

AN ADDENDUM TO SOUTHWOOD & LESTON'S LAND AND WATER BUGS OF THE BRITISH ISLES

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ABSTRACT

Southwood & Leston (1959) numbered 509 species of Hemiptera-Heteroptera as British. The British list has grown significantly over the last five decades, and this paper presents an additional 85 species of land and water bugs that have been recorded in Britain. For each species, references to articles in the British literature are given, by which they may be identified.

INTRODUCTION

Students of the land and water bugs (Hemiptera-Heteroptera) were once in the enviable position of having a comprehensive textbook, Southwood & Leston (1959), by which every known British species could be identified. However, since the publication of this work, many more species of Heteroptera have been recorded in Britain, some of which are now quite common. Consequently, this text is no longer adequate, by itself, as a guide for the serious student. For several decades, there has been much discussion amongst British heteropterists about a replacement for this seminal work. Alas, this volume has yet to reach print, and there is clearly a need for an interim solution.

The purpose of this short paper is to provide a concise addendum to Southwood & Leston's text, in the form of a list of the species of Heteroptera recorded as British since its publication, together with a list of references to articles in the British literature which provide the essential information for identification. By this means, it is hoped that Southwood & Leston (1959) may continue to serve as a central text for the British Heteroptera, until the much needed replacement is published.

THE LIST

The list of new species (Table 1) has the same scope as that of Southwood & Leston (1959), the geographical British Isles, which includes Eire and excludes the Channel Islands. In this context, the use of 'Britain' and 'British' may seem inappropriate, but all the species in the present list are recorded from the British mainland, although two species are more known from Ireland: *Notostira erratica* (L.) (Woodroffe, 1977) and *Linnoporus rufoscutellatus* (Latreille) (Nelson, 1999; Brooke, 2004). The nomenclature and classification are those of Aukema & Rieger (1995–2006), and it should be noted that these are not identical to those of the website Fauna Europaea (<http://www.faunaeur.org>). Where other names for the new species have been used in the British literature, these are also given. A fuller list of synonyms is given by Aukema & Rieger.

Southwood & Leston (1959) numbered each British species sequentially from 1 to 509, and each new species in the present list is numbered to indicate its approximate position within this sequence. This number is that of the last species of the lowest taxon (usually a genus or subgenus) shared with the new species, suffixed with the letter 'A'. Further species inserted at that point take the suffixes 'B', 'C', etc., in the

Table 1. List of the 85 species of Hemiptera-Heteroptera recorded in Britain that are not numbered in Southwood & Leston (1959). Species associated with imported produce are not included, except where they have become established. The nomenclature and classification are those of Aukema & Rieger (1995–2006). The number assigned to each species denotes its approximate position within the sequence of Southwood & Leston.

Species and Classification	References
Cydnidae – Schirinae – Schirini	
015A <i>Tritomegas sexmaculatus</i> (Rambur)	Bantock (2011)
Pentatomidae – Pentatominae – Carpocorini	
036A <i>Carpocoris purpureipennis</i> (De Geer)	Barclay & Nau (2001); Collins & Nau (2006)
Pentatomidae – Pentatominae – Pentatomini	
039A <i>Nezara viridula</i> (L.)	Southwood & Leston (1959); Barclay (2004)
039B <i>Rhaphigaster nebulosa</i> (Poda)	Bantock, Notton & Barclay (2011)
Pentatomidae – Pentatominae – Strachiini	
040A <i>Eurydema ornata</i> (L.)	Slade, Collins & Nau (2005)
[Formerly <i>Eurydema ornatum</i> (L.)]	
Pentatomidae – Asopinae	
045A <i>Jalla dumosa</i> (L.)	Southwood & Leston (1959)
Coreidae – Coreinae – Anisoscelini	
050A <i>Leptoglossus occidentalis</i> Heidemann	Malumphy <i>et al.</i> (2008); Dusoulier <i>et al.</i> (2008)
Rhopalidae – Rhopalinae – Rhopalini	
058A <i>Stictopleurus abutilon</i> (Rossi)	Southwood & Leston (1959)
062A <i>Liorhyssus hyalinus</i> (F.)	Southwood & Leston (1959); Judd (2011)
062B <i>Brachycarenum tigrinus</i> (Schilling)	Jones (2004)
Stenocephalidae	
067A <i>Dicranocephalus albipes</i> (F.)	Southwood & Leston (1959)
Lygaeidae – Blissinae	
073A <i>Ischnodemus quadratus</i> Fieber	Southwood & Leston (1959)
[Formerly <i>Ischnodemus sabuleti quadratus</i> Fieber]	
Lygaeidae – Orsillinae – Nysiini	
075A <i>Nysius ericae</i> (Schilling)	Woodroffe (1960b); Dolling (2003)
075B <i>Nysius graminicola</i> (Kolenati)	Allen (1984); Dolling (2003)
075C <i>Nysius senecionis</i> (Schilling)	Hodge & Porter (1997); Dolling (2003)
075D <i>Nysius cymoides</i> (Spinola)	Dolling (2003); Nau (2004)
075E <i>Nysius huttoni</i> White	Aukema (2005); Cuming (2008)
Lygaeidae – Orsillinae – Orsillini	
076A <i>Orsillus depressus</i> (Mulsant & Rey)	Hawkins (1989)
Lygaeidae – Rhyparochrominae – Rhyparochromini	
085A <i>Peritrechus convivus</i> (Stål)	Southwood & Leston (1959)
[Formerly <i>Peritrechus distinguendus</i> (Flor.)]	
094A <i>Rhyparochromus vulgaris</i> (Schilling)	Nau (2010)
Lygaeidae – Rhyparochrominae – Megalonotini	
093A <i>Megalonotus sabulicola</i> (Thomson)	Southwood (1963)
093B <i>Megalonotus emarginatus</i> (Rey)	Aukema & Nau (1992)
093C <i>Sphragisticus nebulosus</i> (Fallén)	Judd (2010)
Lygaeidae – Rhyparochrominae – Gonianotini	
096A <i>Trapezonotus dispar</i> Stål	Southwood & Leston (1959); Woodroffe (1960a)
[Formerly <i>Trapezonotus quadratus</i> (F.)]	
096B <i>Trapezonotus desertus</i> Seidenstucker	Southwood & Leston (1959); Woodroffe (1960a)
100A <i>Pterotmetus staphyliniformis</i> (Schilling)	Woodroffe (1962a)
100B <i>Emblethis denticollis</i> Horváth	Judd & Straw (1998)

Table 1. (Continued)

Species and Classification	References
Lygaeidae – Rhyparochrominae – Drymini	
126A <i>Eremocoris abietis</i> (L.)	Woodroffe (1962b)
127A <i>Taphropeltus hamulatus</i> (Thomson)	Woodroffe (1959b); Southwood & Leston (1959)
Lygaeidae – Lygaeinae	
130A <i>Lygaeus equestris</i> (L.)	Southwood & Leston (1959)
130D <i>Lygaeus simulans</i> Deckert	Judd (1996)
130E <i>Arocatus longiceps</i> Stål	Nau & Straw (2007); Barclay (2009)
Lygaeidae – Oxycareninae	
130B <i>Metopoplax ditomoides</i> (A. Costa)	Woodroffe (1953); Southwood & Leston (1959)
130F <i>Metopoplax fuscinervis</i> Stål	Harvey (2008); (pers. comm. Dr. Peter Kirby)
130C <i>Macroplox preyssleri</i> (Fieber)	Dolling (1970)
Tingidae – Tinginae	
156A <i>Stephanitis takeyai</i> Drake & Maa	Halstead & Malumphy (2003)
168A <i>Corythucha ciliata</i> (Say)	Malumphy, Reid & Eyre (2007)
Reduviidae – Stenopodainae	
172A <i>Oncocephalus pilicornis</i> Reuter	Whitehead (2006)
Reduviidae – Harpactorinae – Harpactorini	
174A <i>Coranus woodroffei</i> P.V. Putshkov	Woodroffe (1959a)
[Corresponds to the 'heath' form of Woodroffe (pers. comm. Dr. Peter Kirby)]	
Nabidae – Prostemmatinae – Prostemmatini	
186A <i>Prostemma guttula</i> (F.)	Southwood & Leston (1959)
Anthorcoridae – Anthorcorinae – Anthorcorini	
188A <i>Temnostethus tibialis</i> Reuter	Woodroffe (1971a)
198A <i>Anthorcoris pilosus</i> (Jakovlev)	Southwood & Leston (1959)
198B <i>Anthorcoris amplicolis</i> Horváth	Crossley (1982)
198C <i>Anthorcoris minki</i> Dohrn	Jessop (1983)
[The <i>Anthorcoris minki</i> of Southwood & Leston is actually <i>Anthorcoris simulans</i> Reuter]	
Anthorcoridae – Anthorcorinae – Oriini	
203A <i>Orius laticollis</i> (Reuter)	Woodroffe (1971b)
Anthorcoridae – Lyctocorinae – Dufouriellini	
213A <i>Buchananiella continua</i> (White)	Kirby (1999)
Microphysidae	
219A <i>Loricula ruficeps</i> (Reuter)	Eversham (1985); (pers. comm. Dr. Peter Kirby)
Miridae – Deraeocorinae – Deraeocorini	
231A <i>Deraeocoris flavilinea</i> (A. Costa)	Miller (2001)
Miridae – Phylinae – Phylini	
237A <i>Conostethus venustus</i> (Fieber)	Flanagan (2011)
246A <i>Macrotylus horvathi</i> (Reuter)	Hodge (2006); Nau (2006b); Bantock (2009)
256A <i>Psallus montanus</i> Josifov	Nau (2007)
[Formerly <i>Psallus betuleti montanus</i> Josifov]	
261A <i>Psallus pseudoplatani</i> Reichling	Hawkins (2003)
276A <i>Atractotomus parvulus</i> Reuter	Woodroffe (1971c)
[Formerly <i>Atractotomus mirificus</i> Woodroffe]	
277A <i>Europiella decolor</i> (Uhler)	Dolling (1999)
281A <i>Chlamydatus pulicarius</i> (Fallén)	Southwood & Leston (1959)
285A <i>Monosynamma maritimum</i> (Wagner)	Woodroffe (1967a)
[Formerly <i>Monosynamma maritima</i> (Wagner)]	
285B <i>Monosynamma sabulicola</i> (Wagner)	Woodroffe (1967a); Nau (2000)
286A <i>Campylomma annulicorne</i> (Signoret)	Nau (1978)
[Formerly <i>Campylomma annulicornis</i> (Signoret)]	
290A <i>Placochilus seladonicus</i> (Fallén)	Nau (1978)
290B <i>Tuponia mixticolor</i> (A. Costa)	Nau (1980)
[Formerly <i>Tuponia carayoni</i> Wagner]	
290C <i>Tuponia brevirostris</i> Reuter	Barclay & Nau (2003)

Table 1. (*Continued*)

Species and Classification	References
Miridae – Phylinae – Pilophorini	
307A <i>Hypseloecus visci</i> (Puton)	Gibbs & Nau (2005)
Miridae – Bryocorinae – Dicyphini	
299A <i>Dicyphus escalerae</i> Lindberg	Kirby, Bantock & Nau (2009)
299B <i>Dicyphus pallidus</i> (Herrich-Schaeffer)	Ryan (2010)
303A <i>Tupiocoris rhododendri</i> (Dolling)	Dolling (1971)
[Formerly <i>Dicyphus rhododendri</i> Dolling and <i>Neodicyphus rhododendri</i> (Dolling)]	
Miridae – Orthotylinae – Orthotylini	
344A <i>Orthotylylus caprai</i> Wagner	Ryan (2008)
350A <i>Brachynotocoris puncticornis</i> Reuter	Nau & Brooke (2007)
350B <i>Reuteria marqueti</i> Puton	Brooke & Nau (2007)
Miridae – Mirinae – Mirini	
364A <i>Orthops basalis</i> (A. Costa)	Woodroffe (1973)
370A <i>Apolygus limbatus</i> (Fallén)	Southwood & Leston (1959)
[Formerly <i>Lygocoris limbatus</i> (Fallén)]	
378A <i>Charagochilus weberi</i> Wagner	Woodroffe (1965)
387A <i>Closterotomus trivialis</i> (A. Costa)	Bantock (2010a)
409A <i>Hadrodemus m-flavum</i> (Goeze)	Southwood & Leston (1959)
409B <i>Zygimus nigriceps</i> (Fallén)	Scudder (1958); Southwood & Leston (1959)
Miridae – Mirinae – Stenodemini	
415A <i>Notostira erratica</i> (L.)	Woodroffe (1977)
418A <i>Trigonotylus caelestialium</i> (Kirkaldy)	Aukema & Nau (1992)
421A <i>Teratocoris caricis</i> Kirkaldy	Woodroffe (1967b)
[Formerly <i>Teratocoris elegans</i> Woodroffe]	
Saldidae – Saldinae – Saldoidini	
442A <i>Saldula melanoscela</i> (Fieber)	Hewitt (2001)
Gerridae – Gerrinae – Gerrini	
467A <i>Limnoporos rufoscutellatus</i> (Latreille)	Southwood & Leston (1959); Savage (1989)
[Formerly <i>Gerris rufoscutellatus</i> (Latreille)]	
Naucoridae – Naucorinae	
470A <i>Naucoris maculatus</i> F.	Nau & Brooke (2005)
Corixidae – Micronectinae	
479A <i>Micronecta griseola</i> Horváth	Brooke & Nau (2003)
Corixidae – Cymatiainae	
481A <i>Cymatia rogenhoferi</i> (Fieber)	Nau & Brooke (2006)
Corixidae – Corixinae – Corixini	
488A <i>Corixa iberica</i> Jansson	Savage (1989)
501A <i>Sigara iactans</i> Jansson	Nau & Brooke (2006)
501B <i>Sigara longipalis</i> (J. Sahlberg)	Blackburn (2007)

historical order of the first British record. A modern treatment of Southwood & Leston's list would produce a very different numbering, due both to changes in taxonomy and to the modern practice of listing taxa in alphabetical order. It is for this reason that a more precise placement of the new species has not been attempted.

In addition to the 509 numbered species, there are many other species presented in Southwood & Leston (1959) that are unnumbered, due to their being regarded as 'foreign' or 'doubtful'. There is an obvious difficulty in deciding whether an occasional migrant is or is not a British species, and there are some apparent inconsistencies in the decisions made by the authors with some species. For instance,

two species of *Stictopleurus* Stål (Rhopalidae) were, at the time, rare visitors to Britain (Dolling, 1978), but *S. punctatonervosus* (Goeze) was numbered and keyed, whereas *S. abutilon* (Rossi) achieved neither distinction. For the sake of consistency, all unnumbered species in Southwood & Leston (1959) have been included in the present list, and given a number, with the exception of those that are associated with imported produce and which have not become established. Nineteen of the species listed in Table 1 fall into this category.

New species that have arisen through mistaken identity are not included in the list, except where multiple species are involved, and there is therefore a net addition to the list. For instance, *Orius vicinus* (Ribaut) (Anthocoridae) (Woodroffe, 1971b) and *Anthocoris simulans* Reuter (Anthocoridae) (Jessop, 1983) are not included as they replace the entries for existing species. However, in the confusion over *Plagiognathus albipennis* (Fallén) (Miridae), two species arose: *Europiella artemisiae* (Becker) and *E. decolor* (Uhler) (Dolling, 1999). The former is taken to replace *P. albipennis*, and the latter is therefore regarded as an addition to the list. The above and the many other changes in nomenclature of Southwood & Leston's species are fully documented by Nau (2006a), and are summarised in Table 2.

There are two species that were recorded as new to Britain, but are no longer regarded as distinct species, and are therefore excluded from the list: *Piesma spergulariae* Woodroffe (Piesmatidae) (Woodroffe, 1966) and *Empicoris thermalis* (Dohrn) (Reduviidae) (O'Connor & O'Connor, 1993; Southwood, 2000). *Kleidocerys privignus* (Horváth) (Lygaeidae) is also not included due to its doubtful status (pers. comm. Dr. Peter Kirby). There is also some uncertainty over the elevation of *Glaenocoris propinqua cavifrons* (Thomson) (Corixidae) to specific rank (pers. comm. Dr. Bernard Nau), and *Glaenocoris cavifrons* is therefore not included. There are two species of bugs that have recently been captured in Britain and photographs uploaded to the website Flickr (<http://www.flickr.com>) by Dr. Tristan Bantock – *Orthotylylus junipericola* Linnavuori and *Tropidostepes pacificus* (Van Duzee) (Miridae) – but details of their British status have yet to be published, and these species are not therefore included in the present list.

THE REFERENCES

It is beyond the scope of the present paper to provide individual details of the 85 species listed in Table 1, beyond their name and classification. The cited references to articles in the British literature contain the essential information which may be used for identification. These include, for each species, the first report of the species as new to Britain, with additional references where more details are required. A number of these articles are available on the internet, and it is hoped that for the remainder the reader will have access to the necessary library facilities where these articles may be found. There are, of course, continental European texts which may be useful for identification, such as Stichel (1955–1962) and the many excellent volumes by the late Jean Péricart, but these can be difficult to obtain in Britain, and require skills in the relevant foreign language. Some groups of the British Heteroptera have more modern treatments – the shieldbugs & squashbugs (Evans & Edmondson, 2005) and the water bugs (Savage, 1989) – but these texts present only a small minority of the species listed in this paper. Colour images of the insects may, in many cases, be found by searching the internet, although these are sometimes incorrectly named, and care needs to be taken. The British Bugs website (<http://www.britishbugs.org.uk>) is an ideal starting point for a search for images, followed by Flickr (<http://www.flickr.com>), Google (<http://www.google.co.uk>) and other internet search engines. The web journal *Het News* (<http://www.hetnews.org.uk>) contains a wealth of useful articles on

Table 2. List of the 91 species of British Hemiptera-Heteroptera whose names have changed since Southwood & Leston (1959), with their equivalent names in Aukema & Rieger (1995–2006), summarised from Nau (2006a).

No. and Name in Southwood & Leston (1959)	Name in Aukema & Rieger (1995–2006)
015 <i>Sehirus bicolor</i> (Linnaeus)	<i>Tritomegas bicolor</i> (Linnaeus)
016 <i>Sehirus dubius</i> (Scopoli)	<i>Canthophorus impressus</i> (Horváth)
017 <i>Sehirus biguttatus</i> (Linnaeus)	<i>Adomerus biguttatus</i> (Linnaeus)
019 <i>Aethus flavicornis</i> (Fabricius)	<i>Byrsinus flavicornis</i> (Fabricius)
022 <i>Odontoscelis dorsalis</i> (Fabricius)	<i>Odontoscelis lineola</i> Rambur
031 <i>Eysarcoris fabricii</i> Kirkaldy	<i>Eysarcoris venustissimus</i> (Schrank)
033 <i>Holcostethus vernalis</i> (Wolff)	<i>Holcostethus strictus</i> (Fabricius)
050 <i>Spathocera dahlmanni</i> (Schilling)	<i>Spathocera dalmanii</i> (Schilling)
052 <i>Arenocoris waltlii</i> (Herrich-Schaeffer)	<i>Arenocoris waltlii</i> (Herrich-Schaeffer)
059 <i>Aeschyntelus maculatus</i> (Fieber)	<i>Rhopalus maculatus</i> (Fieber)
064 <i>Chorosoma schillingii</i> (Schummel)	<i>Chorosoma schillingii</i> (Schilling)
078 <i>Kleidocerys truncatulus</i> (Walker)	<i>Kleidocerys ericae</i> (Horváth)
081 <i>Peritrechus lundii</i> (Gmelin)	<i>Peritrechus lundii</i> (Gmelin)
088 <i>Graptopeltis breviostris</i> Ribaut	<i>Xanthochtilus quadratus</i> (Fabricius)
100 <i>Emblethis verbasci</i> (Fabricius)	<i>Emblethis griseus</i> (Wolff)
105 <i>Stygnocoris pedestris</i> (Fallén)	<i>Stygnocoris sabulosus</i> (Schilling)
128 <i>Taphropeltis limbatus</i> (Fieber)	<i>Notochilus limbatus</i> Fieber
134 <i>Cymus obliquus</i> Horváth	<i>Cymus aurescens</i> Distant
145 <i>Piesma quadratum</i> Fieber	<i>Parapiesma quadratum</i> (Fieber)
149 <i>Acalypta platychila</i> (Fieber)	<i>Acalypta platycheila</i> (Fieber)
154 <i>Dictyonota tricornis</i> (Schrank)	<i>Kalama tricornis</i> (Schrank)
167 <i>Monanthia humuli</i> (Fabricius)	<i>Dictyla convergens</i> (Herrich-Schaeffer)
168 <i>Agramma laeta</i> (Fallén)	<i>Agramma laetum</i> (Fallén)
183 <i>Stalia major</i> (Costa)	<i>Himacerus major</i> (A. Costa)
184 <i>Stalia boops</i> (Schiodte)	<i>Himacerus boops</i> (Schiodte)
185 <i>Dolichonabis limbatus</i> (Dahlbom)	<i>Nabis limbatus</i> Dahlbom
186 <i>Dolichonabis lineatus</i> (Dahlbom)	<i>Nabis lineatus</i> Dahlbom
191 <i>Anthocoris minki</i> Dohrn	<i>Anthocoris simulans</i> Reuter
203 <i>Orius minutus</i> (Linnaeus)	<i>Orius vicinus</i> (Ribaut)
220 <i>Myrmedobia tenella</i> (Zetterstedt)	<i>Myrmedobia exilis</i> (Fallén)
224 <i>Myrmedobia bewelli</i> China	<i>Myrmedobia coleoprata</i> (Fallén)
235 <i>Conostethus friscus</i> Wagner	<i>Conostethus griseus</i> Douglas & Scott
238 <i>Hoplomachus thunbergi</i> (Fallén)	<i>Hoplomachus thunbergii</i> (Fallén)
241 <i>Megalocoleus pilosus</i> (Schrank)	<i>Megalocoleus tanacetii</i> (Fallén)
250 <i>Tytthus geminus</i> (Flor)	<i>Tytthus pubescens</i> (Knight)
252 <i>Phylus pallipes</i> Fieber	<i>Phylus palliceps</i> Fieber
255 <i>Plesiodema pinetellum</i> (Zetterstedt)	<i>Plesiodema pinetella</i> (Zetterstedt)
263 <i>Psallus roseus</i> (Fabricius)	<i>Psallus haematodes</i> (Gmelin)
267 <i>Psallus alnicola</i> Douglas & Scott	<i>Psallus salicis</i> (Kirschbaum)
268 <i>Psallus diminutus</i> (Kirschbaum)	<i>Psallus confusus</i> Rieger
269 <i>Psallus masseei</i> Woodroffe	<i>Psallus mollis</i> (Mulsant & Rey)
272 <i>Psallus obscurellus</i> (Fabricius)	<i>Phoenicocoris obscurellus</i> (Fallén)
274 <i>Psallus salicellus</i> (Herrich-Schaeffer)	<i>Compsidolon salicellum</i> (Herrich-Schaeffer)
277 <i>Plagiognathus albipennis</i> (Fallén)	<i>Europiella artemisiae</i> (Becker)
280 <i>Plagiognathus vitellinus</i> (Scholtz)	<i>Parapsallus vitellinus</i> (Scholtz)
285 <i>Monosynamma bohemani</i> (Fallén)	<i>Monosynamma bohemanni</i> (Fallén)
287 <i>Sthenarus roseri</i> (Herrich-Schaeffer)	<i>Salicarus roseri</i> (Herrich-Schaeffer)
289 <i>Asciodema obsoletum</i> Fieber	<i>Asciodema obsoleta</i> (Fieber)
290 <i>Asciodema fieberi</i> (Douglas & Scott)	<i>Psallodema fieberi</i> (Fieber)

Table 2. (*Continued*)

No. and Name in Southwood & Leston (1959)	Name in Aukema & Rieger (1995–2006)
295 <i>Macrolophus nubilis</i> (Herrich-Schaeffer)	<i>Macrolophus pygmaeus</i> (Rambur)
319 <i>Cyllecoris histrionicus</i> (Linnaeus)	<i>Cyllecoris histrionius</i> (Linnaeus)
321 <i>Globiceps cruciatus</i> Reuter	<i>Globiceps fulvicollis</i> Jakovlev
322 <i>Globiceps salicicola</i> Reuter	<i>Globiceps juniperi</i> Reuter
326 <i>Heterotoma merioptera</i> (Scopoli)	<i>Heterotoma planicornis</i> (Pallas)
328 <i>Pachylops bicolor</i> (Douglas & Scott)	<i>Platycranus bicolor</i> (Douglas & Scott)
345 <i>Orthotylus diaphanus</i> (Kirschbaum)	<i>Blepharidopterus diaphanus</i> (Kirschbaum)
348 <i>Neomecomma bilineatus</i> (Fallén)	<i>Orthotylus bilineatus</i> (Fallén)
352 <i>Pithanus maerkeli</i> (Herrich-Schaeffer)	<i>Pithanus maerkelii</i> (Herrich-Schaeffer)
359 <i>Orthops atomarius</i> (Meyer-Dür)	<i>Pinalitus atomarius</i> (Meyer-Dür)
360 <i>Orthops rubricatus</i> (Fallén)	<i>Pinalitus rubricatus</i> (Fallén)
361 <i>Orthops cervinus</i> (Herrich-Schaeffer)	<i>Pinalitus cervinus</i> (Herrich-Schaeffer)
362 <i>Orthops visicola</i> (Puton)	<i>Pinalitus visicola</i> (Puton)
364 <i>Orthops kalmi</i> (Linnaeus)	<i>Orthops kalmii</i> (Linnaeus)
369 <i>Lygocoris spinolai</i> (Meyer-Dür)	<i>Apolygus spinolae</i> (Meyer-Dür)
370 <i>Lygocoris lucorum</i> (Meyer-Dür)	<i>Apolygus lucorum</i> (Meyer-Dür)
372 <i>Camptozygum pinastri</i> (Fallén)	<i>Camptozygum aequale</i> (Villers)
373 <i>Plesiocoris rugicollis</i> (Fallén)	<i>Lygocoris rugicollis</i> (Fallén)
377 <i>Polymerus nigrinus</i> (Fallén)	<i>Polymerus nigrina</i> (Fallén)
378 <i>Charagochilus gyllenhali</i> (Fallén)	<i>Charagochilus gyllenhalii</i> (Fallén)
380 <i>Dichrooscytus valesianus</i> (Meyer-Dür)	<i>Dichrooscytus gustavi</i> Josifov
382 <i>Calocoris quadripunctatus</i> (Villers)	<i>Rhabdomiris striatellus</i> (Fabricius)
383 <i>Calocoris sexguttatus</i> (Fabricius)	<i>Grypocoris tysi</i> (Wagner)
384 <i>Calocoris fulvomaculatus</i> (De Geer)	<i>Closterotomus fulvomaculatus</i> (De Geer)
385 <i>Calocoris major</i> (Schilling)	<i>Calocoris alpestris</i> (Meyer-Dür)
387 <i>Calocoris norvegicus</i> (Gmelin)	<i>Closterotomus norvegicus</i> (Gmelin)
410 <i>Acetropis gimmerthali</i> (Flor)	<i>Acetropis gimmerthalii</i> (Flor)
411 <i>Stenodema calcarata</i> (Fallén)	<i>Stenodema calcarata</i> (Fallén)
412 <i>Stenodema trispinosum</i> Reuter	<i>Stenodema trispinosa</i> Reuter
413 <i>Stenodema laevigatum</i> (Linnaeus)	<i>Stenodema laevigata</i> (Linnaeus)
414 <i>Stenodema holsatana</i> (Fabricius)	<i>Stenodema holsata</i> (Fabricius)
424 <i>Ceratocombus coleoprata</i> (Zetterstedt)	<i>Ceratocombus coleopratus</i> (Zetterstedt)
425 <i>Pachycoleus rufescens</i> Sahlberg	<i>Cryptostemma waltli</i> (Fieber)
436 <i>Saldula vestita</i> (Douglas)	<i>Saldula fucicola</i> (J. Sahlberg)
447 <i>Chartoscirta cocksi</i> (Curtis)	<i>Chartoscirta cocksii</i> (Curtis)
458 <i>Microvelia umbricola</i> Wroblewski	<i>Microvelia buenoi</i> Drake
462 <i>Gerris costai</i> (Herrich-Schaeffer)	<i>Gerris costae</i> (Herrich-Schaeffer)
474 <i>Notonecta marmorea</i> Fabricius	<i>Notonecta viridis</i> Delcourt
476 <i>Plea atomaria</i> (Pallas)	<i>Plea minutissima</i> Leach
481 <i>Cymatia bonsdorffi</i> (Sahlberg)	<i>Cymatia bonsdorffii</i> (C. R. Sahlberg)
490 <i>Hesperocorixa linnei</i> (Fieber)	<i>Hesperocorixa linnaei</i> (Fieber)
504 <i>Sigara concinna</i> (Fieber)	<i>Paracorixa concinna</i> (Fieber)

the British Heteroptera, including many of the species listed in this paper, and is the best place to learn of the very latest additions to the British list.

CONCLUSION

This paper adds 85 species to the 509 numbered in Southwood & Leston (1959), making a total of 594. The number of species that are truly British is more difficult to determine precisely, as it depends upon the view taken of their status, particularly in

regard to the frequency and age of records. Eight of the listed species (*Jalla dumosa* (L.), *Dicranocephalus albipes* (F.), *Lygaeus equestris* (L.), *Lygaeus simulans* Deckert, *Prostemma guttula* (F.), *Anthocoris pilosus* (Jakovlev), *Apolygus limbatus* (Fallén) and *Hadrodemus m-flavum* (Goeze)) have no modern records, and Nau (2006a) reports a further eight such species from the original 509, although one of these, *Eremocoris fenestratus* (Herrich-Schaeffer) (Lygaeidae), has recently been found again in Britain (Bantock, 2010b). Furthermore, the British status of some species rests upon single specimens – *Oncocephalus pilicornis* Reuter (Whitehead, 2006), *Loricula ruficeps* (Reuter) (pers. comm. Dr. Peter Kirby) and *Reuteria marqueti* Puton (Brooke & Nau, 2007) – which may therefore be considered doubtful. It may also be prudent to exclude species very recently new to Britain, until they have properly established themselves. However, even if a highly conservative point of view is taken, the number of species considered British is unlikely to fall below 570.

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SHORT COMMUNICATIONS

New records of ash whitefly *Siphoninus phillyrae* (Halliday) (Hemiptera: Aleyrodidae) in Kent. – The whitefly records for Kent were recently summarized by Malumphy & Badmin (2012). A total of thirteen species are currently known from VCs 15 and 16, though several have not been recorded for many years. Ash whitefly *Siphoninus phillyrae* (Halliday) (Plate , Fig.) is a typical example with just two records, from Beckenham, West Kent dating from 1950 (C. B. Williams) to as recently as 1988 (J. H. Martin).

Searches this year have revealed that ash whitefly is more widespread in the county than previously understood. The authors discovered this species at sites throughout Medway (VC15) and also at Ranscombe Farm, Cuxton VC16 (TQ711673, TQ702679) on 25.x.2012 and near Brogdale VC15 on 10.x.2012 (TR006597). At all of these sites, occupied host plants were either in areas of woodland, often ancient, or in substantial hedgerows or gardens. Initial observations indicated the whitefly was almost completely absent from ash trees away from such habitats. Whether this was due to distance, temperature limitations on population growth, winter exposure (both likely)

or lack of alternative hosts (less so) has yet to be determined. Certainly, whitefly density appeared to be greatest in more sheltered locations.

A request for more records of *S. phillyreae* at the 2012 autumn Kent Wildlife Conference resulted in four additional sites for this species in the county. These are: VC 16 – New Barn (TQ627687) on 21.x.2012, Peter and Pauline Heathcote; Cliffe, Isle of Grain (TQ739731) on 22.x.2012 and Randall Wood, Shorne Country Park (TR006597), Judith Shorter; and VC 15 – Chestfield (TR136664) on 20.x.2012, Hazel Ryan and John Puckett. The absence of the species on ash in exposed amenity locations was noted in some of these locations. A recent search of ash trees in Faversham proved negative (John Badmin, pers. comm.). SIMON SPRINGATE & SARAH E. J. ARNOLD, Natural Resources Institute, University of Greenwich, Chatham Maritime ME4 4TB.

REFERENCE

Malumphy, C. & Badmin, J. S. 2012. Scale insects and whiteflies (Hemiptera: Coccoidea and Aleyrodoidea) of Watsonian Kent: with a discussion of the impact of naturalized non-native species. *British Journal of Entomology and Natural History* **25**: 15–46.

***Ontholestes tessellatus* (Geoffroy) (Coleoptera: Staphylinidae) capturing and killing *Calliphora vicina* (Robineau-Desvoidy) (Diptera: Calliphoridae).** – An observation of a male rove beetle *Ontholestes tessellatus* (Geoffroy) successfully attacking and killing a female bluebottle fly *Calliphora vicina* (Robineau-Desvoidy) is described. On 30.v.2012 a visit was made to Broxbourne Woods NNR, VC 20, Hertfordshire (TL325069). Along a shady path through mixed coniferous and broad-leaved woodland a fresh mound of horse dung had attracted large numbers of flies, the majority of which were bluebottles of the family Calliphoridae. There appeared to be hundreds swarming and jostling for position on and around the dung. Upon approach it was noticed that a struggle was occurring on the ground inches from the dung. Closer inspection revealed that a species of rove beetle had somehow managed to capture a large bluebottle and they were rolling over and wrestling in the dust. Several photographs were taken of this incident. Looking at the images later, on a computer monitor, it was clear that the rove beetle was *O. tessellatus* and that it had eventually managed to overcome the *Calliphora* by biting into its head to the rear of the frons (Plate ●●, Fig. ●●). Predatory rove beetles are amongst the most important and abundant members of the dung community (Skidmore, 1991). *Ontholestes tessellatus* is often recorded on or near to cow dung and it would be interesting to know if they are they able to capture adult dung flies in the family Scathophagidae. The dense populations of prey items including fly larvae, mites and springtails found on and in specialised micro-habitats such as dung are known to attract predatory carnivorous rove beetles in the sub-family Staphylininae (Lott & Anderson, 2011). – KEVIN A. MCGEE, 9, Woodrush Heath, The Rock, Telford, Shropshire. TF3 5DL. (email: kevinmcgeeandrena@live.co.uk).

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