abutilon</i> [-]
<i>Stictopleurus punctatonervosus</i> (Goeze)	<i>Corizus crassicornis</i>

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	<i>Pyrrhocoris apterus</i>
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STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	<i>Stenocephalus agilis</i>
<i>Dicranocephalus albipes</i> (Fabricius)	<i>Stenocephalus neglectus</i>
<i>Dicranocephalus medius</i> (Mulsant & Rey)	-

LYGAEIDAE

<i>Acompus pallipes</i> (Herrich-Schaeffer)	-
<i>Acompus rufipes</i> (Wolff)	<i>Acompus rufipes</i>
<i>Aphanus rolandri</i> (Linnaeus)	<i>Calyptonotus Rolandri</i>
<i>Arocatus longiceps</i> Stål	-
<i>Beosus maritimus</i> (Scopoli)	<i>Dieuches luscus</i>
<i>Chilacis typhae</i> (Perris)	<i>Chilacis Typhae</i>
<i>Cymus aurescens</i> Distant	-
<i>Cymus clavicularis</i> (Fallén)	<i>Cymus clavicularis</i>
<i>Cymus glandicolor</i> Hahn	<i>Cymus glandicolor</i>
<i>Cymus melanocephalus</i> Fieber	<i>Cymus melanocephalus</i> [-]
<i>Drymus brunneus</i> (R.F. Sahlberg)	<i>Drymus brunneus</i>
<i>Drymus latus</i> Douglas & Scott	-
<i>Drymus pilicornis</i> (Mulsant & Rey)	<i>Drymus pilicornis</i> [<i>Rhyparochromus</i>]
<i>Drymus pilipes</i> Fieber	<i>Drymus pilipes</i>
<i>Drymus pumilio</i> Puton	-
<i>Drymus ryeii</i> Douglas & Scott	<i>Drymus sylvaticus</i> var. <i>Ryei</i> [<i>Ryeii</i>]
<i>Drymus sylvaticus</i> (Fabricius)	<i>Drymus sylvaticus</i>
<i>Emblethis denticollis</i> Horváth	-
<i>Emblethis griseus</i> (Wolff)	<i>Emblethis verbasci</i> [-]
<i>Eremocoris abietis</i> (Linnaeus)	-
<i>Eremocoris fenestratus</i> (Herrich-Schaeffer)	<i>Eremocoris podagricus</i> [<i>erraticus</i>]
<i>Eremocoris plebejus</i> (Fallén)	<i>Eremocoris plebeius</i> [-]
<i>Eremocoris podagricus</i> (Fabricius)	-
<i>Gastrodes abietum</i> Bergroth	<i>Gastrodes abietis</i> [<i>Abietis</i>]
<i>Gastrodes grossipes</i> (De Geer)	<i>Gastrodes ferrugineus</i>
<i>Graptopeltus lynceus</i> (Fabricius)	<i>Calyptonotus lynceus</i> [-]
<i>Henestaris halophilus</i> (Burmeister)	-
<i>Henestaris laticeps</i> (Curtis)	<i>Henestaris laticeps</i>
<i>Heterogaster artemisiae</i> Schilling	<i>Phygadicus artemisiae</i> [<i>Artemisiae</i>]
<i>Heterogaster urticae</i> (Fabricius)	<i>Phygadicus urticae</i> [<i>Urticae</i>]
<i>Ischnocoris angustulus</i> (Boheman)	<i>Ischnocoris hemipterus</i> [<i>Hypnophilus</i>]
<i>Ischnodemus quadratus</i> Fieber	-
<i>Ischnodemus sabuleti</i> (Fallén)	<i>Ischnodemus sabuleti</i>
<i>Kleidocerys ericae</i> (Horváth)	<i>Ischnorhynchus geminatus</i> [<i>Resedae</i>]
<i>Kleidocerys resedae</i> (Panzer)	<i>Ischnorhynchus Didymus</i> [-]
<i>Lamproplax picea</i> (Flor)	<i>Lamproplax piceus</i> [-]
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	<i>Lasiosomus enervis</i> [-]
<i>Lygaeus equestris</i> (Linnaeus)	-
<i>Lygaeus simulans</i> Deckert	-
<i>Macrodema microptera</i> (Curtis)	<i>Macrodema microptera</i> [<i>Hypnophilus micropterus</i>]
<i>Macroplax preyssleri</i> (Fieber)	-
<i>Megalonotus antennatus</i> (Schilling)	<i>Rhyparochromus antennatus</i>
<i>Megalonotus chiragra</i> (Fabricius)	<i>Rhyparochromus chiragra</i>
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	<i>Rhyparochromus dilatatus</i>
<i>Megalonotus emarginatus</i> (Rey)	-
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	<i>Rhyparochromus praetextatus</i>
<i>Megalonotus sabulicola</i> (Thomson)	<i>Rhyparochromus sabulicola</i> [-]
<i>Metopoplax ditomoides</i> (A. Costa)	-
<i>Metopoplax fuscinervis</i> Stål	-
<i>Notochilus limbatus</i> Fieber	<i>Notochilus limbatus</i> [-]
<i>Nysius cymoides</i> (Spinola)	-
<i>Nysius ericae</i> (Schilling)	-
<i>Nysius graminicola</i> (Kolenati)	-
<i>Nysius helveticus</i> (Herrich-Schaeffer)	<i>Nysius brunneus</i> [-]

LYGAEIDAE (CONTINUED)

<i>Nysius huttoni</i> F.B. White	-
<i>Nysius senecionis</i> (Schilling)	-
<i>Nysius thymi</i> (Wolff)	<i>Nysius thymi</i> [Thymi]
<i>Orsillus depressus</i> (Mulsant & Rey)	-
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	-
<i>Pachybrachius fracticollis</i> (Schilling)	<i>Plociomerus fracticollis</i>
<i>Pachybrachius luridus</i> Hahn	<i>Plociomerus luridus</i> [-]
<i>Peritrechus angusticollis</i> (R.F. Sahlberg)	-
<i>Peritrechus convivus</i> (Stål)	<i>Trapezonotus distinguendus</i> [distinctus]
<i>Peritrechus geniculatus</i> (Hahn)	-
<i>Peritrechus gracilicornis</i> Puton	-
<i>Peritrechus lundii</i> (Gmelin)	<i>Peritrechus luniger</i>
<i>Peritrechus nubilus</i> (Fallén)	<i>Peritrechus nubilus</i>
<i>Pionosomus varius</i> (Wolff)	<i>Pionosomus varius</i>
<i>Plinthisus brevipennis</i> (Latreille)	<i>Plinthisus brevipennis</i> + <i>Plinthisus bidentulus</i>
<i>Pterotmetus staphyliniformis</i> (Schilling)	-
<i>Raglius alboacuminatus</i> (Goeze)	<i>Calyptonotus pedestris</i>
<i>Rhyparochromus pini</i> (Linnaeus)	<i>Calyptonotus pini</i> [Pini]
<i>Rhyparochromus vulgaris</i> (Schilling)	-
<i>Scolopostethus affinis</i> (Schilling)	<i>Scolopostethus adjunctus</i>
<i>Scolopostethus decoratus</i> (Hahn)	<i>Scolopostethus ericetorum</i> [affinis]
<i>Scolopostethus grandis</i> Horváth	-
<i>Scolopostethus pictus</i> (Schilling)	<i>Scolopostethus pictus</i>
<i>Scolopostethus puberulus</i> Horváth	-
<i>Scolopostethus thomsoni</i> Reuter	<i>Scolopostethus affinis</i> [-]
<i>Sphragisticus nebulosus</i> (Fallén)	-
<i>Stygnocoris fuliginus</i> (Geoffroy)	<i>Stygnocoris arenarius</i>
<i>Stygnocoris rusticus</i> (Fallén)	<i>Stygnocoris rusticus</i>
<i>Stygnocoris sabulosus</i> (Schilling)	<i>Stygnocoris sabulosus</i>
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	<i>Scolopostethus contractus</i>
<i>Taphropeltus hamulatus</i> (Thomson)	-
<i>Trapezonotus arenarius</i> (Linnaeus)	<i>Trapezonotus agrestis</i>
<i>Trapezonotus desertus</i> Seidenstücker	-
<i>Trapezonotus dispar</i> Stål	<i>Trapezonotus dispar</i> [-]
<i>Trapezonotus ullrichi</i> (Fieber)	-
<i>Tropistethus holosericeus</i> (Scholtz)	<i>Tropistethus holosericeus</i>
<i>Xanthochilus quadratus</i> (Fabricius)	<i>Calyptonotus quadratus</i> [-]

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius)	<i>Berytus clavipes</i>
<i>Berytinus crassipes</i> (Herrich-Schaeffer)	<i>Berytus crassipes</i>
<i>Berytinus hirticornis</i> (Brullé)	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	<i>Berytus minor</i> + <i>Berytinus cognatus</i> [+ <i>Berytus commutatus</i>]
<i>Berytinus montivagus</i> (Meyer-Dür)	<i>Berytus montivagus</i>
<i>Berytinus signoreti</i> (Fieber)	<i>Berytus pygmaeus</i> [Signoreti]
<i>Gampsocoris punctipes</i> (Germar)	<i>Metacanthus punctipes</i>
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	<i>Metatropis rufescens</i>
<i>Neides tipularius</i> (Linnaeus)	<i>Neides tipularius</i> [Tipularius] + <i>Neides parallelus</i> [depressus]

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	<i>Piesma quadrata</i> [Zosmerus quadratus]
<i>Piesma maculatum</i> (Laporte)	<i>Piesma capitata</i> [Zosmerus capitatus] + <i>Piesma Laportei</i> [Zosmerus]

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	<i>Acalypta brunnea</i> [<i>Orthostira concinna</i>]
<i>Acalypta carinata</i> (Panzer)	<i>Acalypta cervina</i> [<i>Orthostira</i>]
<i>Acalypta nigrina</i> (Fallén)	<i>Acalypta nigrina</i> [-]
	+ <i>Acalypta macrophthalma</i> [-]
<i>Acalypta parvula</i> (Fallén)	<i>Acalypta parvula</i> [<i>Orthostira obscura</i>]
<i>Acalypta platycheila</i> (Fieber)	-
<i>Agramma laetum</i> (Fallén)	<i>Serenthia laeta</i> [<i>Agramma</i>]
<i>Campylosteira verna</i> (Fallén)	<i>Campylostira brachycera</i>
	[+ <i>Campylostira verna</i>]
<i>Catoplatus fabricii</i> (Stål)	<i>Monanthia costata</i>
<i>Corythucha ciliata</i> (Say)	-
<i>Derephysia foliacea</i> (Fallén)	<i>Derephysia foliacea</i>
<i>Dictyla convergens</i> (Herrich-Schaeffer)	<i>Monanthia humuli</i> [<i>Humuli</i>]
<i>Dictyonota fuliginosa</i> A. Costa	<i>Dictyonota fuliginosa</i> [-]
<i>Dictyonota strichnocera</i> Fieber	<i>Dictyonota strichnocera</i>
<i>Kalama tricornis</i> (Schrank)	<i>Dictyonota crassicornis</i>
<i>Lasiacantha capucina</i> (Germar)	-
<i>Oncochila simplex</i> (Herrich-Schaeffer)	<i>Monanthia simplex</i>
<i>Physatocheila confinis</i> Horváth	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	<i>Monanthia dumetorum</i>
<i>Physatocheila harwoodi</i> China	-
<i>Physatocheila smreczynskii</i> China	<i>Monanthia quadrimaculata</i>
<i>Stephanitis rhododendri</i> Horváth	-
<i>Stephanitis takeyai</i> Drake & Maa	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	<i>Monanthia ampliata</i>
<i>Tingis angustata</i> (Herrich-Schaeffer)	-
<i>Tingis cardui</i> (Linnaeus)	<i>Monanthia cardui</i>
<i>Tingis reticulata</i> Herrich-Schaeffer	<i>Monanthia reticulata</i>

REDUVIIDAE

<i>Coranus aethiops</i> Jakovlev	-
<i>Coranus subapterus</i> (De Geer)	<i>Coranus subapterus</i>
<i>Coranus woodroffeii</i> P.V. Putshkov	-
<i>Empicoris baerensprungi</i> (Dohrn)	-
<i>Empicoris culiciformis</i> (De Geer)	<i>Ploiaria culiciformis</i> [<i>erratica</i>]
<i>Empicoris vagabundus</i> (Linnaeus)	<i>Ploiaria vagabunda</i>
<i>Oncocephalus pilicornis</i> Reuter	-
<i>Pygolampis bidentata</i> (Goeze)	<i>Pygolampis bidentata</i> [<i>bifurcata</i>]
<i>Reduvius personatus</i> (Linnaeus)	<i>Reduvius personatus</i>

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	<i>Nabis brevipennis</i>
<i>Himacerus boops</i> (Schjødte)	-
<i>Himacerus major</i> (A. Costa)	<i>Nabis major</i> [<i>flavomarginatus</i>]
<i>Himacerus mirmicoides</i> (O. Costa)	<i>Nabis lativentris</i> [<i>apterus</i>]
<i>Nabis brevis</i> Scholtz	-
<i>Nabis ericetorum</i> Scholtz	<i>Nabis ericetorum</i> [-]
<i>Nabis ferus</i> (Linnaeus)	<i>Nabis ferus</i>
<i>Nabis flavomarginatus</i> Scholtz	<i>Nabis flavomarginatus</i> [-]
<i>Nabis limbatus</i> Dahlbom	<i>Nabis limbatus</i>
<i>Nabis lineatus</i> Dahlbom	<i>Nabis Poweri</i> [-]
<i>Nabis pseudoferus</i> Remane	-
<i>Nabis rugosus</i> (Linnaeus)	<i>Nabis rugosus</i> [<i>dorsalis</i>]
<i>Prostemma guttula</i> (Fabricius)	<i>Prostemma guttula</i> [<i>Metastemma</i>]

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	<i>Acompocoris alpinus</i> [-]
<i>Acompocoris pygmaeus</i> (Fallén)	<i>Acompocoris pygmaeus</i> [<i>Temnostethus lucorum</i>]
<i>Anthocoris ampliocollis</i> Horváth	-

ANTHOCORIDAE (CONTINUED)

<i>Anthocoris butleri</i> Le Quesne	-
<i>Anthocoris confusus</i> Reuter	-
<i>Anthocoris gallarumulmi</i> (De Geer)	-
<i>Anthocoris limbatus</i> Fieber	-
<i>Anthocoris minki</i> Dohrn	-
<i>Anthocoris nemoralis</i> (Fabricius)	<i>Anthocoris nemoralis</i>
<i>Anthocoris nemorum</i> (Linnaeus)	<i>Anthocoris nemorum</i>
<i>Anthocoris pilosus</i> (Jakovlev)	-
<i>Anthocoris sarothamni</i> Douglas & Scott	<i>Anthocoris nemoralis</i> var. <i>sarothamni</i> [<i>Anthocoris Sarothamni</i>]
<i>Anthocoris simulans</i> Reuter	-
<i>Anthocoris visci</i> Douglas	-
<i>Brachysteles parvicornis</i> (A. Costa)	<i>Brachysteles pilicornis</i>
<i>Buchananiella continua</i> (F.B. White)	-
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	<i>Cardiastethus testaceus</i>
<i>Dufouriellus ater</i> (Dufour)	<i>Xylocoris ater</i>
<i>Elatophilus nigricornis</i> (Zetterstedt)	<i>Temnostethus nigricornis</i> [-]
<i>Lyctocoris campestris</i> (Fabricius)	<i>Lyctocoris campestris</i> [<i>domesticus</i>]
<i>Orius laevigatus</i> (Fieber)	-
<i>Orius laticollis</i> (Reuter)	-
<i>Orius majusculus</i> (Reuter)	-
<i>Orius niger</i> (Wolff)	<i>Triphleps niger</i> [+ <i>Triphleps obscurus</i>]
<i>Orius vicinus</i> (Ribaut)	<i>Triphleps minutus</i>
<i>Temnostethus gracilis</i> Horváth	-
<i>Temnostethus pusillus</i> (Herrich-Schaeffer)	<i>Temnostethus pusillus</i>
<i>Temnostethus tibialis</i> Reuter	-
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	<i>Tetraphleps vittata</i> [<i>vittatus</i>]
<i>Xylocoridea brevipennis</i> Reuter	-
<i>Xylocoris cursitans</i> (Fallén)	<i>Piezostethus cursitans</i> [<i>rufipennis</i>]
<i>Xylocoris formicetorum</i> (Boheman)	<i>Piezostethus formicetorum</i> [-]
<i>Xylocoris galactinus</i> (Fieber)	<i>Piezostethus galactinus</i>

CIMICIDAE

<i>Cimex columbarius</i> Jenyns	<i>Acanthia columbaria</i> [<i>Columbaria</i>]
<i>Cimex lectularius</i> Linnaeus	<i>Acanthia lectularia</i>
<i>Cimex pipistrelli</i> Jenyns	<i>Acanthia pipistrelli</i> [<i>Pipistrelli</i>]
<i>Oeciacus hirundinis</i> (Lamarck)	<i>Acanthia hirundinis</i> [<i>Hirundinis</i>]

MICROPHYSIDAE

<i>Loricula coleoprata</i> (Fallén)	<i>Myrmedobia coleoprata</i>
<i>Loricula distinguenda</i> (Reuter)	-
<i>Loricula elegantula</i> (Baerensprung)	<i>Microphysa elegantula</i> [<i>Zygonotus elegantulus</i>]
<i>Loricula exilis</i> (Fallén)	<i>Myrmedobia tenella</i> [-]
<i>Loricula inconspicua</i> (Douglas & Scott)	<i>Myrmedobia inconspicua</i> [-]
<i>Loricula pselaphiformis</i> Curtis	<i>Microphysa pselaphiformis</i> [<i>Zygonotus</i>]
<i>Loricula ruficeps</i> (Reuter)	-

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	<i>Acetropis Gimmerthalii</i> [<i>seticulosa</i>]
<i>Adelphocoris lineolatus</i> (Goeze)	<i>Calocoris chenopodii</i> [<i>Deraeocoris Chenopodii</i>]
<i>Adelphocoris seticornis</i> (Fabricius)	<i>Calocoris seticornis</i> [<i>Deraeocoris</i>]
<i>Adelphocoris ticinensis</i> (Meyer-Dür)	<i>Calocoris ticinensis</i> [<i>Deraeocoris</i>]
<i>Agnocoris reclairei</i> (Wagner)	-
<i>Alloeotomus gothicus</i> (Fallén)	-
<i>Amblytylus brevicollis</i> Fieber	-
<i>Amblytylus delicatus</i> (Perris)	-
<i>Amblytylus nasutus</i> (Kirschbaum)	<i>Amblytylus affinis</i>
<i>Apolygus limbatus</i> (Fallén)	-
<i>Apolygus lucorum</i> (Meyer-Dür)	<i>Lygus lucorum</i>

MIRIDAE (CONTINUED)

<i>Apolygus spinolae</i> (Meyer-Dür)	<i>Lygus Spinolae</i>
<i>Asciodema obsoleta</i> (Fieber)	<i>Orthotylus Saundersi</i> [<i>Tinicephalus obsoletus</i>]
<i>Atractotomus magnicornis</i> (Fallén)	-
<i>Atractotomus mali</i> (Meyer-Dür)	<i>Atractotomus mali</i> [<i>magnicornis</i>]
<i>Atractotomus parvulus</i> Reuter	-
<i>Blepharidopterus angulatus</i> (Fallén)	<i>Aetorhinus angulatus</i>
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	<i>Orthotylus diaphanus</i> [-]
<i>Bothynotus pilosus</i> (Boheman)	<i>Bothynotus pilosus</i> [-]
<i>Brachyarthrum limitatum</i> Fieber	-
<i>Brachynotocoris puncticornis</i> Reuter	-
<i>Bryocoris pteridis</i> (Fallén)	<i>Bryocoris pteridis</i>
<i>Calocoris alpestris</i> (Meyer-Dür)	<i>Calocoris alpestris</i> [-]
<i>Calocoris roseomaculatus</i> (De Geer)	<i>Calocoris roseomaculatus</i> [<i>Deraeocoris ferrugatus</i>]
<i>Camptozygum aequale</i> (Villers)	<i>Hadrodema pinastri</i> [-]
<i>Campylomma annulicorne</i> (Signoret)	-
<i>Campylomma verbasci</i> (Meyer-Dür)	-
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	<i>Campyloneura virgula</i>
<i>Capsodes flavomarginatus</i> (Donovan)	<i>Lopus mat</i> [<i>miles</i>]
<i>Capsodes gothicus</i> (Linnaeus)	<i>Lopus gothicus</i>
<i>Capsodes sulcatus</i> (Fieber)	<i>Lopus sulcatus</i> [-]
<i>Capsus ater</i> (Linnaeus)	<i>Rhopalotomus ater</i>
<i>Capsus wagneri</i> (Remane)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	<i>Poeciloscytus Gyllenhalii</i> [<i>Charagochilus</i>]
<i>Charagochilus weberi</i> Wagner	-
<i>Chlamydatus evanescens</i> (Boheman)	-
<i>Chlamydatus pulicarius</i> (Fallén)	-
<i>Chlamydatus pullus</i> (Reuter)	<i>Plagiognathus pulicarius</i> [<i>Agalliastes</i>]
<i>Chlamydatus saltitans</i> (Fallén)	<i>Plagiognathus saltitans</i> [<i>Agalliastes</i>]
<i>Chlamydatus wilkinsoni</i> (Douglas & Scott)	<i>Plagiognathus Wilkinsoni</i> [-]
<i>Closterotomus fulvomaculatus</i> (De Geer)	<i>Calocoris fulvomaculatus</i> [<i>Deraeocoris</i>]
<i>Closterotomus norwegicus</i> (Gmelin)	<i>Calocoris bipunctatus</i> [<i>Deraeocoris</i>]
<i>Closterotomus trivialis</i> (A. Costa)	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	<i>Psallus salicellus</i>
<i>Conostethus brevis</i> Reuter	-
<i>Conostethus griseus</i> Douglas & Scott	<i>Conostethus salinus</i> [-]
<i>Conostethus roseus</i> (Fallén)	<i>Conostethus roseus</i>
<i>Conostethus venustus</i> (Fieber)	-
<i>Cyllocoris histrionicus</i> (Linnaeus)	<i>Cyllocoris histrionicus</i>
<i>Cyrtorhinus caricis</i> (Fallén)	<i>Chlamydatus caricis</i> [<i>Sphyracephalus elegantulus</i>]
<i>Deraeocoris flavilinea</i> (A. Costa)	-
<i>Deraeocoris lutescens</i> (Schilling)	<i>Camptobrochis lutescens</i> [<i>punctulatus</i>]
<i>Deraeocoris olivaceus</i> (Fabricius)	-
<i>Deraeocoris ruber</i> (Linnaeus)	<i>Capsus lanarius</i> [<i>capillaris</i>]
<i>Deraeocoris scutellaris</i> (Fabricius)	<i>Capsus scutellaris</i>
<i>Dichrooscytus gustavi</i> Josifov	-
<i>Dichrooscytus rufipennis</i> (Fallén)	<i>Dichrooscytus rufipennis</i>
<i>Dicyphus annulatus</i> (Wolff)	<i>Dicyphus annulatus</i> [<i>Idolocoris</i>]
<i>Dicyphus constrictus</i> (Boheman)	-
<i>Dicyphus epilobii</i> Reuter	<i>Dicyphus pallidus</i> [<i>Idolocoris</i>]
<i>Dicyphus errans</i> (Wolff)	<i>Dicyphus errans</i> [<i>Idolocoris</i>]
<i>Dicyphus escalerae</i> Lindberg	-
<i>Dicyphus globulifer</i> (Fallén)	<i>Dicyphus globulifer</i> [<i>Idolocoris</i>]
<i>Dicyphus pallicornis</i> (Fieber)	<i>Dicyphus pallicornis</i> [<i>Idolocoris</i>]
<i>Dicyphus pallidus</i> (Herrich-Schaeffer)	-
<i>Dicyphus stachydis</i> J. Sahlberg	-
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	<i>Globiceps flavonotatus</i>
<i>Europiella artemisiae</i> (Becker)	<i>Plagiognathus albipennis</i> [-]
<i>Europiella decolor</i> (Uhler)	-
<i>Fieberocapsus flaveolus</i> (Reuter)	-

MIRIDAE (CONTINUED)

<i>Globiceps flavomaculatus</i> (Fabricius)	<i>Globiceps flavomaculatus</i> [<i>selectus</i>]
<i>Globiceps fulvicollis</i> Jakovlev	<i>Globiceps fulvipes</i> [<i>flavomaculatus</i>]
<i>Globiceps juniperi</i> Reuter	-
<i>Grypocoris styisi</i> (Wagner)	<i>Calocoris sexguttatus</i> [<i>Deraeocoris</i>]
<i>Hadrodemus m-flavum</i> (Goeze)	<i>Calocoris marginellus</i> [<i>Deraeocoris</i>]
<i>Hallodapus montandoni</i> Reuter	-
<i>Hallodapus rufescens</i> (Burmeister)	<i>Eroticoris rufescens</i>
<i>Halticus apterus</i> (Linnaeus)	<i>Halticus apterus</i> [<i>Halticocoris pallicornis</i>]
<i>Halticus luteicollis</i> (Panzer)	<i>Halticus luteicollis</i> [<i>Halticocoris</i>]
<i>Halticus macrocephalus</i> Fieber	-
<i>Halticus saltator</i> (Geoffroy)	-
<i>Harpocera thoracica</i> (Fallén)	<i>Harpocera thoracica</i>
<i>Heterocordylus genistae</i> (Scopoli)	<i>Heterocordylus unicolor</i> [+ <i>Heterocordylus leptocerus</i>]
<i>Heterocordylus tibialis</i> (Hahn)	<i>Heterocordylus tibialis</i>
<i>Heterotoma planicornis</i> (Pallas)	<i>Heterotoma merioptera</i>
<i>Hoplomachus thunbergii</i> (Fallén)	<i>Hoplomachus Thunbergi</i> [<i>Thunbergii</i>]
<i>Hypseloecus visci</i> (Puton)	-
<i>Leptopterna dolabrata</i> (Linnaeus)	<i>Leptopterna dolabrata</i> [<i>Lopomorphus dolabratus</i>]
<i>Leptopterna ferrugata</i> (Fallén)	<i>Leptopterna ferrugata</i> [<i>Lopomorphus ferrugatus</i>] [+ <i>Lopomorphus carinatus</i>]
<i>Liocoris tripustulatus</i> (Fabricius)	<i>Liocoris 3-pustulatus</i> [<i>tripustulatus</i>]
<i>Lopus decolor</i> (Fallén)	<i>Oncotylus decolor</i>
<i>Lygocoris pabulinus</i> (Linnaeus)	<i>Lygus pabulinus</i>
<i>Lygocoris rugicollis</i> (Fallén)	<i>Plesiocoris rugicollis</i> [-]
<i>Lygus maritimus</i> Wagner	-
<i>Lygus pratensis</i> (Linnaeus)	<i>Lygus pratensis</i> [+ <i>Lygus campestris</i>]
<i>Lygus punctatus</i> (Zetterstedt)	-
<i>Lygus rugulipennis</i> Poppius	-
<i>Lygus wagneri</i> Remane	-
<i>Macrolophus pygmaeus</i> (Rambur)	<i>Macrolophus nubilus</i>
<i>Macrolophus rubi</i> Woodroffe	-
<i>Macrotylus horvathi</i> (Reuter)	-
<i>Macrotylus paykullii</i> (Fallén)	<i>Macrocoleus Paykullii</i> [<i>paykullii</i>]
<i>Macrotylus solitarius</i> (Meyer-Dür)	<i>Macrocoleus solitarius</i> [-]
<i>Malacocoris chlorizans</i> (Panzer)	<i>Malacocoris chlorizans</i>
<i>Mecomma ambulans</i> (Fallén)	<i>Chlamydatus ambulans</i> [<i>Sphyracephalus ambulans</i>]
<i>Mecomma dispar</i> (Boheman)	<i>Globiceps dispar</i> [-] + <i>Globiceps ater</i> [-]
<i>Megacoelum beckeri</i> (Fieber)	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	<i>Calocoris infusus</i> [<i>Deraeocoris</i>]
<i>Megaloceroea recticornis</i> (Geoffroy)	<i>Megaloceroea longicornis</i> [<i>Miris</i>]
<i>Megalocoleus molliculus</i> (Fallén)	<i>Macrocoleus molliculus</i>
<i>Megalocoleus tanaceti</i> (Fallén)	<i>Macrocoleus tanaceti</i> [<i>Oncotylus pilosus</i>]
<i>Miridius quadrivirgatus</i> (A. Costa)	<i>Miridius quadrivirgatus</i>
<i>Miris striatus</i> (Linnaeus)	<i>Calocoris striatus</i> [<i>Deraeocoris</i>]
<i>Monalocoris filicis</i> (Linnaeus)	<i>Monalocoris filicis</i>
<i>Monosynamma bohemanni</i> (Fallén)	<i>Plagiognathus Bohemanni</i> [<i>Neocoris Bohemanni</i>] + <i>Plagiognathus nigrifulvus</i> [<i>Neocoris Scotti</i>]
<i>Monosynamma maritimum</i> (Wagner)	-
<i>Monosynamma sabulicola</i> (Wagner)	-
<i>Myrmecoris gracilis</i> (R.F. Sahlberg)	-
<i>Neolygus contaminatus</i> (Fallén)	<i>Lygus contaminatus</i> [<i>Lygus sulcifrons</i>]
<i>Neolygus populi</i> (Leston)	-
<i>Neolygus viridis</i> (Fallén)	<i>Lygus viridis</i> [<i>contaminatus</i>]
<i>Notostira elongata</i> (Geoffroy)	-
<i>Notostira erratica</i> (Linnaeus)	<i>Megaloceroea erratica</i> [<i>Miris erraticus</i>]
<i>Oncotylus viridiflavus</i> (Goeze)	<i>Anotherops sutulosus</i> [<i>Anotherops</i>]

MIRIDAE (CONTINUED)

<i>Orthocephalus coriaceus</i> (Fabricius)	<i>Orthocephalus coriaceus</i> [<i>mutabilis</i>]
<i>Orthocephalus saltator</i> (Hahn)	<i>Orthocephalus saltator</i>
<i>Orthonotus rufifrons</i> (Fallén)	<i>Byrsoptera rufifrons</i> [<i>caricis</i>]
<i>Orthops basalis</i> (A. Costa)	-
<i>Orthops campestris</i> (Linnaeus)	<i>Lygus pastinacae</i> [<i>Orthops</i>]
<i>Orthops kalmii</i> (Linnaeus)	<i>Lygus Kalmii</i> [<i>Orthops</i>]
<i>Orthotylus adenocarpi</i> (Perris)	<i>Orthotylus Douglasi</i> [-]
<i>Orthotylus bilineatus</i> (Fallén)	<i>Orthotylus bilineatus</i> [-]
<i>Orthotylus caprai</i> Wagner	-
<i>Orthotylus concolor</i> (Kirschbaum)	<i>Orthotylus concolor</i> [<i>Litosoma</i>]
<i>Orthotylus ericetorum</i> (Fallén)	<i>Orthotylus ericetorum</i> [<i>Litosoma</i>]
<i>Orthotylus flavinervis</i> (Kirschbaum)	<i>Orthotylus flavinervis</i> [<i>Litosoma</i>]
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	<i>Orthotylus flavosparsus</i> [<i>Litosoma</i>] [+ <i>Litosoma prasinus</i>]
<i>Orthotylus fuscescens</i> (Kirschbaum)	-
<i>Orthotylus junipericola</i> Linnavuori	-
<i>Orthotylus marginalis</i> Reuter	<i>Orthotylus nassatus</i> [<i>Litosoma</i>]
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	<i>Orthotylus rubidus</i> var. <i>Moncreaffi</i> [-]
<i>Orthotylus nassatus</i> (Fabricius)	<i>Orthotylus striicornis</i> [<i>Litosoma striicornis</i>] [<i>Litosoma ochrotrichus</i>]
<i>Orthotylus ochrotrichus</i> Fieber	[<i>Litosoma ochrotrichus</i>]
<i>Orthotylus prasinus</i> (Fallén)	<i>Orthotylus prasinus</i> [<i>Litosoma viridinervis</i>]
<i>Orthotylus rubidus</i> (Puton)	<i>Orthotylus rubidus</i> [-]
<i>Orthotylus tenellus</i> (Fallén)	<i>Orthotylus tenellus</i> [<i>Litosoma angustus</i>]
<i>Orthotylus virens</i> (Fallén)	-
<i>Orthotylus virescens</i> (Douglas & Scott)	[<i>Litosoma virescens</i>]
<i>Orthotylus viridinervis</i> (Kirschbaum)	-
<i>Pachytomella parallela</i> (Meyer-Dür)	-
<i>Pantilius tunicatus</i> (Fabricius)	<i>Pantilius tunicatus</i>
<i>Parapsallus vitellinus</i> (Scholtz)	-
<i>Phoenicocoris obscurellus</i> (Fallén)	<i>Psallus obscurellus</i> [<i>Atractotomus Pini</i>]
<i>Phylus coryli</i> (Linnaeus)	<i>Phylus coryli</i> + <i>Phylus avellanae</i>
<i>Phylus melanocephalus</i> (Linnaeus)	<i>Phylus melanocephalus</i> + <i>Phylus palliceps</i>
<i>Phytocoris dimidiatus</i> Kirschbaum	<i>Phytocoris populi</i> [<i>dubius</i>]
<i>Phytocoris insignis</i> Reuter	-
<i>Phytocoris longipennis</i> Flor	<i>Phytocoris longipennis</i> [<i>dimidiatus</i>]
<i>Phytocoris pini</i> Kirschbaum	<i>Phytocoris pini</i> [-]
<i>Phytocoris populi</i> (Linnaeus)	[<i>Phytocoris distinctus</i>]
<i>Phytocoris reuteri</i> Saunders	<i>Phytocoris Reuteri</i> [<i>crassipes</i>]
<i>Phytocoris tiliae</i> (Fabricius)	<i>Phytocoris tiliae</i>
<i>Phytocoris ulmi</i> (Linnaeus)	<i>Phytocoris ulmi</i> [<i>divergens</i>]
<i>Phytocoris varipes</i> Boheman	<i>Phytocoris varipes</i> [<i>Ulmi</i>]
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	<i>Pilophorus bifasciatus</i> [<i>Camaronotus cinnamopterus</i>]
<i>Pilophorus clavatus</i> (Linnaeus)	<i>Pilophorus clavatus</i> [<i>Camaronotus</i>]
<i>Pilophorus confusus</i> (Kirschbaum)	-
<i>Pilophorus perplexus</i> Douglas & Scott	-
<i>Pinalitus atomarius</i> (Meyer-Dür)	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	<i>Lygus cervinus</i> [<i>Orthops</i>]
<i>Pinalitus rubricatus</i> (Fallén)	<i>Lygus rubricatus</i>
<i>Pinalitus viscidicola</i> (Puton)	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	<i>Pithanus Märkeli</i>
<i>Placochilus seladonicus</i> (Fallén)	-
<i>Plagiognathus arbustorum</i> (Fabricius)	<i>Plagiognathus arbustorum</i>
<i>Plagiognathus chrysanthemi</i> (Wolff)	<i>Plagiognathus viridulus</i>
<i>Platycranus bicolor</i> (Douglas & Scott)	<i>Orthotylus chloropterus</i> [<i>Litosoma chloropterus</i>]
<i>Plesiodema pinetella</i> (Zetterstedt)	<i>Plesiodema pinetellum</i> [-]
<i>Polymerus nigrita</i> (Fallén)	<i>Poeciloscytus nigrinus</i> [<i>Systratiotus</i>]
<i>Polymerus palustris</i> (Reuter)	-

MIRIDAE (CONTINUED)

<i>Polymerus unifasciatus</i> (Fabricius)	<i>Poeciloscytus unifasciatus</i>
<i>Polymerus vulneratus</i> (Panzer)	-
<i>Psallodema fieberi</i> (Fieber)	<i>Psallus Fieberi</i>
<i>Psallus albicinctus</i> (Kirschbaum)	-
<i>Psallus ambiguus</i> (Fallén)	<i>Psallus ambiguus</i> [<i>Apocremnus obscurus</i>]
<i>Psallus assimilis</i> Stichel	<i>Psallus simillimus</i> [<i>Apocremnus</i>]
<i>Psallus betuleti</i> (Fallén)	<i>Psallus betuleti</i> [<i>Apocremnus ambiguus</i>]
<i>Psallus confusus</i> Rieger	<i>Psallus diminutus</i> [-]
<i>Psallus falleni</i> Reuter	<i>Psallus roseus</i> [<i>salicis</i>]
<i>Psallus flavellus</i> Stichel	<i>Psallus Kirschbaumi</i> [<i>roseus</i>]
<i>Psallus haematodes</i> (Gmelin)	<i>Psallus sanguineus</i>
	[+ <i>Psallus Querceti</i>]
	[+ <i>Psallus dilutus</i>]
	<i>Psallus lepidus</i>
<i>Psallus lepidus</i> Fieber	-
<i>Psallus luridus</i> Reuter	-
<i>Psallus mollis</i> (Mulsant & Rey)	-
<i>Psallus montanus</i> Josifov	-
<i>Psallus perrisi</i> (Mulsant & Rey)	-
<i>Psallus pseudoplatani</i> Reichling	-
<i>Psallus quercus</i> (Kirschbaum)	<i>Psallus quercus</i> [<i>Apocremnus Quercus</i>]
<i>Psallus salicis</i> (Kirschbaum)	<i>Psallus alnicola</i> [<i>Alni</i>]
<i>Psallus variabilis</i> (Fallén)	<i>Psallus variabilis</i> [<i>Apocremnus</i>]
<i>Psallus varians</i> (Herrich-Schaeffer)	<i>Psallus varians</i>
	[+ <i>Psallus distinctus</i>]
<i>Psallus wagneri</i> Ossiannilsson	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	<i>Loxops coccineus</i> [-]
<i>Reuteria marqueti</i> Puton	-
<i>Rhabdomiris striatellus</i> (Fabricius)	<i>Calocoris striatellus</i> [<i>Deraeocoris</i>]
	[+ <i>Deraeocoris fornicatus</i>]
<i>Salicarus roseri</i> (Herrich-Schaeffer)	<i>Plagiognathus Roseri</i> [-]
<i>Stenodema calcarata</i> (Fallén)	<i>Miris calcaratus</i>
<i>Stenodema holsata</i> (Fabricius)	<i>Miris holsatus</i>
<i>Stenodema laevigata</i> (Linnaeus)	<i>Miris laevigatus</i>
<i>Stenodema trispinosa</i> Reuter	-
<i>Stenotus binotatus</i> (Fabricius)	<i>Oncognathus binotatus</i> [<i>Deraeocoris</i>]
<i>Sthenarus rotermundi</i> (Scholtz)	<i>Psallus Rotermundi</i> [<i>Sthenarus</i>]
<i>Strongylocoris leucocephalus</i> (Linnaeus)	<i>Stiphrosoma leucocephalum</i> [<i>leucocephala</i>]
<i>Strongylocoris luridus</i> (Fallén)	<i>Stiphrosoma luridum</i> [-]
<i>Systemonotus triguttatus</i> (Linnaeus)	<i>Systemonotus triguttatus</i>
<i>Teratocoris antennatus</i> (Boheman)	<i>Teratocoris antennatus</i> [-]
<i>Teratocoris caricis</i> Kirkaldy	-
<i>Teratocoris saundersi</i> Douglas & Scott	<i>Teratocoris Saundersi</i> [-]
<i>Teratocoris viridis</i> Douglas & Scott	<i>Teratocoris viridis</i> [-]
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	<i>Macrocoleus hortulanus</i> [<i>Oncotylus tanaceti</i>]
<i>Trigonotylus caelestialium</i> (Kirkaldy)	-
<i>Trigonotylus psammaecolor</i> Reuter	-
<i>Trigonotylus ruficornis</i> (Geoffroy)	<i>Megaloceraea ruficornis</i> [<i>Miris</i>]
<i>Tropidosteptes pacificus</i> (Van Duzee)	-
<i>Tupiocoris rhododendri</i> (Dolling)	-
<i>Tuponia brevirostris</i> Reuter	-
<i>Tuponia mixticolor</i> (A. Costa)	-
<i>Tytthus pubescens</i> (Knight)	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	<i>Chlamydatius insignis</i> [-]
<i>Zygmus nigriceps</i> (Fallén)	-

CERATOCOMBIDAE

<i>Ceratocombus coleoptratus</i> (Zetterstedt)	<i>Ceratocombus coleoptratus</i> [<i>muscorum</i>]
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DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	<i>Cryptostemma alienum</i> [<i>Dipsocoris</i>]
<i>Pachycoleus waltli</i> Fieber	-

SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	<i>Salda cincta</i>
<i>Chartoscirta cocksii</i> (Curtis)	<i>Salda Cocksii</i> [<i>elegantula</i>]
<i>Chartoscirta elegantula</i> (Fallén)	<i>Salda elegantula</i> [-]
<i>Chiloxanthus pilosus</i> (Fallén)	<i>Salda pilosa</i>
<i>Halosalda lateralis</i> (Fallén)	<i>Salda lateralis</i>
	[+ <i>Salda pulchella</i>]
<i>Macrosaldula scotica</i> (Curtis)	<i>Salda scotica</i> [<i>riparia</i>]
<i>Micracanthia marginalis</i> (Fallén)	<i>Salda marginalis</i>
<i>Salda littoralis</i> (Linnaeus)	<i>Salda littoralis</i>
<i>Salda morio</i> Zetterstedt	<i>Salda morio</i> [-]
<i>Salda muelleri</i> (Gmelin)	-
<i>Saldula arenicola</i> (Scholtz)	<i>Salda arenicola</i> [-]
<i>Saldula c-album</i> (Fieber)	<i>Salda C-album</i> [<i>stellata</i>]
<i>Saldula connemarae</i> Walton	-
<i>Saldula fucicola</i> (J. Sahlberg)	-
<i>Saldula melanoscela</i> (Fieber)	-
<i>Saldula opacula</i> (Zetterstedt)	<i>Salda opacula</i> [-]
<i>Saldula orthochila</i> (Fieber)	<i>Salda orthochila</i>
<i>Saldula pallipes</i> (Fabricius)	<i>Salda pallipes</i>
<i>Saldula palustris</i> (Douglas)	-
<i>Saldula pilosella</i> (Thomson)	<i>Salda pilosella</i> [-]
<i>Saldula saltatoria</i> (Linnaeus)	<i>Salda saltatoria</i>
<i>Saldula setulosa</i> (Puton)	-
<i>Teloleuca pellucens</i> (Fabricius)	<i>Salda conspicua</i> [-]

AEOPHILIDAE

<i>Aepophilus bonnairei</i> Signoret	-
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MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	<i>Mesovelia furcata</i> [-]
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	<i>Hebrus pusillus</i>
<i>Hebrus ruficeps</i> Thomson	-

HYDROMETRIDAE

<i>Hydrometra gracilentata</i> Horváth	-
<i>Hydrometra stagnorum</i> (Linnaeus)	<i>Hydrometra stagnorum</i> [<i>Limnobates</i>]

VELIIDAE

<i>Microvelia buenoi</i> Drake	-
<i>Microvelia pygmaea</i> (Dufour)	<i>Microvelia pygmaea</i>
<i>Microvelia reticulata</i> (Burmeister)	-
<i>Velia caprai</i> Tamanini	<i>Velia currens</i>
<i>Velia saulii</i> Tamanini	-

GERRIDAE

<i>Aquarius najas</i> (De Geer)	<i>Gerris Najas</i> [<i>Hydrometra najas</i>]
<i>Aquarius paludum</i> (Fabricius)	<i>Gerris paludum</i> [<i>Hydrometra</i>]
<i>Gerris argentatus</i> Schummel	<i>Gerris argentata</i> [<i>Hydrometra</i>]
<i>Gerris costae</i> (Herrich-Schaeffer)	<i>Gerris costae</i> [-]
<i>Gerris gibbifer</i> Schummel	<i>Gerris gibbifera</i> [<i>Hydrometra</i>]
<i>Gerris lacustris</i> (Linnaeus)	<i>Gerris lacustris</i> [<i>Hydrometra</i>]
<i>Gerris lateralis</i> Schummel	<i>Gerris aspera</i> [-]
<i>Gerris odontogaster</i> (Zetterstedt)	<i>Gerris odontogaster</i> [-]

GERRIDAE (CONTINUED)

Gerris thoracicus Schummel *Gerris thoracica* [Hydrometra]
Limnoporus rufoscutellatus (Latreille) *Gerris rufoscutellata* [-]

NEPIDAE

Nepa cinerea Linnaeus *Nepa cinerea*
Ranatra linearis (Linnaeus) *Ranatra linearis*

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus) *Naucoris cimicoides*
Naucoris maculatus Fabricius -

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius) *Aphelocheirus aestivalis*

NOTONECTIDAE

Notonecta glauca Linnaeus *Notonecta glauca*
Notonecta maculata Fabricius *Notonecta glauca* var. *maculata* [*Notonecta maculata*]
Notonecta obliqua Thunberg [*Notonecta glauca* var. *furcata*]
Notonecta viridis Delcourt -

PLEIDAE

Plea minutissima Leach *Plea minutissima*

CORIXIDAE

Arctocorisa carinata (C.R. Sahlberg) *Corixa carinata* [-]
Arctocorisa germari (Fieber) *Corixa variegata* [-]
Callicorixa praeusta (Fieber) *Corixa praeusta* [-]
+*Corixa sodalis* [-]
+*Corixa Boldii* [-]
Callicorixa wollastoni (Douglas & Scott) *Corixa Wollastoni*
+*Corixa cognata* [-]
Corixa affinis Leach *Corixa affinis*
Corixa dentipes Thomson -
Corixa iberica Jansson -
Corixa panzeri Fieber *Corixa Panzeri*
Corixa punctata (Illiger) *Corixa Geoffroyi*
Cymatia bondsdorffii (C.R. Sahlberg) *Cymatia Bondsdorffii*
Cymatia coleoptrata (Fabricius) *Cymatia coleoptrata*
Cymatia rogenhoferi (Fieber) -
Glaenocorisa cavifrons (Thomson) *Corixa cavifrons* [-]
Glaenocorisa propinqua (Fieber) -
Hesperocorixa castanea (Thomson) -
Hesperocorixa linnaei (Fieber) *Corixa Linnaei* [Linnéi]
Hesperocorixa moesta (Fieber) *Corixa moesta*
Hesperocorixa sahlbergi (Fieber) *Corixa Sahlbergi*
Micronecta griseola Horváth -
Micronecta minutissima (Linnaeus) *Sigara minutissima*
Micronecta poweri (Douglas & Scott) -
Micronecta scholtzi (Fieber) *Sigara Scholtzii* [-]
Paracorixa concinna (Fieber) *Corixa concinna*
Sigara distincta (Fieber) *Corixa distincta*
+ *Corixa vernicosa* [-]
[+ *Corixa Douglasi*]
Sigara dorsalis (Leach) -
Sigara falleni (Fieber) *Corixa Fallenii* [Falléni]
Sigara fallenoidea (Hungerford) -
Sigara fossarum (Leach) *Corixa fossarum*
Sigara iactans Jansson -
Sigara lateralis (Leach) *Corixa hieroglyphica*

CORIXIDAE (CONTINUED)

<i>Sigara limitata</i> (Fieber)	<i>Corixa limitata</i> [-]
<i>Sigara longipalis</i> (J. Sahlberg)	-
<i>Sigara nigrolineata</i> (Fieber)	<i>Corixa Fabricii</i> [<i>nigrolineata</i>]
<i>Sigara scotti</i> (Douglas & Scott)	<i>Corixa Scotti</i> [-]
<i>Sigara selecta</i> (Fieber)	<i>Corixa Ståli</i>
<i>Sigara semistriata</i> (Fieber)	<i>Corixa semistriata</i>
<i>Sigara stagnalis</i> (Leach)	<i>Corixa lugubris</i>
<i>Sigara striata</i> (Linnaeus)	<i>Corixa striata</i>
<i>Sigara venusta</i> (Douglas & Scott)	<i>Corixa venusta</i> [-]

N.B. The name *Rhyparochromus dimidiatus* (Lygaeidae) of Douglas & Scott (1865) is not included in the above list as I have not been able to find the modern name to which it corresponds.

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**AN ANNOTATED CHECKLIST OF THE AMBIGUOUS SPECIES NAMES OF
HEMIPTERA-HETEROPTERA FROM DOUGLAS & SCOTT (1865) TO SAUNDERS (1892)**

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This article is a prequel to Ryan (2015, 2016 & 2018), which listed the ambiguous species names of the British Hemiptera-Heteroptera following Saunders (1892a). The present article lists the additional ambiguous species names that arose in the period prior to the publication of this work, and after Douglas & Scott (1865), and thereby assists in the interpretation of records published at this time. As stated previously, the significance of ambiguous species names is that once it is discovered that two distinct species have been recorded under the same name, all previous records must be discounted, unless they are supported by authenticated specimens.

The first decade of this period was a time of considerable change in the British list presented in Douglas & Scott (1865). Many additions and corrections to this work were published, not least by the authors themselves, and some form of stability did not exist until the Synopsis of Saunders (1875a, 1875b & 1876). Many of the ambiguities described below therefore relate only to the decade immediately following Douglas & Scott (1865). These are marked with ‘*’.

PENTATOMIDAE

Pentatoma baccharum

The *Pentatoma baccharum* of the Synopsis did not refer to the *Dolycoris baccharum* (Linnaeus) of today, but to *Carpocoris purpureipennis* (De Geer) or *Carpocoris mediterraneus* Tamanini. However, since the latter are rarely encountered, the degree of confusion is likely to be very small. Douglas & Scott (1865) did not include the ambiguity.

*Piezodorus purpureipennis**

The use of this name in Douglas & Scott (1865) does not refer to the *Carpocoris purpureipennis* (De Geer) of today, but to *Piezodorus lituratus* (Fabricius), a common species. The real *C. purpureipennis* goes by the name *Pentatoma nigricorne*, and is a rare species. This confusion does not occur in the Synopsis.

*Strachia ornata**

The use of this name in Douglas & Scott (1865) does not refer to the *Eurydema ornata* (Linnaeus) of today, but to *Eurydema dominulus* (Scopoli), a common species. The real *E. ornata* is not described, and today has a very restricted distribution. This confusion does not occur in the Synopsis.

LYGAEIDAE

Cymus species*

The common *Cymus melanocephalus* Fieber was first reported as British by Saunders (1874). Prior records of this bug may have been recorded as *Cymus clavicularis* (Fallén) or *Cymus glandicolor* Hahn. This confusion does not occur in the Synopsis.

Henestaris laticeps

Henestaris halophilus (Burmeister) was not separated from *Henestaris laticeps* (Curtis) until Saunders (1891), and the former was found in collections standing over the name of the latter. However, the former is much less frequently encountered than the latter, and the degree of confusion is likely to be small.

*Ischnorhynchus Resedae**

The use of this name in Douglas & Scott (1865) does not refer to the *Kleidocerys resedae* (Panzer) of today, but to *Kleidocerys ericae* (Horváth), both common species. The real *K. resedae* was not described. This confusion was promptly corrected in Douglas & Scott (1866), so the degree of confusion is likely to be small.

Peritrechus nubilus

Peritrechus geniculatus (Hahn) was not recognised as British until Douglas (1875 & 1879), and had previously been confused with *Peritrechus nubilus* (Fallén). Since the former species is much more frequently encountered than the latter, many earlier records for the above name presumably refer to the former species.

*Plociomerus fracticollis**

Pachybrachius luridus Hahn was first reported as British by Saunders (1870), as *Plociomerus luridus*. The bug is much less frequently encountered than *Pachybrachius fracticollis* (Schilling) (*Plociomerus fracticollis* of Douglas & Scott (1865)), so the degree of confusion is likely to be small.

Scolopostethus species

The three common members of this genus, *Scolopostethus affinis* (Schilling), *Scolopostethus decoratus* (Hahn) and *Scolopostethus thomsoni* Reuter, were confused prior to Horváth (1891). *Scolopostethus grandis* Horváth was first mentioned as British at this time, and *Scolopostethus puberulus* Horváth in Saunders (1892a). Only the distinct *Scolopostethus pictus* (Schilling) is likely to have escaped confusion previously.

NABIDAE

Nabis species*

The *Nabis apterus* and *Nabis flavomarginatus* of Douglas & Scott (1865) are not the *Himacerus apterus* (Fabricius) and *Nabis flavomarginatus* Scholtz of today, but refer to *Himacerus mirmicoides* (O. Costa) and *Himacerus major* (A. Costa), respectively, all frequently encountered species. Furthermore, *Nabis ericetorum* Scholtz and *Nabis lineatus* Dahlbom are absent from Douglas & Scott (1865), but they are much less common than their similar congeners, *Nabis rugosus* (Linnaeus) and *Nabis limbatus* Dahlbom, respectively, so the degree of confusion here is likely to be small. These ambiguities do not occur in the Synopsis.

ANTHOCORIDAE

*Acompocoris pygmaeus**

Acompocoris alpinus Reuter is absent in Douglas & Scott (1865), so some records for *Acompocoris pygmaeus* (Fallén) at this time may refer to it. Both species are widely distributed. This confusion does not occur in the Synopsis.

Anthocoris nemoralis

The common *Anthocoris confusus* Reuter was not recognised as British until Edwards (1890), so many earlier records for the common *Anthocoris nemoralis* (Fabricius) are likely to refer to this species.

MICROPHYSIDAE

Myrmedobia species

Myrmedobia distinguenda (*Loricula distinguenda* (Reuter) of today) was not recognised as British until Saunders (1892a & 1892b), and any previous encounters were likely to have been referred to *M. coleoprata* (*Loricula coleoprata* (Fallén)) (males only) or *M. tenella* (*Loricula exilis* (Fallén)) (both sexes). *M. inconspicua* (*Loricula inconspicua* (Douglas & Scott)) was added in Douglas & Scott (1871), as *Pseudophleps inconspicuus*, but given that it is restricted to coastal situations, it is unlikely to be the subject of significant prior confusion with its congeners. Before the Synopsis there is the possibility of greater confusion, since of the above names only *M. coleoprata* appears in Douglas & Scott (1865).

MIRIDAE

*Apocremnus ambiguus**

The use of this name in Douglas & Scott (1865) does not refer to the *Psallus ambiguus* (Fallén) of today, but to *Psallus betuleti* (Fallén) and *Psallus montanus* Josifov. The real *P. ambiguus* goes by the name *A. obscurus*. These species are frequently encountered. This confusion does not occur in the Synopsis.

Atractotomus species

The *Atractotomus magnicornis* (Fallén) described in Douglas & Scott (1865) is really *Atractotomus mali* (Meyer-Dür). This was corrected in Douglas & Scott (1869), but the real *A. magnicornis* was not recognised as British until Saunders (1879), and would have been recorded as *A. mali* prior to this time. Hence, both names are likely to have been the subject of ambiguity, both species having been referred to by the wrong name at one time or another.

Camaronotus cinnamomopterus and *Pilophorus bifasciatus*

The common *Pilophorus perplexus* Douglas & Scott was not recognised as British until Reuter (1878), and many of the records for *C. cinnamomopterus* of Douglas & Scott (1865) and *P. bifasciatus* of the Synopsis are therefore likely to refer to this species.

Conostethus salinus

Conostethus brevis Reuter was first reported as British in Reuter (1877), and the above name went for both species prior to this time. However, *C. brevis* is much less frequently encountered than *C. salinus* (*Conostethus griseus* Douglas & Scott of today), and the degree of confusion is probably small. Neither species is mentioned in Douglas & Scott (1865).

Dicyphus pallidus and *Dicyphus errans*

The *Dicyphus pallidus* of Douglas & Scott (1865) and the Synopsis is not the *Dicyphus pallidus* (Herrich-Schaeffer) of today but *Dicyphus epilobii* Reuter (Reuter, 1883). *Dicyphus constrictus* (Boheman) and *Dicyphus stachydis* J. Sahlberg were not recognised as British until Reuter (1883), and earlier records were probably assigned to *Dicyphus errans* (Wolff), given the shared host plant of Hedge Woundwort, *Stachys sylvatica* L. (Lamiaceae).

*Globiceps flavomaculatus**

The use of this name in Douglas & Scott (1865) does not refer to the *Globiceps flavomaculatus* (Fabricius) of today, but to *Globiceps fulvicollis* Jakovlev, both of which are widely distributed. The real *G. flavomaculatus* goes by the name *G. selectus* in Douglas & Scott (1865). This confusion does not occur in the Synopsis.

*Lygus contaminatus**

The use of this name in Douglas & Scott (1865) does not refer to the *Neolygus contaminatus* (Fallén) of today, but to *Neolygus viridis* (Fallén). The real *N. contaminatus* goes by the name *Lygus sulcifrons*. Both species are frequently encountered. This confusion does not occur in the Synopsis.

*Oncotylus tanaceti**

The use of this name in Douglas & Scott (1865) does not refer to the *Megalocoleus tanaceti* (Fallén) of today, but to *Tinicephalus hortulanus* (Meyer-Dür). The real *M. tanaceti* goes by the name *Oncotylus pilosus*. Both species are frequently encountered, but occur on different host plants. This confusion does not occur in the Synopsis.

Orthotylus species

There is a lot of confusion here. The orthotylinines of elm (*Orthotylus ochrotrichus* Fieber, *Orthotylus prasinus* (Fallén) and *Orthotylus viridinervis* (Kirschbaum)) and broom (*Orthotylus adenocarpi* (Perris), *Orthotylus concolor* (Kirschbaum) and *Orthotylus virescens* (Douglas & Scott)) are likely to have been confused on these hosts. The Synopsis did not include *O. viridinervis*, *O. ochrotrichus* and *O. virescens*, creating uncertainty as to which name would have been given to these species. Douglas & Scott (1865) included five of the six names (all except for *O. adenocarpi*), assigned to the genus *Litosoma*, but, according to the Synopsis and Saunders (1892a), *L. prasinus* referred to *Orthotylus flavosparsus* (C.R. Sahlberg) and *L. viridinervis* to *O. prasinus*. Furthermore, the *L. nassatus* of Douglas & Scott (1865) and *O. nassatus* of the Synopsis are not the *Orthotylus nassatus* (Fabricius) of today, but refer to *Orthotylus marginalis* Reuter, which situation was not corrected until Saunders (1892a). The *O. chloropterus* of Saunders (1892a) refers to *O. virescens*, but referred to *Platycranus bicolor* (Douglas & Scott) in Douglas & Scott (1865) and the Synopsis. The name *O. virescens* is absent from the Synopsis, but *L. virescens* is present in Douglas & Scott (1865).

Phytocoris species

In the Synopsis the name *Phytocoris populi* does not refer to the *Phytocoris populi* (Linnaeus) of today, but to *Phytocoris dimidiatus* Kirschbaum. Douglas & Scott (1865) did not include this ambiguity, referring to the two species with the separate names *P. distinctus* and *P. dubius*,

respectively, but the *P. dimidiatus* of Douglas & Scott (1865) is really *Phytocoris longipennis* Flor. Furthermore, the *P. ulmi* of Douglas & Scott (1865) is actually the *Phytocoris varipes* Boheman of today. The *Phytocoris ulmi* (Linnaeus) of today goes by the name *P. divergens*.

*Psallus roseus**

The use of this name in Douglas & Scott (1865) does not refer to the *Psallus roseus* of the Synopsis (*Psallus falleni* Reuter of today) but to *P. Kirschbaumi* (*Psallus flavellus* Stichel of today), both widely distributed species. The real *P. falleni* goes by the name *P. salicis*.

*Psallus salicis**

The use of this name in Douglas & Scott (1865) does not refer to the species known as *Psallus salicis* (Kirschbaum) today but to *Psallus falleni* Reuter, as mentioned above. The real *P. salicis* was known as *P. Alni*. This confusion does not occur in the Synopsis.

*Psallus varians**

The *Psallus diminutus* of the Synopsis (*Psallus confusus* Rieger and *Psallus mollis* (Mulsant & Rey) of today) is absent from Douglas & Scott (1865), and these species are therefore likely to have been recorded as *P. varians*, given that they all commonly occur on the same host plant, oak, *Quercus* spp. (Fagaceae).

SALDIDAE

*Salda elegantula**

The use of this name in Douglas & Scott (1865) does not refer to the *Chartoscirta elegantula* (Fallén) of today, but to *Chartoscirta cocksii* (Curtis). The real *C. elegantula* is absent from Douglas & Scott (1865). Both of these widely distributed species would therefore have been recorded under the above name prior to the Synopsis, which did not include the confusion.

*Salda riparia**

The use of this name in Douglas & Scott (1865) does not refer to the *S. riparia* of Saunders (1892a) (*Teloleuca pellucens* (Fabricius) of today), but to *S. scotica* (*Macrosaldula scotica* (Curtis) of today). The real *T. pellucens* (*S. conspicua* of the Synopsis) is absent from Douglas & Scott (1865).

HEBRIDAE

Hebrus pusillus

Hebrus ruficeps Thomson was first reported as British by Reuter (1877), and the above name went for both species prior to this time. The new species is the commoner of the two, and the above name could refer to either species.

GERRIDAE

Gerris species*

The *G. aspera*, *G. costae* and *G. odontogaster* of the Synopsis are absent from Douglas & Scott (1865). The last two omissions were promptly reported by Douglas (1866), but *G. aspera* was not reported as British until Douglas (1876) and the Synopsis. Consequently, records for these species may have gone by the names of their congeners prior to the Synopsis.

CORIXIDAE

Corixa species*

There are many absentees from the list of corixids presented in Douglas & Scott (1865), compared with that of the Synopsis, a number of which are widespread and may have been recorded under the names of congeners that are included in the list. Records for the absentee *Callicorixa praeusta* (Fieber) are likely to have been assigned to *Callicorixa wollastoni* (Douglas & Scott) (*Corixa Wollastoni* of Douglas & Scott (1865)), until the former's addition by Douglas (1866). *Sigara limitata* (Fieber), *Sigara scotti* (Douglas & Scott) and *Sigara venusta* (Douglas & Scott) were first reported as British by Douglas (1866), Douglas & Scott (1868) and Douglas & Scott (1869), respectively (as *C. limitata*, *C. scotti* and *C. venusta*). Douglas & Scott (1869) also added *Arctocorisa carinata* (C.R. Sahlberg) and *Arctocorisa germari* (Fieber), as *C. Sharpi* and *C. intricata*, respectively.

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**THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR DEVON
INTO VICE-COUNTY LISTS FOR VC3 AND VC4**

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Introduction

The list of Hemiptera-Heteroptera for Devon in Ryan (2014) was compiled from that of Masee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Devon (VC3) and Watsonian North Devon (VC4).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). The resulting vice-county lists include 285 records, compared with 337 for the original Devon list. The list for Devon as a whole has shortened by 108, the decrease arising from two species added to the list and 110 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Devon are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking the records relate to the references from which they were derived, as indicated in Table 1.

The divided records

ARADIDAE

<i>Aneurus avenius</i> (Dufour) [DELETED]	-	-
<i>Aneurus laevis</i> (Fabricius) [DELETED]	-	-
<i>Aradus depressus</i> (Fabricius) [DELETED]	-	-

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC3 (53)	-
<i>Cyphostethus tristriatus</i> (Fabricius) [DELETED]	-	-
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC3 (12)	-
<i>Elasmucha grisea</i> (Linnaeus)	VC3 (46)	-

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	VC3 (4)	VC4 (4)
<i>Legnotus limbosus</i> (Geoffroy)	VC3 (24)	VC4 (10)
<i>Sehirus luctuosus</i> Mulsant & Rey	VC3 (28)	-
<i>Tritomegas bicolor</i> (Linnaeus) [DELETED]	-	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	VC3 (24)	VC4 (52)
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SCUTELLERIDAE

<i>Eurygaster maura</i> (Linnaeus) [DELETED]	-	-
<i>Eurygaster testudinaria</i> (Geoffroy) [DELETED]	-	-
<i>Odontoscelis lineola</i> Rambur	-	VC4 (4)

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC3 (52)	-
<i>Dolycoris baccarum</i> (Linnaeus)	VC3 (12)	VC4 (47)
<i>Eurydema dominulus</i> (Scopoli) [DELETED]	-	-
<i>Eurydema oleracea</i> (Linnaeus)	VC3 (24)	-
<i>Mecidea lindbergi</i> Wagner [NEW]	VC3 (44)	-
<i>Neottiglossa pusilla</i> (Gmelin) [DELETED]	-	-
<i>Palomena prasina</i> (Linnaeus)	VC3 (12)	-
<i>Pentatoma rufipes</i> (Linnaeus)	VC3 (12)	-
<i>Peribalus strictus</i> (Fabricius)	VC3 (23)	-
<i>Picromerus bidens</i> (Linnaeus)	VC3 (53)	-
<i>Piezodorus lituratus</i> (Fabricius)	VC3 (12)	-
<i>Podops inunctus</i> (Fabricius)	VC3 (53)	-
<i>Rhacognathus punctatus</i> (Linnaeus)	VC3 (24)	-
<i>Troilus luridus</i> (Fabricius)	VC3 (53)	-
<i>Zicrona caerulea</i> (Linnaeus)	-	VC4 (10)

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	-	VC4 (4)
<i>Coreus marginatus</i> (Linnaeus)	VC3 (12)	-
<i>Coriomeris denticulatus</i> (Scopoli)	VC3 (24)	-
<i>Enoplops scapha</i> (Fabricius)	VC3 (48)	-
<i>Syromastus rhombeus</i> (Linnaeus)	VC3 (28)	VC4 (47)

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	VC3 (24)	-
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling) [DELETED]	-	-
<i>Corizus hyoscyami</i> (Linnaeus)	VC3 (4)	VC4 (4)
<i>Liorhysus hyalinus</i> (Fabricius)	-	VC4 (34)
<i>Myrmus miriformis</i> (Fallén)	-	VC4 (52)
<i>Rhopalus subrufus</i> (Gmelin)	VC3 (12)	VC4 (10)

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	VC3 (24)	-
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STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	VC3 (4)	VC4 (4)
<i>Dicranocephalus albipes</i> (Fabricius) [DELETED]	-	-
<i>Dicranocephalus medius</i> (Mulsant & Rey)	VC3 (4)	-

LYGAEIDAE

<i>Aphanus rolandri</i> (Linnaeus)	VC3 (24)	VC4 (2)
<i>Beosus maritimus</i> (Scopoli)	VC3 (4)	-
<i>Chilacis typhae</i> (Perris) [DELETED]	-	-
<i>Cymus claviculus</i> (Fallén)	VC3 (12)	-
<i>Cymus glandicolor</i> Hahn	VC3 (22)	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC3 (24)	-
<i>Drymus pilipes</i> Fieber	VC3 (24)	-
<i>Drymus ryeii</i> Douglas & Scott [DELETED]	-	-
<i>Drymus sylvaticus</i> (Fabricius)	VC3 (29)	-
<i>Eremocoris podagricus</i> (Fabricius)	-	VC4 (24)
<i>Gastrodes grossipes</i> (De Geer)	VC3 (24)	-
<i>Graptopeltus lynceus</i> (Fabricius) [DELETED]	-	-

LYGAEIDAE (CONTINUED)

<i>Henestaris laticeps</i> (Curtis)	VC3 (40)	-
<i>Heterogaster urticae</i> (Fabricius) [DELETED]	-	-
<i>Ischnocoris angustulus</i> (Boheman)	VC3 (40)	-
<i>Kleidocerys ericae</i> (Horváth)	VC3 (12)	-
<i>Kleidocerys resedae</i> (Panzer)	VC3 (24)	-
<i>Lamproplax picea</i> (Flor)	VC3 (7)	-
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	VC3 (53)	VC4 (31)
<i>Macrodema microptera</i> (Curtis)	VC3 (12)	VC4 (14)
<i>Megalonotus antennatus</i> (Schilling)	VC3 (24)	-
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	VC3 (40)	-
<i>Notochilus limbatus</i> Fieber	VC3 (26)	VC4 (47)
<i>Nysius ericae</i> (Schilling) [DELETED]	-	-
<i>Nysius thymi</i> (Wolff)	-	VC4 (36)
<i>Peritrechus geniculatus</i> (Hahn)	-	VC4 (31)
<i>Peritrechus lundii</i> (Gmelin)	VC3 (28)	-
<i>Peritrechus nubilus</i> (Fallén) [DELETED]	-	-
<i>Plinthinus brevipennis</i> (Latreille)	VC3 (8)	VC4 (31)
<i>Raglius alboacuminatus</i> (Goeze)	VC3 (24)	-
<i>Rhyparochromus pini</i> (Linnaeus)	VC3 (53)	VC4 (4)
<i>Scolopostethus affinis</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus decoratus</i> (Hahn)	VC3 (12)	-
<i>Scolopostethus grandis</i> Horváth [DELETED]	-	-
<i>Scolopostethus pictus</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus puberulus</i> Horváth	VC3 (49)	-
<i>Scolopostethus thomsoni</i> Reuter	VC3 (12)	-
<i>Stygnocoris fuliginus</i> (Geoffroy)	VC3 (12)	VC4 (47)
<i>Stygnocoris rusticus</i> (Fallén)	VC3 (12)	-
<i>Stygnocoris sabulosus</i> (Schilling)	VC3 (12)	-
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Trapezonotus ullrichi</i> (Fieber)	VC3 (4)	-
<i>Tropistethus holosericus</i> (Scholtz)	VC3 (40)	-
<i>Xanthochilus quadratus</i> (Fabricius)	VC3 (6)	-

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius) [DELETED]	-	-
<i>Berytinus crassipes</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Berytinus hirticornis</i> (Brullé)	VC3 (11)	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	-	VC4 (24)
<i>Berytinus montivagus</i> (Meyer-Dür)	VC3 (53)	VC4 (24)
<i>Berytinus signoreti</i> (Fieber) [DELETED]	-	-
<i>Gampsocoris punctipes</i> (Germar)	VC3 (24)	VC4 (52)
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	VC3 (56)	-
<i>Neides tipularius</i> (Linnaeus)	VC3 (28)	-

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC3 (30)	-
<i>Piesma maculatum</i> (Laporte)	VC3 (8)	-

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	VC3 (8)	-
<i>Acalypta carinata</i> (Panzer) [DELETED]	-	-
<i>Acalypta parvula</i> (Fallén)	VC3 (24)	-
<i>Agramma laetum</i> (Fallén) [DELETED]	-	-

TINGIDAE (CONTINUED)

<i>Campylosteira verna</i> (Fallén) [DELETED]	-	-
<i>Catoplatus fabricii</i> (Stål) [DELETED]	-	-
<i>Derephysia foliacea</i> (Fallén)	VC3 (12)	VC4 (52)
<i>Dictyla convergens</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Dictyonota strichnocera</i> Fieber	VC3 (24)	-
<i>Kalama tricornis</i> (Schrank) [DELETED]	-	-
<i>Oncochila simplex</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC3 (49)	-
<i>Physatocheila smreczynskii</i> China	VC3 (1)	-
<i>Stephanitis rhododrendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Tingis cardui</i> (Linnaeus)	-	VC4 (47)
<i>Tingis reticulata</i> Herrich-Schaeffer [DELETED]	-	-

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer) [DELETED]	-	-
<i>Empicoris vagabundus</i> (Linnaeus)	VC3 (24)	-
<i>Pygolampis bidentata</i> (Goeze) [DELETED]	-	-

NABIDAE

<i>Himacerus boops</i> (Schiødte) [DELETED]	-	-
<i>Himacerus major</i> (A. Costa)	VC3 (29)	-
<i>Himacerus mirmicoides</i> (O. Costa)	VC3 (12)	-
<i>Nabis ericetorum</i> Scholtz [DELETED]	-	-
<i>Nabis fesus</i> (Linnaeus)	VC3 (12)	-
<i>Nabis flavomarginatus</i> Scholtz	-	VC4 (26)
<i>Nabis limbatus</i> Dahlbom [DELETED]	-	-
<i>Nabis lineatus</i> Dahlbom	VC3 (52)	-
<i>Nabis pseudoferus</i> Remane	-	VC4 (35)
<i>Nabis rugosus</i> (Linnaeus)	VC3 (12)	-

ANTHOCORIDAE

<i>Acomporis alpinus</i> Reuter	VC3 (12)	-
<i>Acomporis pygmaeus</i> (Fallén) [DELETED]	-	-
<i>Anthocoris confusus</i> Reuter [DELETED]	-	-
<i>Anthocoris gallarumulmi</i> (De Geer) [DELETED]	-	-
<i>Anthocoris nemoralis</i> (Fabricius) [DELETED]	-	-
<i>Anthocoris nemorum</i> (Linnaeus) [DELETED]	-	-
<i>Buchananiella continua</i> (F.B. White)	VC3 (41)	-
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	VC3 (4)	-
<i>Dufouriellus ater</i> (Dufour)	VC3 (8)	-
<i>Lycocoris campestris</i> (Fabricius)	VC3 (8)	-
<i>Orius laevigatus</i> (Fieber)	VC3 (9)	-
<i>Orius majusculus</i> (Reuter)	VC3 (8)	-
<i>Orius niger</i> (Wolff) [DELETED]	-	-
<i>Temnostethus gracilis</i> Horváth	VC3 (19)	VC4 (37)
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	VC3 (8)	-
<i>Xylocoris cursitans</i> (Fallén)	VC3 (12)	VC4 (4)
<i>Xylocoris galactinus</i> (Fieber) [DELETED]	-	-

CIMICIDAE

<i>Cimex columbarius</i> Jenyns [DELETED]	-	-
<i>Cimex lectularius</i> Linnaeus [DELETED]	-	-
<i>Cimex pipistrelli</i> Jenyns [DELETED]	-	-

CIMICIDAE (CONTINUED)

Oeciacus hirundinis (Lamarck) [DELETED] - -

MICROPHYSIDAE

Loricula elegantula (Baerensprung) - VC4 (37)

Loricula inconspicua (Douglas & Scott) VC3 (40) -

Loricula pselaphiformis Curtis - VC4 (37)

Loricula ruficeps (Reuter) [NEW] VC3 (43) -

MIRIDAE

Acetropis gimmerthalii (Flor) [DELETED] - -

Adelphocoris lineolatus (Goeze) VC3 (24) -

Adelphocoris seticornis (Fabricius) VC3 (53) VC4 (37)

Adelphocoris ticinensis (Meyer-Dür) VC3 (12) -

Amblytylus nasutus (Kirschbaum) VC3 (55) -

Apolygus lucorum (Meyer-Dür) [DELETED] - -

Apolygus spinolae (Meyer-Dür) VC3 (24) -

Asciodema obsoleta (Fieber) [DELETED] - -

Atractotomus magnicornis (Fallén) VC3 (12) -

Atractotomus mali (Meyer-Dür) [DELETED] - -

Blepharidopterus angulatus (Fallén) VC3 (55) -

Bothynotus pilosus (Boheman) VC3 (27) -

Bryocoris pteridis (Fallén) VC3 (24) VC4 (52)

Calocoris roseomaculatus (De Geer) VC3 (12) -

Camptozygum aequale (Villers) [DELETED] - -

Campyloneura virgula (Herrich-Schaeffer) VC3 (12) -

Capsodes flavomarginatus (Donovan) VC3 (12) -

Capsodes gothicus (Linnaeus) VC3 (3) -

Capsodes sulcatus (Fieber) VC3 (4) -

Capsus ater (Linnaeus) [DELETED] - -

Charagochilus gyllenhalii (Fallén) VC3 (12) -

Chlamydatus pullus (Reuter) [DELETED] - -

Chlamydatus saltitans (Fallén) [DELETED] - -

Chlamydatus wilkinsoni (Douglas & Scott) [DELETED] - -

Closterotomus fulvomaculatus (De Geer) VC3 (24) -

Closterotomus norwegicus (Gmelin) [DELETED] - -

Compsidolon salicellum (Herrich-Schaeffer) [DELETED] - -

Cyllecoris histrionius (Linnaeus) [DELETED] - -

Cyrtorhinus caricis (Fallén) VC3 (24) -

Deraeocoris ruber (Linnaeus) VC3 (24) -

Deraeocoris scutellaris (Fabricius) [DELETED] - -

Dichrooscytus rufipennis (Fallén) [DELETED] - -

Dicyphus annulatus (Wolff) VC3 (55) -

Dicyphus constrictus (Boheman) VC3 (55) VC4 (33)

Dicyphus epilobii Reuter VC3 (24) -

Dicyphus errans (Wolff) VC3 (55) -

Dicyphus escalerae Lindberg VC3 (42) -

Dicyphus globulifer (Fallén) VC3 (12) -

Dicyphus pallicornis (Fieber) [DELETED] - -

Dryophilocoris flavoquadrimaculatus (De Geer) [DELETED] - -

Globiceps flavomaculatus (Fabricius) VC3 (24) -

Globiceps fulvicollis Jakovlev [DELETED] - -

Grypocoris stysi (Wagner) VC3 (12) -

Hallodapus rufescens (Burmeister) [DELETED] - -

Harpocera thoracica (Fallén) VC3 (24) -

MIRIDAE (CONTINUED)

<i>Heterocordylus tibialis</i> (Hahn) [DELETED]	-	-
<i>Heterotoma planicornis</i> (Pallas) [DELETED]	-	-
<i>Hoplomachus thunbergii</i> (Fallén)	VC3 (24)	-
<i>Leptopterna dolabrata</i> (Linnaeus)	VC3 (24)	-
<i>Leptopterna ferrugata</i> (Fallén) [DELETED]	-	-
<i>Liocoris tripustulatus</i> (Fabricius) [DELETED]	-	-
<i>Lopus decolor</i> (Fallén)	VC3 (12)	-
<i>Lygocoris pabulinus</i> (Linnaeus)	VC3 (24)	-
<i>Lygocoris rugicollis</i> (Fallén)	VC3 (15)	-
<i>Lygus rugulipennis</i> Poppius	VC3 (20)	VC4 (26)
<i>Macrolophus rubi</i> Woodroffe [DELETED]	-	-
<i>Macrotylus paykullii</i> (Fallén)	VC3 (55)	-
<i>Malacocoris chlorizans</i> (Panzer) [DELETED]	-	-
<i>Mecomma ambulans</i> (Fallén)	VC3 (24)	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Megalocoleus molliculus</i> (Fallén)	VC3 (12)	-
<i>Megalocoleus tanaceti</i> (Fallén)	VC3 (24)	-
<i>Miridius quadrivirgatus</i> (A. Costa)	VC3 (12)	VC4 (24)
<i>Miris striatus</i> (Linnaeus)	VC3 (24)	-
<i>Monalocoris filicis</i> (Linnaeus) [DELETED]	-	-
<i>Monosynamma sabulicola</i> (Wagner)	-	VC4 (38)
<i>Neolygus viridis</i> (Fallén) [DELETED]	-	-
<i>Notostira elongata</i> (Geoffroy) [DELETED]	-	-
<i>Oncotylus viridiflavus</i> (Goeze)	VC3 (12)	-
<i>Orthocephalus coriaceus</i> (Fabricius)	VC3 (12)	-
<i>Orthocephalus saltator</i> (Hahn)	VC3 (12)	-
<i>Orthonotus rufifrons</i> (Fallén)	VC3 (12)	-
<i>Orthotylus bilineatus</i> (Fallén)	-	VC4 (37)
<i>Orthotylus ericetorum</i> (Fallén)	VC3 (24)	VC4 (14)
<i>Orthotylus flavinervis</i> (Kirschbaum) [DELETED]	-	-
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC3 (54)	-
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	VC3 (53)	-
<i>Orthotylus nassatus</i> (Fabricius) [DELETED]	-	-
<i>Orthotylus prasinus</i> (Fallén) [DELETED]	-	-
<i>Orthotylus rubidus</i> (Puton) [DELETED]	-	-
<i>Orthotylus tenellus</i> (Fallén) [DELETED]	-	-
<i>Orthotylus virescens</i> (Douglas & Scott) [DELETED]	-	-
<i>Pachytomella parallela</i> (Meyer-Dür)	VC3 (4)	-
<i>Pantilius tunicatus</i> (Fabricius) [DELETED]	-	-
<i>Phoenicocoris obscurellus</i> (Fallén) [DELETED]	-	-
<i>Phylus coryli</i> (Linnaeus)	VC3 (24)	-
<i>Phylus melanocephalus</i> (Linnaeus)	VC3 (24)	-
<i>Phytocoris dimidiatus</i> Kirschbaum [DELETED]	-	-
<i>Phytocoris longipennis</i> Flor [DELETED]	-	-
<i>Phytocoris populi</i> (Linnaeus) [DELETED]	-	-
<i>Phytocoris tiliae</i> (Fabricius) [DELETED]	-	-
<i>Phytocoris ulmi</i> (Linnaeus) [DELETED]	-	-
<i>Phytocoris varipes</i> Boheman [DELETED]	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC3 (24)	-
<i>Pinalitus rubricatus</i> (Fallén) [DELETED]	-	-
<i>Pinalitus viscicola</i> (Puton)	VC3 (12)	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC3 (12)	-
<i>Plagiognathus arbustorum</i> (Fabricius) [DELETED]	-	-
<i>Plagiognathus chrysanthemi</i> (Wolff) [DELETED]	-	-

MIRIDAE (CONTINUED)

<i>Platycranus bicolor</i> (Douglas & Scott)	VC3 (8)	-
<i>Polymerus nigrita</i> (Fallén) [DELETED]	-	-
<i>Polymerus unifasciatus</i> (Fabricius) [DELETED]	-	-
<i>Psallodema fieberi</i> (Fieber) [DELETED]	-	-
<i>Psallus ambiguus</i> (Fallén) [DELETED]	-	-
<i>Psallus falleni</i> Reuter [DELETED]	-	-
<i>Psallus flavellus</i> Stichel [DELETED]	-	-
<i>Psallus haematodes</i> (Gmelin) [DELETED]	-	-
<i>Psallus lepidus</i> Fieber [DELETED]	-	-
<i>Psallus salicis</i> (Kirschbaum) [DELETED]	-	-
<i>Psallus varians</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	VC3 (24)	-
<i>Rhabdomiris striatellus</i> (Fabricius)	VC3 (24)	-
<i>Stenodema calcarata</i> (Fallén) [DELETED]	-	-
<i>Stenodema holsata</i> (Fabricius)	VC3 (24)	-
<i>Stenodema laevigata</i> (Linnaeus) [DELETED]	-	-
<i>Stenotus binotatus</i> (Fabricius)	VC3 (12)	-
<i>Teratocoris antennatus</i> (Boheman)	VC3 (55)	-
<i>Teratocoris saundersi</i> Douglas & Scott	VC3 (39)	-
<i>Tuponia mixticolor</i> (A. Costa)	VC3 (5)	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	VC3 (25)	-

DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	VC3 (55)	VC4 (51)
<i>Pachycoleus waltli</i> Fieber	VC3 (51)	-

SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC3 (13)	-
<i>Chartoscirta cocksii</i> (Curtis)	VC3 (13)	-
<i>Chiloxanthus pilosus</i> (Fallén) [DELETED]	-	-
<i>Halosalda lateralis</i> (Fallén)	VC3 (24)	-
<i>Macrosaldula scotica</i> (Curtis)	VC3 (55)	VC4 (18)
<i>Salda littoralis</i> (Linnaeus)	VC3 (55)	-
<i>Saldula arenicola</i> (Scholtz)	VC3 (4)	-
<i>Saldula c-album</i> (Fieber)	VC3 (55)	VC4 (52)
<i>Saldula orthochila</i> (Fieber)	VC3 (24)	-
<i>Saldula pilosella</i> (Thomson)	VC3 (54)	-
<i>Saldula saltatoria</i> (Linnaeus)	VC3 (24)	-

AEPOPHILIDAE

<i>Aepophilus bonnairei</i> Signoret	VC3 (8)	VC4 (32)
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MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	VC3 (16)	-
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	VC3 (13)	-
<i>Hebrus ruficeps</i> Thomson	VC3 (13)	-

HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	VC3 (16)	VC4 (16)
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VELIIDAE

<i>Microvelia reticulata</i> (Burmeister)	VC3 (16)	-
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VELIIDAE (CONTINUED)		
<i>Velia caprai</i> Tamanini	VC3 (16)	VC4 (16)
GERRIDAE		
<i>Aquarius najas</i> (De Geer)	VC3 (16)	VC4 (16)
<i>Gerris argentatus</i> Schummel	VC3 (16)	-
<i>Gerris gibbifer</i> Schummel	VC3 (16)	VC4 (16)
<i>Gerris lacustris</i> (Linnaeus)	VC3 (16)	VC4 (16)
<i>Gerris lateralis</i> Schummel	VC3 (21)	-
<i>Gerris odontogaster</i> (Zetterstedt) [DELETED]	-	-
<i>Gerris thoracicus</i> Schummel	VC3 (16)	VC4 (16)
NEPIDAE		
<i>Nepa cinerea</i> Linnaeus	VC3 (16)	-
<i>Ranatra linearis</i> (Linnaeus)	VC3 (16)	-
NAUCORIDAE		
<i>Ilyocoris cimicoides</i> (Linnaeus)	VC3 (16)	VC4 (16)
APHELOCHEIRIDAE		
<i>Aphelocheirus aestivalis</i> (Fabricius)	VC3 (16)	VC4 (16)
NOTONECTIDAE		
<i>Notonecta glauca</i> Linnaeus	VC3 (16)	VC4 (16)
<i>Notonecta maculata</i> Fabricius	VC3 (16)	VC4 (21)
<i>Notonecta obliqua</i> Thunberg	VC3 (16)	VC4 (21)
<i>Notonecta viridis</i> Delcourt	VC3 (16)	VC4 (16)
PLEIDAE		
<i>Plea minutissima</i> Leach	VC3 (16)	VC4 (16)
CORIXIDAE		
<i>Arctocorisa germari</i> (Fieber)	VC3 (21)	-
<i>Callicorixa praeusta</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Callicorixa wollastoni</i> (Douglas & Scott)	VC3 (21)	-
<i>Corixa affinis</i> Leach	VC3 (24)	VC4 (21)
<i>Corixa punctata</i> (Illiger)	VC3 (16)	VC4 (16)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg) [DELETED]	-	-
<i>Cymatia coleoprata</i> (Fabricius)	VC3 (16)	VC4 (17)
<i>Glaenocorisa propinqua</i> (Fieber) [DELETED]	-	-
<i>Hesperocorixa castanea</i> (Thomson)	VC3 (16)	VC4 (21)
<i>Hesperocorixa linnaei</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Hesperocorixa moesta</i> (Fieber)	VC3 (21)	-
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Micronecta poweri</i> (Douglas & Scott)	-	VC4 (16)
<i>Micronecta scholtzi</i> (Fieber)	VC3 (16)	-
<i>Paracorixa concinna</i> (Fieber) [DELETED]	-	-
<i>Sigara distincta</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Sigara dorsalis</i> (Leach)	VC3 (16)	VC4 (16)
<i>Sigara falleni</i> (Fieber)	VC3 (16)	VC4 (16)
<i>Sigara fossarum</i> (Leach)	VC3 (16)	-
<i>Sigara lateralis</i> (Leach)	VC3 (16)	VC4 (21)
<i>Sigara limitata</i> (Fieber)	-	VC4 (21)
<i>Sigara nigrolineata</i> (Fieber)	VC3 (16)	VC4 (14)
<i>Sigara scotti</i> (Douglas & Scott)	VC3 (16)	VC4 (21)

CORIXIDAE (CONTINUED)

<i>Sigara selecta</i> (Fieber)	VC3 (21)	-
<i>Sigara semistriata</i> (Fieber)	VC3 (24)	-
<i>Sigara stagnalis</i> (Leach)	VC3 (16)	-
<i>Sigara venusta</i> (Douglas & Scott)	VC3 (16)	-

During my research for this article I discovered some new vice-county records for the neighbouring county of Somerset, which I list below.

Charagochilus gyllenhalii (Fallén) (Miridae) VC6 (45)
Closterotomus fulvomaculatus (De Geer) (Miridae) VC6 (45)
Cyllecoris histrionius (Linnaeus) (Miridae) VC6 (45)
Heterocordylus genistae (Scopoli) (Miridae) VC6 (50)
Mecomma ambulans (Fallén) (Miridae) VC6 (45)
Orthocephalus saltator (Hahn) (Miridae) VC6 (45)
Phylus melanocephalus (Linnaeus) (Miridae) VC6 (45)
Psallodema fieberi (Fieber) (Miridae) VC6 (50)
Psallus lepidus Fieber (Miridae) VC6 (45)
Psallus varians (Herrich-Schaeffer) (Miridae) VC6 (45)
Tinicephalus hortulanus (Meyer-Dür) VC6 (50)

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Alexander (2007)	(29) Thomas (1955b)
(2) Alexander <i>et al.</i> (1999)	(30) Thomas (1956)
(3) Alexander & Grove (1991a)	(31) Whitehead (2004)
(4) Alexander & Grove (1991b)	(32) Wollaston (1942)
(5) Barclay & Nau (2003)	(33) Woodroffe (1958)
(6) Bedwell (1920)	(34) Woodroffe (1959a)
(7) Bedwell (1924)	(35) Woodroffe (1959b)
(8) Bignell (1906)	(36) Woodroffe (1959c)
(9) Britten (1939)	(37) Woodroffe (1959d)
(10) Campbell-Taylor (1943)	(38) Woodroffe (1967a)
(11) China (1943)	(39) Woodroffe (1967b)
(12) Collett (1938)	(40) Whitehead (2009)
(13) Drake (2008)	(41) Aukema (2007)
(14) Hale-Carpenter (1943)	(42) Aukema (2010)
(15) Hey (1935)	(43) Ryan (2017a)
(16) Huxley (2003)	(44) Ryan (2017b)
(17) Lansbury (1956)	(45) Blathwayt (1889)
(18) Lansbury (1961)	(46) Hellins (1874)
(19) Le Quesne (1955)	(47) Swale (1893)
(20) Leston & Southwood (1961)	(48) Anonymous (1897)
(21) Morgan (1957)	(49) Saunders (1899)
(22) Morris (1971)	(50) Saunders (1905)
(23) Nau (1995)	(51) Champion (1908a)
(24) Parfitt (1884)	(52) Champion (1908b)
(25) Scudder (1957a)	(53) Edmonds (1915)
(26) Scudder (1957b)	(54) Champion (1915)
(27) Southgate (1959)	(55) Champion (1917a)
(28) Thomas (1955a)	(56) Champion (1917b)

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SPECIES ACCOUNTS FOR THE HEMIPTERA-HETEROPTERA REPORTED AS NEW TO THE BRITISH ISLES SINCE SOUTHWOOD & LESTON (1959): 2015 TO THE PRESENT

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Introduction

This is the seventh and final instalment of species accounts which expand upon the Addendum to Southwood & Leston (1959) (Ryan, 2012 & 2013). The previous instalments (Ryan, 2015, 2016a, 2016b, 2017a, 2017b & 2018) covered the species announced as new to the British Isles in the period 1959 to 2014, which is here extended to the present day. As before, the species accounts are based upon details published in the national entomological literature up to the present time.

The numbering of the species accounts follows that of Ryan (2012), which places them within the taxonomic sequence of Southwood & Leston (1959). Images for the bugs may be found at the British Bugs website (www.britishbugs.org.uk) and elsewhere on the internet, such as Flickr (www.flickr.com). References are not cited within the species accounts, in order to avoid cluttering the prose. The evidence base for the accounts is instead given in an annotated bibliography.

Species accounts

299C *Dicyphus tamaninii* Wagner (Miridae)

This plant bug was first reported from the British Isles by M. G. Telfer, who took it at Crystal Palace, London (West Kent) sweeping vegetation on disturbed ground on 23 August 2013. An earlier record exists from Battersea Power Station, London (Surrey) taken on 13 May 2008, also from vegetation growing on disturbed ground. It has since been recorded elsewhere in the London area, again on disturbed ground, adding South Essex to the list of recorded counties. In addition to the above months, adults have been found in September. The bug has been associated with great willowherb, *Epilobium hirsutum* L. The insect is very similar to *Dicyphus escalerae* Lindberg, but can be separated by the form of the left clasper.

203B *Orius horvathi* (Reuter) (Anthocoridae)

This flower bug was first found in the British Isles by P. Kirby beating Austrian Pine, *Pinus nigra*, at Westwood, Peterborough, VC32 on 10 July 2014. Males can be identified by examination of the paramere.

180A *Nabis capsiformis* Germar (Nabidae)

This damsel bug was first found in the British Isles in a moth trap by D. Appleton at Porthgwarra, Cornwall on 21 November 2014. The bug is unusual for the genus in having forewings that extend well beyond the end of the abdomen.

271A *Psallus anaemicus* Seidenstücker (Miridae)

271B *Psallus helenae* Josifov (Miridae)

These plant bugs were first found in the British Isles by P. Kirby beating Turkey Oak, *Quercus cerris*, at Thorpe Park, Peterborough, VC32 on 16 June 2014. Both species have since been found on Turkey oak in Oxfordshire, *P. helenae* in Hampshire, and *P. anaemicus*, in Essex and Berkshire, in the months of June and July. They can be identified by examination of the male paramere.

041A *Mecidea lindbergi* Wagner (Pentatomidae)

This shieldbug was first found in the British Isles by P. Harris in a moth trap at Weymouth, Dorset on 17 December 2015. Later that month, the bug was taken at light a number of times in South Hampshire, South Devon and Dorset. Its narrow, elongate shape is unlike that of any other British shieldbug.

271C *Psallus lucanicus* Wagner (Miridae)

This plant bug was first found in the British Isles by B. S. Nau beating Turkey Oak in Bedfordshire in June 2015. In the same month, and on the same plant, it was found in Oxfordshire. The bug can be identified by examination of the male paramere.

130G *Spilostethus pandurus* (Scopoli) (Lygaeidae)

This groundbug was first reported as British from a specimen found on the flower head of *Senecio jacobaea* at a brownfield site in Ashford, East Kent by J. Kaunang on 30 July 2015. The bug is distinctive and unlikely to be confused with any other British species.

390A *Adelphocoris quadripunctatus* (Fabricius) (Miridae)

This capsid bug was first identified as British from a photograph taken by C. Lawrence on 18 July 2016 of an example on a flower head of *Lotus pedunculatus* beside a pond at Rhondda Cynon Taf, South Wales (VC41). Further specimens have been found at several sites in this vice-county, together with four museum specimens from the late 19th Century taken in East Sussex and Surrey, adding the months of August and September to the bug's seasonal distribution, and *Digitalis purpurea* as a plant association. It remains to be seen how widespread and common this bug now is in Britain, and the extent to which it has previously been confused with the similar *Adelphocoris lineolatus* (Goeze). The former may be separated from the latter by the course, dark pubescence on the hemelytra and the presence of four blackish spots on the pronotum.

028B *Sciocoris homalonotus* Fieber (Pentatomidae)

This shieldbug was first taken in Britain on 7 June 2016 sweeping chalk grassland at Coney Banks, Chatham, West Kent by H. Kenward. The bug is easily separated from its congener *Sciocoris cursitans* (Fabricius) by the former having pedunculate eyes.

271D *Psallus pardalis* Seidenstücker (Miridae)

This capsid bug was first taken in Britain beating a Turkey Oak in Windsor, Berkshire on 16 June 2016 by M. G. Telfer. The bug can be separated from its oak-dwelling congeners by examination of the aedeagus.

130H *Oxycarenus modestus* (Fallén) (Lygaeidae)

This seedbug was first taken in Britain beating alders in Hyde Park, London, Middlesex on 29 June 2017 by J. Denton. Nymphs and an adult were reported in the following month. The trees supporting the bug were reported as heavily fruiting and growing remote from water in open, sunny positions. The bulbous, apically expanded clypeus distinguishes this bug as belonging to the subfamily Oxycareninae, among the other British members of which it is distinct in host plant association, shape and colouring.

212A *Amphiareus constrictus* (Stål) (Anthocoridae)

Two adults this species were found in a garden at Blackheath, London (West Kent) by A. A. Allen on 30 September 1955 among dead grass and vegetable debris. There have been no further records. The bug was mentioned, without number, in Southwood & Leston (1959), but was not included in the British Isles list of Ryan (2012 & 2013).

Annotated bibliography

299C *Dicyphus tamaninii* Wagner (Miridae)

Telfer (2015). Record for 23 August 2013 by M. G. Telfer, swept from vegetation on disturbed ground in Crystal Palace, London (West Kent). Record for 3 September 2013, swept from great willowherb, *Epilobium hirsutum* L., on derelict land at Silverton Quays, London (South Essex). Record for 13 May 2008 on vegetation on mound of spoil at Battersea Power Station, London (Surrey) by P. Kirby. Record for 18 August 2012 at Dulwich, Surrey. *D. escalerae* and *D. tamaninii* are very similar, but can be separated by the form of the left clasper.

203B *Orius horvathi* (Reuter) (Anthocoridae)

Bantock (2015). Beaten from Austrian Pine, *Pinus nigra*, by P. Kirby at Westwood, Peterborough, (VC32) on 10.vii.2014 and 25.vii.2014. Males are most easily identified with reference to the paramere.

180A *Nabis capsiformis* Germar (Nabidae)

Bantock (2015). Taken in a moth trap by D. Appleton in Porthgwarra, Cornwall (VC1) on 21.xi.14. The bug is unusual for the genus in having forewings that extend well beyond the end of the abdomen. It has very long and slender mid and hind legs, there are three dark marks along the wing veins in the posterior half of the corium, and the rear margin of the pronotum is finely bordered.

271A *Psallus anaemicus* Seidenstücker (Miridae)

271B *Psallus helenae* Josifov (Miridae)

Bantock (2015). These species were beaten by P. Kirby from Turkey Oak, *Quercus cerris*, at Thorpe Park, Peterborough, Watsonian Northamptonshire on 16.vi.2014 and 28.vi.2014.

Ryan (2016c). Records for both species beaten from Turkey Oak in University Parks, Oxford, Oxfordshire on 20 June, 26 June, 12 July 2015. Also a singleton of *P. helenae* beaten from a Turkey Oak at The Chase, Broad Layings, Watsonian North Hampshire on 17 July. The females of both species are much paler than the males.

Flanagan (2016). *P. anaemicus*, Wanstead Flats, South Essex, 27 June 2015.

Telfer (2017) *P. anaemicus* taken beating a Turkey Oak in Windsor, Berkshire on 16 June 2016.

041A *Mecidea lindbergi* Wagner (Pentatomidae)

Bantock (2016). First found by P. Harris in a moth trap at Weymouth on 17.xii.15. Further records in December 2015 were taken at light in South Hampshire, South Devon and Dorset.

271C *Psallus lucanicus* Wagner (Miridae)

Ryan (2016c). Two females taken beating Turkey Oak on 26 June 2015, identified from photographs by Dr Bernard Nau. He had already taken a male of this species in Bedfordshire.

130G *Spilostethus pandurus* (Scopoli) (Lygaeidae)

Kaunang (2016a). Found in Ashford, East Kent, 30 July 2015.

Kaunang (2016b). Found on the flower head of *Senecio jacobaea* at a brownfield site in Ashford, East Kent by Jovita Kaunang on 30 July 2015.

390A *Adelphocoris quadripunctatus* (Fabricius) (Miridae)

Lawrence, *et al.* (2017). First identified as British from a photograph taken by Christopher Lawrence on 18 July 2016 of an example on a flower head of *Lotus pedunculatus* beside a pond at Rhondda Cynon Taf, South Wales (VC41). Further specimens have been found in collections, one from the nearby village of Coedely taken 11 August 2015 and four from East Sussex and Surrey taken in the late 19th century. Several additional sites have since been found in VC41, in July, August and September, all in association with the above plant, except for one associated with *Digitalis purpurea*. The bug may be separated from the similar *Adelphocoris lineolatus* (Goeze) by the former having course, dark pubescence on the hemelytra and four blackish spots on the pronotum.

028B *Sciocoris homalonotus* Fieber (Pentatomidae)

Bantock & Kenward (2017). First taken in Britain on 7 June 2016 sweeping chalk grassland at Coney Banks, Chatham, West Kent by Harry Kenward. The bug is easily separated from *Sciocoris cursitans* (Fabricius) by the former having pedunculate eyes.

271D *Psallus pardalis* Seidenstücker (Miridae)

Telfer (2017) First taken in Britain beating a Turkey Oak in Windsor, Berkshire on 16 June 2016 by Mark Telfer.

130H *Oxycarenum modestus* (Fallén) (Lygaeidae)

Denton (2018). First taken in Britain beating alders in Hyde Park, London, Middlesex on 29 June 2017 by J. Denton. Nymphs were reported in July 2017, and an adult on 2 July 2017. The trees supporting the bug were reported as heavily fruiting and growing remote from water in open, sunny positions. The bulbous, apically expanded clypeus distinguishes this bug as belonging to the subfamily Oxycareninae, among the other British members of which it is distinct in host plant association, shape and colouring.

212A *Amphiareus constrictus* (Stål) (Anthocoridae)

Allen (1956). Two adults (and some unidentified and nymphs) of *Lasiochilus sladeni* Distant (now going by the above name) found in a garden at Blackheath, London (West Kent) by A. A. Allen on 30 September 1955 among dead grass and vegetable debris.

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ADDITIONS TO RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR BEDFORDSHIRE

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The county list for Bedfordshire in Ryan (2014a & 2014b) was compiled from that of Masee (1955) with additional records from the national entomological literature published in the six decades between these two papers. I did not consider local publications, in particular the Bedfordshire Naturalist, and the present paper addresses this shortcoming, adding 103 new county records from the recent review of the Bedfordshire Heteroptera (Nau, 2015 & 2016), which are listed below.

ARADIDAE

Aneurus laevis (Fabricius)

ACANTHOSOMATIDAE

Cyphostethus tristriatus (Fabricius)

RHOPALIDAE

Rhopalus maculatus (Fieber)

LYGAEIDAE

Cymus glandicolor Hahn
Drymus latus Douglas & Scott
Gastrodes abietum Bergroth
Kleidocerys ericae (Horváth)
Lasiosomus enervis (Herrich-Schaeffer)
Megalonotus antennatus (Schilling)
Megalonotus chiragra (Fabricius)
Nysius huttoni F.B. White
Plinthisus brevipennis (Latreille)
Rhyparochromus pini (Linnaeus)
Scolopostethus grandis Horváth
Scolopostethus puberulus Horváth
Trapezonotus desertus Seidenstücker
Trapezonotus dispar Stål

BERYTIDAE

Berytinus minor (Herrich-Schaeffer)

PIESMATIDAE

Parapiesma quadratum (Fieber)

TINGIDAE

Acalypta brunnea (Germar)
Acalypta carinata (Panzer)
Agramma laetum (Fallén)
Campylosteira verna (Fallén)
Catoplatus fabricii (Stål)
Dictyonota fuliginosa A. Costa
Physatocheila dumetorum (Herrich-Schaeffer)

REDUVIIDAE

Coranus subapterus (De Geer)

REDUVIIDAE (CONTINUED)

- Empicoris culiciformis* (De Geer)
Empicoris vagabundus (Linnaeus)

ANTHOCORIDAE

- Anthocoris butleri* Le Quesne
Temnostethus gracilis Horváth

MICROPHYSIDAE

- Loricula elegantula* (Baerensprung)
Loricula exilis (Fallén)
Loricula pselaphiformis Curtis

MIRIDAE

- Agnocoris reclairei* (Wagner)
Alloeotomus gothicus (Fallén)
Amblytylus delicatus (Perris)
Apolygus spinolae (Meyer-Dür)
Blepharidopterus diaphanus (Kirschbaum)
Brachyarthrum limitatum Fieber
Bryocoris pteridis (Fallén)
Camptozygum aequale (Villers)
Campylomma verbasci (Meyer-Dür)
Chlamydatus pullus (Reuter)
Chlamydatus saltitans (Fallén)
Dichrooscytus gustavi Josifov
Dichrooscytus rufipennis (Fallén)
Dicyphus pallicornis (Fieber)
Hallodapus rufescens (Burmeister)
Heterocordylus genistae (Scopoli)
Heterocordylus tibialis (Hahn)
Lygocoris rugicollis (Fallén)
Lygus maritimus Wagner
Lygus pratensis (Linnaeus)
Macrolophus rubi Woodroffe
Megalocoleus tanaceti (Fallén)
Miridius quadrivirgatus (A. Costa)
Monosynamma sabulicola (Wagner)
Neolygus populi (Leston)
Orthocephalus coriaceus (Fabricius)
Orthocephalus saltator (Hahn)
Orthops basalis (A. Costa)
Orthops campestris (Linnaeus)
Orthops kalmii (Linnaeus)
Orthotylus adenocarpi (Perris)
Orthotylus bilineatus (Fallén)
Orthotylus flavinervis (Kirschbaum)
Orthotylus junipericola Linnavuori
Orthotylus tenellus (Fallén)
Orthotylus viridinervis (Kirschbaum)
Parapsallus vitellinus (Scholtz)
Phylus melanocephalus (Linnaeus)
Pilophorus cinnamopterus (Kirschbaum)
Pilophorus clavatus (Linnaeus)
Pilophorus perplexus Douglas & Scott

MIRIDAE (CONTINUED)

Platycranus bicolor (Douglas & Scott)
Plesiodema pinetella (Zetterstedt)
Polymerus palustris (Reuter)
Polymerus unifasciatus (Fabricius)
Psallus albicinctus (Kirschbaum)
Psallus ambiguus (Fallén)
Psallus anaemicus Seidenstucker
Psallus assimilis Stichel
Psallus confusus Rieger
Psallus flavellus Stichel
Psallus helenae Josifov
Psallus luridus Reuter
Psallus perrisi (Mulsant & Rey)
Psallus salicis (Kirschbaum)
Psallus variabilis (Fallén)
Psallus wagneri Ossiannilsson
Teratocoris antennatus (Boheman)
Teratocoris saundersi Douglas & Scott
Tinicephalus hortulanus (Meyer-Dür)
Trigonotylus caelestialium (Kirkaldy)
Trigonotylus ruficornis (Geoffroy)
Tytthus pubescens (Knight)
Tytthus pygmaeus (Zetterstedt)

CERATOCOMBIDAE

Ceratocombus coleoptratus (Zetterstedt)

SALDIDAE

Chartoscirta cocksii (Curtis)
Chartoscirta elegantula (Fallén)
Saldula pallipes (Fabricius)

CORIXIDAE

Sigara scotti (Douglas & Scott)

Bernard has informed me that two species listed in the county distribution for Bedfordshire are now known to be erroneous, specifically *Nysius cymoides* (Spinola) (Lygaeidae) and *Pachycoleus waltli* Fieber (Dipsocoridae). These will be deleted from the distribution. I am most grateful to Bernard for his help with the Bedfordshire records.

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**THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR
NORTHUMBERLAND INTO VICE-COUNTY LISTS FOR VC67 AND VC68**

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Introduction

The list of Hemiptera-Heteroptera for Northumberland in Ryan (2014) was compiled from that of Masee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Northumberland (VC67) and Watsonian North Northumberland (VC68).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). The resulting vice-county lists include 245 records, compared with 153 for the original Northumberland list. The list for Northumberland as a whole has lengthened by 18, the increase arising from 40 species added to the list and 22 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Northumberland are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking the records relate to the references from which they were derived, as indicated in Table 1.

The divided records

ARADIDAE

Aradus depressus (Fabricius) [NEW] - VC68 (22)

ACANTHOSOMATIDAE

Acanthosoma haemorrhoidale (Linnaeus) [NEW] VC67 (9) -
Cyphostethus tristriatus (Fabricius) VC67 (8) VC68 (8)
Elasmostethus interstinctus (Linnaeus) VC67 (9) VC68 (9)
Elasmucha grisea (Linnaeus) [NEW] VC67 (9) -

CYDNIDAE

Tritomegas bicolor (Linnaeus) [DELETED] - -

PENTATOMIDAE

Chlorochroa juniperina (Linnaeus) [DELETED] - -
Dolycoris baccarum (Linnaeus) VC67 (9) VC68 (9)
Palomena prasina (Linnaeus) VC67 (9) VC68 (9)
Pentatoma rufipes (Linnaeus) VC67 (9) VC68 (9)
Picromerus bidens (Linnaeus) [DELETED] - -
Piezodorus lituratus (Fabricius) VC67 (9) VC68 (9)
Podops inunctus (Fabricius) [DELETED] - -
Zicrona caerulea (Linnaeus) VC67 (9) VC68 (9)

COREIDAE

Enoplops scapha (Fabricius) [DELETED] - -

LYGAEIDAE

<i>Aphanus rolandri</i> (Linnaeus)	VC67 (15)	-
<i>Chilacis typhae</i> (Perris) [NEW]	VC67 (1)	VC68 (1)
<i>Cymus melanocephalus</i> Fieber [DELETED]	-	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	-	VC68 (38)
<i>Drymus ryeii</i> Douglas & Scott [NEW]	-	VC68 (38)
<i>Drymus sylvaticus</i> (Fabricius)	-	VC68 (38)
<i>Kleidocerys ericae</i> (Horváth)	-	VC68 (2)
<i>Lamproplax picea</i> (Flor)	VC67 (15)	VC68 (2)
<i>Peritrechus lundii</i> (Gmelin)	-	VC68 (2)
<i>Scolopostethus affinis</i> (Schilling) [DELETED]	-	-
<i>Scolopostethus thomsoni</i> Reuter [NEW]	-	VC68 (32)
<i>Stygnocoris fuliginus</i> (Geoffroy)	-	VC68 (38)
<i>Stygnocoris rusticus</i> (Fallén)	VC67 (22)	-
<i>Stygnocoris sabulosus</i> (Schilling)	-	VC68 (38)
<i>Taphropeltus contractus</i> (Herrich-Schaeffer) [DELETED]	-	-

BERYTIDAE

<i>Berytinus signoreti</i> (Fieber)	VC67 (15)	-
<i>Gampsocoris punctipes</i> (Germar) [NEW]	-	VC68 (1)

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	VC67 (15)	-
<i>Acalypta carinata</i> (Panzer)	VC67 (15)	-
<i>Acalypta nigrina</i> (Fallén) [NEW]	-	VC68 (38)
<i>Acalypta parvula</i> (Fallén)	VC67 (2)	-
<i>Campylosteyra verna</i> (Fallén)	VC67 (2)	-
<i>Derephysia foliacea</i> (Fallén)	VC67 (15)	-
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-
<i>Tingis cardui</i> (Linnaeus)	VC67 (3)	VC68 (38)

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer) [NEW]	-	VC68 (1)
<i>Empicoris vagabundus</i> (Linnaeus) [NEW]	VC67 (22)	VC68 (1)

NABIDAE

<i>Himacerus mirmicoides</i> (O. Costa) [DELETED]	-	-
<i>Nabis ericetorum</i> Scholtz [DELETED]	-	-
<i>Nabis fesus</i> (Linnaeus)	-	VC68 (2)
<i>Nabis flavomarginatus</i> Scholtz [NEW]	VC67 (3)	VC68 (1)
<i>Nabis limbatus</i> Dahlbom	VC67 (3)	VC68 (38)

ANTHOCORIDAE

<i>Anthocoris limbatus</i> Fieber [NEW]	VC67 (22)	-
<i>Anthocoris nemoralis</i> (Fabricius)	VC67 (27)	-
<i>Anthocoris nemorum</i> (Linnaeus)	VC67 (11)	VC68 (11)
<i>Anthocoris sarothamni</i> Douglas & Scott	VC67 (2)	VC68 (38)
<i>Lycocoris campestris</i> (Fabricius)	-	VC68 (38)
<i>Xylocoris galactinus</i> (Fieber) [DELETED]	-	-

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus [DELETED]	-	-
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MICROPHYSIDAE

<i>Loricula distinguenda</i> (Reuter) [NEW]	-	VC68 (22)
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MICROPHYSIDAE (CONTINUED)

<i>Loricula elegantula</i> (Baerensprung) [NEW]	VC67 (1)	VC68 (1)
<i>Loricula pselaphiformis</i> Curtis	VC67 (24)	-

MIRIDAE

<i>Adelphocoris lineolatus</i> (Goeze)	VC67 (2)	-
<i>Apolygus lucorum</i> (Meyer-Dür)	VC67 (3)	VC68 (2)
<i>Apolygus spinolae</i> (Meyer-Dür) [NEW]	-	VC68 (38)
<i>Asciodema obsoleta</i> (Fieber)	VC67 (2)	VC68 (2)
<i>Blepharidopterus angulatus</i> (Fallén)	-	VC68 (38)
<i>Bryocoris pteridis</i> (Fallén)	VC67 (2)	VC68 (2)
<i>Calocoris alpestris</i> (Meyer-Dür)	VC67 (24)	-
<i>Calocoris roseomaculatus</i> (De Geer)	-	VC68 (2)
<i>Capsodes gothicus</i> (Linnaeus)	VC67 (15)	-
<i>Capsus ater</i> (Linnaeus)	VC67 (3)	VC68 (38)
<i>Capsus wagneri</i> (Remane)	VC67 (23)	-
<i>Chlamydatus pullus</i> (Reuter)	VC67 (15)	-
<i>Chlamydatus saltitans</i> (Fallén)	VC67 (2)	-
<i>Closterotomus norwegicus</i> (Gmelin)	-	VC68 (38)
<i>Conostethus brevis</i> Reuter	-	VC68 (25)
<i>Cyllecoris histrionius</i> (Linnaeus)	VC67 (2)	VC68 (2)
<i>Cyrtorhinus caricis</i> (Fallén)	VC67 (22)	-
<i>Deraeocoris flavilinea</i> (A. Costa) [NEW]	VC67 (13)	-
<i>Dichrooscytus rufipennis</i> (Fallén) [NEW]	VC67 (24)	-
<i>Dicyphus annulatus</i> (Wolff) [DELETED]	-	-
<i>Dicyphus constrictus</i> (Boheman) [NEW]	VC67 (22)	-
<i>Dicyphus epilobii</i> Reuter	VC67 (2)	VC68 (2)
<i>Dicyphus errans</i> (Wolff) [DELETED]	-	-
<i>Dicyphus globulifer</i> (Fallén)	VC67 (2)	VC68 (31)
<i>Dicyphus pallicornis</i> (Fieber)	-	VC68 (1)
<i>Dicyphus stachydis</i> J. Sahlberg [NEW]	VC67 (1)	VC68 (1)
<i>Globiceps fulvicollis</i> Jakovlev [DELETED]	-	-
<i>Grypocoris stysi</i> (Wagner)	VC67 (16)	VC68 (38)
<i>Halticus apterus</i> (Linnaeus) [NEW]	VC67 (22)	-
<i>Harpocera thoracica</i> (Fallén)	VC67 (15)	VC68 (2)
<i>Heterocordylus genistae</i> (Scopoli)	VC67 (22)	-
<i>Heterocordylus tibialis</i> (Hahn)	VC67 (2)	VC68 (38)
<i>Leptopterna dolabrata</i> (Linnaeus)	VC67 (3)	-
<i>Leptopterna ferrugata</i> (Fallén)	VC67 (3)	VC68 (38)
<i>Liocoris tripustulatus</i> (Fabricius)	VC67 (2)	VC68 (38)
<i>Lopus decolor</i> (Fallén) [NEW]	-	VC68 (1)
<i>Lygocoris pabulinus</i> (Linnaeus)	VC67 (2)	VC68 (38)
<i>Lygocoris rugicollis</i> (Fallén)	VC67 (24)	VC68 (38)
<i>Lygus punctatus</i> (Zetterstedt) [NEW]	VC67 (22)	VC68 (22)
<i>Macrotylus paykullii</i> (Fallén) [DELETED]	-	-
<i>Malacocoris chlorizans</i> (Panzer)	-	VC68 (2)
<i>Mecomma ambulans</i> (Fallén)	-	VC68 (38)
<i>Mecomma dispar</i> (Boheman)	VC67 (3)	VC68 (22)
<i>Megalocoleus molliculus</i> (Fallén)	-	VC68 (15)
<i>Miris striatus</i> (Linnaeus) [NEW]	VC67 (17)	VC68 (38)
<i>Monalocoris filicis</i> (Linnaeus)	-	VC68 (38)
<i>Neolygus viridis</i> (Fallén)	-	VC68 (35)
<i>Notostira elongata</i> (Geoffroy)	VC67 (15)	-
<i>Orthotylus ericetorum</i> (Fallén)	VC67 (3)	VC68 (2)
<i>Orthotylus marginalis</i> Reuter	-	VC68 (38)

MIRIDAE (CONTINUED)

<i>Orthotylus tenellus</i> (Fallén) [NEW]	-	VC68 (38)
<i>Pachytomella parallela</i> (Meyer-Dür) [NEW]	VC67 (3)	VC68 (22)
<i>Pantilius tunicatus</i> (Fabricius)	VC67 (1)	VC68 (1)
<i>Phoenicocoris obscurellus</i> (Fallén)	VC67 (15)	-
<i>Phylus coryli</i> (Linnaeus)	-	VC68 (2)
<i>Phylus melanocephalus</i> (Linnaeus)	VC67 (24)	VC68 (2)
<i>Phytocoris longipennis</i> Flor [DELETED]	-	-
<i>Phytocoris populi</i> (Linnaeus)	VC67 (16)	-
<i>Phytocoris reuteri</i> Saunders	VC67 (2)	-
<i>Phytocoris tiliae</i> (Fabricius)	VC67 (15)	VC68 (1)
<i>Phytocoris ulmi</i> (Linnaeus)	VC67 (2)	-
<i>Phytocoris varipes</i> Boheman [DELETED]	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC67 (2)	VC68 (38)
<i>Pinalitus viscicola</i> (Puton) [NEW]	VC67 (22)	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC67 (3)	VC68 (38)
<i>Plagiognathus arbustorum</i> (Fabricius)	VC67 (3)	VC68 (38)
<i>Plagiognathus chrysanthemi</i> (Wolff)	-	VC68 (2)
<i>Platycranus bicolor</i> (Douglas & Scott) [NEW]	-	VC68 (2)
<i>Plesiodema pinetella</i> (Zetterstedt)	VC67 (24)	-
<i>Polymerus nigrita</i> (Fallén) [NEW]	-	VC68 (32)
<i>Polymerus unifasciatus</i> (Fabricius)	VC67 (2)	-
<i>Psallus ambiguus</i> (Fallén)	VC67 (24)	VC68 (38)
<i>Psallus falleni</i> Reuter	-	VC68 (38)
<i>Psallus flavellus</i> Stichel [NEW]	-	VC68 (38)
<i>Psallus haematodes</i> (Gmelin)	-	VC68 (38)
<i>Psallus lepidus</i> Fieber	VC67 (24)	VC68 (38)
<i>Psallus varians</i> (Herrich-Schaeffer)	VC67 (24)	VC68 (38)
<i>Rhabdomiris striatellus</i> (Fabricius)	-	VC68 (2)
<i>Stenodema calcarata</i> (Fallén)	VC67 (3)	VC68 (38)
<i>Stenodema holsata</i> (Fabricius)	VC67 (11)	VC68 (11)
<i>Strongylocoris leucocephalus</i> (Linnaeus)	VC67 (2)	-
<i>Teratocoris caricis</i> Kirkaldy	VC67 (23)	-
<i>Teratocoris saundersi</i> Douglas & Scott [NEW]	VC67 (3)	-
<i>Teratocoris viridis</i> Douglas & Scott [NEW]	VC67 (3)	-
<i>Tinicephalus hortulanus</i> (Meyer-Dür) [NEW]	VC67 (1)	VC68 (1)
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	VC67 (3)	-
<i>Tyththys pygmaeus</i> (Zetterstedt) [DELETED]	-	-

DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	-	VC68 (2)
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC67 (2)	-
<i>Macrosaldula scotica</i> (Curtis)	VC67 (27)	VC68 (19)
<i>Salda littoralis</i> (Linnaeus)	VC67 (19)	VC68 (19)
<i>Salda morio</i> Zetterstedt	VC67 (26)	-
<i>Salda muelleri</i> (Gmelin) [NEW]	VC67 (3)	-
<i>Saldula c-album</i> (Fieber)	VC67 (3)	VC68 (31)
<i>Saldula orthochila</i> (Fieber)	VC67 (3)	-
<i>Saldula saltatoria</i> (Linnaeus)	-	VC68 (38)

HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus) [DELETED]	-	-
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VELIIDAE		
<i>Microvelia reticulata</i> (Burmeister)	VC67 (21)	-
<i>Velia caprai</i> Tamanini	VC67 (21)	VC68 (21)
<i>Velia saulii</i> Tamanini [NEW]	VC67 (36)	-
GERRIDAE		
<i>Aquarius najas</i> (De Geer) [DELETED]	-	-
<i>Gerris costae</i> (Herrich-Schaeffer)	VC67 (21)	VC68 (21)
<i>Gerris lacustris</i> (Linnaeus)	VC67 (21)	VC68 (21)
<i>Gerris odontogaster</i> (Zetterstedt)	VC67 (21)	VC68 (21)
<i>Gerris thoracicus</i> Schummel	VC67 (6)	VC68 (21)
<i>Limnoporus rufoscutellatus</i> (Latreille)	VC67 (29)	-
NEPIDAE		
<i>Nepa cinerea</i> Linnaeus	VC67 (21)	-
NAUCORIDAE		
<i>Ilyocoris cimicoides</i> (Linnaeus)	VC67 (12)	-
APHELOCHEIRIDAE		
<i>Aphelocheirus aestivalis</i> (Fabricius) [NEW]	-	VC68 (37)
NOTONECTIDAE		
<i>Notonecta glauca</i> Linnaeus	VC67 (21)	VC68 (21)
<i>Notonecta obliqua</i> Thunberg [NEW]	VC67 (22)	-
PLEIDAE		
<i>Plea minutissima</i> Leach	VC67 (12)	-
CORIXIDAE		
<i>Arctocorisa carinata</i> (C.R. Sahlberg)	VC67 (22)	VC68 (21)
<i>Arctocorisa germari</i> (Fieber)	VC67 (21)	-
<i>Callicorixa praeusta</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Callicorixa wollastoni</i> (Douglas & Scott)	VC67 (21)	VC68 (21)
<i>Corixa dentipes</i> Thomson [NEW]	VC67 (22)	-
<i>Corixa panzeri</i> Fieber	VC67 (2)	VC68 (21)
<i>Corixa punctata</i> (Illiger)	VC67 (21)	VC68 (21)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC67 (2)	-
<i>Hesperocorixa castanea</i> (Thomson) [NEW]	VC67 (7)	-
<i>Hesperocorixa linnaei</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Paracorixa concinna</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara distincta</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara dorsalis</i> (Leach)	VC67 (21)	VC68 (21)
<i>Sigara falleni</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara fossarum</i> (Leach)	VC67 (2)	VC68 (2)
<i>Sigara lateralis</i> (Leach)	VC67 (21)	VC68 (21)
<i>Sigara limitata</i> (Fieber)	VC67 (14)	-
<i>Sigara nigrolineata</i> (Fieber)	VC67 (21)	VC68 (21)
<i>Sigara scotti</i> (Douglas & Scott)	VC67 (21)	VC68 (21)
<i>Sigara selecta</i> (Fieber) [NEW]	VC67 (7)	VC68 (7)
<i>Sigara semistriata</i> (Fieber)	VC67 (2)	VC68 (21)
<i>Sigara stagnalis</i> (Leach)	VC67 (12)	-
<i>Sigara venusta</i> (Douglas & Scott)	VC67 (2)	-

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Bagnall (1920)	(20) Horsefield (1980)
(2) Bold (1872)	(21) Huxley (2003)
(3) Cherrill & Sanderson (1994)	(22) Kerslake (1998)
(4) Coult (2004)	(23) Kirby (1994)
(5) Dunn (1981)	(24) Murray (1926)
(6) Eales (1970a)	(25) Nau (1978)
(7) Eales (1970b)	(26) Scudder (1958)
(8) Eales (2001a)	(27) Sheppard (1978)
(9) Eales (2001b)	(28) Sheppard & Eyre (1983)
(10) Eales (2002)	(29) Sutcliffe (1962)
(11) Eyre & Forrester (1984)	(30) Thompson (1929)
(12) Eyre et al. (2005)	(31) Thompson (1930)
(13) Flanagan (2016)	(32) Thompson (1931)
(14) Hammond (2010)	(33) Thompson (1934)
(15) Heslop Harrison (1916a)	(34) Crisp (1963)
(16) Heslop Harrison (1916b)	(35) Woodroffe (1973)
(17) Heslop Harrison (1930)	(36) Brinkhurst (1959)
(18) Heslop Harrison (1937)	(37) Limbert & Slack (1939)
(19) Heslop Harrison (1963)	(38) Hardy (1870-1874)

During the research for this article a number of new records for other vice-counties were found, which are listed below.

Aradus depressus (Fabricius) (Aradidae) VC66 (28)
Picromerus bidens (Linnaeus) (Pentatomidae) VC66 (4)
Piezodorus lituratus (Fabricius) (Pentatomidae) VC66 (9)
Troilus luridus (Fabricius) (Pentatomidae) VC66 (10)
Gastrodes grossipes (De Geer) (Lygaeidae) VC66 (28)
Campylosteira verna (Fallén) (Tingidae) VC62 (20)
Empicoris culiciformis (De Geer) (Reduviidae) VC66 (28)
Acomporis pygmaeus (Fallén) (Anthocoridae) VC66 (28)
Anthocoris limbatus Fieber (Anthocoridae) VC66 (28)
Orius majusculus (Reuter) (Anthocoridae) VC66 (33)
Loricula pselaphiformis Curtis (Microphysidae) VC66 (30)
Adelphocoris lineolatus (Goeze) (Miridae) VC66 (28)
Bryocoris pteridis (Fallén) (Miridae) VC66 (30)
Campyloneura virgula (Herrich-Schaeffer) (Miridae) VC66 (28)
Cyllocoris histrionius (Linnaeus) (Miridae) VC66 (28)
Dicyphus constrictus (Boheman) (Miridae) VC66 (28)
Dichrooscytus rufipennis (Fallén) (Miridae) VC66 (28)
Fieberocapsus flaveolus (Reuter) (Miridae) VC62 (20)
Macrotylus solitarius (Meyer-Dür) (Miridae) VC66 (28)
Miris striatus (Linnaeus) (Miridae) VC66 (28)
Neolygus viridis (Fallén) (Miridae) VC66 (28)
Notostira elongata (Geoffroy) (Miridae) VC66 (28)
Orthops basalis (A. Costa) (Miridae) VC66 (28)
Orthops campestris (Linnaeus) (Miridae) VC66 (28)
Orthotylus viridinervis (Kirschbaum) (Miridae) VC66 (28)
Psallus confusus Rieger (Miridae) VC66 (28)
Psallus flavellus Stichel (Miridae) VC66 (28)
Psallus variabilis (Fallén) (Miridae) VC66 (28)

- Psallus wagneri* Ossiannilsson (Miridae) VC66 (28)
Salda littoralis (Linnaeus) (Saldidae) VC66 (19)
Salda morio Zetterstedt (Saldidae) VC66 (19)
Saldula orthochila (Fieber) (Saldidae) VC65 (5)
Teloleuca pellucens (Fabricius) (Saldidae) VC65 (5)
Notonecta obliqua Thunberg (Notonectidae) VC66 (18)
Arctocoris carinata (C.R. Sahlberg) (Corixidae) VC66 (31)
Corixa dentipes Thomson (Corixidae) VC66 (34)
Cymatia bonsdorffii (C.R. Sahlberg) (Corixidae) VC66 (34)

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**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM A DATA SET PROVIDED BY JOHN CAMPBELL**

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For over three decades, John Campbell was the county recorder for the Hemiptera-Heteroptera in modern administrative Oxfordshire (VC23 and VC22, with small parts of VC24 and VC32). When he chose to retire from the role in January 2013, he handed to me his vast dataset of 43,810 records. I have recently completed an analysis of these, and was pleased to find 19 unpublished records new to the county distribution (Ryan, 2014a & 2014b), which I list below.

Ceraleptus lividus Stein (Coreidae)

OXFORDSHIRE (VC23): 01 July 1997, SU532967, Grass Vetchling Field, Clifton Hampden.

Megalonotus antennatus (Schilling) (Lygaeidae)

BERKSHIRE (VC22): 05 June - 10 July 2003, SU445995, old pit, Tubney Wood, pitfall trap.

Megalonotus praetextatus (Herrich-Schaeffer) (Lygaeidae)

OXFORDSHIRE (VC23): 15 July 2008, SP559102, Oak Farm Field, Beckley.

Megalonotus sabulicola (Thomson) (Lygaeidae)

BERKSHIRE (VC22): 04 July - 25 August 2005, SU4496, East of East Downs, Frilford, pitfall trap.

Nysius ericae (Schilling) (Lygaeidae)

OXFORDSHIRE (VC23): 10 September 1986, SU735747, Henley Road Gravel Pit, Caversham.

Orius vicinus (Ribaut) (Anthocoridae)

OXFORDSHIRE (VC23): 15 May 1984, SP362095, Cogges Manor Farm.

Temnostethus pusillus (Herrich-Schaeffer) (Anthocoridae)

OXFORDSHIRE (VC23): 28 July 1985, SP333168, Wychwood Forest SSSI.

Chlamydatus pulicarius (Fallén) (Miridae)

BERKSHIRE (VC22): 25 September 2003, SU330935, Shellingford New Quarry, Stanford in the Vale.

Globiceps flavomaculatus (Fabricius) (Miridae)

BERKSHIRE (VC22): 1987, SP467012, Lashford Lane Bog, Wootton.

Globiceps fulvicollis Jakovlev (Miridae)

OXFORDSHIRE (VC23): 28 August 1987, SP254234, Kingham railway sidings.

Halticus saltator (Geoffroy) (Miridae)

OXFORDSHIRE (VC23): 05 July 1995, SP274073, Carterton School grassland.

Heterocordylus genistae (Scopoli) (Miridae)

BERKSHIRE (VC22): 08 July 1981, SU275857, Odstone Hill Lane, Berkshire Downs.

Lygus pratensis (Linnaeus) (Miridae)

OXFORDSHIRE (VC23): 13 August 2008, SP5608, Rectory Farm, Oxford.

Lygus wagneri Remane (Miridae)

BERKSHIRE (VC22): 11 October 2010, SU467978, Glebe Field, Marcham.

Megacoelum infusum (Herrich-Schaeffer) (Miridae)

NORTHAMPTONSHIRE (VC32): 16 August 1992, SP4741, Banbury.

Orthops campestris (Linnaeus) (Miridae)

OXFORDSHIRE (VC23): 02 August 1979, SP575128, Otmoor Rifle Range Reserve (Otmoor SSSI).

Psallus luridus Reuter (Miridae)

OXFORDSHIRE (VC23): 19 July 1994, SP244302, Grove Wood, Chastleton.

Salicarus roseri (Herrich-Schaeffer) (Miridae)

NORTHAMPTONSHIRE (VC32): 13 July 1988, SP4741, Banbury.

Saldula pallipes (Fabricius) (Saldidae)

BERKSHIRE (VC22): 11 August 1987, SU523975, Thrupp Gravel Pit, Abingdon.

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THE 2017 HEMIPTERA-HETEROPTERA VICE-COUNTY RECORD ROUNDUP

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The new vice-county records published in 2017, in journals other than the *Hemipterist*, are listed below. In order that as many records as possible are available for the vice-county distribution and atlas to be published in Volume 6 of this journal, records from the March 2018 issue of the *British Journal of Entomology and Natural History* are also included.

- Sciocoris homalonotus* Fieber (Pentatomidae): West Kent (VC16) (Bantock & Kenward, 2017). New to the British Isles.
- Troilus luridus* (Fabricius) (Pentatomidae): South Wiltshire (VC8) (Ryan, 2018b).
- Leptoglossus occidentalis* Heidemann (Coreidae): Oxfordshire (VC23) (George, 2017).
- Syromastus rhombeus* (Linnaeus) (Coreidae): South Wiltshire (VC8) (Ryan, 2018b).
- Corizus hyoscyami* (Linnaeus) (Rhopalidae): South Wiltshire (VC8) (Ryan, 2018b).
- Nysius cymoides* (Spinola) (Lygaeidae): Antrim (VCH39) (Bantock, 2017).
- Oxycarenus modestus* (Fallén) (Lygaeidae): Middlesex (VC21) (Denton, 2018). New to the British Isles.
- Orsillus depressus* (Mulsant & Rey) (Lygaeidae): South Wiltshire (VC8) (Ryan, 2018b).
- Anthocoris minki* Dohrn (Anthocoridae): South-east Yorkshire (VC61) (Ryan, 2018a).
- Adelphocoris quadripunctatus* (Fabricius) (Miridae): Glamorgan (VC41), East Sussex (VC14) and Surrey (VC17) (Lawrence, *et al.*, 2017). New to the British Isles.
- Chlamydatus evanescens* (Boheman) (Miridae): South Wiltshire (VC8) and West Sussex (VC13) (Ryan, 2018b).
- Dichrooscytus gustavi* Josifov (Miridae): South Wiltshire (VC8) (Ryan, 2018b).
- Orthotylus caprai* Wagner (Miridae): South Wiltshire (VC8) (Ryan, 2018b).

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- Denton, J. 2018. *Oxycarenus modestus* (Hemiptera: Lygaeidae) new to Britain from Middlesex. *British Journal of Entomology and Natural History* **31**: 37-38.
- George, A. M. 2017. Exhibit. *British Journal of Entomology and Natural History* **30**: 100.
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- Ryan, R. P. 2018a. *Anthocoris minki* Dohrn (Hemiptera: Anthocoridae) in South-east Yorkshire (VC61). *British Journal of Entomology and Natural History* **31**: 30.
- Ryan, R. P. 2018b. Some interesting Hemiptera-Heteroptera from a cemetery in Salisbury, Wiltshire. *British Journal of Entomology and Natural History* **31**: 38-39.

**A SPECIAL INDEX FOR HET NEWS, NEWSLETTER OF THE UK HETEROPTERA
RECORDING SCHEMES (THIRD SERIES)**

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Introduction

The following special index was compiled from the three issues of Het News (Third Series), numbered 21 to 23, which appeared in April 2014, April 2015 and April 2016. The index is 'special' in the sense that it deals only with the names of the bugs. No other aspects are indexed, and only British species are included. The nomenclature and ordering of species is the same as that used in Ryan (2014)

The format of the page numbering is the digital number of the issue, followed by the digital page number within the issue, separated by a hyphen. So, for example, page 5 of issue 22 is written 22-5. The index was generated automatically within Microsoft® Office Word 2007, using a concordance table which included the known synonyms for the species. All the newsletter issues were converted into a single Word document, divided into three sections, one for each of the issues. The AutoMark and Insert Index options were then used to generate the index.

Given this method of compilation, the index is prone to omission due to differences in spelling of species names in the newsletter issues. The index was therefore checked against the issues, and any missing entries were added manually. This checking was also done for the special index of Het News (Second Series) (Ryan, 2017b), which was generated in a similar manner, and the missing entries have been included here.

Portable document format (PDF) copies of the issues of the newsletter can be downloaded from the British Bugs website (<http://www.britishbugs.org.uk/HetNews.html>). I very much hope that this special index, in combination with those of the Heteroptera Study Group Newsletter (Ryan, 2017a) and Het News (Second Series) (Ryan, 2017b), will help to make the newsletters of the UK Heteroptera recording schemes more accessible to those interested in the British Hemiptera-Heteroptera.

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Tytthus pygmaeus (Zetterstedt): 11-14.

DIPSOCORIDAE

Pachycoleus waltli Fieber: 9-5; 16-12; 23-12.

SALDIDAE

Chartoscirta cincta (Herrich-Schaeffer): 23-11; 23-12.

Halosalda lateralis (Fallén): 21-9.

Salda littoralis (Linnaeus): 4-3; 19/20-8; 23-12.

Salda morio Zetterstedt: 23-7.

Salda muelleri (Gmelin): 23-7.

Saldula c-album (Fieber): 23-11.

Saldula opacula (Zetterstedt): 23-11; 23-12.

Saldula orthochila (Fieber): 22-9.

HYDROMETRIDAE

Hydrometra gracilenta Horváth: 9-5.

VELIIDAE

Microvelia pygmaea (Dufour): 22-12.

Microvelia reticulata (Burmeister): 3-6.

GERRIDAE

Aquarius najas (De Geer): 22-12.

Aquarius paludum (Fabricius): 15-12; 22-7; 22-11; 22-12.

Gerris lacustris (Linnaeus): 11-16.

Gerris lateralis Schummel: 22-6.

Limnopus rufoscutellatus (Latreille): 21-9; 22-12; 23-13.

NEPIDAE

Ranatra linearis (Linnaeus): 6-7; 23-11; 23-12.

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus): 6-7.

Naucoris maculatus Fabricius: 5-8.

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius): 19/20-12.

NOTONECTIDAE

Notonecta glauca Linnaeus: 7-1.

Notonecta maculata Fabricius: 23-12.

CORIXIDAE

Arctocorisa germari (Fieber): 17/18-22.

Callicorixa praeusta (Fieber): 1-5; 22-9.

Corixa panzeri Fieber: 21-9.

Glaenocorisa cavifrons (Thomson): 3-8; 7-17.

Glaenocorisa propinqua (Fieber): 3-8.

Hesperocorixa castanea (Thomson): 11-13.

Hesperocorixa sahlbergi (Fieber): 22-9.

Micronecta minutissima (Linnaeus): 3-6.

Micronecta poweri (Douglas & Scott): 1-4.

Micronecta scholtzi (Fieber): 12-18.

CORIXIDAE (CONTINUED)

- Paracorixa concinna* (Fieber): 11-13.
Sigara distincta (Fieber): 9-11.
Sigara dorsalis (Leach): 7-1; 22-9.
Sigara falleni (Fieber): 22-11.
Sigara fossarum (Leach): 5-8.
Sigara iactans Jansson: 22-11; 22-12.
Sigara lateralis (Leach): 22-9.
Sigara limitata (Fieber): 22-9.
Sigara nigrolineata (Fieber): 9-11; 22-9.
Sigara scotti (Douglas & Scott): 19/20-8.
Sigara venusta (Douglas & Scott): 22-12.

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- Ryan, R. P. 2014. A list of the species of Hemiptera-Heteroptera recorded in the British Isles. *Hemipterist* **1**: 2-14.
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**TWO NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM NATIONAL TRUST SITES**

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I recently sent a set of records of Hemiptera-Heteroptera to Rob Ryan for checking against the county distribution (Ryan 2014a & 2014b), who returned two new vice-county records, which I list below.

Aradus depressus (Fabricius) (Aradidae)

NORTH ESSEX (VC19): 27/07/2017, TL526186, Hatfield Forest, Wall Wood (north), under bark of large log.

Aquarius paludum (Fabricius) (Gerridae)

NORTH SOMERSET (VC6): 02/09/2017, ST637267, North Cadbury Court Pond, netted from boat in the centre.

References

- Ryan, R. P. 2014a. The county distribution of the Hemiptera-Heteroptera of the British Isles, fourth edition. *Hemipterist* **1**: 38-103.
Ryan, R. P. 2014b. An Atlas of the Hemiptera-Heteroptera of the British Isles. <https://sites.google.com/site/BritishHetBugAtlas>.

SOME RECORDS OF HEMIPTERA-HETEROPTERA FROM SHROPSHIRE

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I recently sent a spreadsheet of records to Rob Ryan for checking against the county distribution (Ryan 2014a & 2014b). These were found to include 121 new records for Shropshire (VC40), which are listed below.

ARADIDAE

Aneurus avenius (Dufour): 01/08/2008, SJ558036, Stevenshill, Cound.
Aradus depressus (Fabricius): 1991, SJ5510, Attingham Park.

LYGAEIDAE

Acompus rufipes (Wolff): 24/06/2016, SJ639130, Wellington, Dothill & Beanhill Valley.
Chilacis typhae (Perris): 30/07/1992, SJ493364, Whixall Moss.
Cymus claviculus (Fallén): 01/07/1985, SJ542093, Attingham Park.
Cymus glandicolor Hahn: 08/08/1979, SJ4330, Sweat Mere.
Cymus melanocephalus Fieber: 17/07/1985, SO399838, Hopesay Hill.
Drymus pumilio Puton: 26/10/2016, SJ672048, Coalbrookdale, Dale Coppice.
Drymus sylvaticus (Fabricius): 21/09/1985, SJ540130, Haughmond Hill.
Eremocoris podagricus (Fabricius): 11/05/2016, SO754839, Severn Valley Country Park.
Ischnodemus sabuleti (Fallén): 01/07/1985, SJ542093, Attingham Park.
Lasiosomus enervis (Herrich-Schaeffer): 05/03/2016, SJ284281, Morda.
Megalonotus emarginatus (Rey): 14/05/2017, SJ252243, Nant Mawr Visitor Centre.
Nysius ericae (Schilling): 08/09/2010, SO355978, Bog Mine.
Nysius huttoni F.B. White: 19/07/2017, SJ653304, Ternhill Quarry.
Nysius senecionis (Schilling): 11/06/2007, SJ5536, Prees Heath.
Nysius thymi (Wolff): 01/08/1990, SO514743, Ludlow.
Orsillus depressus (Mulsant & Rey): 01/06/2012, SJ554126, Upton Magna.
Plinthisus brevipennis (Latreille): 01/07/1985, SO4293, The Long Mynd.
Scolopostethus affinis (Schilling): 18/06/1984, SO763770, Chamberline.
Scolopostethus grandis Horváth: 19/04/2017, SJ272230, Llyncllys, Blackbridge Quarry.
Scolopostethus puberulus Horváth: 26/10/2016, SJ672048, Coalbrookdale, Dale Coppice.
Stygnocoris rusticus (Fallén): 1985, SJ314250, Montgomery Canal.
Taphropeltus contractus (Herrich-Schaeffer): 31/08/1999, SJ642094, Ercall LNR.
Trapezonotus arenarius (Linnaeus): 13/08/2011, SO740777, Wyre Forest, Longdon orchard.
Trapezonotus desertus Seidenstücker: 17/07/1990, SJ393199, Hopton Hill.

BERYTIDAE

Berytinus crassipes (Herrich-Schaeffer): 1985, SJ314250, Montgomery Canal.
Berytinus minor (Herrich-Schaeffer): 1996, SJ268213, Llanymynech Heritage Area.
Berytinus signoreti (Fieber): 31/08/2016, SO754836, Severn Valley Country Park.

TINGIDAE

Acalypta parvula (Fallén): 12/10/1988, SJ473343, Wem Moss.
Derephysia foliacea (Fallén): 21/07/1997, SO7177, Silligrove Farm.
Dictyonota strichnocera Fieber: 16/08/1985, SJ6607, Little Wenlock.
Kalama tricornis (Schrank): 1996, SJ268213, Llanymynech Heritage Area.
Physatocheila dumetorum (Herrich-Schaeffer): 29/07/1992, SJ480348, Bettisfield Moss.
Tingis cardui (Linnaeus): 16/08/1985, SJ6607, Little Wenlock.

REDUVIIDAE

- Empicoris culiciformis* (De Geer): 1979, SJ4422, Fenemere.
Empicoris vagabundus (Linnaeus): 1979, SJ4230, Crose Mere.
Reduvius personatus (Linnaeus): 2002, SJ4912, Shrewsbury.

NABIDAE

- Himacerus major* (A. Costa): 29/07/1992, SJ481349, Bettisfield Moss.
Nabis ericetorum Scholtz: 08/06/1987, SJ4734, Wem Moss.
Nabis lineatus Dahlbom: Aug-1984, SO763765, Knowles Coppice.

ANTHOCORIDAE

- Anthocoris sarothamni* Douglas & Scott: 01/07/1985, SO4195, Long Mynd.
Anthocoris simulans Reuter: 19/06/2017, SO669717, Neen Sollars, Neenshilltop.
Anthocoris visci Douglas: 10/07/1997, SO7277, Orchard near The Sturt.
Buchananiella continua (F.B. White): 08/04/2016, SJ642130, Wellington, Dothill & Beanhill Valley.
Cardiastethus fasciiventris (Garbiglietti): 10/03/2012, SJ646127, Wellington, Dothill & Beanhill Valley.
Orius laevigatus (Fieber): 14/08/2006, SO724900, Eardington Quarry.
Orius vicinus (Ribaut): 1996, SJ268213, Llanymynech Heritage Area.
Temnostethus gracilis Horváth: 1996, SJ268213, Llanymynech Heritage Area.
Temnostethus pusillus (Herrich-Schaeffer): 19/08/1988, SO726767, Wyre Forest, North of Lem Hill.
Xylocoridea brevipennis Reuter: 03/07/2015, SO7536877228, Wyre Forest, Longdon Wood.
Xylocoris cursitans (Fallén): 01/07/1985, SJ542093, Attingham Park.
Xylocoris galactinus (Fieber): 18/09/2016, SJ274250, Sweeney Fen.

MICROPHYSIDAE

- Loricula pselaphiformis* Curtis: 1996, SO3485, Walcot Park.

MIRIDAE

- Adelphocoris lineolatus* (Goeze): 21/09/1985, SJ540130, Haughmond Hill.
Alloeotomus gothicus (Fallén): 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Amblytylus nasutus (Kirschbaum): 14/08/2004, SO665947, Morville Hall.
Apolygus lucorum (Meyer-Dür): 1979, SJ4422, Fenemere.
Asciodema obsoleta (Fieber): 16/08/1985, SJ6607, Little Wenlock.
Atractotomus magnicornis (Fallén): Aug-1984, SO763770, Chamberline.
Atractotomus mali (Meyer-Dür): 08/07/2012, SJ466209, Merrington Green.
Atractotomus parvulus Reuter: 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Calocoris roseomaculatus (De Geer): 28/07/2007, SO702770, Malpass, Cleobury Wood.
Campylomma annulicorne (Signoret): 22/07/2017, SJ274200, Llwyn-y-groes.
Closterotomus fulvomaculatus (De Geer): 17/07/2012, SJ729042, Kemberton.
Compsidolon salicellum (Herrich-Schaeffer): 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Conostethus roseus (Fallén): 28/07/2007, SO702770, Malpass, Cleobury Wood.
Deraeocoris flavilinea (A. Costa): 02/06/2011, SJ645126, Wellington, Dothill & Beanhill Valley.
Dicyphus constrictus (Boheman): 01/07/1997, SO3483, Walcot Park.
Europiella artemisiae (Becker): 15/09/2011, SO770947, Wyken.
Fieberocapsus flaveolus (Reuter): 08/09/1992, SJ486353, Whixall Moss.
Globiceps juniperi Reuter: 08/06/1987, SJ4734, Wem Moss.
Hallodapus rufescens (Burmeister): 03/08/1988, SJ473343, Wem Moss.
Harpocera thoracica (Fallén): 08/08/1979, SJ4330, Sweat Mere.
Heterocordylus genistae (Scopoli): 01/07/1985, SO580975, Wenlock Edge, Blakeway Coppice.
Heterocordylus tibialis (Hahn): 01/07/1985, SO4195, Long Mynd.
Hoplomachus thunbergii (Fallén): 01/07/1985, SJ542093, Attingham Park.

MIRIDAE (CONTINUED)

- Hypseloecus visci* (Puton): 14/07/2017, SO685915, Underton.
Macrolophus rubi Woodroffe: 1995, SJ474345, Wem Moss.
Macrotylus solitarius (Meyer-Dür): 16/08/1985, SJ6607, Little Wenlock.
Megacoelum infusum (Herrich-Schaeffer): 31/08/2012, SJ606050, Leighton.
Megaloceroea recticornis (Geoffroy): 28/07/2007, SO702770, Malpass, Cleobury Wood.
Megalocoleus molliculus (Fallén): 27/08/1985, SO544771, Middleton near Ludlow.
Neolygus populi (Leston): 02/06/2011, SJ644126, Wellington, Dothill & Beanhill Valley.
Neolygus viridis (Fallén): 08/08/1979, SJ4330, Sweat Mere.
Oncotylus viridiflavus (Goeze): 08/09/2010, SJ3702, Snailbeach Mine.
Orthocephalus coriaceus (Fabricius): 04/08/2012, SO610998, Blakeway Hollow.
Orthocephalus saltator (Hahn): 20/08/1985, SO763765, Knowles Coppice.
Orthops kalmii (Linnaeus): 1996, SJ268213, Llanymynech Heritage Area.
Orthotylus bilineatus (Fallén): 16/08/2017, SO459939, Church Stretton, Coppice Leasowes.
Orthotylus concolor (Kirschbaum): 06/09/2007, SJ5536, Prees Heath.
Orthotylus flavinervis (Kirschbaum): 1979, SJ4230, Crose Mere.
Orthotylus flavosparsus (C.R. Sahlberg): 1989, SO514743, Ludlow.
Orthotylus nassatus (Fabricius): 01/07/1990, SO514743, Ludlow.
Orthotylus ochrotrichus Fieber: 16/08/1985, SJ2324, Pen-y-bont.
Orthotylus virescens (Douglas & Scott): 16/08/1985, SJ6607, Little Wenlock.
Orthotylus viridinervis (Kirschbaum): 01/07/1990, SJ4314, Preston Montford.
Phoenicocoris obscurellus (Fallén): 19/08/1988, SO710754, Wyre Forest, A4117 road firebreak.
Phytocoris reuteri Saunders: 22/08/2012, SO286820, Bicton.
Phytocoris varipes Boheman: 16/08/1985, SJ6607, Little Wenlock.
Pilophorus perplexus Douglas & Scott: Aug-1984, SO763765, Knowles Coppice.
Pinalitus cervinus (Herrich-Schaeffer): 16/08/1985, SJ6607, Little Wenlock.
Polymerus nigrita (Fallén): 29/07/1992, SJ481349, Bettisfield Moss.
Polymerus palustris (Reuter): 01/07/1989, SJ4314, Preston Montford.
Psallus betuleti (Fallén): 03/08/2013, SJ4314, Preston Montford FSC
Psallus falleni Reuter: 08/09/1992, SJ491355, Whixall Moss.
Psallus flavellus Stichel: 22/06/1993, SJ3023, Morton Pool.
Psallus haematodes (Gmelin): 08/08/1979, SJ4330, Sweat Mere.
Psallus lepidus Fieber: 08/08/1979, SJ4908, Bomere Pool.
Psallus mollis (Mulsant & Rey): 03/07/2015, SO7536877228, Wyre Forest, Longdon Wood.
Psallus perrisi (Mulsant & Rey): 22/06/1993, SJ3023, Morton Pool.
Psallus salicis (Kirschbaum): 14/08/2004, SO666944, Morville Hall.
Psallus variabilis (Fallén): 19/08/1988, SO726767, Wyre Forest, North of Lem Hill.
Psallus varians (Herrich-Schaeffer): 18/06/1984, SO763770, Chamberline.
Psallus wagneri Ossiannilsson: 01/07/1997, SO3483, Walcot Park.
Salicarus roseri (Herrich-Schaeffer): 25/06/2017, SJ307339, Gobowen.
Stenodema holsata (Fabricius): 18/06/1984, SO763765, Knowles Coppice.
Sthenarus rotermundi (Scholtz): 20/08/2016, SJ319375, Ifton Meadows.
Trigonotylus ruficornis (Geoffroy): 28/06/2010, SJ3702, Snailbeach Mine
Tythys pygmaeus (Zetterstedt): 22/06/1993, SJ3023, Morton Pool.

CERATOCOMBIDAE

- Ceratocombus coleopratus* (Zetterstedt): 26/10/1988, SJ475344, Wem Moss.

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**THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR SCOTLAND
INTO VICE-COUNTY LISTS FOR VC72 TO VC112**

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Introduction

The list of Hemiptera-Heteroptera for Scotland in Ryan (2014) was compiled from that of Masee (1955) with additional records from the national entomological literature published in the six decades between these two papers. I did not attempt to divide the Scottish list into separate lists for the 41 constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing a list of vice-county records for each Scottish species.

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). In addition, I have changed or omitted some records as follows.

The record of *Aradus corticalis* (Linnaeus) (Aradidae) for VC88 (King, 1917) was changed to *Aradus betuleti* (Linnaeus) on the authority of Hancock (2000b), based upon his examination of the original specimens, thereby removing the former species from the list for Scotland. However, I have not altered the record of *Capsus wagneri* (Remane) (Miridae) for VC104 (Woodroffe, 1962), in spite of the comment by Dolling (1983) that it was erroneous, as no evidence is given in support of this statement. I have removed the early records of *Teratocoris saundersi* Douglas & Scott (Miridae) on account of the confusion over identity presented by the discovery of *Teratocoris caricis* Kirkaldy as British (Woodroffe, 1967b). Specimens of the latter were found standing over the former name in a collection. The former name was not included in the list of ambiguities in Ryan (2015) as the context for that article was the county distribution at that time, in which Scotland existed as a single geographical region. Both species were reported from Scotland by Woodroffe, and there were no grounds for deleting prior records of *T. saundersi* from the whole of the British Isles, since this was clearly a northern species. However, the ambiguity is relevant now that Scotland has been divided into its constituent vice-counties. The records for *T. saundersi* from Grimshaw (1930), McNeill (1963), Norman (1877) & Waterston (1939) have therefore been omitted. The sole record of *Limnopus rufoscutellatus* (Latreille) (Gerridae) for Scotland (Norman, 1880a) has had to be omitted as the location is given only as "Pitlochry", which stands on a vice-county boundary. The old Scottish records for *Megaloceroea recticornis* (Geoffroy) (Miridae) have been regarded as erroneous, in accordance with Nau (2011).

The resulting lists include 2686 distinct vice-county records, compared with 286 records for the Scotland list. The list for Scotland as a whole has lengthened by four, the increase arising from 22 species added to the list and 18 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The vice-county records, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Scotland are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking the records relate to the references from which they were derived, as indicated in Table 1. Unlike the sixteen previous divisions of county lists, the vice-county records have not been de-duplicated, and in many cases the existence of a species in a vice-county is supported by more than one record. There are a total of 3865 individual records in the lists below.

The divided records

Aradus betulae (Linnaeus) (Aradidae)

VC86 (33, 9) VC88 (130, 33, 125, 73, 69, 9, 111) VC95 (67, 9) VC96 (131, 114, 174, 125, 67, 9, 157) VC97 (9) VC106 (9)

Aradus corticalis (Linnaeus) (Aradidae) [DELETED]

- Aradus depressus* (Fabricius) (Aradidae)
VC88 (33, 69) VC96 (131, 69)
- Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae)
VC72 (64, 175) VC73 (175, 86) VC74 (175) VC75 (64, 175, 132, 38) VC76 (175) VC77 (175)
VC79 (175) VC80 (175) VC81 (175) VC82 (175) VC83 (175) VC84 (175) VC85 (175, 68) VC86
(64, 175, 86) VC88 (64, 175) VC89 (175) VC92 (175) VC93 (175) VC96 (175, 67) VC97 (175)
VC98 (175) VC99 (64, 175) VC100 (175, 86) VC101 (175, 86) VC104 (194, 175, 187, 210, 67,
38) VC112 (175)
- Cyphostethus tristriatus* (Fabricius) (Acanthosomatidae)
VC72 (173) VC82 (96) VC89 (96) VC92 (121) VC93 (121)
- Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae)
VC72 (142, 143, 145) VC73 (104) VC75 (30) VC81 (137) VC85 (22) VC88 (156, 134) VC92
(207, 210) VC95 (193, 167) VC104 (187, 210) VC106 (193, 157)
- Elasmucha grisea* (Linnaeus) (Acanthosomatidae)
VC72 (142, 143, 145) VC73 (104) VC81 (137) VC85 (22) VC88 (156, 134) VC92 (207, 210)
VC95 (167) VC96 (157) VC104 (210) VC106 (157) VC107 (157)
- Adomerus biguttatus* (Linnaeus) (Cydidae)
VC88 (134, 216)
- Dolycoris baccarum* (Linnaeus) (Pentatomidae)
VC81 (137, 45) VC85 (45) VC89 (134)
- Palomena prasina* (Linnaeus) (Pentatomidae)
VC95 (193) VC110 (38)
- Pentatoma rufipes* (Linnaeus) (Pentatomidae)
VC72 (107, 142, 145, 105) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (156) VC89
(156, 134) VC91 (138) VC92 (206, 210) VC94 (141) VC95 (167, 141) VC96 (35) VC100 (181,
38) VC101 (204) VC103 (139) VC104 (195, 204, 6, 187, 80, 210) VC105 (190, 38, 171) VC106
(157) VC107 (210, 38, 157)
- Picromerus bidens* (Linnaeus) (Pentatomidae)
VC72 (142, 143, 145) VC73 (104) VC85 (22) VC88 (156) VC92 (123) VC93 (123) VC104 (211)
- Piezodorus lituratus* (Fabricius) (Pentatomidae)
VC72 (143, 153, 145) VC81 (137) VC82 (45) VC85 (22) VC88 (156) VC89 (156) VC92 (210)
VC95 (167, 192) VC98 (45)
- Rhacognathus punctatus* (Linnaeus) (Pentatomidae)
VC72 (92, 142, 143, 153, 145) VC73 (92) VC85 (92, 22) VC88 (92, 156, 134, 216) VC89 (134)
VC97 (92, 188) VC104 (92, 211)
- Zicrona caerulea* (Linnaeus) (Pentatomidae)
VC72 (143, 145) VC73 (8) VC74 (98) VC79 (8) VC81 (8, 137) VC82 (8) VC83 (8) VC85 (8)
VC86 (8, 55) VC87 (45) VC89 (8, 45) VC90 (8) VC96 (8) VC100 (38, 55)
- Chilacis typhae* (Perris) (Lygaeidae)
VC75 (103) VC76 (103)
- Dicranocephalus agilis* (Scopoli) (Stenocephalidae) [DELETED]
- Acompus rufipes* (Wolff) (Lygaeidae) [DELETED]
- Cymus glandicolor* Hahn (Lygaeidae)
VC73 (93, 104) VC82 (93) VC83 (93) VC85 (93) VC89 (93)
- Drymus brunneus* (R.F. Sahlberg) (Lygaeidae)
VC72 (143, 146) VC73 (104) VC85 (22) VC86 (108) VC88 (156, 135, 216) VC89 (156) VC92
(210) VC95 (167) VC96 (157) VC99 (108) VC105 (190, 38) VC106 (157)
- Drymus ryeii* Douglas & Scott (Lygaeidae)
VC73 (103) VC88 (103)
- Drymus sylvaticus* (Fabricius) (Lygaeidae)
VC72 (147, 146) VC81 (137) VC88 (135) VC89 (135) VC95 (167) VC104 (187, 210) VC105 (38)
- Eremocoris abietis* (Linnaeus) (Lygaeidae)
VC92 (206, 210, 38) VC95 (199, 206) VC96 (199, 66, 67, 38) VC108 (209)
- Eremocoris plebejus* (Fallén) (Lygaeidae)
VC73 (106, 104) VC92 (207, 210) VC95 (167, 52, 229) VC96 (200, 114, 172, 67, 157) VC97 (52)

- Gastrodes abietum* Bergroth (Lygaeidae)
VC81 (137) VC88 (135) VC89 (135) VC91 (1) VC95 (1, 169)
- Gastrodes grossipes* (De Geer) (Lygaeidae)
VC72 (142, 146) VC73 (104) VC81 (137) VC85 (22, 156) VC88 (156) VC89 (156) VC90 (156)
VC91 (1) VC92 (1, 210) VC95 (167) VC96 (157) VC104 (187, 210) VC106 (157)
- Heterogaster urticae* (Fabricius) (Lygaeidae)
VC82 (94)
- Ischnocoris angustulus* (Boheman) (Lygaeidae) [DELETED]
- Kleidocerys ericae* (Horváth) (Lygaeidae)
VC72 (153) VC82 (49) VC85 (22) VC86 (108) VC88 (156) VC92 (210) VC106 (157)
- Kleidocerys resedae* (Panzer) (Lygaeidae)
VC81 (137) VC92 (210) VC95 (167)
- Lamproplax picea* (Flor) (Lygaeidae)
VC72 (195, 89, 142, 146, 219, 232) VC88 (156) VC89 (112, 156) VC100 (195, 89) VC104 (195, 89, 187, 210, 38)
- Macrodema microptera* (Curtis) (Lygaeidae)
VC88 (156) VC92 (210) VC95 (167) VC105 (38)
- Megalonotus dilatatus* (Herrich-Schaeffer) (Lygaeidae)
VC88 (46)
- Nysius ericae* (Schilling) (Lygaeidae)
VC88 (156) VC89 (156)
- Nysius thymi* (Wolff) (Lygaeidae)
VC85 (22, 156) VC88 (156) VC92 (207, 210) VC96 (157) VC104 (194, 187, 210) VC107 (157)
- Peritrechus lundii* (Gmelin) (Lygaeidae)
VC81 (137) VC88 (136) VC95 (167)
- Scolopostethus affinis* (Schilling) (Lygaeidae)
VC72 (144, 146) VC81 (137) VC85 (22) VC88 (156)
- Scolopostethus decoratus* (Hahn) (Lygaeidae)
VC72 (144, 146) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC96 (157) VC104 (187, 210, 38) VC106 (157) VC107 (157) VC110 (38, 179)
- Scolopostethus pictus* (Schilling) (Lygaeidae)
VC73 (27)
- Scolopostethus puberulus* Horváth (Lygaeidae) [DELETED]
- Scolopostethus thomsoni* Reuter (Lygaeidae)
VC72 (143, 146, 38) VC81 (137) VC83 (38, 45) VC85 (22, 38) VC88 (156) VC89 (156) VC90 (156) VC96 (157) VC106 (38, 157)
- Stygnocoris fuliginus* (Geoffroy) (Lygaeidae)
VC72 (153) VC81 (137) VC95 (167)
- Stygnocoris rusticus* (Fallén) (Lygaeidae)
VC83 (28) VC85 (22)
- Stygnocoris sabulosus* (Schilling) (Lygaeidae)
VC72 (144, 146, 105) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (35) VC100 (21) VC104 (187, 210, 211) VC105 (190) VC106 (157) VC107 (157) VC110 (38)
- Taphropeltus contractus* (Herrich-Schaeffer) (Lygaeidae)
VC73 (103) VC81 (137) VC83 (45)
- Trapezonotus desertus* Seidenstücker (Lygaeidae)
VC73 (104) VC88 (156) VC96 (157) VC106 (157) VC107 (157)
- Berytinus minor* (Herrich-Schaeffer) (Berytidae)
VC72 (147, 146) VC88 (156)
- Berytinus signoreti* (Fieber) (Berytidae)
VC73 (29) VC82 (45) VC83 (45) VC91 (233) VC95 (168)
- Gampsocoris punctipes* (Germar) (Berytidae)
VC72 (31) VC73 (31) VC74 (31) VC75 (31)

- Parapiesma quadratum* (Fieber) (Piesmatidae)
VC85 (22) VC89 (102, 134) VC91 (233) VC106 (209, 157)
- Piesma maculatum* (Laporte) (Piesmatidae) [NEW]
VC106 (157)
- Acalypta brunnea* (Germar) (Tingidae)
VC83 (38, 47) VC89 (156) VC95 (38, 167) VC105 (65) VC106 (157)
- Acalypta carinata* (Panzer) (Tingidae)
VC73 (104) VC80 (163) VC83 (45) VC88 (156) VC89 (156) VC105 (65)
- Acalypta nigrina* (Fallén) (Tingidae)
VC73 (104) VC85 (22) VC88 (23) VC92 (207, 210) VC95 (23, 233) VC96 (114, 157) VC104 (197, 187, 210) VC105 (88, 65) VC108 (209)
- Acalypta parvula* (Fallén) (Tingidae)
VC72 (143, 147, 146) VC83 (45) VC85 (22) VC89 (156) VC95 (167) VC104 (187, 210) VC110 (38, 48)
- Derephysia foliacea* (Fallén) (Tingidae)
VC72 (142, 146) VC85 (22) VC86 (108) VC88 (134)
- Dictyla convergens* (Herrich-Schaeffer) (Tingidae)
VC89 (134)
- Dictyonota strichnocera* Fieber (Tingidae)
VC95 (168, 233)
- Kalama tricornis* (Schrank) (Tingidae)
VC83 (28)
- Stephanitis rhododendri* Horváth (Tingidae) [DELETED]
- Tingis cardui* (Linnaeus) (Tingidae)
VC72 (144, 146, 105) VC81 (137) VC85 (22, 156) VC88 (156, 134) VC89 (156) VC90 (83) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210) VC105 (190, 38) VC106 (157) VC107 (157) VC110 (38, 179)
- Coranus subapterus* (De Geer) (Reduviidae) [DELETED]
- Empicoris culiciformis* (De Geer) (Reduviidae)
VC83 (95, 186) VC88 (95) VC89 (95, 156)
- Empicoris vagabundus* (Linnaeus) (Reduviidae)
VC72 (142, 148) VC73 (104) VC88 (134) VC89 (156) VC95 (167) VC96 (157) VC106 (157)
- Himacerus major* (A. Costa) (Nabidae)
VC85 (68)
- Himacerus mirmicoides* (O. Costa) (Nabidae) [NEW]
VC73 (29) VC76 (41)
- Nabis ericetorum* Scholtz (Nabidae)
VC72 (147, 148) VC73 (104) VC87 (161) VC88 (156) VC92 (210) VC95 (167) VC96 (157) VC103 (139) VC104 (187, 210)
- Nabis ferus* (Linnaeus) (Nabidae)
VC72 (147) VC81 (137) VC85 (22) VC88 (134) VC92 (210) VC95 (167) VC97 (188) VC100 (38, 21) VC102 (99) VC104 (187, 210) VC110 (38)
- Nabis flavomarginatus* Scholtz (Nabidae)
VC72 (143, 148, 105) VC73 (104) VC77 (181) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 134) VC89 (156) VC92 (210, 138) VC96 (212, 157) VC99 (108) VC103 (139) VC104 (187, 210) VC105 (190) VC106 (157) VC110 (38)
- Nabis limbatus* Dahlbom (Nabidae)
VC72 (107, 153, 148) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 134) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100 (38, 21) VC103 (139) VC104 (187, 210) VC105 (190, 171) VC106 (157) VC110 (38)
- Nabis lineatus* Dahlbom (Nabidae) [NEW]
VC88 (134)
- Nabis rugosus* (Linnaeus) (Nabidae)
VC72 (143, 148) VC73 (104) VC81 (137) VC88 (134) VC95 (193, 39, 167) VC104 (187, 210, 39, 38)

- Acompocoris alpinus* Reuter (Anthocoridae)
VC92 (210) VC95 (38, 167) VC96 (38) VC106 (157)
- Acompocoris pygmaeus* (Fallén) (Anthocoridae)
VC72 (144, 149) VC73 (104) VC85 (22) VC88 (156, 135) VC89 (156) VC90 (156) VC92 (210)
VC95 (167) VC96 (157) VC104 (187, 210, 38) VC106 (157) VC107 (157)
- Anthocoris confusus* Reuter (Anthocoridae)
VC72 (144, 149, 105) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (108, 84, 85) VC87 (181)
VC88 (156) VC89 (156) VC92 (210) VC95 (193) VC99 (108) VC102 (99) VC104 (187, 210)
VC107 (157)
- Anthocoris gallarumulmi* (De Geer) (Anthocoridae)
VC81 (137) VC88 (156) VC92 (210) VC106 (157)
- Anthocoris nemoralis* (Fabricius) (Anthocoridae)
VC72 (147, 149) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (156) VC90 (156) VC92 (210)
VC104 (194, 187, 210) VC105 (190) VC106 (157) VC107 (157)
- Anthocoris nemorum* (Linnaeus) (Anthocoridae)
VC72 (147, 149, 105) VC73 (104) VC77 (181) VC81 (137) VC83 (61) VC85 (22, 156) VC86
(108) VC87 (181, 161) VC88 (156, 135) VC89 (83, 156) VC90 (83, 156) VC92 (210) VC95 (167)
VC96 (212, 157) VC99 (108) VC100 (181, 38, 21) VC101 (181) VC102 (99) VC103 (139) VC104
(109, 187, 210) VC105 (190, 171) VC106 (157) VC107 (157) VC110 (38)
- Anthocoris pilosus* (Jakovlev) (Anthocoridae)
VC110 (117, 38)
- Anthocoris sarothamni* Douglas & Scott (Anthocoridae)
VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC106 (157)
- Elatophilus nigricornis* (Zetterstedt) (Anthocoridae)
VC81 (137) VC88 (135, 226) VC89 (135) VC92 (210) VC95 (126, 167) VC96 (203) VC106 (157)
- Lycocoris campestris* (Fabricius) (Anthocoridae)
VC72 (147, 149) VC78 (7) VC83 (45) VC89 (156) VC95 (167) VC104 (187, 210, 38)
- Temnostethus gracilis* Horváth (Anthocoridae)
VC72 (105) VC73 (104) VC75 (116) VC76 (116) VC85 (116) VC86 (108) VC88 (156) VC89
(156) VC92 (210) VC96 (157) VC99 (108) VC100 (116) VC104 (195, 187, 210) VC106 (157)
VC110 (116, 37, 38)
- Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae)
VC81 (137) VC85 (116, 37) VC96 (157) VC104 (195, 187, 210) VC110 (37, 38)
- Tetrableps bicuspis* (Herrich-Schaeffer) (Anthocoridae)
VC72 (144, 149) VC81 (137) VC82 (45) VC83 (45) VC88 (156) VC92 (210) VC95 (167) VC106
(157)
- Xylocoris cursitans* (Fallén) (Anthocoridae)
VC80 (2) VC83 (91)
- Xylocoris formicetorum* (Boheman) (Anthocoridae)
VC88 (40) VC92 (40, 225) VC96 (203)
- Xylocoris galactinus* (Fieber) (Anthocoridae)
VC88 (63)
- Cimex lectularius* Linnaeus (Cimicidae)
VC72 (149) VC77 (71, 66) VC88 (66) VC95 (67)
- Cimex pipistrelli* Jenyns (Cimicidae) [NEW]
VC76 (66) VC88 (66)
- Loricula distinguenda* (Reuter) (Microphysidae)
VC72 (142, 149) VC88 (156) VC96 (200)
- Loricula elegantula* (Baerensprung) (Microphysidae)
VC83 (38, 233) VC88 (156) VC89 (156) VC92 (210, 38) VC96 (157) VC104 (210) VC106 (157)
VC110 (38)
- Loricula exilis* (Fallén) (Microphysidae)
VC88 (136) VC92 (210) VC96 (38) VC104 (210, 38) VC106 (157) VC107 (210, 38)
- Loricula pselaphiformis* Curtis (Microphysidae)
VC72 (142, 153, 149, 105) VC83 (45) VC88 (156, 135, 216) VC89 (156) VC92 (210) VC95 (168)

- VC96 (24, 157, 221) VC104 (187, 210) VC106 (157) VC110 (38)
- Adelphocoris lineolatus* (Goeze) (Miridae)
VC77 (38) VC81 (137) VC85 (22, 38) VC88 (135) VC90 (156)
- Adelphocoris seticornis* (Fabricius) (Miridae)
VC81 (97) VC89 (127, 97, 82)
- Amblytylus brevicollis* Fieber (Miridae)
VC72 (153, 151) VC89 (83) VC90 (83)
- Apolygus lucorum* (Meyer-Dür) (Miridae)
VC72 (147, 150) VC88 (156) VC96 (157) VC106 (157)
- Apolygus spinolae* (Meyer-Dür) (Miridae)
VC81 (137) VC92 (210) VC96 (221) VC106 (157)
- Asciodema obsoleta* (Fieber) (Miridae)
VC72 (142, 151) VC83 (228, 233) VC85 (22) VC86 (108) VC87 (181) VC88 (156, 135) VC89 (156) VC90 (156) VC92 (210) VC96 (157) VC99 (108) VC104 (187, 210, 38) VC106 (157) VC107 (157)
- Atractotomus magnicornis* (Fallén) (Miridae)
VC72 (142, 151, 105) VC73 (104) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC96 (24) VC106 (157)
- Atractotomus parvulus* Reuter (Miridae)
VC89 (156) VC106 (158, 157)
- Blepharidopterus angulatus* (Fallén) (Miridae)
VC72 (147, 151) VC73 (104) VC81 (137) VC84 (14) VC85 (22, 156) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC104 (187, 210) VC105 (190) VC106 (157) VC107 (157) VC108 (25)
- Bothynotus pilosus* (Boheman) (Miridae)
VC72 (143, 144, 151) VC85 (22, 45) VC88 (112, 156, 135) VC92 (206, 210) VC96 (203, 67, 157) VC99 (215)
- Bryocoris pteridis* (Fallén) (Miridae)
VC72 (142, 151) VC73 (104, 192) VC75 (223) VC81 (137) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC99 (108) VC104 (109, 38) VC106 (157)
- Calocoris alpestris* (Meyer-Dür) (Miridae)
VC77 (3) VC79 (3) VC80 (3) VC81 (3)
- Calocoris roseomaculatus* (De Geer) (Miridae)
VC81 (137) VC85 (22) VC88 (156, 135) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210, 211) VC105 (190) VC106 (157) VC107 (157)
- Camptozygum aequale* (Villers) (Miridae)
VC72 (142, 150) VC85 (22) VC88 (156) VC92 (210) VC95 (167)
- Campyloneura virgula* (Herrich-Schaeffer) (Miridae)
VC73 (104) VC82 (45) VC104 (187, 210, 38) VC106 (157)
- Capsus ater* (Linnaeus) (Miridae)
VC72 (143, 151) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (181) VC88 (156, 135, 216) VC89 (156) VC91 (138) VC92 (210) VC95 (167) VC96 (157) VC97 (188) VC99 (108) VC102 (99) VC104 (109, 187, 210) VC106 (157) VC107 (157)
- Capsus wagneri* (Remane) (Miridae)
VC72 (114, 113) VC104 (196)
- Charagochilus gyllenhalii* (Fallén) (Miridae)
VC72 (142, 150) VC81 (137) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC106 (157) VC107 (157)
- Chlamydatius pulicarius* (Fallén) (Miridae)
VC88 (112, 156) VC92 (210) VC96 (114, 157) VC106 (157)
- Chlamydatius pullus* (Reuter) (Miridae)
VC88 (156, 135, 216) VC89 (156) VC96 (157, 221) VC106 (157)
- Chlamydatius saltitans* (Fallén) (Miridae)
VC75 (223) VC88 (156) VC95 (168)

- Chlamydatius wilkinsoni* (Douglas & Scott) (Miridae)
 VC73 (192) VC85 (68) VC88 (112, 156, 135, 136) VC89 (156) VC92 (210) VC95 (168) VC96 (157, 221) VC104 (194, 187, 210) VC105 (35, 190) VC106 (157) VC107 (157) VC108 (133)
- Closterotomus fulvomaculatus* (De Geer) (Miridae) [DELETED]
- Closterotomus norwegicus* (Gmelin) (Miridae)
 VC72 (107, 144, 150) VC81 (137) VC83 (61) VC85 (22, 156) VC88 (156) VC89 (83, 156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC100 (38, 21) VC102 (165) VC104 (109, 187, 210) VC105 (190, 171) VC106 (157) VC107 (157) VC110 (115, 38, 179) VC111 (38, 233) VC112 (38, 58)
- Conostethus brevis* Reuter (Miridae)
 VC82 (154) VC85 (22) VC93 (154) VC95 (154, 168, 230, 233) VC96 (154) VC105 (154, 38) VC106 (154, 38, 157)
- Conostethus griseus* Douglas & Scott (Miridae)
 VC72 (142, 151)
- Cyllecoris histrionius* (Linnaeus) (Miridae)
 VC72 (144, 151) VC81 (137) VC88 (213, 135) VC89 (135) VC92 (210) VC95 (167)
- Cyrtorhinus caricis* (Fallén) (Miridae)
 VC72 (107) VC73 (104) VC81 (137) VC82 (45) VC84 (14) VC85 (156) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC102 (165) VC104 (187, 210, 38) VC107 (157) VC110 (38)
- Deraeocoris lutescens* (Schilling) (Miridae) [DELETED]
- Deraeocoris scutellaris* (Fabricius) (Miridae)
 VC81 (137) VC105 (159, 53)
- Dichrooscytus rufipennis* (Fallén) (Miridae)
 VC72 (144, 150) VC84 (14) VC85 (22) VC88 (156) VC92 (210) VC95 (167) VC96 (212) VC105 (35, 190, 38)
- Dicyphus annulatus* (Wolff) (Miridae)
 VC81 (137) VC82 (45) VC85 (22) VC88 (156) VC90 (156)
- Dicyphus constrictus* (Boheman) (Miridae)
 VC81 (137) VC82 (45)
- Dicyphus epilobii* Reuter (Miridae)
 VC72 (147, 151) VC81 (137) VC82 (45) VC84 (14) VC85 (70) VC86 (108)
- Dicyphus errans* (Wolff) (Miridae)
 VC104 (109, 38)
- Dicyphus globulifer* (Fallén) (Miridae)
 VC72 (142, 151) VC81 (137) VC89 (156) VC95 (167) VC106 (157)
- Dicyphus pallicornis* (Fieber) (Miridae)
 VC72 (147, 151, 105) VC73 (104, 192) VC81 (137) VC84 (14) VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210, 211) VC106 (157) VC110 (38)
- Dicyphus stachydis* J. Sahlberg (Miridae)
 VC72 (144, 151, 105) VC81 (137) VC88 (156) VC89 (156) VC95 (168) VC106 (157)
- Dryophilocoris flavoquadrimaculatus* (De Geer) (Miridae)
 VC72 (147, 151) VC86 (50)
- Globiceps flavomaculatus* (Fabricius) (Miridae) [DELETED]
- Globiceps fulvicollis* Jakovlev (Miridae)
 VC92 (206, 210) VC95 (200, 206, 233) VC108 (209)
- Globiceps juniperi* Reuter (Miridae)
 VC92 (206) VC95 (199, 200, 206)
- Grypocoris stysi* (Wagner) (Miridae)
 VC72 (143, 150, 105) VC73 (104) VC81 (137) VC83 (61) VC86 (108) VC88 (156) VC89 (156) VC99 (108) VC106 (157)
- Hallodapus rufescens* (Burmeister) (Miridae)
 VC85 (22) VC87 (49) VC89 (112, 156) VC92 (210) VC96 (157) VC110 (38)
- Harpocera thoracica* (Fallén) (Miridae)
 VC72 (143, 151) VC88 (135) VC89 (135) VC95 (167) VC105 (190, 38)

- Heterocordylus genistae* (Scopoli) (Miridae)
VC85 (22)
- Heterocordylus tibialis* (Hahn) (Miridae)
VC72 (142, 151) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167)
VC96 (157) VC106 (157)
- Heterotoma planicornis* (Pallas) (Miridae)
VC89 (83) VC90 (83)
- Leptopterna dolabrata* (Linnaeus) (Miridae)
VC72 (153, 150, 105) VC73 (104) VC81 (137) VC85 (22) VC88 (156) VC89 (156) VC92 (210)
VC96 (157) VC99 (108) VC102 (165) VC106 (38, 157) VC107 (157)
- Leptopterna ferrugata* (Fallén) (Miridae)
VC72 (147, 150, 105) VC85 (22) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96
(212, 157) VC99 (108) VC102 (99) VC104 (195, 109, 187, 210, 43) VC105 (190) VC106 (157)
VC107 (157) VC110 (179) VC111 (233) VC112 (38, 233)
- Liocoris tripustulatus* (Fabricius) (Miridae)
VC72 (142, 151) VC73 (104) VC81 (137) VC85 (22, 156) VC88 (156) VC89 (156) VC96 (157)
VC106 (157)
- Lopus decolor* (Fallén) (Miridae) [NEW]
VC72 (105) VC88 (156)
- Lygocoris pabulinus* (Linnaeus) (Miridae)
VC72 (144, 150, 105) VC73 (104) VC76 (181) VC77 (181) VC81 (137) VC83 (61) VC85 (22)
VC86 (108) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100
(38, 21) VC104 (187, 210) VC106 (157) VC110 (38)
- Lygocoris rugicollis* (Fallén) (Miridae)
VC72 (153, 150) VC85 (22) VC86 (181, 108) VC88 (156) VC89 (156) VC92 (210) VC95 (167,
168) VC96 (203, 157) VC99 (108) VC100 (38, 223) VC104 (187, 210) VC105 (190) VC106 (157)
VC110 (38)
- Lygus maritimus* Wagner (Miridae)
VC72 (107) VC85 (22) VC88 (156) VC90 (156) VC106 (157)
- Lygus pratensis* (Linnaeus) (Miridae) [NEW]
VC92 (207)
- Lygus punctatus* (Zetterstedt) (Miridae)
VC92 (207, 210) VC96 (200, 114, 157)
- Lygus rugulipennis* Poppius (Miridae)
VC72 (107) VC73 (104) VC81 (137) VC85 (22) VC86 (181, 108) VC88 (156) VC89 (156) VC90
(156) VC92 (210) VC96 (118) VC104 (194, 187, 210, 38) VC106 (157) VC110 (38)
- Lygus wagneri* Remane (Miridae) [NEW]
VC80 (163) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC104 (194, 187, 210, 38) VC106
(157)
- Macrotylus paykullii* (Fallén) (Miridae) [NEW]
VC72 (142, 151)
- Malacocoris chlorizans* (Panzer) (Miridae)
VC72 (147, 151) VC81 (137) VC83 (233) VC88 (156, 135) VC89 (83, 156) VC95 (167)
- Mecomma ambulans* (Fallén) (Miridae)
VC72 (142, 151) VC73 (104) VC77 (181) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (181,
108) VC88 (156, 135, 216) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (203, 157)
VC99 (108) VC100 (38, 21, 223) VC104 (109, 187, 210) VC105 (190) VC106 (157) VC109 (209)
VC110 (115, 38, 179) VC111 (38, 233) VC112 (38, 233)
- Mecomma dispar* (Boheman) (Miridae)
VC72 (147, 151, 38) VC88 (156) VC89 (112, 156) VC92 (210) VC95 (195, 38, 233) VC96 (203,
38, 157) VC104 (195, 187, 210, 38)
- Megaloceroea recticornis* (Geoffroy) (Miridae) [DELETED]
- Megalocoleus molliculus* (Fallén) (Miridae)
VC88 (156, 135) VC90 (156)

- Megalocoleus tanaceti* (Fallén) (Miridae)
VC88 (156)
- Miris striatus* (Linnaeus) (Miridae)
VC81 (137) VC83 (45) VC85 (22) VC88 (135) VC95 (167)
- Monalocoris filicis* (Linnaeus) (Miridae)
VC72 (142, 151) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (108) VC88 (213, 156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC104 (109) VC106 (157)
- Neolygus contaminatus* (Fallén) (Miridae)
VC72 (147, 150) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (212, 167) VC96 (157) VC103 (139) VC104 (187, 210) VC105 (25, 190) VC106 (157) VC107 (157) VC108 (25) VC110 (38)
- Neolygus viridis* (Fallén) (Miridae)
VC72 (147, 150) VC83 (45) VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC97 (35) VC104 (210) VC105 (190)
- Notostira elongata* (Geoffroy) (Miridae) [NEW]
VC83 (61)
- Orthocephalus coriaceus* (Fabricius) (Miridae)
VC88 (136) VC95 (167)
- Orthocephalus saltator* (Hahn) (Miridae)
VC88 (156, 135) VC95 (233) VC96 (157)
- Orthonotus rufifrons* (Fallén) (Miridae) [NEW]
VC72 (147, 151)
- Orthops basalis* (A. Costa) (Miridae)
VC85 (208, 156) VC88 (156) VC89 (156) VC90 (156) VC92 (207, 208, 210, 38) VC106 (157) VC109 (209)
- Orthops campestris* (Linnaeus) (Miridae)
VC85 (156) VC88 (156) VC89 (156) VC90 (156) VC92 (210) VC96 (157) VC104 (210, 38) VC106 (157) VC107 (157) VC110 (38)
- Orthops kalmii* (Linnaeus) (Miridae) [NEW]
VC106 (38)
- Orthotylus adenocarpi* (Perris) (Miridae)
VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC106 (157)
- Orthotylus bilineatus* (Fallén) (Miridae)
VC73 (192) VC88 (156, 135, 220) VC92 (210) VC95 (167) VC96 (157, 221) VC106 (157, 220)
- Orthotylus concolor* (Kirschbaum) (Miridae) [DELETED]
- Orthotylus ericetorum* (Fallén) (Miridae)
VC72 (144, 151, 105) VC73 (104) VC85 (22) VC86 (108) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC104 (187, 210) VC106 (157) VC107 (157) VC110 (38)
- Orthotylus flavinervis* (Kirschbaum) (Miridae)
VC88 (135) VC96 (157)
- Orthotylus fuscescens* (Kirschbaum) (Miridae)
VC88 (112, 156, 136) VC92 (210) VC95 (167, 231) VC96 (200, 54, 212, 67, 157) VC106 (157)
- Orthotylus marginalis* Reuter (Miridae)
VC85 (156) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (38) VC103 (139) VC104 (187, 210) VC105 (25) VC106 (157) VC107 (157) VC108 (25)
- Orthotylus nassatus* (Fabricius) (Miridae)
VC81 (137) VC95 (38)
- Orthotylus tenellus* (Fallén) (Miridae)
VC88 (135) VC89 (156) VC92 (210) VC95 (167) VC106 (157)
- Orthotylus virens* (Fallén) (Miridae) [NEW]
VC72 (235) VC79 (235)
- Orthotylus virescens* (Douglas & Scott) (Miridae)
VC72 (147, 151) VC85 (22) VC87 (181) VC88 (156) VC89 (156) VC90 (156) VC92 (210) VC96 (157) VC106 (157) VC107 (157)

- Orthotylus viridinervis* (Kirschbaum) (Miridae)
VC81 (137)
- Pachytomella parallela* (Meyer-Dür) (Miridae)
VC72 (107) VC77 (34) VC80 (36) VC85 (22, 156, 38) VC88 (112, 213, 156) VC89 (156) VC92 (210) VC96 (157) VC106 (157) VC108 (133)
- Pantilius tunicatus* (Fabricius) (Miridae)
VC95 (170)
- Parapsallus vitellinus* (Scholtz) (Miridae) [NEW]
VC89 (156)
- Phoenicocoris obscurellus* (Fallén) (Miridae)
VC85 (22) VC88 (156) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC106 (157)
- Phylus coryli* (Linnaeus) (Miridae)
VC81 (137) VC88 (156, 135) VC89 (156) VC95 (167) VC96 (157) VC106 (157)
- Phylus melanocephalus* (Linnaeus) (Miridae)
VC72 (144, 151) VC81 (137) VC83 (45) VC84 (14) VC88 (213, 156, 135) VC89 (156, 135) VC92 (210) VC95 (167) VC97 (35) VC106 (157)
- Phytocoris dimidiatus* Kirschbaum (Miridae)
VC83 (233) VC84 (14) VC96 (200)
- Phytocoris longipennis* Flor (Miridae)
VC72 (143, 150) VC81 (137) VC83 (233) VC86 (181) VC88 (156, 135) VC89 (156) VC90 (156) VC95 (233) VC96 (157) VC104 (187, 210)
- Phytocoris pini* Kirschbaum (Miridae)
VC72 (153, 150) VC84 (14) VC85 (22, 156) VC88 (156, 135) VC92 (210, 224) VC95 (128, 167) VC96 (128, 157) VC105 (35, 190, 38) VC106 (157)
- Phytocoris populi* (Linnaeus) (Miridae)
VC72 (153) VC83 (233) VC92 (210)
- Phytocoris reuteri* Saunders (Miridae)
VC72 (142, 150)
- Phytocoris tiliae* (Fabricius) (Miridae)
VC72 (144, 150, 105) VC73 (104) VC81 (137) VC85 (22) VC86 (108) VC88 (135) VC89 (156) VC95 (167) VC96 (35, 157)
- Phytocoris ulmi* (Linnaeus) (Miridae)
VC72 (144, 150) VC73 (104) VC82 (45) VC85 (45)
- Phytocoris varipes* Boheman (Miridae) [NEW]
VC73 (29) VC104 (210, 38)
- Pilophorus cinnamopterus* (Kirschbaum) (Miridae)
VC83 (122, 124)
- Pilophorus clavatus* (Linnaeus) (Miridae)
VC87 (45) VC88 (112, 156)
- Pinalitus cervinus* (Herrich-Schaeffer) (Miridae)
VC72 (147, 150) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (83, 156) VC91 (233) VC92 (210) VC95 (167) VC100 (38) VC104 (194, 187, 210, 38) VC106 (157)
- Pinalitus rubricatus* (Fallén) (Miridae)
VC72 (147, 150) VC81 (137) VC85 (22) VC88 (156, 135) VC89 (156) VC96 (172, 24) VC104 (187, 210) VC106 (157)
- Pithanus maerkelii* (Herrich-Schaeffer) (Miridae)
VC72 (107, 144, 151) VC73 (104) VC81 (137) VC82 (45, 51) VC85 (22, 51) VC86 (181) VC88 (213, 156, 135) VC89 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC102 (165, 99) VC104 (109, 187, 210) VC105 (190) VC106 (157) VC107 (157) VC110 (38, 179) VC111 (38, 233) VC112 (38, 233)
- Plagiognathus arbustorum* (Fabricius) (Miridae)
VC72 (107, 142, 151, 105) VC73 (104) VC81 (137) VC83 (61) VC85 (22, 156) VC86 (108) VC87 (181) VC88 (213, 156, 135) VC89 (156) VC90 (156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100 (38, 21) VC103 (139) VC104 (109) VC105 (190) VC106 (157) VC107 (157)

- Plagiognathus chrysanthemii* (Wolff) (Miridae)
 VC72 (142, 151, 105) VC81 (137) VC85 (22, 156) VC86 (181) VC88 (156, 135) VC89 (156)
 VC90 (83, 156) VC92 (210) VC95 (167) VC96 (157) VC99 (108) VC100 (38, 21) VC104 (109,
 187, 210) VC105 (190) VC106 (157) VC107 (157) VC110 (38, 179)
- Plesiodema pinetella* (Zetterstedt) (Miridae)
 VC88 (156, 135, 226) VC92 (210) VC95 (167) VC106 (157)
- Polymerus nigrata* (Fallén) (Miridae)
 VC89 (156) VC96 (157)
- Polymerus palustris* (Reuter) (Miridae) [DELETED]
- Polymerus unifasciatus* (Fabricius) (Miridae)
 VC72 (142, 150) VC85 (22) VC88 (156) VC89 (112, 156) VC92 (210) VC96 (157) VC106 (157)
- Psallus ambiguus* (Fallén) (Miridae)
 VC72 (144, 151) VC81 (137) VC85 (22) VC88 (156, 135) VC92 (210) VC95 (167) VC96 (157)
 VC105 (203, 35, 190) VC106 (157) VC108 (25)
- Psallus confusus* Rieger (Miridae)
 VC88 (156) VC89 (156) VC106 (157)
- Psallus falleni* Reuter (Miridae)
 VC72 (147, 151) VC88 (156, 135) VC89 (156) VC92 (210) VC95 (167) VC100 (38, 21) VC104
 (187, 210) VC105 (25) VC106 (157) VC107 (157) VC108 (25)
- Psallus flavellus* Stichel (Miridae)
 VC89 (156) VC95 (167) VC106 (157)
- Psallus haematodes* (Gmelin) (Miridae)
 VC72 (143, 151) VC81 (137) VC85 (22, 156) VC88 (156, 135) VC89 (156) VC90 (156) VC92
 (210) VC95 (167) VC96 (157, 221) VC100 (38, 21) VC104 (187, 210) VC105 (25, 190) VC106
 (157) VC107 (157) VC108 (25) VC110 (38)
- Psallus lepidus* Fieber (Miridae)
 VC81 (137) VC88 (135) VC89 (156) VC92 (210) VC95 (167) VC104 (187, 210) VC106 (157)
- Psallus luridus* Reuter (Miridae)
 VC88 (156)
- Psallus mollis* (Mulsant & Rey) (Miridae)
 VC92 (206, 210) VC106 (157)
- Psallus perrisi* (Mulsant & Rey) (Miridae)
 VC88 (156) VC92 (207, 210) VC96 (131)
- Psallus salicis* (Kirschbaum) (Miridae)
 VC72 (144, 151) VC81 (137) VC95 (167)
- Psallus variabilis* (Fallén) (Miridae)
 VC88 (156) VC89 (156)
- Psallus varians* (Herrich-Schaeffer) (Miridae)
 VC72 (147, 151) VC81 (137) VC88 (135) VC89 (156) VC92 (210) VC95 (167) VC96 (221)
 VC106 (157)
- Psallus wagneri* Ossiannilsson (Miridae)
 VC92 (207, 210)
- Rhabdomiris striatellus* (Fabricius) (Miridae)
 VC72 (147, 150) VC81 (137) VC88 (213, 135) VC89 (135) VC92 (210) VC95 (167) VC97 (188)
 VC105 (190, 38)
- Stenodema calcarata* (Fallén) (Miridae)
 VC72 (107, 144, 150, 105) VC73 (104) VC81 (137) VC85 (22) VC88 (156) VC89 (156) VC90
 (156) VC91 (138) VC92 (210) VC95 (167) VC96 (157) VC100 (21) VC102 (99) VC104 (187,
 210) VC106 (157) VC107 (157) VC110 (38)
- Stenodema holsata* (Fabricius) (Miridae)
 VC72 (107, 144, 150, 105) VC73 (104) VC81 (137) VC85 (22, 156) VC86 (108) VC88 (156, 135,
 216) VC89 (156) VC90 (156) VC91 (138) VC92 (210) VC95 (167) VC96 (157, 221) VC99 (108)
 VC100 (181, 21) VC101 (181) VC102 (99) VC103 (139) VC104 (187, 210) VC105 (190) VC106
 (157) VC107 (157) VC111 (38, 233)

- Stenodema laevigata* (Linnaeus) (Miridae)
VC72 (144, 150, 105) VC73 (192) VC81 (137) VC88 (156, 135) VC95 (167)
- Stenotus binotatus* (Fabricius) (Miridae) [NEW]
VC74 (140) VC96 (140, 67, 157) VC98 (140)
- Strongylocoris leucocephalus* (Linnaeus) (Miridae)
VC75 (110) VC81 (137) VC88 (135) VC107 (157)
- Systellonotus triguttatus* (Linnaeus) (Miridae) [NEW]
VC85 (22)
- Teratocoris antennatus* (Boheman) (Miridae)
VC82 (45) VC97 (35)
- Teratocoris caricis* Kirkaldy (Miridae)
VC85 (112) VC88 (201, 112, 156) VC92 (210) VC95 (201, 202) VC96 (201, 202)
- Teratocoris saundersi* Douglas & Scott (Miridae)
VC80 (163) VC83 (201) VC85 (156) VC88 (156) VC89 (201, 156) VC92 (210) VC95 (202)
VC96 (200, 201) VC99 (108) VC100 (201) VC104 (201, 187, 210) VC106 (157) VC107 (157)
VC109 (209) VC110 (38)
- Teratocoris viridis* Douglas & Scott (Miridae)
VC72 (192) VC88 (112, 156, 192, 135, 217) VC92 (210, 192) VC95 (200, 202, 233) VC96 (203)
VC106 (157) VC110 (38) VC111 (38, 233)
- Tinicephalus hortulanus* (Meyer-Dür) (Miridae)
VC84 (14) VC92 (210)
- Trigonotylus psammaecolor* Reuter (Miridae) [NEW]
VC85 (54, 22) VC95 (67) VC96 (66)
- Trigonotylus ruficornis* (Geoffroy) (Miridae) [NEW]
VC95 (227) VC96 (157) VC106 (157) VC107 (157) VC110 (179)
- Tytthus pygmaeus* (Zetterstedt) (Miridae) [NEW]
VC106 (157)
- Zygmus nigriceps* (Fallén) (Miridae)
VC92 (206, 210) VC95 (128, 191) VC96 (199, 128, 74)
- Ceratocombus coleoptratus* (Zetterstedt) (Ceratocombidae)
VC85 (32, 22) VC88 (136) VC95 (167)
- Cryptostemma alienum* Herrich-Schaeffer (Dipsocoridae)
VC72 (143, 149, 16, 192) VC73 (16) VC74 (16) VC83 (47) VC88 (156, 192) VC95 (167) VC96
(157) VC102 (99) VC104 (194, 187, 210)
- Pachycoleus waltli* Fieber (Dipsocoridae) [NEW]
VC80 (234)
- Chartoscirta cincta* (Herrich-Schaeffer) (Saldidae)
VC72 (16) VC73 (16) VC85 (22) VC88 (156, 136) VC89 (156) VC92 (210) VC95 (167) VC102
(166, 165) VC104 (210, 38) VC105 (210) VC108 (65) VC110 (38)
- Chartoscirta cocksii* (Curtis) (Saldidae)
VC72 (142, 148, 16) VC87 (45) VC96 (17)
- Chartoscirta elegantula* (Fallén) (Saldidae)
VC72 (198, 16) VC73 (65) VC76 (38) VC87 (47) VC96 (87) VC105 (198, 38)
- Chiloxanthus pilosus* (Fallén) (Saldidae)
VC72 (142, 148, 16, 162)
- Halosalda lateralis* (Fallén) (Saldidae)
VC82 (45) VC95 (17, 168, 233) VC107 (157) VC110 (10)
- Macrosaldula scotica* (Curtis) (Saldidae)
VC72 (17, 144, 148, 16) VC73 (16) VC74 (16) VC86 (108) VC88 (213, 156, 135) VC89 (156)
VC92 (210) VC95 (17, 172, 167) VC96 (17, 212, 157) VC99 (181, 108) VC100 (38) VC102 (99)
VC104 (194, 187, 210, 211) VC105 (35, 190) VC106 (157) VC108 (133)
- Salda littoralis* (Linnaeus) (Saldidae)
VC72 (107, 143, 148, 16) VC73 (16) VC80 (163) VC81 (137) VC88 (156, 135, 216) VC92 (210)
VC95 (17, 167) VC96 (202, 17, 221) VC100 (223) VC102 (166, 165) VC105 (17, 190) VC106
(157) VC107 (157) VC110 (81, 60) VC111 (18, 233) VC112 (62, 18, 38, 233)

- Salda morio* Zetterstedt (Saldidae)
VC75 (182) VC92 (210) VC96 (203, 157) VC98 (182) VC100 (182, 38) VC104 (195, 187, 210)
VC110 (182, 38)
- Salda muelleri* (Gmelin) (Saldidae)
VC73 (160) VC75 (182) VC88 (182, 112, 156) VC92 (210) VC96 (182, 199, 202, 157) VC98
(182) VC100 (182, 38) VC105 (65)
- Saldula arenicola* (Scholtz) (Saldidae) [DELETED]
- Saldula c-album* (Fieber) (Saldidae)
VC72 (143, 148, 16) VC88 (156, 135) VC92 (210) VC95 (167) VC96 (181, 17, 157, 221) VC100
(38, 223) VC106 (157) VC107 (157)
- Saldula fucicola* (J. Sahlberg) (Saldidae)
VC85 (112, 164, 156, 38) VC88 (156, 155) VC99 (181, 38) VC111 (38, 233) VC112 (38, 233)
- Saldula opacula* (Zetterstedt) (Saldidae)
VC92 (90, 222) VC95 (178, 38, 167) VC96 (181, 38) VC107 (209, 90, 210, 38)
- Saldula orthochila* (Fieber) (Saldidae)
VC72 (107, 143, 148, 16) VC77 (181) VC85 (22) VC88 (156, 135) VC92 (210) VC95 (167) VC96
(203, 17, 157, 221) VC104 (187, 210, 38) VC106 (157) VC107 (157) VC110 (38) VC112 (38,
233)
- Saldula pallipes* (Fabricius) (Saldidae) [NEW]
VC72 (162) VC105 (38)
- Saldula palustris* (Douglas) (Saldidae) [NEW]
VC102 (166, 165) VC104 (187, 210, 38) VC105 (65) VC106 (157) VC107 (157) VC110 (38)
- Saldula pilosella* (Thomson) (Saldidae)
VC72 (107)
- Saldula saltatoria* (Linnaeus) (Saldidae)
VC72 (107, 143, 148, 16) VC73 (104, 16, 160) VC74 (16) VC80 (163) VC81 (137) VC85 (22,
156) VC86 (108) VC88 (213, 156, 135, 136, 216) VC89 (156) VC92 (210) VC95 (167) VC96
(181, 157, 59) VC97 (188) VC99 (181, 108) VC100 (38, 223) VC102 (166, 165, 99) VC104 (109,
187, 210, 211) VC105 (190) VC106 (157) VC107 (90, 157) VC110 (115, 38, 179, 48)
- Teloleuca pellucens* (Fabricius) (Saldidae)
VC83 (45) VC88 (213, 218) VC96 (199, 202, 203)
- Hebrus ruficeps* Thomson (Hebridae)
VC72 (16, 232) VC73 (101) VC74 (16, 101) VC78 (101) VC79 (101) VC80 (101) VC88 (134)
VC89 (101, 156) VC102 (166, 165) VC106 (101)
- Hydrometra stagnorum* (Linnaeus) (Hydrometridae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC85 (44) VC87 (101, 44) VC88
(101) VC90 (45) VC95 (101, 167) VC100 (101) VC101 (101) VC103 (101)
- Microvelia reticulata* (Burmeister) (Veliidae)
VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC79 (101)
VC80 (101) VC82 (101) VC83 (101) VC84 (57, 101) VC85 (101) VC86 (101) VC88 (101) VC89
(101) VC90 (101) VC92 (101) VC95 (101) VC98 (101) VC100 (101) VC106 (101)
- Velia caprai* Tamanini (Veliidae)
VC72 (19, 101) VC73 (19, 104, 101) VC74 (101) VC75 (19, 101) VC76 (101) VC77 (19, 101)
VC78 (101) VC79 (13, 101) VC80 (13, 19, 101) VC81 (20, 137, 101) VC82 (101) VC83 (19, 101)
VC84 (101) VC85 (20, 19, 22, 101) VC86 (181, 101) VC87 (101) VC88 (20, 101, 156) VC89
(101, 156) VC90 (101) VC91 (19, 101) VC92 (19, 210, 101) VC93 (101) VC94 (13, 101) VC95
(20, 101) VC96 (181, 19, 11, 12, 101) VC97 (101) VC98 (101) VC99 (101) VC100 (19, 101)
VC101 (101) VC102 (19, 101, 165) VC103 (20, 19, 101) VC104 (26, 187, 19, 210, 211, 101)
VC105 (101) VC106 (19, 101) VC107 (101) VC108 (13, 101) VC109 (101) VC110 (101, 38, 179)
VC111 (19, 101) VC112 (19, 120, 101, 38)
- Velia saulii* Tamanini (Veliidae)
VC72 (13, 19, 101) VC73 (19, 101) VC74 (101) VC77 (19, 101) VC79 (19, 101) VC80 (101)
VC83 (19, 101) VC84 (101) VC85 (101) VC86 (108, 101, 38) VC87 (101) VC88 (101, 156) VC89
(101, 156) VC90 (101) VC94 (101) VC95 (20, 13, 176, 101, 38) VC96 (20, 129, 13, 101, 157)
VC97 (101) VC98 (101) VC99 (108, 38) VC101 (101) VC102 (101) VC105 (210, 101, 38) VC106

- (101, 157) VC107 (101) VC108 (101) VC109 (101) VC110 (101, 38) VC112 (101)
- Aquarius najas* (De Geer) (Gerridae)
 VC72 (16, 173) VC73 (13, 101) VC74 (16, 101) VC75 (13)
- Gerris costae* (Herrich-Schaeffer) (Gerridae)
 VC72 (144, 147, 148, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC77 (13, 101) VC80 (13) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC88 (213, 101, 156) VC89 (101) VC90 (101) VC91 (233) VC92 (210, 101) VC93 (101) VC94 (13, 101) VC95 (101) VC96 (12, 101, 157) VC97 (101) VC98 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (72, 139, 101) VC104 (26, 109, 187, 72, 210, 211, 101) VC105 (190, 101) VC106 (101) VC107 (101) VC108 (101) VC109 (13, 101) VC110 (76, 77, 72, 79, 101, 179) VC111 (101, 38, 233)
- Gerris gibbifer* Schummel (Gerridae)
 VC72 (153, 16, 101) VC73 (16, 101) VC81 (137) VC88 (156) VC96 (12)
- Gerris lacustris* (Linnaeus) (Gerridae)
 VC72 (144, 148, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101, 233) VC96 (12, 101, 157) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (139, 101) VC104 (26, 72, 101) VC105 (190, 101) VC106 (101, 157) VC107 (101) VC108 (101)
- Gerris lateralis* Schummel (Gerridae)
 VC72 (16, 101) VC73 (16, 101) VC74 (101) VC75 (101) VC77 (101) VC80 (163, 101) VC82 (101) VC83 (57, 101) VC85 (22, 101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101, 170) VC96 (12, 101, 157) VC99 (101) VC103 (72) VC104 (26, 72, 101) VC107 (210, 38) VC110 (101, 38) VC111 (101) VC112 (62, 101, 38)
- Gerris odontogaster* (Zetterstedt) (Gerridae)
 VC72 (144, 148, 16, 101) VC73 (16, 160, 101) VC74 (16, 101) VC75 (101) VC77 (101) VC79 (101) VC80 (13, 101) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (13, 210, 101) VC93 (101) VC94 (101) VC95 (101, 168, 233) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC103 (101) VC104 (26, 109, 187, 72, 210, 101) VC105 (35, 190, 101, 38) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (72, 101, 38) VC111 (101)
- Gerris thoracicus* Schummel (Gerridae)
 VC72 (16, 101) VC73 (101) VC74 (101) VC75 (101) VC76 (101) VC77 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC83 (101) VC84 (101) VC85 (22, 101) VC88 (101, 156) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (38, 167) VC96 (101, 157) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26, 187, 72, 101) VC105 (190, 101, 38) VC106 (101) VC107 (101) VC108 (101) VC110 (77, 72, 101, 38)
- Limnopus rufoscutellatus* (Latreille) (Gerridae) [DELETED]
- Nepa cinerea* Linnaeus (Nepidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (101) VC75 (101) VC76 (101) VC77 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC82 (101) VC83 (45) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC91 (101) VC92 (210, 101) VC93 (101) VC95 (101, 167) VC96 (101) VC97 (101) VC98 (101, 45) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (187, 78, 210, 211, 101) VC106 (101) VC107 (101) VC109 (101) VC110 (101, 38) VC111 (184, 101, 38)
- Ilyocoris cimicoides* (Linnaeus) (Naucoridae) [DELETED]
- Aphelocheirus aestivalis* (Fabricius) (Aphelocheiridae)
 VC73 (42, 101) VC74 (183, 101) VC75 (101) VC76 (42, 101) VC81 (137, 119, 101) VC87 (101) VC89 (101)
- Notonecta glauca* Linnaeus (Notonectidae)
 VC72 (16, 101) VC73 (16, 160, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC82 (101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (109, 101) VC105 (101, 38) VC106 (101)

- VC107 (101) VC109 (101) VC110 (76, 101, 38) VC111 (101, 38) VC112 (177)
- Notonecta obliqua* Thunberg (Notonectidae)
 VC72 (16) VC73 (101) VC74 (101) VC76 (101) VC88 (101) VC92 (101) VC95 (101) VC96 (101)
 VC97 (101) VC98 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26,
 187, 210, 101) VC105 (101) VC106 (101) VC107 (101) VC108 (101) VC110 (77, 101, 38, 179)
- Plea minutissima* Leach (Pleidae)
 VC73 (15, 100, 101, 56) VC74 (100, 101)
- Arctocoris carinata* (C.R. Sahlberg) (Corixidae)
 VC72 (16) VC73 (16, 101) VC88 (101) VC90 (101) VC95 (101) VC96 (12, 101) VC100 (101)
 VC102 (101) VC104 (26, 101) VC105 (210, 101) VC106 (101) VC108 (101) VC109 (101) VC110
 (77, 101, 38) VC111 (101) VC112 (101)
- Arctocoris germari* (Fieber) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC81 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (101, 38) VC86 (101) VC87 (101) VC88
 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101, 38) VC96 (101)
 VC99 (101) VC100 (101) VC102 (101) VC104 (109, 187, 210, 101) VC106 (101) VC108 (101)
 VC109 (101) VC110 (101, 38) VC111 (101) VC112 (177, 62, 101, 38)
- Callicorixa praeusta* (Fieber) (Corixidae)
 VC72 (143, 152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101)
 VC79 (101) VC80 (101) VC81 (137, 101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (22,
 101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101)
 VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100
 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (109, 187, 210, 101) VC105 (101)
 VC106 (101) VC107 (101) VC109 (101) VC110 (101, 38) VC111 (101, 38) VC112 (62, 101, 38)
- Callicorixa wollastoni* (Douglas & Scott) (Corixidae)
 VC72 (153, 152, 16, 101) VC73 (16, 101) VC75 (101) VC77 (101) VC78 (101) VC83 (101) VC84
 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (213, 101) VC89 (101) VC90 (101) VC91 (101)
 VC92 (210, 101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC100 (101, 38)
 VC101 (101) VC102 (101, 165) VC104 (26, 187, 210, 101) VC105 (190, 101) VC106 (101)
 VC107 (101) VC108 (101) VC109 (101) VC110 (77, 101, 38) VC111 (101) VC112 (62, 101, 38)
- Corixa dentipes* Thomson (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC84 (189, 38) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91
 (101) VC92 (101) VC95 (101) VC96 (101, 38) VC97 (101) VC98 (101) VC99 (101) VC101 (101)
 VC110 (101, 38)
- Corixa iberica* Jansson (Corixidae)
 VC98 (101) VC100 (4, 101, 5) VC102 (101) VC103 (101) VC104 (101, 5) VC105 (101) VC107
 (101) VC108 (101) VC110 (101, 5) VC111 (180, 101, 5) VC112 (180, 177, 101, 5)
- Corixa panzeri* Fieber (Corixidae)
 VC72 (101) VC73 (101) VC77 (101) VC82 (57, 101) VC83 (101) VC92 (101) VC93 (101) VC95
 (101) VC100 (101) VC103 (101) VC104 (101) VC110 (101, 38) VC111 (38) VC112 (101)
- Corixa punctata* (Illiger) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101)
 VC80 (101) VC81 (137, 101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (22, 101) VC86
 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101)
 VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (4) VC99 (101) VC100 (101, 5) VC101
 (101) VC102 (166, 165) VC104 (26) VC105 (190, 101) VC106 (101) VC107 (101) VC108 (101)
 VC109 (101) VC110 (76, 38) VC112 (62, 38)
- Cymatia bonsdorffii* (C.R. Sahlberg) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC87 (101) VC88 (101) VC89 (101) VC90
 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101, 38) VC96 (101, 38, 157) VC97 (101)
 VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (109, 187,
 210, 101) VC105 (101, 38) VC106 (101) VC108 (101) VC109 (101) VC110 (101, 38, 179)

Cymatia coleoptrata (Fabricius) (Corixidae)

VC103 (38) VC110 (38)

Glaenocoris cavifrons (Thomson) (Corixidae)

VC102 (165)

Glaenocoris propinqua (Fieber) (Corixidae) [DELETED]

Hesperocoris castanea (Thomson) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26, 75, 109, 187, 210, 101) VC105 (35, 190, 101) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (75, 77, 101, 38, 179) VC111 (101) VC112 (101)

Hesperocoris linnaei (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC82 (57, 101) VC83 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC92 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (101) VC106 (101) VC110 (101, 38)

Hesperocoris sahlbergi (Fieber) (Corixidae)

VC72 (143, 152, 16, 101) VC73 (104, 16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (26, 101) VC105 (190, 101, 38) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (101, 38) VC111 (101)

Micronecta minutissima (Linnaeus) (Corixidae)

VC110 (214)

Micronecta poweri (Douglas & Scott) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC79 (101) VC80 (101) VC85 (101) VC87 (101) VC88 (101) VC89 (101) VC92 (101) VC94 (101) VC95 (101) VC98 (101) VC99 (101) VC102 (166, 165) VC103 (101) VC104 (26, 187, 210, 101, 38) VC105 (101) VC107 (101) VC109 (101) VC110 (101, 38) VC111 (101)

Paracorixa concinna (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101) VC81 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (57, 101) VC87 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC102 (101) VC109 (101) VC110 (101, 38) VC111 (101)

Sigara distincta (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC79 (101) VC80 (101) VC81 (101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC86 (108, 101) VC87 (101) VC88 (101, 156) VC89 (101, 156) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101) VC94 (101) VC95 (101) VC96 (181, 12, 101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101) VC103 (101) VC104 (26, 101) VC105 (101, 38) VC106 (101, 157) VC107 (101) VC108 (101) VC109 (101) VC110 (77, 101, 38, 179) VC111 (101) VC112 (62, 101, 38)

Sigara dorsalis (Leach) (Corixidae)

VC72 (152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (137, 101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101) VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101) VC94 (101) VC95 (101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (101) VC106 (101) VC107 (101) VC108 (101) VC109 (101) VC110 (101, 38) VC111 (101) VC112 (101, 38)

Sigara falleni (Fieber) (Corixidae)

VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC78 (101) VC79 (101) VC80 (101) VC81 (101) VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (101) VC93 (101)

- VC95 (101) VC96 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101)
 VC103 (101) VC104 (101, 38) VC106 (101) VC107 (101) VC111 (101)
- Sigara fossarum* (Leach) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC80 (101)
 VC82 (57, 101) VC83 (101) VC84 (101) VC85 (101) VC86 (101) VC87 (101) VC88 (101) VC89
 (101) VC92 (101) VC96 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101)
 VC103 (101) VC105 (101) VC106 (101) VC107 (101) VC109 (101) VC110 (101, 38)
- Sigara lateralis* (Leach) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101) VC79 (101)
 VC80 (101) VC81 (137, 101) VC82 (101, 45) VC83 (101) VC84 (101) VC85 (101) VC86 (101)
 VC87 (101) VC89 (101) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101) VC94 (101)
 VC95 (101) VC100 (101) VC101 (101, 38) VC102 (101) VC110 (101, 38) VC111 (101) VC112
 (62, 101, 38)
- Sigara limitata* (Fieber) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC96 (12)
- Sigara nigrolineata* (Fieber) (Corixidae)
 VC72 (143, 152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101)
 VC80 (101) VC81 (137, 101) VC82 (101) VC83 (101) VC84 (101) VC85 (22, 101) VC86 (101)
 VC87 (101) VC88 (213, 101) VC89 (101) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101)
 VC94 (101) VC95 (101) VC96 (157) VC102 (165) VC104 (26, 109, 187, 210, 211) VC105 (35,
 190) VC110 (77) VC112 (62, 38)
- Sigara scotti* (Douglas & Scott) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC85 (101) VC86 (101)
 VC87 (101) VC88 (101, 156) VC89 (101) VC90 (101) VC91 (101) VC92 (210, 101) VC93 (101)
 VC94 (101) VC95 (101) VC96 (57, 12, 101, 157) VC97 (101) VC98 (101) VC99 (101) VC100
 (101) VC101 (101) VC102 (101, 165) VC103 (101) VC104 (26, 109, 187, 210, 211, 101) VC105
 (190, 101) VC106 (101, 157) VC107 (101) VC108 (101) VC109 (101) VC110 (76, 77, 101, 38,
 179) VC111 (101) VC112 (62, 101, 38)
- Sigara selecta* (Fieber) (Corixidae) [DELETED]
- Sigara semistriata* (Fieber) (Corixidae)
 VC72 (153, 152, 16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC76 (101) VC77 (101)
 VC78 (101) VC79 (101) VC80 (101) VC82 (101) VC83 (101) VC84 (101) VC85 (101) VC86
 (101) VC87 (101) VC88 (101) VC89 (101) VC91 (101) VC92 (101) VC93 (101) VC95 (101)
 VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101) VC101 (101) VC102 (101)
 VC103 (101) VC104 (101) VC105 (101) VC106 (101) VC107 (101) VC108 (101, 38) VC109
 (101) VC110 (101, 38, 179)
- Sigara stagnalis* (Leach) (Corixidae)
 VC74 (16, 101)
- Sigara venusta* (Douglas & Scott) (Corixidae)
 VC72 (16, 101) VC73 (16, 101) VC74 (16, 101) VC75 (101) VC77 (101) VC79 (101) VC83 (101)
 VC85 (101) VC87 (101) VC88 (101) VC89 (101) VC90 (101) VC92 (101) VC93 (101) VC94
 (101) VC95 (172, 101) VC96 (101) VC97 (101) VC98 (101) VC99 (101) VC100 (101, 38) VC101
 (101) VC102 (101, 165) VC103 (101) VC104 (26, 187, 210, 211, 101) VC105 (101) VC108 (101)
 VC109 (101) VC110 (76, 101) VC111 (101, 38) VC112 (101)

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TABLE 1. The references relating to the numbers in the list of divided records.

(1)	Aitkins (1936)	(51)	Evans (1913)
(2)	Alexander (2000)	(52)	Evans (1915)
(3)	Alexander (2015)	(53)	Eversham (1987)
(4)	Angus (2006a)	(54)	Eyre et al. (2004)
(5)	Angus (2006b)	(55)	Fergusson (1920)
(6)	Badmin (1970)	(56)	Foster (2005)
(7)	Blair (1931)	(57)	Gillespie (1985)
(8)	Bland & Lyszkowski (2005)	(58)	Grimshaw (1906)
(9)	Bland <i>et al.</i> (1999)	(59)	Grimshaw (1910)
(10)	Bratton (2012)	(60)	Grimshaw (1920)
(11)	Brinkhurst (1956)	(61)	Grimshaw (1930)
(12)	Brinkhurst (1957)	(62)	Hale Carpenter (1950)
(13)	Brinkhurst (1959)	(63)	Hall (1951)
(14)	Brock (1912)	(64)	Hancock (1992)
(15)	Brooke (2008)	(65)	Hancock (1993)
(16)	Brown (1940-44)	(66)	Hancock (1997)
(17)	Brown (1948)	(67)	Hancock (1998)
(18)	Brown (1950)	(68)	Hancock (2000a)
(19)	Brown (1951)	(69)	Hancock (2000b)
(20)	Brown (1954)	(70)	Hancock (2001)
(21)	Butler (1921)	(71)	Hancock (2002)
(22)	Campbell (1980)	(72)	Heslop Harrison (1940a)
(23)	China (1935)	(73)	Harwood (1921)
(24)	China (1952)	(74)	Hawkins (2013)
(25)	Claridge <i>et al.</i> (1968)	(75)	Heslop Harrison (1937)
(26)	Clifton (1984)	(76)	Heslop Harrison (1940b)
(27)	Crossley (1974)	(77)	Heslop Harrison (1941a)
(28)	Crowson & Crowson (1961)	(78)	Heslop Harrison (1941b)
(29)	Crowson & Crowson (1963)	(79)	Heslop Harrison (1943)
(30)	Crowson <i>et al.</i> (1966)	(80)	Heslop Harrison (1947)
(31)	Crowson (1971)	(81)	Heslop Harrison (1950)
(32)	Crowson (1972)	(82)	Hill (1947)
(33)	Crowson (1974)	(83)	Hill (1952)
(34)	Day (1936)	(84)	Hill (1965)
(35)	Day (1938)	(85)	Hill (1968)
(36)	Day (1940)	(86)	Hill (1973)
(37)	Dolling (1977)	(87)	Hodge (1992)
(38)	Dolling (1983)	(88)	Horsfield (1984)
(39)	Dolling (2005)	(89)	Horsfield (1989a)
(40)	Donisthorpe (1922)	(90)	Horsfield (1989b)
(41)	Donisthorpe (1923)	(91)	Horsfield (2001)
(42)	Doughty (1985)	(92)	Horsfield (2002a)
(43)	Evans & Grimshaw (1916)	(93)	Horsfield (2002b)
(44)	Evans (1897)	(94)	Horsfield (2003)
(45)	Evans (1900a)	(95)	Horsfield (2010a)
(46)	Evans (1900b)	(96)	Horsfield (2010b)
(47)	Evans (1901)	(97)	Horsfield (2015)
(48)	Evans (1912a)	(98)	Hudson Beare (1926)
(49)	Evans (1912b)	(99)	Hutchinson (1923)
(50)	Evans (1912c)	(100)	Huxley (1997)

TABLE 1 *CONTINUED*.

(101) Huxley (2003)	(151) Murray (1939b)
(102) Ing (1964)	(152) Murray (1939c)
(103) Judd (1998)	(153) Murray (1940)
(104) Kenward (1970)	(154) Nau (1978a)
(105) Kenward (1971a)	(155) Nau (1991)
(106) Kenward (1971b)	(156) Nau (1991-1992)
(107) Kenward (1973)	(157) Nau (1993)
(108) Kenward (1978)	(158) Nau (1995)
(109) Kevan (1941)	(159) Nau (2005)
(110) King (1913)	(160) Nelson & Theaker (1982)
(111) King (1917)	(161) Nelson (1983/84)
(112) Kirby & Lambert (1992)	(162) Nelson (1980)
(113) Kirby (1993)	(163) Nelson (1982)
(114) Kirby (1994)	(164) Nelson (1983)
(115) Lack (1932)	(165) Nelson (2013)
(116) Le Quesne (1955)	(166) Nelson (2014)
(117) Le Quesne (1958)	(167) Norman (1877)
(118) Leston (1953)	(168) Norman (1879)
(119) Limbert & Slack (1939)	(169) Norman (1880b)
(120) Lindroth (1955)	(170) Norman (1881)
(121) Littlewood (2009)	(171) O'Donoghue (1935)
(122) Littlewood (2010a)	(172) Pickard-Cambridge (1920)
(123) Littlewood (2010b)	(173) Pollitt & Ferguson (2011)
(124) Littlewood (2011)	(174) Porter (1989)
(125) MacNulty (1971)	(175) Ramsay (2014)
(126) Masee (1945)	(176) Richter (1953)
(127) Masee (1960a)	(177) Riddiford (2010)
(128) Masee (1960b)	(178) Ridpath (1953)
(129) Masee (1961)	(179) Robinson et al. (2015)
(130) Masee (1962)	(180) Savage (1991)
(131) Masee (1964)	(181) Scudder (1958a)
(132) McAllister (1962)	(182) Scudder (1958b)
(133) McDermott (1960)	(183) Shirt (1984)
(134) McGregor & Kirkaldy (1898/99)	(184) Sinclair (1974)
(135) McGregor (1893)	(185) Skidmore (1962)
(136) McGregor (1894)	(186) Slack (1937)
(137) McNeill (1963)	(187) Steel & Woodroffe (1969)
(138) Mearns (1901)	(188) Thornley (1896)
(139) Miller & Owen (1952)	(189) Waterston (1936)
(140) Moran (1993)	(190) Waterston (1939)
(141) Morison (1935)	(191) Waterston (1964)
(142) Murray (1934)	(192) White (1871/72)
(143) Murray (1935)	(193) Woodroffe (1951)
(144) Murray (1936)	(194) Woodroffe (1960)
(145) Murray (1937a)	(195) Woodroffe (1961)
(146) Murray (1937b)	(196) Woodroffe (1962)
(147) Murray (1937c)	(197) Woodroffe (1963)
(148) Murray (1938a)	(198) Woodroffe (1964)
(149) Murray (1938b)	(199) Woodroffe (1965)
(150) Murray (1939a)	(200) Woodroffe (1967a)

TABLE 1 CONTINUED.

(201) Woodroffe (1967b)	(219) Douglas & Scott (1868)
(202) Woodroffe (1968)	(220) White (1869)
(203) Woodroffe (1969a)	(221) White (1870)
(204) Woodroffe (1969b)	(222) Douglas (1874a)
(205) Woodroffe (1970)	(223) Douglas (1874b)
(206) Woodroffe (1971a)	(224) Douglas & Scott (1874)
(207) Woodroffe (1971b)	(225) Douglas & Scott (1875)
(208) Woodroffe (1973a)	(226) Reuter (1876a)
(209) Woodroffe (1973b)	(227) Reuter (1876b)
(210) Woodroffe (1974)	(228) Douglas (1876)
(211) Wormell (2006)	(229) Norman (1876)
(212) Haines (1936)	(230) Reuter (1877)
(213) Blair (1932)	(231) Saunders (1877)
(214) Brown & Scudder (1958)	(232) White (1877)
(215) Douglas & Scott (1866)	(233) Reuter (1878)
(216) Marshall (1866)	(234) Hewitt (2016a)
(217) Douglas & Scott (1867a)	(235) Hewitt (2016b)
(218) Douglas & Scott (1867b)	

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**THE MERGING OF RYAN'S LISTS OF HEMIPTERA-HETEROPTERA FOR
LEICESTERSHIRE AND RUTLAND INTO A SINGLE VICE-COUNTY LIST FOR VC55**

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This article may be accused of being facile, but I felt it was important to put on record all the operations carried out in order to convert the county distribution of the Hemiptera-Heteroptera (Ryan, 2014 & 2015a) into a vice-county distribution, no matter how trivial. These operations were set out in Ryan (2015b) and have so far comprised the division of the lists for seventeen geographical regions (Scotland, Ireland and fifteen English counties) that correspond to more than one vice-county, which complete in this issue of the *Hemipterist* (Ryan, 2015c, 2015d, 2016a, 2016b, 2016c, 2017a, 2017b, 2017c, 2017d, 2018a, 2018b, 2018c, 2018d, 2018e, 2018f, 2018g & 2018h).

All that now remains to be done is to merge lists where geographical areas have been combined into a single vice-county. The merging of Furness (part of the geographical region Lancashire & Isle of Man) with Westmoreland into Watsonian Westmorland with Furness (VC69) was resolved with the division of the list for Lancashire & Isle of Man into lists for its three constituent vice-counties. In fact, any records for Furness found during the preparation of the Ryan (2014) were assigned to Westmoreland, in anticipation of this operation. Consequently, the merging of the lists for Leicestershire and Rutland into a single list for Watsonian Leicestershire with Rutland (VC55) is the final operation in the creation of the vice-county distribution.

There are just 22 records for Rutland in the county distribution, compared with 176 for Leicestershire. Only one species recorded for Rutland is not also recorded for Leicestershire, *Oeciacus hirundinis* (Lamarck) (Cimicidae). Consequently, the merging of the two lists requires the deletion of 21 duplicate records, producing a list for VC55 comprising 177 species. It is this list, which will appear in the vice-county distribution to be presented in Volume 6 of this journal.

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***NYSIUS CYMOIDES* (SPINOLA) (LYGAEIDAE) DELETED
FROM RYAN'S LIST FOR HERTFORDSHIRE**

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During my preparation of Ryan (2018), the recorder for Bedfordshire, Bernard Nau, pointed out that the records of *Nysius cymoides* (Spinola) (Lygaeidae) for Bedfordshire and Hertfordshire in Nau (2004) are erroneous. The former record was mentioned as deleted in Ryan (2018), and I have since had confirmation from the recorder for Hertfordshire, Joe Gray, that he has no record for this species. Consequently, *N. cymoides* must also be deleted from Ryan's list for Hertfordshire.

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**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM DATA SETS PROVIDED BY RECORDERS**

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Given that the county distribution of the Hemiptera-Heteroptera (Ryan, 2014a & 2014b) has now been converted into a vice-county distribution, it is time to go through the many spreadsheets I have been sent by readers of this journal, and see if there are any additional new vice-county records. These spreadsheets were scoured for new records at the time they were received, and any new records published. However, at these times not all the historic counties of the county distribution had had their lists divided into separate lists for their constituent vice-counties. Consequently, records not new for an historic county might now be new for one of the corresponding vice-counties. The ensuing re-analysis of these spreadsheets, using my bespoke computer software, produced the following list of new records, originating from data sets supplied by Rob Coleman", Richard Dickson^, Steve Lane* and Stuart Warrington~.

- Elasmostethus interstinctus* (Linnaeus) (Acanthosomatidae)
VC8: 20-Aug-12, SU1845, Bulford Field (& Dumbell Copse).^
- Coriomeris denticulatus* (Scopoli) (Coreidae)
VC8: 14-Jul-03, SU091461, Bustard Vedette.^
- Myrmus miriformis* (Fallén) (Rhopalidae)
VC8: 27-Jun-11, SU091461, Bustard Vedette.^
- Aphanus rolandri* (Linnaeus) (Lygaeidae)
VC26: 16 May 2014, TL7786, Brandon* & 12/07/2007, TL855832, Thetford."
- Henestaris laticeps* (Curtis) (Lygaeidae)
VC4: 09 Aug 1996, SS4338, Croyde.*
- Heterogaster urticae* (Fabricius) (Lygaeidae)
VC13: 09-Aug-11, SU7504, Thorney Island.^
- Megalonotus praetextatus* (Herrich-Schaeffer) (Lygaeidae)
VC4: 09 Aug 1996, SS4339, Croyde dunes.*
- Nysius huttoni* F.B. White (Lygaeidae)
VC26: 07 Aug 2015, TL78.*
- Scolopostethus affinis* (Schilling) (Lygaeidae)
VC8: 27-Jun-11, SU1845, Bulford Field (& Dumbell Copse).^
- Scolopostethus decoratus* (Hahn) (Lygaeidae)
VC26: 07 Aug 2015, TL78.* & 06/08/2003, TL818604, Ickworth: Fairy Lake. ~
- Stygnocoris rusticus* (Fallén) (Lygaeidae)
VC8: 08-Sep-08, SU0348, 1 km North of Tilshead.^
- Stygnocoris sabulosus* (Schilling) (Lygaeidae)
VC8: 29-Aug-08, SU1845, Bulford Field (& Dumbell Copse).^
- Taphropeltus contractus* (Herrich-Schaeffer) (Lygaeidae)
VC26: 16 May 2014, TL7786, Brandon.*
- Berytinus clavipes* (Fabricius) (Berytidae)
VC8: 20-Aug-12, SU0247, Horse Down, Nr. Tilshead.^
- Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)
VC8: 11-May-09, SU1845, Bulford Field (& Dumbell Copse).^
- Empicoris vagabundus* (Linnaeus) (Reduviidae)
VC26: 22 Jul 2014, TL9835, Tendring Hall, Stoke-by-Nayland.*
- Himacerus mirmicoides* (O. Costa) (Nabidae)
VC26: 04 May 2014, TL7685, Brandon.* & 31/10/2015, TL812615, Ickworth: Albana Wood, east. ~

- Nabis flavomarginatus* Scholtz (Nabidae)
VC8: 14-Jul-03, SU091461, Bustard Vedette.^
- Nabis limbatus* Dahlbom (Nabidae)
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Nabis rugosus* (Linnaeus) (Nabidae)
VC13: 28-May-12, SU9807, Rewell Wood, W. of Arundel.^
- Anthocoris nemoralis* (Fabricius) (Anthocoridae)
VC8: 09-Jul-12, SU1845, Bulford Field (& Dumbell Copse).^
- Anthocoris nemorum* (Linnaeus) (Anthocoridae)
VC3: 07-Sep-03, SX6349, Great Orcheton Farm.^
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 28-May-12, SU9807, Rewell Wood, W. of Arundel.^
- Dufouriellus ater* (Dufour) (Anthocoridae)
VC26: 15 Aug 2014, TL9935, Tendring Hall, Stoke-by-Nayland.*
- Temnostethus gracilis* Horváth (Anthocoridae)
VC26: 22 Jul 2014, TL9935, Tendring Hall, Stoke-by-Nayland.*
- Loricula coleoptrata* (Fallén) (Microphysidae)
VC26: 03 Sep 2015, TL78.*
- Loricula elegantula* (Baerensprung) (Microphysidae)
VC26: 22 Jul 2014, TL9835, Tendring Hall, Stoke-by-Nayland.*
- Amblytylus nasutus* (Kirschbaum) (Miridae)
VC8: 15-Jun-09, SU1845, Bulford Field (& Dumbell Copse).^
VC26: 02 Jul 2014, TL7786, Brandon.*
- Apolygus lucorum* (Meyer-Dür) (Miridae)
VC8: 29-Aug-08, SU1845, Bulford Field (& Dumbell Copse).^
- Apolygus spinolae* (Meyer-Dür) (Miridae)
VC13: 31-Aug-05, SU8223, Fyning area.^
- Blepharidopterus angulatus* (Fallén) (Miridae)
VC8: 20-Aug-12, SU1845, Bulford Field (& Dumbell Copse).^
VC13: 15-Aug-11, SU9807, Rewell Wood.^
- Calocoris roseomaculatus* (De Geer) (Miridae)
VC8: 14-Jul-03, SU091461, Bustard Vedette.^
- Charagochilus gyllenhalii* (Fallén) (Miridae)
VC8: 25-Jul-06, ST9752, Great Cheverell Hill NR.^
- Closterotomus norwegicus* (Gmelin) (Miridae)
VC3: 11-Jul-07, SY2088, West Cliff, Branscombe.^
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 09-Aug-11, SU7504, Thorney Island.^
- Deraeocoris flavilinea* (A. Costa) (Miridae)
VC8: 14-Jul-03, SU0348, 1 km North of Tilshead.^
- Deraeocoris lutescens* (Schilling) (Miridae)
VC8: 16-May-11, SU1845, Bulford Field (& Dumbell Copse).^
- Heterotoma planicornis* (Pallas) (Miridae)
VC3: 11-Jul-07, SY2089, Branscombe.^
- Leptopterna ferrugata* (Fallén) (Miridae)
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^
- Lygocoris pabulinus* (Linnaeus) (Miridae)
VC8: 29-Aug-08, SU1845, Bulford Field (& Dumbell Copse).^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Megaloceroea recticornis* (Geoffroy) (Miridae)
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Notostira elongata* (Geoffroy) (Miridae)
VC3: 11-Jul-07, SY2088, West Cliff, Branscombe.^
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^

- Orthops campestris* (Linnaeus) (Miridae)
VC13: 09-Aug-11, SU7504, Thorney Island.^
- Orthocephalus coriaceus* (Fabricius) (Miridae)
VC26: 02 Jul 2014, TL7786, Brandon.*
- Orthotylus ochrotrichus* Fieber (Miridae)
VC8: 09-Jul-12, SU1845, Bulford Field (& Dumbell Copse).^
- Orthotylus virescens* (Douglas & Scott) (Miridae)
VC26: 07 Aug 2015, TL78.* & 17/09/2003, TL815624, Ickworth: Horringer Park, nr Kings Meadow Road.~
- Phoenicocoris obscurellus* (Fallén) (Miridae)
VC26: 07 Aug 2015, TL78.*
- Phytocoris ulmi* (Linnaeus) (Miridae)
VC3: 11-Jul-07, SY2088, West Cliff, Branscombe.^
- Phytocoris varipes* Boheman (Miridae)
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
VC13: 31-Jul-05, SU8223, Fyning area.^
- Pinalitus cervinus* (Herrich-Schaeffer) (Miridae)
VC8: 25-Jun-12, SU1845, Bulford Field (& Dumbell Copse).^
- Pithanus maerkelii* (Herrich-Schaeffer) (Miridae)
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^
VC26: 10 Jun 2014, TL7685, Brandon.*
- Plagiognathus arbustorum* (Fabricius) (Miridae)
VC3: 11-Jul-07, SY2089, Branscombe.^
VC8: 14-Jul-03, ST9852, Great Cheverell Hill.^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Polymerus nigrita* (Fallén) (Miridae)
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
VC26: 07 Aug 2015, TL78.*
- Psallus ambiguus* (Fallén) (Miridae)
VC8: 22-Jun-09, SU1845, Bulford Field (& Dumbell Copse).^
- Stenodema laevigata* (Linnaeus) (Miridae)
VC3: 06-Jun-13, SX716861, Middlecot nr Chagford, Dartmoor.^
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
VC13: 15-Aug-11, SU9807, Rewell Wood, W. of Arundel.^
- Stenotus binotatus* (Fabricius) (Miridae)
VC8: 30-Jun-04, ST9852, Great Cheverell Hill.^
- Strongylocoris leucocephalus* (Linnaeus) (Miridae)
VC8: 14-Jul-03, ST9752, Great Cheverell Hill NR.^
- Ceratocombus coleoptratus* (Zetterstedt) (Ceratocombidae)
VC26: 17 Sep 2015, TL78.*

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**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM THE NBN ATLAS**

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With the imminent publication of the vice-county distribution of the Hemiptera-Heteroptera, and having extracted all the vice-county records from the entomological literature and recorder's spreadsheets presently available to me, I thought it was time to look at internet sources of records. The most important of these in Britain is the NBN Atlas (<http://www.nbnatlas.org/>), which includes among its data providers other recording websites.

On 8 April 2018, I downloaded the Hemiptera dataset of the NBN Atlas which delivered an Excel spreadsheet containing 367,576 records, containing Homoptera as well as the desired Heteroptera. There were no vice-county assignments for the records, so the bulk grid reference parser of the Botanical Society of Britain and Ireland website (<https://database.bsbi.org/gridrefparser.php>) was used to add these. This augmented spreadsheet was then compared against my own database, in the same manner as I have frequently done with spreadsheets supplied by readers of this journal, using bespoke computer software I have written for the purpose. Many records did not have a location of sufficient precision to be assigned to an individual vice-county, and were rejected by this process. The new vice-county records so identified were then interpreted in the same way as records published in the literature by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). All records lacking a date, essential for this interpretation, were deleted.

The result of this analysis was a spreadsheet containing 11,941 records, comprising 2,708 species-vice-county combinations that were new to the vice-county distribution. These are listed below, with the vice-county codes following the species names.

Aneurus avenius (Dufour) (Aradidae): 23.
Aneurus laevis (Fabricius) (Aradidae): 3; 6; 19; 32; 41; 55.
Aradus cinnamomeus Panzer (Aradidae): 49; 52.
Aradus depressus (Fabricius) (Aradidae): 6; 44; 50; 51; 55; 57; 95.
Acanthosoma haemorrhoidale (Linnaeus) (Acanthosomatidae): 4; 5; 7; 8; 42; 48; 50; 51; 52; 57; 65; 71; 87; 95; 103; 105; 106; 107; 108; 109.
Cyphostethus tristriatus (Fabricius) (Acanthosomatidae): 6; 8; 15; 35; 46; 49; 52; 56; 57; 70; 71; 96; H38.
Elasmostethus interstinctus (Linnaeus) (Acanthosomatidae): 6; 35; 36; 47; 50; 51; 52; 65; 71; 77; 82; 83; 86; 90; 94; 96; 97; 98; 99; 105; 107; 108; H38.
Elasmucha grisea (Linnaeus) (Acanthosomatidae): 5; 6; 7; 8; 35; 41; 47; 49; 50; 51; 52; 82; 83; 93; 97; 103; 105.
Adomerus biguttatus (Linnaeus) (Cydnidae): 34; 48.
Canthophorus impressus (Horváth) (Cydnidae): 26.
Geotomus punctulatus (A. Costa) (Cydnidae): 2.
Legnotus limbosus (Geoffroy) (Cydnidae): 6; 41; 46; 49; 55; 61.
Legnotus picipes (Fallén) (Cydnidae): 13.
Shirus luctuosus Mulsant & Rey (Cydnidae): 7; 13; 29; 31; 35; 56; 61.
Tritomegas bicolor (Linnaeus) (Cydnidae): 4; 8; 13; 31; 39; 57; 59; 67.
Tritomegas sexmaculatus (Rambur) (Cydnidae): 16.
Thyreocoris scarabaeoides (Linnaeus) (Thyreocoridae): 13; 25; 32; 35; 55; 69; 70.
Eurygaster maura (Linnaeus) (Scutelleridae): 14; 34.
Eurygaster testudinaria (Geoffroy) (Scutelleridae): 3; 4; 7; 13; 14; 35; 37; 46; 49; 52; 55.
Odontoscelis lineola Rambur (Scutelleridae): 45.
Aelia acuminata (Linnaeus) (Pentatomidae): 4; 6; 7; 31; 34; 35; 42; 44; 50; 51; 56; 57.
Carpocoris purpureipennis (De Geer) (Pentatomidae): 14.

- Dolycoris baccarum* (Linnaeus) (Pentatomidae): 8; 31; 42; 47; 50; 51; 59; 64; 69; 73; 74; 75; 86; 87; 90; 91.
- Eurydema dominulus* (Scopoli) (Pentatomidae): 63; 64.
- Eurydema oleracea* (Linnaeus) (Pentatomidae): 5; 6; 7; 13; 32; 37; 53; 54; 55.
- Eysarcoris venustissimus* (Schrank) (Pentatomidae): 3; 5; 6; 14; 34; 35; 36; 37; 41; 42; 55; 64.
- Neottiglossa pusilla* (Gmelin) (Pentatomidae): 6; 56.
- Palomena prasina* (Linnaeus) (Pentatomidae): 4; 7; 42; 43; 47; 50; 51; 57; 62; 64; 69; 70; 71; 96.
- Pentatoma rufipes* (Linnaeus) (Pentatomidae): 4; 35; 51; 57; 71; 74; 75; 76; 77; 78; 82; 83; 84; 87; 93; 97; 98; 108; H39.
- Peribalus strictus* (Fabricius) (Pentatomidae): 44.
- Picromerus bidens* (Linnaeus) (Pentatomidae): 4; 5; 6; 13; 31; 35; 36; 43; 47; 50; 51; 52; 55; 57; 67; 69; 74; 75; 76; 77; 82; 86; 87; 90; 95; 96; 97; 98; 100; 103; 106; 107; H38.
- Piezodorus lituratus* (Fabricius) (Pentatomidae): 4; 31; 35; 42; 47; 51; 57; 73; 75; 77; 78; 83; 86; 90; 91; 93; 94; 96; 104; 105; 106; 109; H38.
- Podops inunctus* (Fabricius) (Pentatomidae): 31; 35; 55; 56; 57.
- Rhacognathus punctatus* (Linnaeus) (Pentatomidae): 49; 57; 64; 69; 95; 96; 98; 106; 107.
- Sciocoris cursitans* (Fabricius) (Pentatomidae): 28; 34.
- Troilus luridus* (Fabricius) (Pentatomidae): 6; 36; 49; 51; 55; 57; 67; 73; 82; 83; 96.
- Zicrona caerulea* (Linnaeus) (Pentatomidae): 3; 35; 43; 47; 48; 49; 50; 51; 55; 56; 95.
- Arenocoris fallenii* (Schilling) (Coreidae): 25; 32; 42; 49.
- Bathysolen nubilus* (Fallén) (Coreidae): 29.
- Ceraleptus lividus* Stein (Coreidae): 25; 26; 31.
- Coreus marginatus* (Linnaeus) (Coreidae): 4; 6; 7; 26; 31; 33; 35; 47; 52; 56; 57; 59; 63; 64.
- Coriomeris denticulatus* (Scopoli) (Coreidae): 4; 6; 35; 36; 46; 49; 50; 51; 56; 59; 61; 62; 64; 69.
- Enoplops scapha* (Fabricius) (Coreidae): 34.
- Gonocerus acuteangulatus* (Goeze) (Coreidae): 6; 7; 8; 14; 15; 25; 29; 32; 37; 38; 53.
- Leptoglossus occidentalis* Heidemann (Coreidae): 1; 3; 4; 5; 6; 7; 8; 16; 24; 26; 29; 31; 34; 36; 39; 41; 43; 44; 45; 46; 48; 49; 50; 51; 52; 59; 61; 65; 67; 70; 71; 74; 85; 90; 111; H21; H40.
- Spathocera dalmanii* (Schilling) (Coreidae): 18; 26.
- Syromastus rhombeus* (Linnaeus) (Coreidae): 14; 35.
- Alydus calcaratus* (Linnaeus) (Alydidae): 13; 39; 46; 52.
- Chorosoma schillingii* (Schilling) (Rhopalidae): 13; 42; 51; 56.
- Corizus hyoscyami* (Linnaeus) (Rhopalidae): 5; 26; 39; 42; 55; 56; 57; 60; 64; 66; 71.
- Liorhyssus hyalinus* (Fabricius) (Rhopalidae): 3; 5.
- Myrmus miriformis* (Fallén) (Rhopalidae): 6; 31; 41; 49; 67; 69.
- Rhopalus maculatus* (Fieber) (Rhopalidae): 26.
- Rhopalus parumpunctatus* Schilling (Rhopalidae): 10; 13; 25; 46; 52.
- Rhopalus rufus* Schilling (Rhopalidae): 25.
- Rhopalus subrufus* (Gmelin) (Rhopalidae): 6; 7; 25; 31; 35; 36; 43; 47; 49; 56; 59; 61; 66; 69.
- Stictopleurus abutilon* (Rossi) (Rhopalidae): 13; 14.
- Stictopleurus punctatonervosus* (Goeze) (Rhopalidae): 15; 25; 55; 61.
- Pyrrhocoris apterus* (Linnaeus) (Pyrrhocoridae): 6; 13; 15; 34; 36.
- Dicranocephalus medius* (Mulsant & Rey) (Stenocephalidae): 6; 14.
- Acompus rufipes* (Wolff) (Lygaeidae): 35; 39; 57.
- Beosus maritimus* (Scopoli) (Lygaeidae): 44.
- Chilacis typhae* (Perris) (Lygaeidae): 3; 34; 43; 50; 51; 56; 57; 69.
- Cymus claviculus* (Fallén) (Lygaeidae): 26; 32; 49; 52; 70.
- Cymus glandicolor* Hahn (Lygaeidae): 35; 42; 43; 47; 49; 57.
- Cymus melanocephalus* Fieber (Lygaeidae): 3; 6; 14; 25; 35; 41; 42; 43; 49; 52; 55; 59; 67.
- Drymus brunneus* (R.F. Sahlberg) (Lygaeidae): 6; 43; 48; 77; 81; 82; 90; 104; 107; 108.
- Drymus latus* Douglas & Scott (Lygaeidae): 50.
- Drymus pumilio* Puton (Lygaeidae): 35.
- Drymus ryeii* Douglas & Scott (Lygaeidae): 6; 14; 35; 46; 49; 52; 55; 69; 96.
- Drymus sylvaticus* (Fabricius) (Lygaeidae): 43; 45; 67; 86; 94; 96; 106; 108.
- Eremocoris plebejus* (Fallén) (Lygaeidae): 17; 69; 106.

- Eremocoris podagricus* (Fabricius) (Lygaeidae): 9; 55; 63.
Gastrodes abietum Bergroth (Lygaeidae): 26; 96.
Gastrodes grossipes (De Geer) (Lygaeidae): 35; 56; 69; 82; 105; 107.
Graptopeltus lynceus (Fabricius) (Lygaeidae): 4.
Heterogaster artemisiae Schilling (Lygaeidae): 6; 70.
Heterogaster urticae (Fabricius) (Lygaeidae): 3; 6; 7; 34; 35; 37; 43; 45; 46; 47; 49; 50; 52; 55; 56; 69; 70.
Ischnocoris angustulus (Boheman) (Lygaeidae): 46; 48.
Ischnodemus sabuleti (Fallén) (Lygaeidae): 35; 41.
Kleidocerys ericae (Horváth) (Lygaeidae): 45; 96; 97.
Kleidocerys resedae (Panzer) (Lygaeidae): 6; 31; 42; 48; 49; 50; 52; 69; 70; 96.
Lamproplax picea (Flor) (Lygaeidae): 15; 42; 43; 50; 52.
Lasiosomus enervis (Herrich-Schaeffer) (Lygaeidae): 35.
Macrodema microptera (Curtis) (Lygaeidae): 26; 41; 52; 56; 71; 96; H38.
Megalonotus chiragra (Fabricius) (Lygaeidae): 6; 9; 35; 41; 49; 70.
Megalonotus dilatatus (Herrich-Schaeffer) (Lygaeidae): 52.
Megalonotus emarginatus (Rey) (Lygaeidae): 55.
Megalonotus praetextatus (Herrich-Schaeffer) (Lygaeidae): 49.
Nysius ericae (Schilling) (Lygaeidae): 15; 25; 41; 48; 70; 86; 96.
Nysius graminicola (Kolenati) (Lygaeidae): 15.
Nysius senecionis (Schilling) (Lygaeidae): 25.
Nysius thymi (Wolff) (Lygaeidae): 6; 25; 26; 41; 48; 49; 63; 67; 68; 70; 84; 86; 105; 108.
Orsillus depressus (Mulsant & Rey) (Lygaeidae): 55.
Pachybrachius fracticollis (Schilling) (Lygaeidae): 41; 42; 43; 47; 49; 50; 52; 69.
Pachybrachius luridus Hahn (Lygaeidae): 48; 52.
Peritrechus geniculatus (Hahn) (Lygaeidae): 3; 6; 35; 45; 49; 52; 69; 70; 71.
Peritrechus lundii (Gmelin) (Lygaeidae): 6; 25; 35; 46; 49; 52.
Peritrechus nubilus (Fallén) (Lygaeidae): 32.
Plinthisus brevipennis (Latreille) (Lygaeidae): 6; 34; 56; 70.
Raglius alboacuminatus (Goeze) (Lygaeidae): 26.
Rhyparochromus pini (Linnaeus) (Lygaeidae): 49.
Rhyparochromus vulgaris (Schilling) (Lygaeidae): 25.
Scolopostethus affinis (Schilling) (Lygaeidae): 35; 49; 71; 86; 96.
Scolopostethus decoratus (Hahn) (Lygaeidae): 35; 42; 43; 47; 67; 95; 97; 105; 108; 111; H38.
Scolopostethus grandis Horváth (Lygaeidae): 35; 47; 48; 50; 52; 62; 63.
Scolopostethus puberulus Horváth (Lygaeidae): 6; 35; 41; 49; 50; 63.
Scolopostethus thomsoni Reuter (Lygaeidae): 6; 35; 49; 52; 75; 95; 105; 111.
Stygnocoris fuliginus (Geoffroy) (Lygaeidae): 6; 26; 35; 47; 51; 96; 106; H38.
Stygnocoris rusticus (Fallén) (Lygaeidae): 35; 50; 68; 96.
Stygnocoris sabulosus (Schilling) (Lygaeidae): 4; 6; 43; 50; 67; 77; 108; 111; H38.
Taphropeltus contractus (Herrich-Schaeffer) (Lygaeidae): 6; 49.
Trapezonotus arenarius (Linnaeus) (Lygaeidae): 17; 48; 52; 69; 70; 71.
Trapezonotus desertus Seidenstücker (Lygaeidae): 15; 25; 41; 48; 52; 70; 74; 95.
Trapezonotus dispar Stål (Lygaeidae): 41.
Trapezonotus ullrichi (Fieber) (Lygaeidae): 4.
Tropistethus holosericus (Scholtz) (Lygaeidae): 41.
Xanthochilus quadratus (Fabricius) (Lygaeidae): 58.
Berytinus crassipes (Herrich-Schaeffer) (Berytidae): 30; 41; 45; 49.
Berytinus hirticornis (Brullé) (Berytidae): 16.
Berytinus minor (Herrich-Schaeffer) (Berytidae): 57; 63; 85.
Berytinus montivagus (Meyer-Dür) (Berytidae): 19.
Berytinus signoreti (Fieber) (Berytidae): 12; 35; 49; 66; 96.
Gampsocoris punctipes (Germar) (Berytidae): 50; 69; 71.
Metatropis rufescens (Herrich-Schaeffer) (Berytidae): 4; 13; 15; 26; 35; 42; 43; 48; 49; 52; 55; 57; 58.
Neides tipularius (Linnaeus) (Berytidae): 34; 69.

- Parapiesma quadratum* (Fieber) (Piesmatidae): 6; 50; 51; 63; 69; 96.
Piesma maculatum (Laporte) (Piesmatidae): 6; 34; 96.
Acalypta brunnea (Germar) (Tingidae): 15; 69; 70; 96; 104.
Acalypta carinata (Panzer) (Tingidae): 26; 33; 43; 48; 49; 50; 52; 69; 77; 111.
Acalypta nigrina (Fallén) (Tingidae): 15; 94; 107.
Acalypta parvula (Fallén) (Tingidae): 35; 42; 49; 50; 51; 68; 96; 105; 106; 107; 108; 111; H38.
Agramma laetum (Fallén) (Tingidae): 13; 48; 49; 52; 56.
Campylosteira verna (Fallén) (Tingidae): 2; 5; 14; 32; 42; 49.
Derephysia foliacea (Fallén) (Tingidae): 43.
Dictyla convergens (Herrich-Schaeffer) (Tingidae): 3; 15; 35; 42; 46; 49; 50; 52; 55; 57.
Dictyonota fuliginosa A. Costa (Tingidae): 56.
Dictyonota strichnocera Fieber (Tingidae): 4; 26; 42; 69.
Kalama tricornis (Schrank) (Tingidae): 35.
Physatocheila dumetorum (Herrich-Schaeffer) (Tingidae): 4; 35; 36; 55.
Stephanitis takeyai Drake & Maa (Tingidae): 41.
Tingis ampliata (Herrich-Schaeffer) (Tingidae): 44; 45; 47; 49; 52; 55; 59; 62.
Tingis cardui (Linnaeus) (Tingidae): 35; 50; 69; 75; 82; 83; 84; 97; 108.
Tingis reticulata Herrich-Schaeffer (Tingidae): 41.
Coranus woodroffeii P.V. Putshkov (Reduviidae): 41; 52; 70.
Empicoris baerensprungi (Dohrn) (Reduviidae): 15.
Empicoris vagabundus (Linnaeus) (Reduviidae): 36; 52; 81; 82; 85; 107.
Reduvius personatus (Linnaeus) (Reduviidae): 57.
Himacerus apterus (Fabricius) (Nabidae): 6; 35; 36; 41; 55; 57.
Himacerus boops (Schjødte) (Nabidae): 14; 41; 52.
Himacerus major (A. Costa) (Nabidae): 35; 50; 51; 68; 69; 73; 91; 96.
Himacerus mirmicoides (O. Costa) (Nabidae): 4; 56; 57; 61; 70.
Nabis brevis Scholtz (Nabidae): 16; 34.
Nabis ericetorum Scholtz (Nabidae): 45; 48; 50; 55; 67; 97; 105; 106; 107.
Nabis ferus (Linnaeus) (Nabidae): 6; 25; 35; 47; 50; 86; 96; 106.
Nabis flavomarginatus Scholtz (Nabidae): 35; 51; 75; 82; 83; 84; 90; 95; 107; 108; 111.
Nabis limbatus Dahlbom (Nabidae): 6; 51; 75; 76; 77; 97; 98; 107; 108; 111.
Nabis lineatus Dahlbom (Nabidae): 26; 39; 49; 57; 59; 67; 70; 95; 96.
Nabis pseudoferus Remane (Nabidae): 6; 70.
Nabis rugosus (Linnaeus) (Nabidae): 4; 51; 67; 69; 75; 96; 106.
Acomporis alpinus Reuter (Anthocoridae): 33; 35; 40; 70; 105; 107.
Acomporis pygmaeus (Fallén) (Anthocoridae): 35; 47; 52; 82; 83; 105.
Anthocoris confusus Reuter (Anthocoridae): 4; 6; 25; 42; 50; 51; 52; 67; 96; 105; 106; H40.
Anthocoris gallarumulmi (De Geer) (Anthocoridae): 26; 69; 96.
Anthocoris limbatus Fieber (Anthocoridae): 6; 49.
Anthocoris minki Dohrn (Anthocoridae): 15.
Anthocoris nemoralis (Fabricius) (Anthocoridae): 35; 42; 50; 51; 68; 75; 80; 82; 83; 86; 94; 95; 96; 97; 108; 109; 111.
Anthocoris nemorum (Linnaeus) (Anthocoridae): 4; 25; 50; 51; 75; 76; 80; 84; 91; 93; 94; 97; 108; 109; 111; H40.
Anthocoris sarothamni Douglas & Scott (Anthocoridae): 35; 41; 57; 61; 63; 96; 105; 107.
Anthocoris simulans Reuter (Anthocoridae): 15; 34; 35; 41; 58; 70; 96; 106; 108.
Anthocoris visci Douglas (Anthocoridae): 33; 35.
Brachysteles parvicornis (A. Costa) (Anthocoridae): 15.
Buchananiella continua (F.B. White) (Anthocoridae): 2.
Cardiastethus fasciiventris (Garbiglietti) (Anthocoridae): 14; 37.
Dufouriellus ater (Dufour) (Anthocoridae): 35; 57.
Elatophilus nigricornis (Zetterstedt) (Anthocoridae): 70; 72.
Lycocoris campestris (Fabricius) (Anthocoridae): 96; 106.
Orius laevigatus (Fieber) (Anthocoridae): 6; 29; 35; 41; 49; 52.
Orius laticollis (Reuter) (Anthocoridae): 35; 42.

- Orius majusculus* (Reuter) (Anthocoridae): 35; 41; 43; 50.
Orius niger (Wolff) (Anthocoridae): 6; 25; 31; 35; 50; 70.
Orius vicinus (Ribaut) (Anthocoridae): 6; 14; 16; 25; 26; 35; 37; 41; 49; 63; 70.
Temnostethus gracilis Horváth (Anthocoridae): 35; 37; 41; 42; 57; 58; 67; 70; 95; 105; 107; 108.
Temnostethus pusillus (Herrich-Schaeffer) (Anthocoridae): 35; 41; 57; 63; 70; 95; 106.
Tetraphleps bicuspis (Herrich-Schaeffer) (Anthocoridae): 35; 96; 105.
Xylocoris cursitans (Fallén) (Anthocoridae): 7; 13; 25; 47.
Cimex lectularius Linnaeus (Cimicidae): 49; 69; 104; 105.
Cimex pipistrelli Jenyns (Cimicidae): 17; 39; 41; 47; 49; 52; 70.
Loricula distinguenda (Reuter) (Microphysidae): 4; 35; 51; 52; 64; 70.
Loricula elegantula (Baerensprung) (Microphysidae): 3; 35; 46; 52; 55; 69; 70.
Loricula exilis (Fallén) (Microphysidae): 26; 47; 52; 56; 70; 95; 105; 108.
Loricula pselaphiformis Curtis (Microphysidae): 35; 48; 49; 50; 94.
Acetropis gimmerthalii (Flor) (Miridae): 35; 41; 42.
Adelphocoris lineolatus (Goeze) (Miridae): 6; 35; 42; 68; 69; 75; 82; 91; 96.
Adelphocoris ticinensis (Meyer-Dür) (Miridae): 15; 38.
Alloeotomus gothicus (Fallén) (Miridae): 25; 35; 57; 63.
Amblytylus brevicollis Fieber (Miridae): 15; 69.
Amblytylus delicatus (Perris) (Miridae): 25.
Amblytylus nasutus (Kirschbaum) (Miridae): 6; 35; 41; 67.
Apolygus lucorum (Meyer-Dür) (Miridae): 19; 48; 75; 83; 85; 105.
Apolygus spinolae (Meyer-Dür) (Miridae): 6; 35; 47; 52; 69; 70.
Asciodema obsoleta (Fieber) (Miridae): 4; 15; 26; 50; 52; 55; 69; 75; 105; 108.
Atractotomus magnicornis (Fallén) (Miridae): 46; 67; 95.
Atractotomus mali (Meyer-Dür) (Miridae): 14; 26; 35; 41.
Atractotomus parvulus Reuter (Miridae): 15; 56; 82; 92; 96.
Blepharidopterus angulatus (Fallén) (Miridae): 50; 51; 52; 67; 75; 83.
Bothynotus pilosus (Boheman) (Miridae): 95; 104; 111.
Brachyarthrum limitatum Fieber (Miridae): 6; 57.
Bryocoris pteridis (Fallén) (Miridae): 6; 13; 35; 52; 83; 96.
Calocoris alpestris (Meyer-Dür) (Miridae): 6; 35; 47; 49; 50; 51; 55; 96.
Calocoris roseomaculatus (De Geer) (Miridae): 35; 42; 50; 69; 75; 86; 109.
Camptozygum aequale (Villers) (Miridae): 26; 96; 105.
Campylomma annulicorne (Signoret) (Miridae): 15.
Campylomma verbasci (Meyer-Dür) (Miridae): 9.
Campyloneura virgula (Herrich-Schaeffer) (Miridae): 4; 35; 37; 49; 52; 67; 69; 77; 85; 96.
Capsus ater (Linnaeus) (Miridae): 3; 4; 25; 35; 49; 50; 51; 75; 77; 80; 82; 84; 87; 105; 111.
Charagochilus gyllenhalii (Fallén) (Miridae): 35; 41; 42; 52; 69; 96; 105.
Chlamydatus evanescens (Boheman) (Miridae): 48.
Chlamydatus pulicarius (Fallén) (Miridae): 63; 69.
Chlamydatus pullus (Reuter) (Miridae): 77; 86; 107.
Chlamydatus saltitans (Fallén) (Miridae): 52; 96.
Chlamydatus wilkinsoni (Douglas & Scott) (Miridae): 43; 69.
Closterotomus fulvomaculatus (De Geer) (Miridae): 34; 35.
Closterotomus norwegicus (Gmelin) (Miridae): 4; 25; 35; 51; 67; 69; 75; 76; 77; 82; 84; 86; 98; 99; 108.
Compsidolon salicellum (Herrich-Schaeffer) (Miridae): 35; 57; 59; 69.
Conostethus brevis Reuter (Miridae): 25; 107.
Conostethus griseus Douglas & Scott (Miridae): 15; 41.
Conostethus roseus (Fallén) (Miridae): 57.
Cyllocoris histrionius (Linnaeus) (Miridae): 34; 35; 43; 47; 48; 49; 51; 65; 75; 96; 106; 107.
Cyrtorhinus caricis (Fallén) (Miridae): 15; 35; 43; 50; 51; 69; 105; 106; 108.
Deraeocoris flavilinea (A. Costa) (Miridae): 3; 6; 16; 25; 41; 55; 77.
Deraeocoris lutescens (Schilling) (Miridae): 35; 45; 46; 55; 57; 61; 69; 75.
Deraeocoris olivaceus (Fabricius) (Miridae): 11; 34; 35.

- Deraeocoris ruber* (Linnaeus) (Miridae): 35; 50; 57.
Deraeocoris scutellaris (Fabricius) (Miridae): 1; 15; 39; 60; 96.
Dichrooscytus gustavi Josifov (Miridae): 29.
Dichrooscytus rufipennis (Fallén) (Miridae): 1; 6; 15; 44; 45; 46; 48; 49; 52; 82; 106.
Dicyphus annulatus (Wolff) (Miridae): 49; 58; 68.
Dicyphus constrictus (Boheman) (Miridae): 6; 15; 35; 42; 57; 70.
Dicyphus epilobii Reuter (Miridae): 4; 13; 25; 35; 46; 51; 52; 64; 69; 75; 83; 96.
Dicyphus errans (Wolff) (Miridae): 4; 26; 35; 48; 51; 52; 55.
Dicyphus globulifer (Fallén) (Miridae): 4; 6; 35; 41; 64; 69; 82; 85; 96.
Dicyphus pallicornis (Fieber) (Miridae): 15; 42; 48; 51; 55; 67; 82; 83; 97; 105; 107; 108.
Dicyphus stachydis J. Sahlberg (Miridae): 6; 13; 35; 42; 47; 51; 52; 59; 69; 75; 77; 82; 83; 96; 104; 105.
Dryophilocoris flavoquadrinaculatus (De Geer) (Miridae): 3; 35; 42; 43; 47; 48; 57; 64; 67; 95; 96; 106.
Fieberocapsus flaveolus (Reuter) (Miridae): 35.
Globiceps fulvicollis Jakovlev (Miridae): 41.
Globiceps juniperi Reuter (Miridae): 68; 70; 106.
Grypocoris stysi (Wagner) (Miridae): 14; 25; 42; 50; 51; 75; 76; 77; 82; 85; 87; 90; 95; 96.
Hallodapus rufescens (Burmeister) (Miridae): 7; 43; 48; 50; 106.
Halticus apterus (Linnaeus) (Miridae): 12; 52.
Halticus saltator (Geoffroy) (Miridae): 15.
Harpocera thoracica (Fallén) (Miridae): 43; 47; 50; 52; 96; 98; 106; 107.
Heterocordylus genistae (Scopoli) (Miridae): 15; 35; 43; 50; 96; 107.
Heterocordylus tibialis (Hahn) (Miridae): 4; 35; 48; 49; 75; 82; 105; 107; 108.
Heterotoma planicornis (Pallas) (Miridae): 4; 35; 42; 66; 69; 83; 86.
Hoplomachus thunbergii (Fallén) (Miridae): 6; 14; 27; 41; 66.
Hypseloecus visci (Puton) (Miridae): 27.
Leptopterna dolabrata (Linnaeus) (Miridae): 42; 50; 51; 68; 75; 76; 77; 80; 82; 83; 84; 86; 87; 93; 94; 95; 104; 105; 108; 110.
Leptopterna ferrugata (Fallén) (Miridae): 4; 35; 42; 51; 64; 73; 75; 82; 83; 84; 86; 87; 97; 98; 108; 109.
Liocoris tripustulatus (Fabricius) (Miridae): 3; 13; 35; 75; 83; 93; 104; 107; 108.
Lopus decolor (Fallén) (Miridae): 4; 6; 48; 50; 52; 69; 86; 96; 99.
Lygocoris pabulinus (Linnaeus) (Miridae): 4; 35; 51; 52; 75; 97; 105; 107; 108; 111.
Lygocoris rugicollis (Fallén) (Miridae): 34; 35; 48; 50; 52; 75; 83; 97; 108; 111.
Lygus maritimus Wagner (Miridae): 16; 25; 41; 48; 49; 68; 69; 70; 71; 84; 95; 96; 104; 107.
Lygus pratensis (Linnaeus) (Miridae): 25; 55; 66; 106.
Lygus punctatus (Zetterstedt) (Miridae): 69; 84; 86; 106; 107.
Lygus rugulipennis Poppius (Miridae): 14; 25; 42; 51; 62; 66; 67; 68; 70; 75; 76; 77; 80; 83; 84; 95; 99; 105; 107; 108; H38; H40.
Lygus wagneri Remane (Miridae): 6; 39; 41; 42; 45; 48; 49; 50; 69; 70; 72; 83; 86; 96; 97; 105.
Macrolophus pygmaeus (Rambur) (Miridae): 42; 46; 57; 63; 70; 96.
Macrolophus rubi Woodroffe (Miridae): 41; 57; 63; 96.
Macrotylus paykullii (Fallén) (Miridae): 4; 35; 66; 67; 69; 82.
Macrotylus solitarius (Meyer-Dür) (Miridae): 15; 42; 70.
Malacocoris chlorizans (Panzer) (Miridae): 4; 26; 35; 42; 96; 104; 105; 106; 108.
Mecomma ambulans (Fallén) (Miridae): 4; 52; 67; 69; 75; 80; 82; 97; 107; 108.
Mecomma dispar (Boheman) (Miridae): 1; 39; 52; 106.
Megacoelum beckeri (Fieber) (Miridae): 6; 11.
Megacoelum infusum (Herrich-Schaeffer) (Miridae): 6; 35; 42.
Megaloceroea recticornis (Geoffroy) (Miridae): 6; 35; 45; 52; 59; 67.
Megalocoleus molliculus (Fallén) (Miridae): 35; 49; 69; 70.
Megalocoleus tanacetii (Fallén) (Miridae): 52; 70; 86.
Miridius quadrivirgatus (A. Costa) (Miridae): 6; 26; 27; 35; 55; 59.
Miris striatus (Linnaeus) (Miridae): 6; 35; 48; 49; 50; 51; 59; 75; 77; 86; 99.
Monalocoris filicis (Linnaeus) (Miridae): 3; 4; 6; 47; 51; 52; 65; 67; 75; 83; 94; 105; 111.

- Monosynamma bohemanii* (Fallén) (Miridae): 41.
Monosynamma sabulicola (Wagner) (Miridae): 48; 69; 70.
Myrmecoris gracilis (R.F. Sahlberg) (Miridae): 6; 25; 35.
Neolygus contaminatus (Fallén) (Miridae): 35; 42; 52; 67; 69; 73; 75; 97; 111.
Neolygus populi (Leston) (Miridae): 16.
Neolygus viridis (Fallén) (Miridae): 4; 19; 35; 47; 48; 50; 55; 69; 75; 82; 96; 106; H38.
Notostira elongata (Geoffroy) (Miridae): 35; 36; 42; 48; 51; 62; 68; 69; 72; 75; 96.
Oncotylus viridiflavus (Goeze) (Miridae): 4; 6; 35; 41; 55; 56; 57; 61.
Orthocephalus coriaceus (Fabricius) (Miridae): 35.
Orthocephalus saltator (Hahn) (Miridae): 27; 34; 35; 50; 75; 106.
Orthonotus rufifrons (Fallén) (Miridae): 6; 13; 35; 42; 46.
Orthops basalis (A. Costa) (Miridae): 35; 55; 57; 62; 70; 95; 96; 107.
Orthops campestris (Linnaeus) (Miridae): 6; 14; 25; 26; 35; 41; 46; 49; 52; 68; 69; 70; 71; 77; 95; 97; 105; 108; 111.
Orthops kalmii (Linnaeus) (Miridae): 6; 15; 35; 41; 44; 46; 47; 49; 52; 56; 57; 70; 96.
Orthotylus adenocarpus (Perris) (Miridae): 70; 72; 96.
Orthotylus bilineatus (Fallén) (Miridae): 69; 105; 107.
Orthotylus concolor (Kirschbaum) (Miridae): 15; 19.
Orthotylus ericetorum (Fallén) (Miridae): 18; 26; 35; 43; 52; 69; 71; 105; 108; 111; H38; H39.
Orthotylus flavinervis (Kirschbaum) (Miridae): 42; 46; 57; 63; 70.
Orthotylus flavosparsus (C.R. Sahlberg) (Miridae): 6; 26.
Orthotylus fuscescens (Kirschbaum) (Miridae): 105.
Orthotylus marginalis Reuter (Miridae): 6; 35; 50; 52; 67; 75; 82; 83.
Orthotylus moncreaffi (Douglas & Scott) (Miridae): 41; 68.
Orthotylus nassatus (Fabricius) (Miridae): 25; 26; 35; 70.
Orthotylus ochrotrichus Fieber (Miridae): 6; 35; 43; 48; 55; 56; 57; 70; 105.
Orthotylus prasinus (Fallén) (Miridae): 82.
Orthotylus tenellus (Fallén) (Miridae): 4; 35; 69; 96.
Orthotylus virescens (Douglas & Scott) (Miridae): 4; 6; 35; 52; 95; 105.
Orthotylus viridinervis (Kirschbaum) (Miridae): 44; 63; 69; 75; 83.
Pachytomella parallela (Meyer-Dür) (Miridae): 41; 42; 44; 69; 70; 75; 82; 83; 95; 98; 101; 105; 107.
Pantilius tunicatus (Fabricius) (Miridae): 6; 35; 46; 47; 48; 52; 69; 96; 106; 107.
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Phytocoris tiliae (Fabricius) (Miridae): 35; 47; 52; 69; 83; 104; 106.
Phytocoris ulmi (Linnaeus) (Miridae): 4; 46.
Phytocoris varipes Boheman (Miridae): 3; 4; 35; 42; 51; 52; H38.
Pilophorus cinnamopterus (Kirschbaum) (Miridae): 5; 56; 92.
Pilophorus clavatus (Linnaeus) (Miridae): 9.
Pilophorus perplexus Douglas & Scott (Miridae): 6; 25; 33; 55; 57.
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Pinalitus cervinus (Herrich-Schaeffer) (Miridae): 6; 35; 42; 52; 75; 83; 96; 105.
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Plagiognathus arbustorum (Fabricius) (Miridae): 4; 25; 35; 42; 51; 75; 76; 77; 82; 84; 97; 108; 110.
Plagiognathus chrysanthemi (Wolff) (Miridae): 25; 35; 42; 51; 60; 67; 75; 76; 77; 82; 84; 108.
Platycranus bicolor (Douglas & Scott) (Miridae): 15; 42; 45; 55; 57.

- Plesiodema pinetella* (Zetterstedt) (Miridae): 82; 96; 105.
Polymerus nigrita (Fallén) (Miridae): 14; 35; 41; 46; 50; 51; 55; 67; 69; 82; 83; 97; 106.
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Polymerus unifasciatus (Fabricius) (Miridae): 8; 13; 35; 43; 52; 69; 95.
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Psallus falleni Reuter (Miridae): 25; 69; 96.
Psallus flavellus Stichel (Miridae): 6; 35; 46; 64; 69; 70; 96.
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Stenodema laevigata (Linnaeus) (Miridae): 4; 25; 31; 42; 47; 50; 51; 66; 67; 68; 75; 76; 77; 84; 85; 86; 96; 99; 105.
Stenotus binotatus (Fabricius) (Miridae): 4; 13; 42; 50; 51; 69; 70; 75; 77; 85; 86; 106; 110.
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Trigonotylus caelestialium (Kirkaldy) (Miridae): 15; 35; 52; 55; 68; 86; 95.
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- Salda littoralis* (Linnaeus) (Saldidae): 5; 33; 42; 43; 97; 108.
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Saldula arenicola (Scholtz) (Saldidae): 16.
Saldula c-album (Fieber) (Saldidae): 22; 48; 69; 73; 77; 104; 105; 108.
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Saldula opacula (Zetterstedt) (Saldidae): 15; 41; 44; 45; 46; 59; 62; 108.
Saldula orthochila (Fieber) (Saldidae): 47; 84; 89; 108; 111.
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Saldula palustris (Douglas) (Saldidae): 15; 25; 34; 41; 50; 52; 59; 69; 73; 95; 96; 108.
Saldula pilosella (Thomson) (Saldidae): 6; 27.
Saldula saltatoria (Linnaeus) (Saldidae): 6; 8; 35; 42; 50; 51; 67; 75; 77; 82; 83; 84; 108; 111.
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Hydrometra stagnorum (Linnaeus) (Hydrometridae): 67; 68; 98.
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Gerris costae (Herrich-Schaeffer) (Gerridae): 87.
Gerris gibbifer Schummel (Gerridae): 26; 28; 31; 36; 55; 57; 82.
Gerris lacustris (Linnaeus) (Gerridae): 109; 110.
Gerris lateralis Schummel (Gerridae): 14; 15; 20; 25; 26; 27; 36; 42; 43; 50; 51; 53; 54; 71; 109.
Gerris odontogaster (Zetterstedt) (Gerridae): 3; 8; 40; 47; 55.
Gerris thoracicus Schummel (Gerridae): 6; 8; 26; 40; 43.
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Corixa punctata (Illiger) (Corixidae): 43.
Cymatia bonsdorffii (C.R. Sahlberg) (Corixidae): 16; 25; 31; 37; 55; 86.
Cymatia coleoprata (Fabricius) (Corixidae): 37; 40; 62; 66.
Hesperocorixa castanea (Thomson) (Corixidae): 15; 26; 37; 59.
Hesperocorixa linnaei (Fieber) (Corixidae): 13; 37.
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Micronecta minutissima (Linnaeus) (Corixidae): 14; 15.
Micronecta poweri (Douglas & Scott) (Corixidae): 5; 24; 54; 56; 66; 67; 81.

- Micronecta scholtzi* (Fieber) (Corixidae): 5; 7; 8; 28; 40.
Paracorixa concinna (Fieber) (Corixidae): 6; 7; 13; 34; 37; 55.
Sigara distincta (Fieber) (Corixidae): 5; 7.
Sigara falleni (Fieber) (Corixidae): 2; 33; 109.
Sigara fossarum (Leach) (Corixidae): 2; 5; 8; 50; 55; 90.
Sigara iactans Jansson (Corixidae): 57.
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Sigara selecta (Fieber) (Corixidae): 27; 41; 56.
Sigara semistriata (Fieber) (Corixidae): 5; 12; 26; 41; 62.
Sigara striata (Linnaeus) (Corixidae): 16; 55.
Sigara venusta (Douglas & Scott) (Corixidae): 4; 6; 40; 53; 107.

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**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM THE BIODIVERSITY IRELAND WEBSITE**

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The Irish equivalent to the NBN Atlas (<http://www.nbnatlas.org/>) is the Biodiversity Ireland website of the National Biodiversity Data Centre (<http://www.biodiversityireland.ie/>), and having brought the vice-county distribution into line with the former with the previous article in this journal, it remained to do likewise with the latter, to ensure that the vice-county distribution includes the records from all sources known to me.

The Biodiversity Ireland website has a 'live maps' feature allowing the records for chosen species to be plotted as grid squares onto a map of Ireland with vice-county boundaries shown. The plotted grid squares can be clicked with the mouse to display the record details. Using these facilities, the vice-county of each plotted record can be deduced, and if there is uncertainty, the facilities of the Botanical Society of Britain and Ireland website (<https://database.bsbi.org/gridref.php>) can be used to confirm the correct vice-county corresponding to the grid reference of the record.

By comparing the mapped records of the Biodiversity Ireland website with a draft copy of the vice-county atlas, species by species, between 22 April and 7 May 2018, new vice-county records were identified. These records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a, 2016b, 2018a, 2018b, 2018c & 2018d). A total of 1325 new vice-county records were found, which are listed below, with the vice-county codes following the species names.

- Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae): H4; H7; H8; H13; H15; H18; H24; H26; H34; H35.
- Elasmostethus interstinctus* (Linnaeus) (Acanthosomatidae): H4; H7; H8; H10; H11; H13; H14; H18; H25; H32; H33; H40.
- Elasmucha grisea* (Linnaeus) (Acanthosomatidae): H4; H6; H7; H9; H13; H14; H15; H16; H17; H27; H33; H40.
- Eurygaster testudinaria* (Geoffroy) (Scutelleridae): H11; H13; H14; H15; H19; H24; H25; H26.
- Dolycoris baccarum* (Linnaeus) (Pentatomidae): H10; H13; H14; H17; H18; H21; H22; H24; H25; H30; H31; H37.
- Palomena prasina* (Linnaeus) (Pentatomidae): H14; H15; H18; H21; H22; H23; H24; H25; H27; H28; H31; H32.
- Pentatoma rufipes* (Linnaeus) (Pentatomidae): H12; H13; H15; H18; H22; H23; H24; H25; H32; H33; H36; H40.
- Picromerus bidens* (Linnaeus) (Pentatomidae): H8; H13; H14; H17; H24; H27; H28; H31; H32; H34; H36; H37; H39; H40.
- Piezodorus lituratus* (Fabricius) (Pentatomidae): H4; H8; H9; H13; H15; H18; H23; H24; H27; H28; H32; H34; H40.
- Rhacognathus punctatus* (Linnaeus) (Pentatomidae): H3; H7; H13.
- Troilus luridus* (Fabricius) (Pentatomidae): H3; H4; H10; H11; H12; H13; H14; H19; H25; H27; H28; H33; H35; H37; H39; H40.
- Zicrona caerulea* (Linnaeus) (Pentatomidae): H6; H9; H33; H36; H37; H38; H39.
- Coreus marginatus* (Linnaeus) (Coreidae): H4; H7; H9; H13.
- Chilacis typhae* (Perris) (Lygaeidae): H4; H12; H13; H15; H33; H37; H38; H39.
- Cymus clavicularis* (Fallén) (Lygaeidae): H9; H11; H13; H17; H26; H38.
- Cymus glandicolor* Hahn (Lygaeidae): H14; H18; H24; H26; H32; H33; H35; H36; H37; H40.
- Drymus brunneus* (R.F. Sahlberg) (Lygaeidae): H1; H23; H32; H33; H39.
- Drymus pilicornis* (Mulsant & Rey) (Lygaeidae): H15.
- Drymus sylvaticus* (Fabricius) (Lygaeidae): H9; H13; H30; H32; H35; H36; H40.
- Gastrodes grossipes* (De Geer) (Lygaeidae): H7; H13; H14; H23; H33; H37; H38.

- Kleidocerys resedae* (Panzer) (Lygaeidae): H3; H4; H7; H8; H16; H33; H37; H38; H39; H40.
Lamproplax picea (Flor) (Lygaeidae): H9; H25; H30; H32; H33; H38.
Megalonotus chiragra (Fabricius) (Lygaeidae): H12.
Nysius thymi (Wolff) (Lygaeidae): H9; H16; H21; H38; H40.
Pachybrachius fracticollis (Schilling) (Lygaeidae): H9; H10; H11; H12; H14; H15; H19; H23; H25; H26; H27; H28; H29; H30; H32; H34; H35; H36; H37; H38; H39.
Scolopostethus affinis (Schilling) (Lygaeidae): H9; H38; H40.
Scolopostethus decoratus (Hahn) (Lygaeidae): H3; H9; H29; H33; H36; H39; H40.
Scolopostethus puberulus Horváth (Lygaeidae): H30; H32; H37; H38.
Scolopostethus thomsoni Reuter (Lygaeidae): H33; H36; H38; H40.
Stygnocoris fuliginus (Geoffroy) (Lygaeidae): H12; H40.
Stygnocoris rusticus (Fallén) (Lygaeidae): H26; H27; H40.
Stygnocoris sabulosus (Schilling) (Lygaeidae): H13; H24; H25; H31; H32; H33; H35; H36; H40.
Trapezonotus arenarius (Linnaeus) (Lygaeidae): H9; H38.
Berytinus minor (Herrich-Schaeffer) (Berytidae): H9; H20; H22; H37; H38.
Berytinus signoreti (Fieber) (Berytidae): H16.
Metatropis rufescens (Herrich-Schaeffer) (Berytidae): H1; H13; H20; H25; H37.
Parapiesma quadratum (Fieber) (Piesmatidae): H38; H39.
Acalypta brunnea (Germar) (Tingidae): H38; H39.
Acalypta parvula (Fallén) (Tingidae): H4; H5; H15.
Derephysia foliacea (Fallén) (Tingidae): H9.
Dictyla convergens (Herrich-Schaeffer) (Tingidae): H4; H36; H37; H38.
Tingis cardui (Linnaeus) (Tingidae): H4; H5; H6; H13; H19; H25; H26; H27; H31; H33; H38; H39; H40.
Empicoris vagabundus (Linnaeus) (Reduviidae): H33; H38.
Himacerus major (A. Costa) (Nabidae): H38.
Himacerus mirmicoides (O. Costa) (Nabidae): H4; H13; H22; H39.
Nabis ericetorum Scholtz (Nabidae): H14; H16; H33; H36; H37; H38; H40.
Nabis ferus (Linnaeus) (Nabidae): H38.
Nabis flavomarginatus Scholtz (Nabidae): H13; H33; H38.
Nabis limbatus Dahlbom (Nabidae): H10; H26; H32; H34; H35; H36; H38.
Nabis lineatus Dahlbom (Nabidae): H12; H15; H16; H36; H38.
Nabis rugosus (Linnaeus) (Nabidae): H13; H16; H33; H35; H38; H39; H40.
Acomporis pygmaeus (Fallén) (Anthocoridae): H10; H37; H39.
Anthocoris confusus Reuter (Anthocoridae): H25; H31; H33; H36; H37; H38; H39.
Anthocoris limbatus Fieber (Anthocoridae): H36.
Anthocoris nemoralis (Fabricius) (Anthocoridae): H9; H16; H23; H24; H32; H33; H36; H38; H39.
Anthocoris nemorum (Linnaeus) (Anthocoridae): H13; H15; H17; H23; H24; H25; H26; H30; H32; H33; H36; H39.
Anthocoris simulans Reuter (Anthocoridae): H37; H38.
Lycitoris campestris (Fabricius) (Anthocoridae): H33; H37.
Orius laevigatus (Fieber) (Anthocoridae): H6; H27.
Orius laticollis (Reuter) (Anthocoridae): H6; H25; H37.
Orius majusculus (Reuter) (Anthocoridae): H33; H34; H40.
Orius niger (Wolff) (Anthocoridae): H25.
Orius vicinus (Ribaut) (Anthocoridae): H2; H19; H37.
Temnostethus gracilis Horváth (Anthocoridae): H3; H25; H33; H36; H37.
Temnostethus pusillus (Herrich-Schaeffer) (Anthocoridae): H33.
Temnostethus tibialis Reuter (Anthocoridae): H3.
Xylocoris cursitans (Fallén) (Anthocoridae): H21.
Cimex lectularius Linnaeus (Cimicidae): H22; H28; H31.
Cimex pipistrelli Jenyns (Cimicidae): H40.
Loricula elegantula (Baerensprung) (Microphysidae): H25; H33; H37.
Loricula exilis (Fallén) (Microphysidae): H1; H33.
Loricula pselaphiformis Curtis (Microphysidae): H21; H33; H37; H39.

- Adelphocoris lineolatus* (Goeze) (Miridae): H10; H12; H15; H25; H26; H27; H33; H38.
Adelphocoris seticornis (Fabricius) (Miridae): H7; H9; H10; H19.
Apolygus lucorum (Meyer-Dür) (Miridae): H12; H27; H33; H37; H38.
Apolygus spinolae (Meyer-Dür) (Miridae): H3; H27; H33; H38.
Asciodema obsoleta (Fieber) (Miridae): H27; H33; H35; H37; H38; H39.
Blepharidopterus angulatus (Fallén) (Miridae): H4; H13; H16; H28; H33; H40.
Bryocoris pteridis (Fallén) (Miridae): H13; H29; H33; H38; H40.
Calocoris roseomaculatus (De Geer) (Miridae): H9; H18; H19.
Campyloneura virgula (Herrich-Schaeffer) (Miridae): H4; H8; H13; H14; H25; H33.
Capsus ater (Linnaeus) (Miridae): H4; H13; H14; H16; H23; H24; H25; H26; H33; H35; H36.
Charagochilus gyllenhalii (Fallén) (Miridae): H12; H13; H16; H17; H25; H38.
Chlamydatus pullus (Reuter) (Miridae): H9.
Closterotomus norwegicus (Gmelin) (Miridae): H13.
Compsidolon salicellum (Herrich-Schaeffer) (Miridae): H3; H12; H13; H19; H27; H37; H38; H39.
Conostethus griseus Douglas & Scott (Miridae): H38.
Cyllecoris histrionius (Linnaeus) (Miridae): H13; H25; H33; H37.
Cyrtorhinus caricis (Fallén) (Miridae): H9; H16; H25; H26; H29; H33; H36; H40.
Deraeocoris ruber (Linnaeus) (Miridae): H4; H6.
Dichrooscytus rufipennis (Fallén) (Miridae): H38.
Dicyphus constrictus (Boheman) (Miridae): H23.
Dicyphus epilobii Reuter (Miridae): H4; H13; H33; H36; H37; H39.
Dicyphus errans (Wolff) (Miridae): H6; H13; H17; H20; H25; H38.
Dicyphus pallicornis (Fieber) (Miridae): H13; H38.
Dicyphus stachydis J. Sahlberg (Miridae): H2; H11; H13; H14; H33; H37; H38; H39.
Fieberocapsus flaveolus (Reuter) (Miridae): H16.
Globiceps flavomaculatus (Fabricius) (Miridae): H9; H17; H33.
Globiceps fulvicollis Jakovlev (Miridae): H15.
Grypocoris stysi (Wagner) (Miridae): H3; H4; H5; H13; H16; H25; H33; H40.
Harpocera thoracica (Fallén) (Miridae): H1; H5; H13; H23; H25; H33; H39; H40.
Heterocordylus tibialis (Hahn) (Miridae): H3; H33; H37; H38; H39.
Heterotoma planicornis (Pallas) (Miridae): H2; H4; H19.
Leptopterna dolabrata (Linnaeus) (Miridae): H2; H3; H8; H9; H13; H16; H20; H21; H24; H33; H34; H35; H36; H37; H38; H39; H40.
Leptopterna ferrugata (Fallén) (Miridae): H9; H12; H13.
Liocoris tripustulatus (Fabricius) (Miridae): H3; H4; H16; H27; H31; H32; H33; H40.
Lygocoris pabulinus (Linnaeus) (Miridae): H16; H24; H25; H33; H36; H40.
Lygocoris rugicollis (Fallén) (Miridae): H15; H33; H36; H37; H38; H39.
Lygus maritimus Wagner (Miridae): H12.
Lygus rugulipennis Poppius (Miridae): H2; H5; H15; H22; H23; H26; H31; H35; H36; H37; H39.
Lygus wagneri Remane (Miridae): H17; H19; H21; H25; H27; H29; H33; H35; H36; H37; H38; H39.
Macrolophus rubi Woodroffe (Miridae): H13.
Macrotylus paykullii (Fallén) (Miridae): H38.
Malacocoris chlorizans (Panzer) (Miridae): H11; H25; H33; H38.
Mecomma ambulans (Fallén) (Miridae): H13; H33; H35; H36; H38.
Mecomma dispar (Boheman) (Miridae): H9; H16; H23; H35; H36.
Megacoelum beckeri (Fieber) (Miridae): H20.
Miris striatus (Linnaeus) (Miridae): H23; H25; H33; H39.
Monalocoris filicis (Linnaeus) (Miridae): H3; H13; H21; H25; H33; H37; H39; H40.
Neolygus contaminatus (Fallén) (Miridae): H3; H25; H27; H33.
Notostira erratica (Linnaeus) (Miridae): H2.
Orthocephalus coriaceus (Fabricius) (Miridae): H23.
Orthocephalus saltator (Hahn) (Miridae): H16.
Orthops campestris (Linnaeus) (Miridae): H4; H5; H6; H12; H28; H31; H32; H33; H36; H37; H38; H39; H40.
Orthotylus bilineatus (Fallén) (Miridae): H33; H37; H39.

- Orthotylus ericetorum* (Fallén) (Miridae): H3; H15; H25; H33; H37; H40.
Orthotylus flavinervis (Kirschbaum) (Miridae): H2; H5; H17; H38.
Orthotylus flavosparsus (C.R. Sahlberg) (Miridae): H9; H16.
Orthotylus marginalis Reuter (Miridae): H16; H33; H36; H37.
Orthotylus ochrotrichus Fieber (Miridae): H33; H39.
Orthotylus tenellus (Fallén) (Miridae): H25; H37.
Orthotylus virescens (Douglas & Scott) (Miridae): H2; H3; H34; H37; H38; H39.
Pantilius tunicatus (Fabricius) (Miridae): H3; H4; H8; H31; H37; H39.
Phylus coryli (Linnaeus) (Miridae): H13; H29.
Phylus melanocephalus (Linnaeus) (Miridae): H13; H33; H37; H38; H40.
Phytocoris dimidiatus Kirschbaum (Miridae): H39.
Phytocoris longipennis Flor (Miridae): H3; H9; H13; H16; H27; H31; H33.
Phytocoris populi (Linnaeus) (Miridae): H33; H37.
Phytocoris reuteri Saunders (Miridae): H25; H38.
Phytocoris tiliae (Fabricius) (Miridae): H8; H38; H39.
Phytocoris ulmi (Linnaeus) (Miridae): H8.
Phytocoris varipes Boheman (Miridae): H13; H16; H17; H39.
Pinalitus cervinus (Herrich-Schaeffer) (Miridae): H4; H13; H25; H29; H32; H33; H38; H39; H40.
Pinalitus rubricatus (Fallén) (Miridae): H38.
Pithanus maerkelii (Herrich-Schaeffer) (Miridae): H13; H24; H32; H33; H35; H36; H38; H39; H40.
Plagiognathus arbustorum (Fabricius) (Miridae): H13; H16; H25; H33; H36.
Plagiognathus chrysanthemi (Wolff) (Miridae): H13; H16; H24; H25; H27; H33; H36.
Polymerus palustris (Reuter) (Miridae): H1; H4; H15; H17; H26; H32; H33; H34; H36; H37; H39.
Psallus ambiguus (Fallén) (Miridae): H23; H25; H37.
Psallus assimilis Stichel (Miridae): H39.
Psallus confusus Rieger (Miridae): H37.
Psallus falleni Reuter (Miridae): H38.
Psallus flavellus Stichel (Miridae): H25.
Psallus haematodes (Gmelin) (Miridae): H13; H25; H33; H36; H38.
Psallus lepidus Fieber (Miridae): H9; H16; H25; H34; H37; H39.
Psallus perrisi (Mulsant & Rey) (Miridae): H33; H37; H39.
Psallus quercus (Kirschbaum) (Miridae): H25; H37.
Psallus salicis (Kirschbaum) (Miridae): H16.
Psallus variabilis (Fallén) (Miridae): H25.
Psallus varians (Herrich-Schaeffer) (Miridae): H25; H33; H38; H39.
Psallus wagneri Ossiannilsson (Miridae): H25.
Rhodomiris striatellus (Fabricius) (Miridae): H13; H19; H25; H33; H36; H38.
Stenodema calcarata (Fallén) (Miridae): H4; H17; H25; H26; H29; H30; H32; H33; H34; H36; H38; H39.
Stenodema holsata (Fabricius) (Miridae): H13; H14; H25; H32; H35; H36; H38; H40.
Stenodema laevigata (Linnaeus) (Miridae): H11; H13; H14; H24; H25; H26; H35; H36; H39; H40.
Stenotus binotatus (Fabricius) (Miridae): H13; H16; H33; H36; H38.
Teratocoris saundersi Douglas & Scott (Miridae): H26; H32; H33; H35; H36; H37; H38; H40.
Teratocoris viridis Douglas & Scott (Miridae): H35.
Trigonotylus ruficornis (Geoffroy) (Miridae): H6; H9; H13; H16; H27; H33; H35; H37; H38.
Tytthus pubescens (Knight) (Miridae): H33.
Tytthus pygmaeus (Zetterstedt) (Miridae): H3; H5; H16; H22; H27; H36; H39.
Cryptostemma alienum Herrich-Schaeffer (Dipsocoridae): H33; H35.
Chartoscirta cincta (Herrich-Schaeffer) (Saldidae): H3; H6; H8; H10; H15; H17; H18; H23; H24; H26; H28; H30; H32; H33; H35; H36; H38.
Chartoscirta elegantula (Fallén) (Saldidae): H16; H25; H27; H33; H40.
Macrosaldula scotica (Curtis) (Saldidae): H16; H17; H29; H33; H34; H35; H39.
Salda littoralis (Linnaeus) (Saldidae): H26; H33; H35; H36; H40.
Salda morio Zetterstedt (Saldidae): H15; H32; H36.
Salda muelleri (Gmelin) (Saldidae): H16; H23; H33; H36; H37; H38; H39.

- Saldula opacula* (Zetterstedt) (Saldidae): H1; H9; H12; H15; H16; H17; H25; H32; H33; H36; H38; H39; H40.
- Saldula orthochila* (Fieber) (Saldidae): H6; H9; H15; H38.
- Saldula palustris* (Douglas) (Saldidae): H9; H12; H16; H21; H27; H28; H35; H38.
- Saldula pilosella* (Thomson) (Saldidae): H12.
- Saldula saltatoria* (Linnaeus) (Saldidae): H8; H15; H25; H26; H30; H31; H32; H33; H36; H40.
- Aepophilus bonnairei* Signoret (Aepophilidae): H9; H16; H28.
- Hebrus pusillus* (Fallén) (Hebridae): H6.
- Hebrus ruficeps* Thomson (Hebridae): H1; H3; H11; H15; H18; H19; H23; H25; H27; H29; H34; H35; H36.
- Hydrometra stagnorum* (Linnaeus) (Hydrometridae): H4; H10; H13; H16; H17; H18; H22; H23; H24; H25; H26; H28; H29; H30; H32; H34.
- Microvelia reticulata* (Burmeister) (Veliidae): H5; H6; H8; H10; H16; H25; H26; H29; H30; H32; H34; H35.
- Velia caprai* Tamanini (Veliidae): H4; H6; H10; H16; H18; H19; H20; H21; H25; H26; H27; H29; H30; H32; H34.
- Velia saulii* Tamanini (Veliidae): H16; H17; H25; H26; H27; H28; H30; H33; H36; H39; H40.
- Aquarius najas* (De Geer) (Gerridae): H3; H7; H10; H11; H13; H30; H33.
- Gerris argentatus* Schummel (Gerridae): H2; H3; H6; H12; H15; H18; H19; H23; H24; H25; H26; H27; H28; H29; H30; H32; H34; H35; H39; H40.
- Gerris costae* (Herrich-Schaeffer) (Gerridae): H6; H18.
- Gerris lacustris* (Linnaeus) (Gerridae): H6; H10; H12; H14; H15; H16; H18; H22; H23; H24; H25; H26; H30; H32.
- Gerris lateralis* Schummel (Gerridae): H2; H9; H11; H18; H19; H26; H27; H32; H34; H39.
- Gerris odontogaster* (Zetterstedt) (Gerridae): H5; H10; H12; H16; H18; H22; H23; H25; H26; H29; H30; H32; H34; H35.
- Gerris thoracicus* Schummel (Gerridae): H15; H16; H18; H24; H25; H26; H28; H30; H31; H36.
- Limnoporus rufoscutellatus* (Latreille) (Gerridae): H1; H5; H15; H16; H23; H34; H38.
- Nepa cinerea* Linnaeus (Nepidae): H6; H10; H12; H13; H15; H18; H19; H22; H23; H24; H25; H26; H32.
- Aphelocheirus aestivalis* (Fabricius) (Aphelocheiridae): H1; H2; H3; H4; H6; H8; H10; H11; H12; H13; H15; H16; H17; H18; H23; H24; H25; H27; H28; H29; H30; H34; H35; H36.
- Notonecta glauca* Linnaeus (Notonectidae): H6; H10; H18; H22; H24; H25; H26; H32.
- Notonecta obliqua* Thunberg (Notonectidae): H28; H29; H37.
- Notonecta viridis* Delcourt (Notonectidae): H5; H6; H9; H39.
- Plea minutissima* Leach (Pleidae): H22; H32.
- Arctocorixa germari* (Fieber) (Corixidae): H4; H11; H18; H22; H24; H25; H29.
- Callicorixa praeusta* (Fieber) (Corixidae): H4; H5; H8; H11; H12; H18; H22; H24; H26; H27; H29; H30; H32.
- Callicorixa wollastoni* (Douglas & Scott) (Corixidae): H6; H9; H30; H32.
- Corixa affinis* Leach (Corixidae): H12; H16; H28; H38.
- Corixa dentipes* Thomson (Corixidae): H1; H9; H12; H15; H22; H25; H26; H28; H29; H30; H32; H34.
- Corixa panzeri* Fieber (Corixidae): H8; H18; H22; H27; H32; H33; H34; H39.
- Corixa punctata* (Illiger) (Corixidae): H6; H8; H11; H12; H22; H26; H28; H29; H30; H32.
- Cymatia bondsdorffii* (C.R. Sahlberg) (Corixidae): H14; H18; H29; H30; H32; H40.
- Hesperocorixa castanea* (Thomson) (Corixidae): H6; H11; H18; H25; H26; H28; H29; H32.
- Hesperocorixa linnaei* (Fieber) (Corixidae): H6; H10; H11; H15; H18; H23; H25; H27; H29; H30; H32.
- Hesperocorixa moesta* (Fieber) (Corixidae): H11; H39.
- Hesperocorixa sahlbergi* (Fieber) (Corixidae): H6; H11; H18; H25; H26; H28; H29; H32.
- Micronecta poweri* (Douglas & Scott) (Corixidae): H9; H20; H23; H25; H26; H27; H30.
- Paracorixa concinna* (Fieber) (Corixidae): H4; H5; H12; H20; H22; H29; H30; H32.
- Sigara distincta* (Fieber) (Corixidae): H6; H8; H14; H18; H20; H24; H25; H32.
- Sigara dorsalis* (Leach) (Corixidae): H4; H6; H18; H22; H24; H25; H26; H29; H32.
- Sigara falleni* (Fieber) (Corixidae): H1; H4; H18; H20; H24; H25; H26; H29; H32.

- Sigara fallenoidea* (Hungerford) (Corixidae): H16; H17; H23; H24; H29; H30; H35.
Sigara fossarum (Leach) (Corixidae): H1; H12; H25; H29; H32; H35.
Sigara lateralis (Leach) (Corixidae): H3; H11; H12; H18; H20; H26; H30; H37.
Sigara limitata (Fieber) (Corixidae): H26.
Sigara nigrolineata (Fieber) (Corixidae): H22; H24; H28; H29; H31.
Sigara scotti (Douglas & Scott) (Corixidae): H18; H19; H21; H25; H26; H28; H29; H40.
Sigara selecta (Fieber) (Corixidae): H9.
Sigara semistriata (Fieber) (Corixidae): H18; H28; H29; H38.
Sigara stagnalis (Leach) (Corixidae): H9; H16; H20; H27; H28.
Sigara venusta (Douglas & Scott) (Corixidae): H27.

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**CANTHOPHORUS IMPRESSUS FOUND IN VC20 AND OTHER UPDATES TO
THE ATLAS OF THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES**

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Preliminaries

As the calendar hit the first of June, the month of the deadline for this latest update, I sat down in front of my laptop to write about two more Mirid species, a pair of Anthocorids, and a Coreid that needed to be added to the *Atlas of the Hemiptera-Heteroptera of the British Isles* (Ryan, 2014a; 2014b). Three of the records were overlooked older records while the other couple were more recently determined observations (via iRecord). As I finished the final sentence, about *Closterotomus trivialis* (A. Costa) – for which a 26 June 2016 record from Maple Lodge Nature Reserve (TQ036923) was determined earlier this year as the first recorded sighting in VC20 – I headed out into my small back garden for some sunlight. And there, sitting on a Raspberry leaf was a female *Closterotomus trivialis*. The second record for the county. Since then I have recorded males and females of this species everywhere I've been in Herts, on plants as diverse as White Bryony and Common Gorse. “At least I have something more to add to the report,” I thought. The next day, things would get a lot more interesting still.

***Canthophorus impressus* found in VC20**

I headed to Therfield Heath for a Herts Invertebrate Project field meeting on 2 June 2018. We had visited the site almost exactly two years to the day earlier, and that time, with William Bishop, I had spent around two hours on the chalk downland of Church Hill grubbing under Bastard Toadflax in a speculative search for *Canthophorus impressus* (Horvath). We found no sign of the insect, but we were not surprised as it had never been found in Herts and it was thought to have been completely lost from the East of England. We were recounting this at the start of our return visit as we headed in a fairly direct line from the car park to Church Hill, but this time we had Cynthia Combe, a Conservator of Therfield Heath, in our company. She mentioned that there was a small amount of Bastard Toadflax away from Church Hill (the nature reserve) in the rough of the golf course that constitutes much of the SSSI.

We asked her to show us this patch and, with no thought at all that we might find *Canthophorus impressus*, we started to look under the leaves. Almost instantly, Ian Carle found one half-buried adult in the soil (TL3339), and I determined the record in the field. With a little bit more searching, I found a second adult.

So what was different about the Bastard Toadflax here versus that on nearby Church Hill, where it is much more abundant, but where the bug has still not been found? It is possible that the soil is less friable on Church Hill, but I have no hard data to support that. Another potential factor is that the ground immediately surrounding the Bastard Toadflax where we found the bug was very sparsely vegetated.

***Megalonotus antennatus* also found in VC20**

A few hours after finding *Canthophorus impressus*, following some time spent on Church Hill, we drifted just off Therfield Heath onto a set-aside area that is part of Greys Farm. Ian Carle's purple patch continued, as he swept a ground-bug off meadow herbage that I later determined as *Megalonotus antennatus* (Schilling). This was another first county record.

Second VC20 record of *Chlamydatus evanescens*

I was still not quite ready to sign off on this report, and so on 6 June I headed to my local graveyard, Hatfield Road Cemetery, inspired by an article by Ryan (2015). Following the advice to examine stonecrop on old gravestones, I quickly found several *Chlamydatus evanescens* (Boheman), adding a second record for VC20 (TL162071).

Other updates to the Atlas

To complete this article, I must detail the other species mentioned at the start of this piece. In addition to *Closterotomus trivialis*, the other Mirid to add to the Atlas for VC20 is *Trigonotylus caelestialium* (Kirkaldy), for which previously overlooked records made by John Widgery exist from between 1998 and 2005 from Patmore Heath and Therfield Heath. The Coreid to add is *Ceraleptus lividus* Stein, again based on an overlooked John Widgery record, this time from Long Deans Nature Reserve in 2006, while one of the Anthocorids, *Temnostethus pusillus* (Herrich-Schäffer), is likewise from a John Widgery record, from Therfield Heath between 2000 and 2004. Lastly, a record of *Anthocoris butleri* (Le Quesne) dating back to 10 April 2013 was posted on iRecord by Chris Shortall from Rothamsted (TL134134), and this was determined by Tristan Bantock.

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