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Checklist of British and Irish Hymenoptera - aculeates (Apoidea, Chrysoidea and Vespoidea)

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Abstract

Background

The checklist of British and Irish aculeate Hymenoptera (Apoidea, Chrysoidea and Vespoidea) is revised. Species distribution is summarised for all species at the level of country (England, Scotland, Wales, Ireland and Isle of Man).

New information

The 601 native species represent an increase of 25 on the 1978 checklist, comprising mostly new discoveries. This increase is nearly balanced by the 23 species now presumed to be extinct in Britain and Ireland.

Keywords

Britain, Ireland, bees, ants, wasps, fauna

Introduction

The checklist of British and Irish aculeates is essentially that of Else et al. (2004) but with several additions and updated taxonomy. This continues the series of chapters, starting with Broad and Livermore (2014a), Broad and Livermore (2014b) and Liston et al. (2014) comprising the first complete updating of the 1978 Hymenoptera checklist (Fitton et al. 1978).

Unlike most groups of Hymenoptera, the aculeate ants, bees and wasps are well-served by identification literature and are actively collected and recorded by a relatively large number of amateur as well as professional entomologists. We thus have a better idea of the actual size of the fauna than we do for sawflies and parasitoid wasps. There is thus a much better idea of change in the aculeate fauna and numerous extinctions and colonisations have been documented.

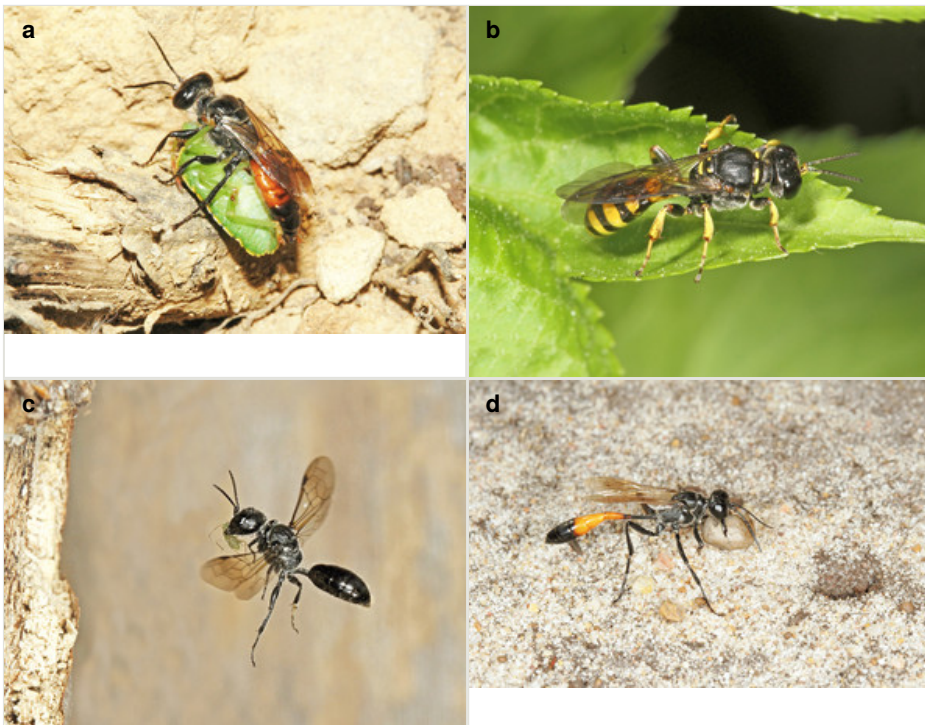


Figure 1.

Representative British crabronid and sphecid wasps

- a:** *Astata boops* (Schrank) (Crabronidae) with gorse shieldbug prey (courtesy of J. Early)
- b:** *Crossocerus binotatus* (Lepeletier & Brullé) female (Crabronidae) (courtesy of J. Early)
- c:** *Pemphredon lugubris* (Fabricius) (Crabronidae) approaching nest with aphid prey (courtesy of J. Early)
- d:** *Ammophila pubescens* Curtis (Sphecidae) with pebble (courtesy of J. Early)

The aculeate Hymenoptera encompass three superfamilies and 18 families in Britain and Ireland (as discussed in Broad 2014, this figure is likely to change), with a wide range of ecologies and body forms. Figs 1, 2, 3, 4, 5, 6 depict some of this variety (and the website of the [Bees, Wasps and Ants Recording Society](#) has many more images). With multiple evolutions of eusociality, importance as pollinators, predators and parasitoids and general conspicuousness, the aculeates have always attracted attention and very good summaries of their biology can be found in a diverse array of texts for a variety of different audiences, from Lubbock (1882) to Gauld and Bolton (1988).

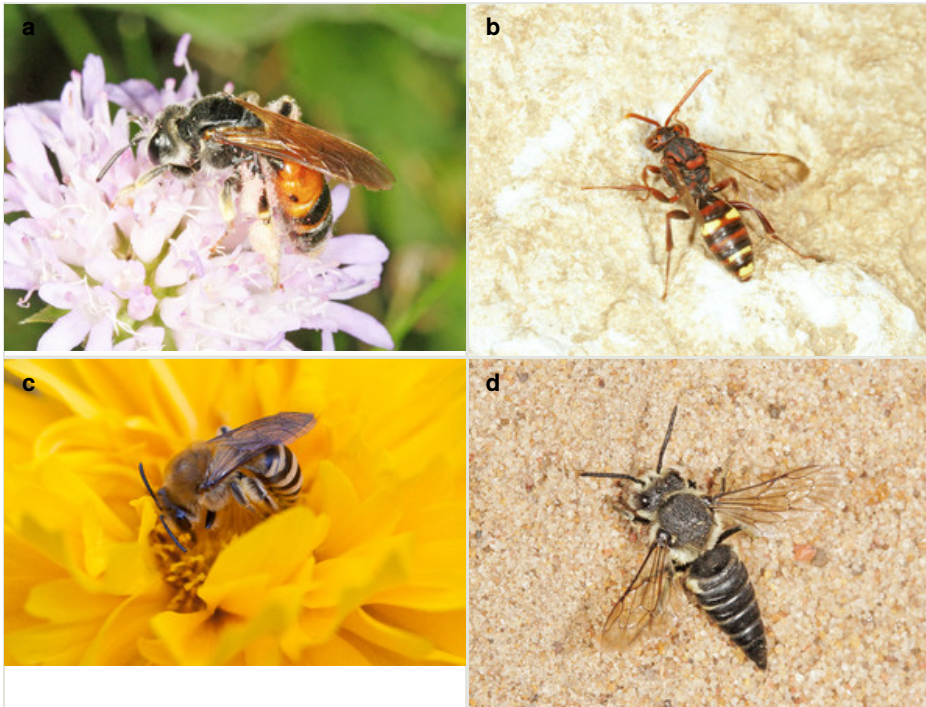


Figure 2.

Representative British bees

a: *Andrena hattorfiana* (Fabricius) (Andrenidae) female on *Knautia arvensis* (courtesy of J. Early)

b: *Nomada panzeri* Lepelletier (Apidae) female (courtesy of J. Early)

c: *Colletes* sp. (Colletidae) (courtesy of P. Adams)

d: *Coelioxys conoidea* (Illiger) (Megachilidae) female (courtesy of J. Early)

Materials and methods

The rationale and background to the updated Hymenoptera checklist are laid out in Broad (2014). The aim is to account for all the names in the 1978 checklist, document all additions to and deletions from that list and to list the distributions of all species at the country level, i.e. England, Scotland, Wales, Ireland (as one unit) and the Isle of Man. We do not usually report distribution data for introduced species that only reproduce indoors or in greenhouses.

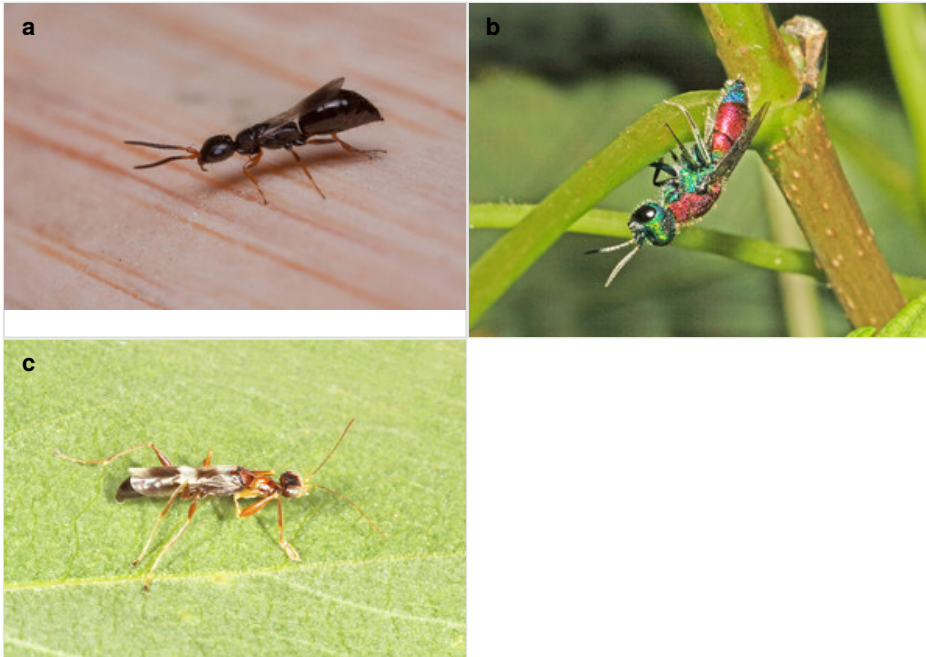


Figure 3.

Representative British Chrysoidea

a: *Laelius* sp. (Bethylinidae) female (courtesy of P. Adams)

b: *Chrysis viridula* Linnaeus (Chrysididae) female (courtesy of J. Early)

c: *Dryinus collaris* (Linnaeus) (Dryinidae) female (courtesy of J. Early)

Sources of classification are listed under each superfamily. The checklist of bees is essentially similar to that of Else's (in prep.) handbook to the British fauna, except that we employ six families rather than including all bees in Apidae and, as discussed in the introduction to this checklist series (Broad 2014), we do not consider the fauna of the Channel Islands. We adopt a multi-family classification of the bees to maintain unity with larger-scale checklists (particularly that of M. Kuhlmann's [Checklist of the Western Palaearctic Bees](#)) and because this is the system employed in the most authoritative treatise on bee classification (Michener 2007), as well as most recent papers dealing with bee phylogeny.



Figure 4.

Representative British Vespoidea

- a:** *Formica rufa* Linnaeus (Formicidae) worker with ladybird (courtesy of J. Early)
- b:** *Smicromyrme rufipes* (Fabricius) (Mutillidae) female (courtesy of J. Early)
- c:** *Cryptocheilus notatus* (Rossi) (Pompilidae) female with *Drassodes cupreus* prey (courtesy of J. Early)
- d:** *Ceropales maculata* (Fabricius) (Pompilidae) female (courtesy of J. Early)

Country-level distribution data mostly derive from the distribution atlases produced by the Bees, Wasps and Ants Recording Society (Edwards 1997, Edwards 1998, Edwards and Telfer 2001, Edwards and Telfer 2002, Edwards and Broad 2005, Edwards and Broad 2006, Edwards and Roy 2009, Collins and Roy 2012, with maps updated on their [website](#)), the catalogue of Irish Hymenoptera (O'Connor et al. 2009), and some additional literature references. Note that the Bethyliidae, Dryinidae and Embolemidae are particularly poorly recorded.

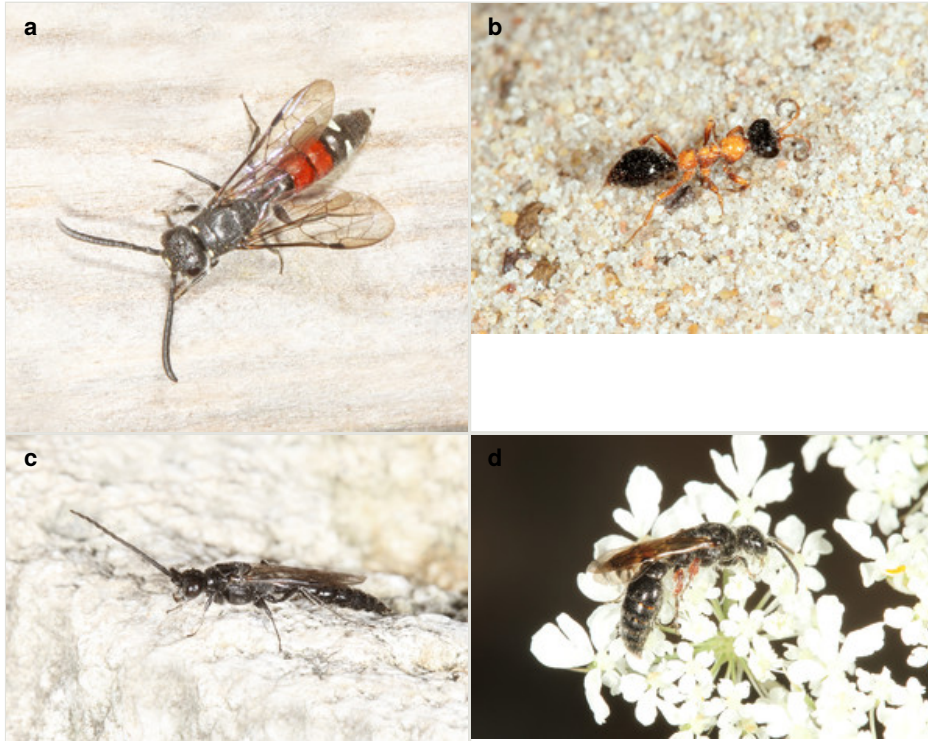


Figure 5.

Representative British Vespoidea

a: *Sapyga quinquepunctata* (Fabricius) (Sapygidae) female (courtesy of J. Early)

b: *Methocha articulata* Latreille (Tiphidae) female (courtesy of J. Early)

c: *Methocha articulata* Latreille (Tiphidae) male (courtesy of J. Early)

d: *Tiphia femorata* Fabricius (Tiphidae) female on *Daucus carota* (courtesy of J. Early)

The following abbreviations and conventions are employed:

[**species**] taxon deleted from the British and Irish list

NHM Natural History Museum, London

known or suspected introductions with at least temporarily self-sustaining populations

? status (including uncertain synonymy) or identification in the British Isles uncertain

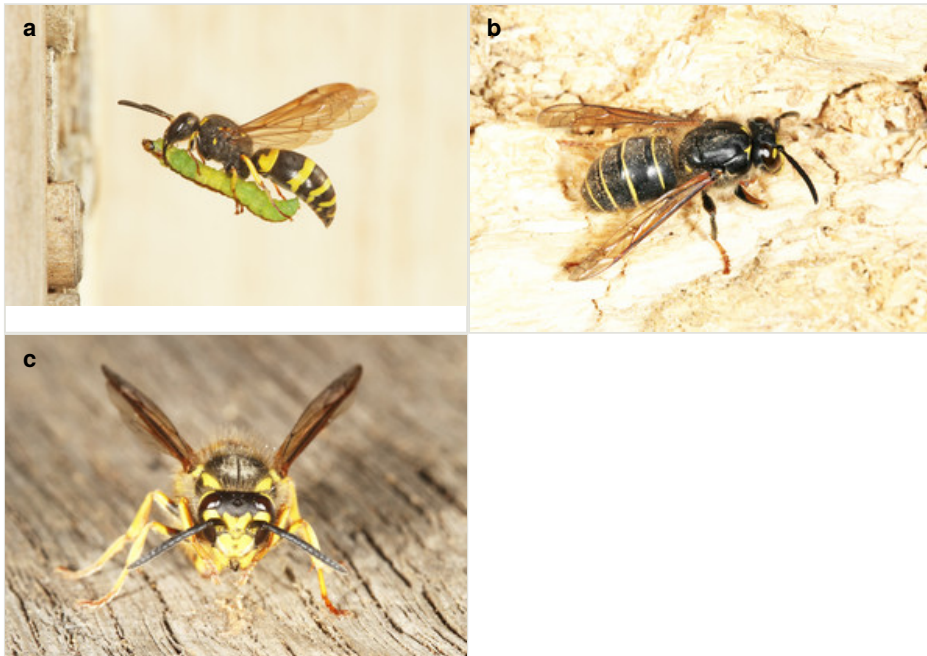


Figure 6.

Representative British Vespidae

a: *Ancistrocerus nigricornis* (Curtis) approaching nest with prey (courtesy of J. Early)

b: *Dolichovespula media* (Retzius) dark worker (courtesy of J. Early)

c: *Dolichovespula saxonica* (Fabricius) queen (courtesy of J. Early)

misident. has been misidentified as this name

nom. dub. *nomen dubium*, a name of unknown or doubtful application

nom. ob. *nomen oblitum*, 'forgotten name', does not have priority over a younger name

nom. nov. *nomen novum*, a replacement name

nom. nud. *nomen nudum*, an unavailable name, with no type specimen

preocc. name preoccupied (junior homonym)

stat. rev. *status revocatus*, revived status (e.g., raised from synonymy)

unavailable not meeting the requirements of the International Code of Zoological Nomenclature

var. variety, only available as a valid name under the provisions of article 45.6 of the ICZN

Text and spreadsheet versions of the checklists are available as supplementary files: Suppl. materials 1, 2.

Apoidea

Superfamily APOIDEA Latreille, 1802

Notes: The higher-level classification of the Apoidea follows Pulawski (2013) Engel (2005) and M. Kuhlmann's [online checklist of Western Palaearctic bees](#). The 'traditional' family Sphecidae is paraphyletic with respect to the bee families (here referred to as the Anthophila, an informal taxon, following Engel 2005) and in Britain and Ireland comprises the families Crabronidae and Sphecidae. Species-level classification of Crabronidae and Sphecidae follows Pulawski (2013). Figs 1, 2: habitus of selected British Apoidea.

Family Crabronidae Latreille, 1802

Subfamily Astatinae Lepeletier, 1845

Genus *Astata* Latreille, 1796

Nomenclature:

DIMORPHA Panzer, 1806

Astata boops (Schrank, 1781)

Nomenclature:

Sphex boops Schrank, 1781

abdominalis (Panzer, 1798, *Tiphia*)

pompiliformis (Panzer, 1804, *Larra*)

oculata (Jurine, 1807, *Dimorpha*)

victor Curtis, 1829

vanderlindenii Robert, 1833

agilis Smith, 1875

Distribution: England

Genus *Dryudella* Spinola, 1843

Dryudella pinguis (Dahlbom, 1832)

Nomenclature:

Larra pinguis Dahlbom, 1832

stigma misident.

pinguis (Zetterstedt, 1838, *Larra*) preocc.

jaculator (Smith, 1845, *Astata*)

Distribution: England, Scotland, Wales

Subfamily Bembicinae Latreille, 1802

Tribe Alyssontini Dalla Torre, 1897

Genus *Didineis* Wesmael, 1852

Didineis lunicornis (Fabricius, 1798)

Nomenclature:

Pompilus lunicornis Fabricius, 1798

kenedii (Curtis, 1836, *Alyson*)

Distribution: England

Tribe Bembicini Latreille, 1802

Genus *Argogorytes* Ashmead, 1899

Argogorytes fargeii (Shuckard, 1837)

Nomenclature:

Gorytes fargeii Shuckard, 1837

campestris misident.

mongolensis Tsuneki, 1971

przewalskyi Kazenas, 1971

Distribution: England, Wales

Argogorytes mystaceus (Linnaeus, 1761)

Nomenclature:

Sphex mystaceus Linnaeus, 1761

campestris (Linnaeus, 1761, *Vespa*)

inimica (Harris, 1776, *Vespa*)

longicornis (Rossi, 1790, *Sphex*)

bicinctus (Fabricius, 1793, *Crabro*)

arpactus (Fabricius, 1804, *Mellinus*)

flavicincta (Donovan, 1808, *Vespa*)

croceipes (Eversmann, 1849, *Gorytes*)

tonsus (Bondroit, 1933, *Gorytes*)

Distribution: England, Scotland, Wales, Ireland

Genus *Gorytes* Latreille, 1805

Nomenclature:

ARPACTUS Panzer, 1805

EUZONIA Stephens, 1829

EUSPONGUS Lepeletier, 1832

HOPLISUS Lepeletier, 1832

LAEVIGORYTES Zavadil, 1948

***Gorytes laticinctus* (Lepeletier, 1832)**

Nomenclature:

Euspongius laticinctus Lepeletier, 1832

Distribution: England, Wales

***Gorytes quadrifasciatus* (Fabricius, 1804)**

Nomenclature:

Mellinus quadrifasciatus Fabricius, 1804

vicinus (Lepeletier, 1832, *Euspongius*)

montivagus (Mocsáry, 1878, *Hoplisus*)

Distribution: England, Wales

Genus *Harpactus* Shuckard, 1837

Nomenclature:

ARPACTUS Jurine, 1807

HARPACTES Dahlbom, 1843

DIENOPLUS Fox, 1893

Harpactus tumidus* (Panzer, 1801)*Nomenclature:**

Pompilus tumidus Panzer, 1801

japonensis (Tsuneki, 1963, *Dienoplus*)

transiliensis Kazenas, 1989

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Genus *Lestiphorus* Lepeletier, 1832**Nomenclature:**

HYPOMELLINUS Asmead, 1899

MELLINOASTRA Asmead, 1899

Lestiphorus bicinctus* (Rossi, 1794)*Nomenclature:**

Crabro bicinctus Rossi, 1794

Distribution: England

Tribe Nyssonini Latreille, 1804**Genus *Nysson* Latreille, 1796****Nomenclature:**

SYNNEVRUS Costa, 1859

Nysson dimidiatus* Jurine, 1807*Nomenclature:**

wesmaeli Lepeletier, 1845

distinguendus Chevrier, 1867

Distribution: England, Wales

Nysson interruptus* (Fabricius, 1798)*Nomenclature:**

Mellinus interruptus Fabricius, 1798

spinus (Fabricius, 1804, *Ceropales*)

panzeri Lepeletier, 1845

shukardi Wesmael, 1852

Distribution: England

***Nysson spinosus* (Forster, 1771)**

Nomenclature:

Sphex spinosus Forster, 1771

?*bidens* (Linnaeus, 1767, *Vespa*)

spinosus (Fabricius, 1775, *Crabro*) preocc.

tricinctus (Fabricius, 1793, *Mellinus*)

trilineata (Turton, 1802, *Vespa*)

geniculatus Lepeletier, 1845

malasei Gussakovskij, 1932

Distribution: England, Scotland, Wales, Ireland

***Nysson trimaculatus* (Rossi, 1790)**

Nomenclature:

Crabro trimaculatus Rossi, 1790

Distribution: England, Wales

Subfamily Crabroninae Latreille, 1802

Tribe Crabronini Latreille, 1802

Genus *Crabro* Fabricius, 1775

Nomenclature:

THYREOPUS Lepeletier & Brullé, 1835

ANOTHYREUS Dahlbom, 1845

THYREOCNEMUS Costa, 1871

PARANOTHYREUS Ashmead, 1899

SYNOTHYREOPUS Ashmead, 1899

AGNOSICRABRO Pate, 1944

DYSCOLOCRABRO Pate, 1944

HEMITHYREOPUS Pate, 1944

NORUMBEGA Pate, 1947

PARANTHYREUS Pate, 1944

PARATHYREOPUS Pate, 1944

PEMPHILIS Pate, 1944

OTHYREUS Marshakov, 1977

***Crabro cribrarius* (Linnaeus, 1758)**

Nomenclature:

Vespa cribraria Linnaeus, 1758

patellarius (Schreber, 1784, *Sphex*)

argus (Christ, 1791, *Sphex*)

longa (Christ, 1791, *Sphex*)

lunatus (Christ, 1791, *Sphex*)

palmatus Panzer, 1797

inornatus Mocsáry, 1901

hypotheticus Kokujev, 1927

Distribution: England, Scotland, Wales, Isle of Man

***Crabro peltarius* (Schreber, 1784)**

Nomenclature:

Sphex peltarius Schreber, 1784

patellatus Panzer, 1797

dentipes Panzer, 1797

mediatus Fabricius, 1798

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Crabro scutellatus* (von Scheven, 1781)**

Nomenclature:

Sphex scutellatus von Scheven, 1781

scutularius (Schreber, 1784, *Sphex*)

pterotus Panzer, 1801

reticulatus (Lepeletier & Brullé, 1835, *Ceratocolus*)

Distribution: England

Genus *Crossocerus* Lepeletier & Brullé, 1835

Subgenus *Ablepharipus* Perkins, 1913

***Crossocerus (Ablepharipus) congener* (Dahlbom, 1844)**

Nomenclature:

Crabro congener Dahlbom, 1844

Distribution: England

Notes: added by Archer (2007) based on a pers. comm. from D. Baldock

***Crossocerus (Ablepharipus) podagricus* (Vander Linden, 1829)**

Nomenclature:

Crabro podagricus Vander Linden, 1829

vicinus Dahlbom, 1842

punctata Šnoflak, 1948

snoflaki Zavadil, 1948

Distribution: England, Wales

Subgenus *Acanthocrabro* Perkins, 1913

Nomenclature:

CORENOCRABRO Tsuneki, 1974

***Crossocerus (Acanthocrabro) vagabundus* (Panzer, 1798)**

Nomenclature:

Crabro vagabundus Panzer, 1798

varus (Panzer, 1799, *Crabro*) preocc.

bojus (Schrank, 1802, *Crabro*)

quinquemaculatus (Lepeletier & Brullé, 1835, *Blepharipus*)

lefebvrei Lepeletier & Brullé, 1835

fasciatus (Costa, 1871, *Crabro*)

esakii (Yasumatsu, 1942, *Crabro*)

ectemiformis (Tsuneki, 1974, *Corenocrabro*)

Distribution: England, Wales

Subgenus *Blepharipus* Lepeletier & Brullé, 1835**Nomenclature:**

COELOCRABRO Thomson, 1874

Crossocerus (Blepharipus) annulipes* (Lepeletier & Brullé, 1835)*Nomenclature:**

Blepharipus annulipes Lepeletier & Brullé, 1835

gonager (Lepeletier & Brullé, 1835, *Blepharipus*)

nigritus (Gimmerthal, 1836, *Crabro*)

ambiguus (Dahlbom, 1842, *Crabro*)

capito (Dahlbom, 1845, *Crabro*)

parkeri (Banks, 1921, *Blepharipus*)

davidsoni (Sandhouse, 1938, *Crabro*)

Distribution: England, Scotland, Wales

Crossocerus (Blepharipus) capitosus* (Shuckard, 1837)*Nomenclature:**

Crabro capitosus Shuckard, 1837

annulus (Dahlbom, 1838, *Crabro*)

yezo Tsuneki, 1960

Distribution: England, Scotland, Wales, Ireland

Crossocerus (Blepharipus) cetratus* (Shuckard, 1837)*Nomenclature:**

Crabro cetratus Shuckard, 1837

vanderlindenii (Dahlbom, 1838, *Crabro*)

dilatatus (Herrich-Schäffer, 1841, *Crabro*)

inornatus (Matsumura, 1912, *Crabro*)

dentsukanus Tsuneki, 1976

Distribution: England, Wales, Ireland

Crossocerus (Blepharipus) leucostomus* (Linnaeus, 1758)*Nomenclature:**

Sphex leucostoma Linnaeus, 1758
carbonarius (Dahlbom, 1838, *Crabro*)
rugosus (Herrich-Schäffer, 1841, *Crabro*)
melanarius (Wesmael, 1852, *Crabro*)
cinctipes (Provancher, 1882, *Blepharipus*)
niger (Provancher, 1888, *Crabro*)
nigror (Fox, 1895, *Crabro*)
servus (Dalla Torre, 1897, *Crabro*)
cinctitarsis (Ashmead, 1901, *Stenocrabro*)
columbiae (Bradley, 1906, *Blepharipus*)
stygius (Mickel, 1916, *Thyreopus*)
utensis (Mickel, 1916, *Thyreopus*)

Distribution: England, Scotland

Crossocerus (Blepharipus) megacephalus* (Rossi, 1790)*Nomenclature:**

Crabro megacephalus Rossi, 1790
leucostoma misident.
bidens (Haliday, 1833, *Crabro*)
niger Lepeletier & Brullé, 1835
rufipes Lepeletier & Brullé, 1835
laeviceps (Smith, 1856, *Crabro*)
bison (Costa, 1884, *Crabro*)
?zaidamensis (Radoszkowski, 1887, *Crabro*)
leucostomoides (Richards, 1935, *Coelocrabro*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Crossocerus (Blepharipus) nigrinus* (Lepeletier & Brullé, 1835)*Nomenclature:**

Blepharipus nigrinus Lepeletier & Brullé, 1835
pubescens (Shuckard, 1837, *Crabro*)

diversipes Herrich-Schäffer, 1841
inermis (Thomson, 1870, *Crabro*)
melanogaster Kohl, 1880
nigricornis (Provancher, 1888, *Blepharipus*)
sambucicola (Verhoeff, 1891, *Crabro*)
verhoeffi Tsuneki, 1967
sudai Tsuneki, 1976
babai Tsuneki, 1979

Distribution: England, Wales

***Crossocerus (Blepharipus) styrius* (Kohl, 1892)**

Nomenclature:

Crabro styrius Kohl, 1892
pauxillus (Gussakovskij, 1932, *Crabro*)
sugiharai (Iwata, 1938, *Crabro*)
pilicornis Tsuneki, 1977

Distribution: England

***Crossocerus (Blepharipus) walkeri* (Shuckard, 1837)**

Nomenclature:

Crabro walkeri Shuckard, 1837
aphidium misident.
geniculatus (Shuckard, 1837, *Crabro*)
clypearis (Schenck, 1857, *Crabro*)
cloevorax (Nielsen, 1901, *Crabro*)

Distribution: England, Scotland, Wales

Subgenus *Crossocerus* Lepeletier & Brullé, 1835

Nomenclature:

STENOCRABRO Ashmead, 1899
ISCHNOLYNTHUS Holmberg, 1903

Crossocerus (Crossocerus) distinguendus* (Morawitz, 1866)*Nomenclature:**

Crabro distinguendus Morawitz, 1866

mucronatus (Thomson, 1870, *Crabro*)

Distribution: England

Notes: added by Packer (1981)

Crossocerus (Crossocerus) elongatulus* (Vander Linden, 1829)*Nomenclature:**

Crabro elongatulus Vander Linden, *Crabro*

annulatus Lepeletier & Brullé, 1835

varipes Lepeletier & Brullé, 1835

affinis Lepeletier & Brullé, 1835

luteipalpis Lepeletier & Brullé, 1835

morio Lepeletier & Brullé, 1835

pallidipalpis Lepeletier & Brullé, 1835

proximus (Shuckard, 1837, *Crabro*)

hyalinus (Shuckard, 1837, *Crabro*)

transversalis (Shuckard, 1837, *Crabro*)

obliquus (Shuckard, 1837, *Crabro*)

propinquus (Shuckard, 1837, *Crabro*)

brevis (Eversmann, 1849, *Crabro*)

scutellaris (Smith, 1851, *Crabro*)

sulcus (Fox, 1895, *Crabro*)

plesius (Rohwer, 1912, *Stenocrabro*)

berlandi (Richards, 1928, *Crabro*)

Distribution: England, Scotland, Wales, Isle of Man

Notes: The British population is considered to belong to the subspecies *annulatus* Lepeletier & Brullé (synonyms: *proximus*, *hyalinus*, *transversalis*, *obliquus*, *propinquus*, *berlandi*).

Crossocerus (Crossocerus) exiguus* (Vander Linden, 1829)*Nomenclature:**

Crabro exiguus Vander Linden, *Crabro*
aphidum Lepeletier & Brullé, 1835

Distribution: England

Crossocerus (Crossocerus) ovalis* Lepeletier & Brullé, 1835*Nomenclature:**

punctum (Zetterstedt, 1838, *Crabro*)
anxius (Wesmael, 1852, *Crabro*)
shuckardi (Smith, 1856, *Crabro*)
ovatus (Schulz, 1906, *Crabro*)

Distribution: England, Scotland, Wales

Crossocerus (Crossocerus) palmipes* (Linnaeus, 1767)*Nomenclature:**

Sphex palmipes Linnaeus, 1767
palmarius (Schreber, 1784, *Sphex*)
scutatus (Fabricius, 1787, *Crabro*)
ornatus Lepeletier & Brullé, 1835
scutellaris (Gimmerthal, 1836, *Crabro*)
gracilis (Eversmann, 1849, *Crabro*)
decoratus (Smith, 1856, *Crabro*)

Distribution: England, Scotland, Isle of Man

Crossocerus (Crossocerus) tarsatus* (Shuckard, 1837)*Nomenclature:**

Crabro tarsatus Shuckard, 1837
palmipes misident.
palmatus De Stefani Perez, 1884 preocc,

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Crossocerus (Crossocerus) varus* Lepeletier & Brullé, 1835 nomen protectum*Nomenclature:**

varius misspelling

pusillus Lepeletier & Brullé, 1835

striatulus Lepeletier & Brullé, 1835

spinipectus (Shuckard, 1837, *Crabro*)

striatus Lepeletier, 1845

intricatus (Smith, 1856, *Crabro*)

lepeletieri (Smith, 1856, *Crabro*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Crossocerus (Crossocerus) wesmaeli* (Vander Linden, 1829)*Nomenclature:**

Crabro wesmaeli Vander Linden, *Crabro*

maurus (Lepeletier & Brullé, 1835, *Ceratocolus*)

zieglerei (Lepeletier & Brullé, 1835, *Ceratocolus*)

Distribution: England, Scotland, Wales, Ireland

Subgenus *Cuphopteris* Morawitz, 1866***Crossocerus (Cuphopteris) binotatus* Lepeletier & Brullé, 1835****Nomenclature:**

signatus (Panzer, 1798, *Crabro*) preocc.

monstrosus (Dahlbom, 1845, *Crabro*)

confusus (Schulz, 1906, *Crabro*)

Distribution: England, Wales

Crossocerus (Cuphopteris) dimidiatus* (Fabricius, 1781)*Nomenclature:**

Crabro dimidiatus Fabricius, 1781

subpunctatus (Rossi, 1790, *Crabro*)

sexmaculatus (Olivier, 1792, *Crabro*)

signatus (Olivier, 1792, *Crabro*)

serripes (Panzer, 1797, *Crabro*)

notatus (Illiger, 1807, *Crabro*)

pauperatus (Lepelletier & Brullé, 1835, *Blepharipus*)

armipes (von Sebold, 1844, *Crabro*)

Distribution: England, Scotland, Wales, Ireland

Subgenus *Hoplocrabro* Thomson, 1874

***Crossocerus (Hoplocrabro) quadrimaculatus* (Fabricius, 1793)**

Nomenclature:

Crabro quadrimaculatus Fabricius, 1793

quadripunctatus (Fabricius, 1793, *Crabro*)

murorum (Latreille, 1805, *Crabro*)

levipes Vander Linden, 1829, *Crabro*)

bimaculatus Lepelletier & Brullé, 1835

quiquemaculatus (Dahlbom, 1838, *Crabro*)

rotundarius (Dahlbom, 1838, *Crabro*)

Distribution: England, Scotland, Wales, Ireland

Genus *Ectemnius* Dahlbom, 1845

Subgenus *Clytochrysus* Morawitz, 1864

***Ectemnius (Clytochrysus) cavifrons* (Thomson, 1870)**

Nomenclature:

Crabro cavifrons Thomson, 1870

cephalotes misident.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Ectemnius (Clytochrysus) lapidarius* (Panzer, 1804)**

Nomenclature:

Crabro lapidarius Panzer, 1804

?cinctus (Spinola, 1806, *Crabro*)

chrysoptomus (Lepelletier & Brullé, 1835, *Crabro*)

comptus (Lepeletier & Brullé, 1835, *Crabro*)

xylurgus (Shuckard, 1837, *Crabro*)

interstinctus (Smith, 1856, *Crabro*)

obscurus (Smith, 1856, *Crabro*)

gracilissimus (Packard, 1866, *Crabro*)

denticulatus (Packard, 1866, *Crabro*)

effosus (Packard, 1866, *Crabro*)

papagorum (Viereck, 1908, *Crabro*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Ectemnius (Clytochrysus) ruficornis* (Zetterstedt, 1838)**

Nomenclature:

Crabro ruficornis Zetterstedt, 1838

aurilabris (Herrich-Schäffer, 1841, *Crabro*)

nigrifrons (Cresson, 1865, *Crabro*)

contiguus (Cresson, 1865, *Crabro*)

septentrionalis (Packard, 1866, *Crabro*)

planifrons (Thomson, 1870, *Crabro*)

longipalpis (Verhöf, 1892, *Crabro*)

lineatotarsis (Matsumura, 1911, *Crabro*)

chipsani (Matsumura, 1912, *Crabro*)

Distribution: England, Wales

***Ectemnius (Clytochrysus) sexcinctus* (Fabricius, 1775)**

Nomenclature:

Crabro sexcinctus Fabricius, 1775

planifrons misident.

quadricinctus (Fabricius, 1787, *Crabro*)

interruptefasciatus (Retzius, 1783, *Sphex*)

tibialis (Olivier, 1792, *Crabro*)

maculata (Preyssler, 1793, *Crabro*)

zonatus (Panzer, 1797, *Crabro*)

vespiformis (Panzer, 1798, *Crabro*)

octomaculatus (Schrank, 1802, *Crabro*)
cinctus (Spinola, 1806, *Crabro*)
flavipes (Lepeletier & Brullé, 1835, *Crabro*)
tetraedrus (Blanchard, 1940, *Crabro*)
saundersi (Perkins, 1899, *Crabro*)
yosemite Pate, 1946

Distribution: England, Wales

Subgenus *Ectemnius* Dahlbom, 1845

***Ectemnius (Ectemnius) borealis* (Zetterstedt, 1838)**

Nomenclature:

Crabro borealis Zetterstedt, 1838
bipunctatus (Zetterstedt, 1838, *Crabro*)
nigrinus (Herrich-Schäffer, 1841, *Crabro*)
parvulus (Packard, 1866, *Crabro*)
gredleri (Kohl, 1878, *Lindenius*)
proletarius (Mickel, 1916, *Crabro*)

Distribution: England

***Ectemnius (Ectemnius) dives* (Lepeletier & Brullé, 1835)**

Nomenclature:

Solenius dives Lepeletier & Brullé, 1835
octonotatus (Lepeletier & Brullé, 1835, *Solenius*)
octavonotatus (Lepeletier & Brullé, 1835, *Solenius*)
alatulus (Dahlbom, 1838, *Crabro*)
pictipes (Herrich-Schäffer, 1841, *Crabro*)
auratus (Smith, 1856, *Crabro*)
montanus (Cresson, 1865, *Crabro*) preocc.
cristatus (Packard, 1866, *Crabro*)
cubiceps (Packard, 1866, *Crabro*)
heraclei (Rohwer, 1908, *Crabro*)
montivagans (Strand, 1916, *Crabro*)

Distribution: England, Wales

Subgenus *Hypocrabro* Ashmead, 1899

Nomenclature:

XESTOCRABRO Ashmead, 1899

***Ectemnius (Hypocrabro) continuus* (Fabricius, 1804)**

Nomenclature:

Crabro continuus Fabricius, 1804

vagus misident.

sexmaculatus (Say, 1824, *Crabro*) preocc.

fuscitarsis (Herrich-Schäffer, 1841, *Crabro*)

vagatus (Smith, 1869, *Crabro*)

pumilus (Costa, 1871, *Crabro*)

granulatus (Walker, 1871, *Crabro*)

rugopunctatus (Taschenberg, 1875, *Crabro*)

validus (De Stefani Perez, 1884, *Crabro*)

bizexmaculatus (Viereck, 1910, *Crabro*)

sayi (Cockerell, 1910, *Crabro*)

giffardi (Rohwer, 1917, *Solenius*)

Distribution: England, Scotland, Wales, Ireland

***Ectemnius (Hypocrabro) rubicola* (Dufour & Perris, 184)**

Nomenclature:

Solenius rubicola Dufour & Perris, 1840

microstictus (Herrich-Schäffer, 1841, *Crabro*)

larvatus (Wesmael, 1852, *Crabro*)

pumilus (Costa, 1871, *Crabro*)

Distribution: England, Wales

Subgenus *Metacrabro* Ashmead, 1899***Ectemnius (Metacrabro) cephalotes* (Olivier, 1792)****Nomenclature:**

Crabro cephalotes Olivier, 1792
quadricinctus misident.
floralis (Olivier, 1792, *Crabro*)
geniculatus (Olivier, 1792, *Crabro*)
tibialis (Olivier, 1792, *Crabro*)
?cephalotes (Panzer, 1799, *Crabro*)
striatus (Lepeletier & Brullé, 1835, *Crabro*)
ornatus (Lepeletier & Brullé, 1835, *Crabro*)
striatulus (Lepeletier & Brullé, 1835, *Blepharipus*)
lindenius (Shuckard, 1837, *Crabro*)
shuckardi (Dahlbom, 1838, *Crabro*)
interruptus (Dahlbom, 1845, *Crabro*) preocc.
fargeii (Smith, 1856, *Crabro*)
aciculatus (Provancher, 1882, *Crabro*)
ruthenicus (Morawitz, 1892, *Crabro*)

Distribution: England, Scotland, Wales, Ireland

Ectemnius (Metacrabro) lituratus* (Panzer, 1805)*Nomenclature:**

Crabro lituratus Panzer, 1805
petiolatus (Lepeletier & Brullé, 1835, *Solenius*)
fasciatus (Lepeletier & Brullé, 1835, *Ceratocolus*)
reticulatus (Lepeletier & Brullé, 1835, *Ceratocolus* [lapsus])
kollari (Dahlbom, 1845, *Crabro*)
argenteus (Schenck, 1857, *Crabro*)
vestitus (Smith, 1858, *Crabro*)
intermedius (Morawitz, 1866, *Crabro*)
luxuriosus (Costa, 1871, *Crabro*)

Distribution: England, Wales

Genus *Entomognathus* Dahlbom, 1844

Nomenclature:

KOXINGA Pate, 1944

MASHONA Pate, 1944

TONCAHUA Pate, 1944

FLORKINUS Leclercq, 1956

BIHARGNATHUS Leclercq, 1977

Entomognathus brevis (Vander Linden, 1829)

Nomenclature:

Crabro brevis Vander Linden, 1829

apicalis (Lepeletier & Brullé, 1835, *Lindenius*)

nasutus (Gribodo, 1884, *Lindenius*)

Distribution: England, Wales

Genus *Lestica* Billberg, 1820

Subgenus *Clypeocrabro* Richards, 1935

Nomenclature:

THYREUS Lepeletier & Brullé, 1835 preocc.

Lestica (Clypeocrabro) clypeata (Schreber, 1759)

Nomenclature:

Apis clypeata Schreber, 1759

ovata (Christ, 1791, *Sphex*)

vexillata (Panzer, 1797, *Crabro*)

lapidaria (Fabricius, 1804, *Crabro*) preocc.

clypeata (Thunberg, 1815, *Philanthus*)

nigridens (Herrich-Schäffer, 1841, *Crabro*)

quadrifer (Dufour, 1841, *Crabro*)

Distribution: England

Genus *Lindenius* Lepeletier & Brullé, 1835**Nomenclature:***CHALCOLAMPRUS* Wesmael, 1852*TRACHELOSIMUS* Morawitz, 1866***Lindenius albilabris* (Fabricius, 1793)****Nomenclature:***Crabro albilabris* Fabricius, 1793*aenescens* (Dahlbom, 1838, *Crabro*)**Distribution:** England, Scotland, Wales***Lindenius panzeri* (Vander Linden, 1829)****Nomenclature:***Crabro panzeri* Vander Linden, 1829*venustus* Lepeletier & Brullé, 1835*latebrosus* (Kohl, 1905, *Crabro*)*harbinensis* Tsuneki, 1967*mongolicus* Tsuneki, 1972**Distribution:** England***Lindenius pygmaeus* (Rossi, 1794)****Nomenclature:***Crabro pygmaeus* Rossi, 1794*curtus* Lepeletier & Brullé, 1835*kratochvili* (Šnoflak, 1948, *Crabro*)**Distribution:** England**Notes:** Represented by the subspecies *armatus* (Vander Linden, 1829, *Crabro*).

Genus *Rhopalum* Stephens, 1829**Subgenus *Rhopalum* Stephens, 1829****Nomenclature:**

EUPLILIS Risso, 1826 nom. ob.

PHYSOSCELUS Lepeletier & Brullé, 1835

Rhopalum (Rhopalum) clavipes* (Linnaeus, 1758)*Nomenclature:**

Sphex clavipes Linnaeus, 1758

rufiventris (Panzer, 1799, *Crabro*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Corynopus* Lepeletier & Brullé, 1835**Nomenclature:**

DRYPHUS Herrich-Schäffer, 1840

ALLIOGNATHUS Ashmead, 1899

Rhopalum (Corynopus) coarctatum* (Scopoli, 1763)*Nomenclature:**

Sphex coarctata Scopoli, 1763

crassipes (Fabricius, 1798, *Crabro*)

tibiale (Fabricius, 1798, *Crabro*) preocc.

modestum Rohwer, 1908

Distribution: England, Scotland, Wales, Ireland

Rhopalum (Corynopus) gracile* Wesmael, 1852*Nomenclature:**

nigrinum Kiesenwetter, 1849 preocc.

kiesenwetteri (Morawitz, 1866, *Crabro*)

simplicipes (Morawitz, 1888, *Corynopus*)

Distribution: England

Tribe Larrini Latreille, 1810**Genus *Tachysphex* Kohl, 1883****Nomenclature:**

SCHISTOSPHEX Arnold, 1922

ATELOSPHEX Arnold, 1923

Tachysphex nitidus* (Spinola, 1805)*Nomenclature:**

Astata nitida Spinola, 1805

unicolor misident.

ibericus (de Saussure, 1867, *Tachytes*)

Distribution: England, Wales, Isle of Man

Notes: Added by Edwards (1998); earlier records of *unicolor* mostly refer to *nitidus*.

Tachysphex obscuripennis* (Schenck, 1857)*Nomenclature:**

Tachytes obscuripennis Schenck, 1857

lativalvis (Thomson, 1870, *Tachytes*)

Distribution: England

Notes: Only recorded as a vagrant in Deal, Kent; resident on the Channel Isles, which lie outside of the geographical coverage of this checklist.

Tachysphex pompiliformis* (Panzer, 1805)*Nomenclature:**

Larra pompiliformis Panzer, 1805

pectinipes misident.

nigripennis (Spinola, 1808, *Tachytes*)

dimidiata (Panzer, 1809, *Larra*)

jokischiana (Panzer, 1809, *Larra*)

parvula (Cresson, 1865, *Larrada*)

quebecensis (Provancher, 1882, *Larra*)

decorus Fox, 1894

tenuipunctus Fox, 1894
consimilis Fox, 1894
rufoniger Bingham, 1897
projectus Nurse, 1903
argyrotrichus Rohwer, 1911
granulosus Mickel, 1916
erythraeus Mickel, 1916
angularis Mickel, 1916

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Tachysphex unicolor* (Panzer, 1809)**

Nomenclature:

Larra unicolor Panzer, 1809
nitidus misident.
jurinii (Drapiez, 1819, *Larra*)

Distribution: England

Tribe Miscophini Fox, 1894

Genus *Miscophus* Jurine, 1807

Nomenclature:

NITELOPTERUS Ashmead, 1897
HYPOMISCOPHUS Cockerell, 1898
MISCOPHINUS Ashmead, 1898

***Miscophus ater* Lepeletier, 1845**

Nomenclature:

maritimus Smith, 1858

Distribution: England

***Miscophus bicolor* Jurine, 1807**

Nomenclature:

dubius (Panzer, 1809, *Larra*)
metallicus Verhöf, 1890

tsunekii de Andrade, 1960

Distribution: England

Notes: added by Knowles and Else (2006)

***Miscophus concolor* Dahlbom, 1844**

Nomenclature:

bicolor misident.

moravicus Balthazar, 1957

Distribution: England

Genus *Nitela* Latreille, 1809

Nomenclature:

TENILA Brèthes, 1913

RHINONITELA Williams, 1928

***Nitela borealis* Valkeila, 1974**

Distribution: England

Notes: added by Felton (1987)

***Nitela lucens* Gayubo & Felton, 2000**

Nomenclature:

spinolae misident.

Distribution: England

Notes: Added by Felton (1987), initially as *Nitela spinolae* Latreille, 1809 but described later as a new species (Gayubo and Felton 2000).

Tribe Oxybelini Leach, 1815

Genus *Oxybelus* Latreille, 1796

Nomenclature:

NOTOGLOSSA Dahlbom, 1845

ALEPIDASPIS Costa, 1882

ANOXYBELUS Kohl, 1924

GONIOXYBELUS Pate, 1937

ORTHOXYBELUS Pate, 1937

LATROXYBELUS Noskiewicz & Chudoba, 1950

***Oxybelus argentatus* Curtis, 1833**

Nomenclature:

mucronatus misident.

?*decimmaculata* (Donovan, 1806, *Vespa*)

ferox Shuckard, 1837

nigricornis Shuckard, 1837

Distribution: England, Wales

***Oxybelus mandibularis* Dahlbom, 1845**

Nomenclature:

sericatus Gerstäcker, 1867

Distribution: England, Scotland, Wales, Isle of Man

***Oxybelus uniglumis* (Linnaeus, 1758)**

Nomenclature:

Vespa uniglumis Linnaeus, 1758

punctata (Fabricius, 1793, *Nomada*)

tridens (Fabricius, 1798, *Crabro*)

?*decimmaculata* (Donovan, 1806, *Vespa*)

pygmaeus Olivier, 1812

quadrinotatus Say, 1824

impatiens Smith, 1856

interruptus Cresson, 1865

fallax Gerstäcker, 1867

brodiei Provancher, 1883

hispanicus Giner Marí, 1943

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Tribe Trypoxylini Lepeletier, 1845**Genus *Trypoxyton* Latreille, 1796****Nomenclature:**

APIUS Panzer, 1806

APIUS Jurine, 1807

TRYPARGILUM Richards, 1934

ASACONOTON Arnold, 1959

***Trypoxyton attenuatum* Smith, 1851**

Distribution: England, Scotland, Wales, Ireland

Trypoxyton clavicerum* Lepeletier & Serville, 1828*Nomenclature:**

tibiale Zetterstedt, 1840

batumicum Antropov, 1985

Distribution: England, Wales, Ireland

Trypoxyton figulus* (Linnaeus, 1758)*Nomenclature:**

Sphex figulus Linnaeus, 1758

fuliginosa (Scopoli, 1763, *Sphex*)

apicale Fox, 1891

yezo Tsuneki, 1956

barbarum de Beaumont, 1957

fiuzeti Giner Marí, 1959

Distribution: England, Wales

***Trypoxyton medium* de Beaumont, 1945**

Distribution: England, Scotland, Wales

Notes: added by Pulawski (1984)

Trypoxylon minus* de Beaumont, 1945*Nomenclature:***koma* Tsuneki, 1956**Distribution:** England**Notes:** added by Felton (1988)**Subfamily Dinetinae Fox, 1895****Genus *Dinetus* Panzer, 1806****Nomenclature:***DINETUS* Jurine, 1807 preocc.***Dinetus pictus* (Fabricius, 1793)****Nomenclature:***Crabro pictus* Fabricius, 1793*guttatus* (Fabricius, 1793, *Sphex*) preocc.**Distribution:** England**Subfamily Mellininae Latreille, 1802****Genus *Mellinus* Fabricius, 1790*****Mellinus arvensis* (Linnaeus, 1758)****Nomenclature:***Vespa arvensis* Linnaeus, 1758*vagus* (Linnaeus, 1758, *Sphex*)*superbus* (Harris, 1776, *Vespa*)*tricinctus* (Schrank, 1781, *Vespa*)*clavatus* (Retzius, 1783, *Sphex*)*?infundibuliformis* (Geoffroy, 1785, *Vespa*)*?petiolatus* (Geoffroy, 1785, *Vespa*)*bipunctatus* (Fabricius, 1787, *Crabro*)*?gibbus* (Villers, 1789, *Sphex*) preocc.*melanostictus* (Gmelin, 1790, *Vespa*)

?arthriticus (Rossi, 1790, *Crabro*)
?rachiticus (Rossi, 1790, *Crabro*)
annularis (Christ, 1791, *Sphex*)
succinctus (Olivier, 1792, *Vespa*)
diversus (Olivier, 1792, *Vespa*)
labiatus (Olivier, 1792, *Crabro*)
quinquemaculatus (Fabricius, 1793, *Philanthus*)
u-flavum (Panzer, 1794, *Crabro*)
capistratus (Schrank, 1796, *Crabro*)
pratensis Jurine, 1807
compactus Handlirsch, 1888

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Mellinus crabroneus* (Thunberg, 1791)**

Nomenclature:

Sphex crabronea Thunberg, 1791
sabulosus (Fabricius, 1787, *Crabro*) preocc.
ruficornis (Villers, 1789, *Sphex*) preocc.
sabulosus (Olivier, 1792, *Crabro*) preocc.
ruficornis Fabricius, 1793 preocc.
frontalis (Panzer, 1797, *Crabro*)
petiolatus (Panzer, 1797, *Crabro*)
fulvicornis Fabricius, 1804

Distribution: England, Wales

Subfamily Pemphredoninae Dahlbom, 1835

Tribe Pemphredonini Dahlbom, 1835

Genus *Diodontus* Curtis, 1834

Nomenclature:

XYLOCELIA Rohwer, 1915
NEODIODONTUS Tsuneki, 1972
CORENIUS Tsuneki, 1974

Diodontus insidiosus* Spooner, 1938*Nomenclature:**

friesei misident.

Distribution: England

***Diodontus luperus* Shuckard, 1837**

Distribution: England, Wales

Diodontus minutus* (Fabricius, 1793)*Nomenclature:**

Crabro minutus Fabricius, 1793

franclemonti Krombein, 1939

Distribution: England, Wales, Isle of Man

Diodontus tristis* (Vander Linden, 1829)*Nomenclature:**

Pemphredon tristis Vander Linden, 1829

Distribution: England, Scotland, Wales

Genus *Passaloecus* Shuckard, 1837**Nomenclature:**

XYLOECUS Shuckard, 1837

COELOECUS Verhöff, 1890

HEROECUS Verhöff, 1890

Passaloecus clypealis* Faester, 1947*Nomenclature:**

angustus Gussakovskij, 1952

Distribution: England

***Passaloecus corniger* Shuckard, 1837**

Distribution: England, Wales

***Passaloecus eremita* Kohl, 1893**

Distribution: England

Notes: added by Richards (1980)

***Passaloecus gracilis* (Curtis, 1834)**

Nomenclature:

Diodontus gracilis Curtis, 1834

insignis misident.

turionum misident.

brevicornis Morawitz, 1864

Distribution: England

***Passaloecus insignis* (Vander Linden, 1829)**

Nomenclature:

Pemphredon insignis Vander Linden, 1829

roettgeni Verhöf, 1890

shuckardi Yasumatsu, 1934

Distribution: England, Wales

***Passaloecus monilicornis* Dahlbom, 1842**

Distribution: England, Scotland, Wales, Ireland

***Passaloecus singularis* Dahlbom, 1844**

Nomenclature:

gracilis misident.

tenuis Morawitz, 1864

gertrudis Krombein, 1938

Distribution: England, Wales

***Passaloecus turionum* Dahlbom, 1844**

Distribution: England

Notes: added by Guichard (2002)

Genus *Pemphredon* Latreille, 1796

Nomenclature:

CEMONUS Panzer, 1806
DINEURUS Westwood, 1837
CERATOPHORUS Shuckard, 1837
DIPHLEBUS Westwood, 1840
CHEVRIERIA Kohl, 1883
SUSANOWO Tsuneki, 1972

Notes: Taxonomy follows Dollfuss (1995).

Pemphredon austriaca (Kohl, 1888)

Nomenclature:

Diphlebus austriacus Kohl, 1888
enslini misident.
coracina Valkeila, 1972
tener Valkeila, 1972
nescia Merisuo, 1972

Distribution: England

Notes: Richards (1980) refers to this species as *Pemphredon enslini* (Wagner, 1932, *Dineurus*). There has been much confusion over the identities of these taxa (see Knowles in Collins and Roy 2012) but Pulawski (2013) treats *austriaca* and *enslini* as separate species.

Pemphredon inornata Say, 1824

Nomenclature:

shuckardi (Morawitz, 1864, *Cemonus*)
dentata (Puton, 1871, *Cemonus*)
tenax Fox, 1829

Distribution: England, Scotland, Wales, Ireland

Pemphredon lethifer* (Shuckard, 1837)*Nomenclature:**

Cemonus lethifer Shuckard, 1837
lethifera misspelling
austriaca misident.
strigatus (Chevrier, 1870, *Cemonus*)
fabricii (Müller, 1911, *Cemonus*)
fuscatus (Wagner, 1918, *Diphlebus*)
littoralis (Wagner, 1918, *Diphlebus*)
neglectus (Wagner, 1918, *Diphlebus*)
minutus (Wagner, 1918, *Diphlebus*)
enslini Wagner, 1931
brevipetiolata Wagner, 1932
platyura Gussakovskij, 1952
minor Gussakovskij, 1952
levinota Merisuo, 1972
nannophyes Merisuo, 1972
dispar Valkeila, 1972
gemina Valkeila, 1972
trichogastor Valkeila, 1972
?sudaorum Tsuneki, 1977

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Pemphredon lugubris* (Fabricius, 1793)*Nomenclature:**

Crabro lugubris Fabricius, 1793
concolor Say, 1824
ocellaris Gimmerthal, 1836
luctuosa Shuckard, 1837
morio Cresson, 1865 preocc.
cressoni Dalla Torre, 1897
provancheri Dalla Torre, 1897
tinctipennis Cameron, 1908

shawii Rohwer, 1917

pacifica Gussakovskij, 1932

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Pemphredon morio* Vander Linden, 1829**

Nomenclature:

anthracinus (Smith, 1851, *Ceratophorus*)

carinata Thomson, 1870

clypealis Thomson, 1870

intermedia Tsuneki, 1951

Distribution: England, Wales

***Pemphredon rugifer* (Dahlbom, 1844)**

Nomenclature:

Cemonus rugifer Dahlbom, 1844

rugifera misspelling

unicolor (Panzer, 1798, *Sphex*) preocc.

pilosa (Gimmerthal, 1836, *Cemonus*)

wesmaeli (Morawitz, 1864, *Cemonus*)

scotica Perkins, 1929

solivaga (Bondroit, 1931, *Cemonus*)

bucharicus Gussakovskij, 1952

mortifer Valkeila, 1972

punctifer Valkeila, 1972

scytica Valkeila, 1972

Distribution: England, Scotland

Genus *Spilomena* Shuckard, 1838

Nomenclature:

CELIA Shuckard, 1837 preocc.

MICROGLOSSA Rayment, 1930 preocc.

MICROGLOSSELLA Rayment, 1935

TAIALIA Tsuneki, 1971

Spilomena beata* Blüthgen, 1953*Nomenclature:**

expectata Valkeila, 1957

Distribution: England

Spilomena differens* Blüthgen, 1953*Nomenclature:**

curruca misident.

Distribution: England

Notes: Has been called *curruca* (Dahlbom, 1844, *Celia*) in several publications, following the synonymy by Dolfuss (1986), but was reinstated as a valid species by Vikberg (2000).

Spilomena curruca* (Dahlbom, 1844)*Nomenclature:**

Celia curruca Dahlbom, 1844

pulawskii Dolfuss, 1983

nikkoensis Tsuneki, 1971

Distribution: England

***Spilomena enslini* Blüthgen, 1953**

Distribution: England, Ireland

Spilomena troglodytes* (Vander Linden, 1829)*Nomenclature:**

Stigmaeus troglodytes Vander Linden, 1829

minutissimus (Radoszkowski, 1877, *Stigmaeus*)

vagans Blüthgen, 1953

Distribution: England, Scotland, Wales

Genus *Stigmaeus* Panzer, 1805**Nomenclature:**

ANTRONIUS Zetterstedt, 1838

GONOSTIGMUS Rohwer, 1911

ATOPOSTIGMUS Krombein, 1973

***Stigmus pendulus* Panzer, 1804**

Nomenclature:

ater Jurine, 1807

Distribution: England

Notes: added by Allen (1987)

***Stigmus solskyi* Morawitz, 1864**

Nomenclature:

europaeus Tsuneki, 1954

verhoeffi Tsuneki, 1954

Distribution: England, Wales

Tribe Psenini Costa, 1858

Genus *Mimesa* Shuckard, 1837

Nomenclature:

APORIA Wesmael, 1852 preocc.

APORINA Gussakovskij, 1937 preocc.

***Mimesa bicolor* (Jurine, 1807)**

Nomenclature:

Psen bicolor Jurine, 1807

equestris misident.

?*rufa* (Panzer, 1805, *Psen*)

Distribution: England

***Mimesa bruxellensis* Bondroit, 1934**

Nomenclature:

rossicus (Gussakovskij, 1937, *Psen*)

Distribution: England, Wales

Mimesa equestris* (Fabricius, 1804)*Nomenclature:**

Trypoxylon equestre Fabricius, 1804

bicolor misident.

Distribution: England, Scotland, Wales

Mimesa lutaria* (Fabricius, 1787)*Nomenclature:**

Sphex lutarius Fabricius, 1787

shuckardi Wesmael, 1852

basirufa Packard, 1867

nebrascensis Smith, 1908

dispar (Gussakovskij, 1937, *Psen*)

mallochi Finnamore, 1980

Distribution: England, Wales

Genus *Mimumesa* Malloch, 1933***Mimumesa atratina* (Morawitz, 1891)****Nomenclature:**

Mimesa atratina Morawitz, 1891

carbonaria (Tournier, 1899, *Mimesa*)

belgica (Bondroit, 1932, *Mimesa*)

longula (Gussakovskij, 1932, *Mimesa*)

sameshimai (Yasumatsu, 1937, *Psen*)

Distribution: England

Mimumesa dahlbomi* (Wesmael, 1852)*Nomenclature:**

Mimesa dahlbomi Wesmael, 1852

Distribution: England, Scotland, Wales

Mimumesa littoralis* (Bondroit, 1934)*Nomenclature:**

Mimesa littoralis Bondroit, 1934

unicolor misident.

fulvitaris (Gussakovskij, 1934, *Psen*)

fulvitaris (Gussakovskij, 1937, *Psen*) preocc.

celtica (Spooner, 1948, *Mimesa*)

Distribution: England, Wales, Ireland

Mimumesa spooneri* (Richards, 1948)*Nomenclature:**

Mimesa spooneri Richards, 1948

Distribution: England

Mimumesa unicolor* (Vander Linden, 1829)*Nomenclature:**

Psen unicolor Vander Linden, 1829

borealis (Dahlbom, 1842, *Mimesa*)

palliditarsis (Saunders, 1904, *Mimesa*)

oresterus (van Lith, 1976, *Psen*)

Distribution: England

Notes: added by Else and Felton (1994)

Genus *Psen* Latreille, 1796**Nomenclature:**

PSENIUS Rafinesque, 1815

PSENIA Stephens, 1829

DAHLBOMIA Wissmann, 1849

MESOPORA Wesmael, 1852

CAENOPSEN Cameron, 1899

Psen ater* (Olivier, 1792)*Nomenclature:**

Crabro ater Olivier, 1792

ater (Fabricius, 1794, *Sphex*) preocc.

compressicornis (Fabricius, 1804, *Pelopoeus*)

atratus (Jurine, 1807, *Psen*)

serraticornis (Jurine, 1807, *Psen*)

Distribution: England

Genus *Psenulus* Kohl, 1897**Nomenclature:**

DIODONTUS misident.

NEOFOXIA Viereck, 1901

STENOMELLINUS Schulz, 1911

EOPSENULLUS Gussakovskij, 1934

NIPPONOPSEN Yasumatsu, 1938

Notes: *Diodontus* is a misidentification by American authors in the older literature

Psenulus concolor* (Dahlbom, 1843)*Nomenclature:**

Psen concolor Dahlbom, 1843

intermedius (Schenck, 1857, *Psen*)

ambiguus (Schenck, 1857, *Psen*)

Distribution: England, Wales

Psenulus pallipes* (Panzer, 1798)*Nomenclature:**

Sphex pallipes Panzer, 1798

atratus (Fabricius, 1804, *Trypoxylon*)

montanus (Costa, 1861, *Psen*)

haemorrhoidalis (Costa, 1871, *Psen*)

minutus (Tournier, 1899, *Psen*)

chevrieri (Tournier, 1899, *Psen*)

nigricornis (Tournier, 1899, *Psen*)

pygmaeus (Tournier, 1899, *Psen*)

rubicola Harttig, 1931

brevitarsis Merisuo, 1937

Distribution: England, Wales, Ireland

***Psenulus schencki* (Tournier, 1889)**

Nomenclature:

Psen schencki Tournier, 1889

simplex (Tournier, 1899, *Psen*)

longulus (Tournier, 1899, *Psen*)

Distribution: England

Subfamily Philanthinae Latreille, 1802

Tribe Cercerini Lepeletier, 1845

Genus *Cerceris* Latreille, 1802

Nomenclature:

NECTANEBUS Spinola, 1839

DIAMMA Dahlbom, 1844

DIDESMUS Dahlbom, 1845

APIRAPTRIX Shestakov, 1923

PARACERCERIS Brèthes, 1913

BUCERCERIS Minkiewicz, 1934

STERCOBATA Gussakovskij, 1935

APICERCERIS Pate, 1937

***Cerceris arenaria* (Linnaeus, 1758)**

Nomenclature:

Sphex arenarius Linnaeus, 1758

xanthocephala (Forster, 1771, *Sphex*)

exulta (Harris, 1776, *Vespa*)

petulans (Harris, 1776, *Vespa*)

serripes (Fabricius, 1781, *Vespa*)
arenosa (Gmelin, 1790, *Vespa*)
aurita (Fabricius, 1794, *Philanthus*)
striolata Schletterer, 1887

Distribution: England, Wales

***Cerceris quadricincta* (Panzer, 1799)**

Nomenclature:

Philanthus quadricinctus Panzer, 1799
fasciata Spinola, 1806

Distribution: England

***Cerceris quinquefasciata* (Rossi, 1792)**

Nomenclature:

Crabro quinquefasciatus Rossi, 1792
interrupta misident.
nasuta Dahlbom, 1844 preocc.
subdepressa Lepeletier, 1845

Distribution: England

***Cerceris ruficornis* (Fabricius, 1793)**

Nomenclature:

Philanthus ruficornis Fabricius, 1793
labiata misident.
bidens (Schrank, 1802, *Crabro*)
cunicularia (Schrank, 1802, *Crabro*)
quadricincta (Fabricius, 1804, *Mellinus*)
trifidus (Fabricius, 1804, *Philanthus*)
?nasuta Latreille, 1809
laminifera Costa, 1867

Distribution: England

Cerceris rybyensis* (Linnaeus, 1771)*Nomenclature:**

Sphex rybyensis Linnaeus, 1771
ornata (Fabricius, 1790, *Philanthus*)
apifalco (Christ, 1791, *Sphex*)
semicincta (Panzer, 1797, *Philanthus*)
hortorum (Panzer, 1799, *Philanthus*)
variabilis (Schrank, 1802, *Crabro*)
biguttata (Thunberg, 1815, *Philanthus*)
colon (Thunberg, 1815, *Philanthus*)
kashmirensis Nurse, 1903
dittrichi Schulz, 1904
reginae Eck, 1979

Distribution: England

Cerceris sabulosa* (Panzer, 1799)*Nomenclature:**

Philanthus sabulosus Panzer, 1799
emarginata (Panzer, 1799, *Philanthus*)
tricincta (Spinola, 1805, *Philanthus*)
?pygmaea (Thunberg, 1815, *Philanthus*)
minuta Lepeletier, 1845
superba Shestakov, 1923

Distribution: England

Tribe Philanthini Latreille, 1802**Genus *Philanthus* Fabricius, 1790****Nomenclature:**

SYMBLEPHILUS Panzer, 1806
SIMBLEPHILUS Jurine, 1807
CHEILOPOGONUS Westwood, 1835
ANTHOPHILUS Dahlbom, 1844

EPHIPHILANTHUS Ashmead, 1899

PSEUDOPHILANTHUS Ashmead, 1899

OCLOCLETES Banks, 1913

***Philanthus triangulum* (Fabricius, 1775)**

Nomenclature:

Vespa triangulum Fabricius, 1775

ruspatrix (Linnaeus, 1767, *Vespa*) nom. ob.

fasciatus (Geoffroy, 1785, *Vespa*)

maculatus (Christ, 1791, *Sphex*)

limbatus (Olivier, 1792, *Vespa*)

androgynus (Rossi, 1792, *Crabro*)

pictus Panzer, 1797

discolor Panzer, 1799

apivorus Latreille, 1799

allionii Dahlbom, 1845

Distribution: England, Wales

Family Sphecidae Latreille, 1802

Subfamily Ammophilinae André, 1886

Genus *Ammophila* Kirby, 1798

Nomenclature:

SPHEX misident.

MISCUS Jurine, 1807

COLOPTERA Latreille, 1845

ARGYRAMMOPHILA Gussakovskij, 1928

APYCNEMIA Leclercq, 1961

***Ammophila pubescens* Curtis, 1836**

Nomenclature:

campestris misident.

arvensis (Dahlbom, 1843, *Miscus*)

susterae Šnoflak, 1943

adriaansei Wilcke, 1945

Distribution: England, Wales

***Ammophila sabulosa* (Linnaeus, 1758)**

Nomenclature:

Sphex sabulosus Linnaeus, 1758

hortensis (Poda, 1761, *Sphex*)

frischii (Geoffroy, 1785, *Ichneumon*)

dimidiata (Christ, 1791, *Sphex*) preocc.

vulgaris Kirby, 1798

pulvillata Sowerby, 1805

mucronata (Jurine, 1807, *Sphex*)

cyanescens Dahlbom, 1845

?*vischu* Cameron, 1889

kamtschatica Gussakovskij, 1932

Distribution: England, Scotland, Wales, Ireland

Genus *Podalonia* Fernald, 1927

Nomenclature:

PSAMMOPHILA Dahlbom, 1842 preocc.

PODALONIA Spinola, 1853 suppressed

***Podalonia affinis* (Kirby, 1798)**

Nomenclature:

Ammophila affinis Kirby, 1798

lutaria misident.

ariasii (Mercet, 1906, *Ammophila*)

Distribution: England, Wales

***Podalonia hirsuta* (Scopoli, 1763)**

Nomenclature:

Sphex hirsutus Scopoli, 1763

viatica misident.

arenaria (Fabricius, 1787, *Sphex*) preocc.

arenosa (Gmelin, 1790, *Sphex*)

argentea (Kirby, 1798, *Ammophila*)

Distribution: England, Wales

Infraorder Anthophila Latreille, 1804

Notes: Engel (2005) proposed that the informal name Anthophila, without formal rank, be used for the bees (here denoted as an 'infraorder' due to restrictions in the available fields). Note that 'apiformes' and the corresponding 'sphexiformes') is an equivalent term proposed by Brothers (1975)

Family Andrenidae Latreille, 1802

Subfamily Andreninae Latreille, 1802

Genus *Andrena* Fabricius, 1775

Notes: Taxonomy mostly follows Gusenleitner and Schwarz (2002).

Subgenus *Andrena* Fabricius, 1775

Nomenclature:

ANTHRENA Illiger, 1801

ANTHOCHARESSA Gistel, 1850

***Andrena (Andrena) apicata* Smith, 1847**

Distribution: England, Wales, Ireland

***Andrena (Andrena) clarkella* (Kirby, 1802)**

Nomenclature:

Melitta clarkella Kirby, 1802

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Andrena (Andrena) fucata* Smith, 1847**

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Andrena (Andrena) fulva* (Müller, 1766)*Nomenclature:**

Apis fulva Müller, 1766

armata (Gmelin, 1790, *Apis*)

Distribution: England, Scotland, Wales, Ireland

Andrena (Andrena) helvola* (Linnaeus, 1758)*Nomenclature:**

Apis helvola Linnaeus, 1758

subdentata (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales

***Andrena (Andrena) lapponica* Zetterstedt, 1838**

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Andrena (Andrena) praecox* (Scopoli, 1763)*Nomenclature:**

Apis praecox Scopoli, 1763

smithella (Kirby, 1802, *Melitta*)

clypeata Smith, 1855 preocc.

Distribution: England, Wales, Ireland

Andrena (Andrena) synadelpha* Perkins, 1914*Nomenclature:**

ambigua Perkins, 1895, preocc.

Distribution: England, Scotland, Wales

Andrena (Andrena) varians* (Kirby, 1802)*Nomenclature:**

Melitta varians Kirby, 1802

varians (Rossius, 1792, *Apis*): misident.

angulosa (Kirby, 1802, *Melitta*)

Distribution: England, Wales

Subgenus *Charitandrena* Hedicke, 1933***Andrena (Charitandrena) hattorfiana* (Fabricius, 1775)****Nomenclature:**

Nomada hattorfiana Fabricius, 1775

lathamana (Kirby, 1802, *Melitta*)

Distribution: England, Wales

Subgenus *Chlorandrena* Pérez, 1890***Andrena (Chlorandrena) humilis* Imhoff, 1832****Nomenclature:**

fulvescens Smith, 1847

Distribution: England, Wales, Isle of Man

Subgenus *Chrysandrena* Hedicke, 1933***Andrena (Chrysandrena) fulvago* (Christ, 1791)****Nomenclature:**

Apis fulvago Christ, 1791

constricta Smith, 1849

Distribution: England, Wales

Subgenus *Cnemidandrena* Hedicke, 1933***Andrena (Cnemidandrena) denticulata* (Kirby, 1802)****Nomenclature:**

Melitta denticulata Kirby, 1802

listerella (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Andrena (Cnemidandrena) fuscipes* (Kirby, 1802)*Nomenclature:**

Melitta fuscipes Kirby, 1802

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Andrena (Cnemidandrena) nigriceps* (Kirby, 1802)**

Nomenclature:

Melitta nigriceps Kirby, 1802

lanifrons (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales

***Andrena (Cnemidandrena) simillima* Smith, 1851**

Distribution: England

***Andrena (Cnemidandrena) tridentata* (Kirby, 1802)**

Nomenclature:

Melitta tridentata Kirby, 1802

rufitarsis (Kirby, 1802, *Melitta*)

Distribution: England

Notes: Probably extinct in Britain.

Subgenus *Euandrena* Hedicke, 1933

Nomenclature:

XANTHANDRENA Lanham, 1949

GEANDRENA LaBerge, 1964

***Andrena (Euandrena) bicolor* Fabricius, 1775**

Nomenclature:

pivicornis (Kirby, 1802, *Melitta*)

pilosula (Kirby, 1802, *Melitta*)

gwynana (Kirby, 1802, *Melitta*)

proxima Smith, 1847 preocc.

aestiva Smith, 1849

consimilis Smith, 1849 preocc.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Andrena (Euandrena) ruficrus* Nylander, 1848**

Distribution: England, Scotland

Subgenus *Holandrena* Pérez, 1890***Andrena (Holandrena) labialis* (Kirby, 1802)**

Nomenclature:

Melitta labialis Kirby, 1802

separata Smith, 1847

Distribution: England, Wales, Isle of Man

Subgenus *Hoplandrena* Pérez, 1890***Andrena (Hoplandrena) bucephala* Stephens, 1846**

Nomenclature:

eximia Smith, 1847

longipes Smith, 1847

Distribution: England, Wales

***Andrena (Hoplandrena) ferox* Smith, 1847**

Nomenclature:

distincta Smith, 1847

Distribution: England

***Andrena (Hoplandrena) rosae* Panzer, 1801**

Nomenclature:

eximia misident.

zonalis (Kirby, 1802, *Melitta*)

stragulata Illiger, 1806

strangulata misspelling

Distribution: England, Wales, Ireland

Notes: *stragulata* is the summer brood of *rosae*

Andrena (Hoplandrena) scotica* Perkins, 1916*Nomenclature:**

carantonica misident.

jacobi Perkins, 1921

johnsoni Perkins, 1921

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: Although usually referred to as *scotica* in Britain (e.g. Else et al. 2004), Schwarz et al. (1996) and Gusenleitner and Schwarz (2002) have treated *scotica* as a synonym of *carantonica* Pérez, 1916; however, Else (in prep.), following P. Westrich's (in lit.) interpretation of the type of *carantonica*, regards this as a separate species, with *carantonica* a junior synonym of *trimmerana*.

Andrena (Hoplandrena) trimmerana* (Kirby, 1802)*Nomenclature:**

Melitta trimmerana Kirby, 1802

spinigera (Kirby, 1802, *Melitta*)

carantonica Pérez, 1916

Distribution: England, Wales

Subgenus *Leucandrena* Hedicke, 1933***Andrena (Leucandrena) argentata* Smith, 1844**

Distribution: England

Andrena (Leucandrena) barbilabris* (Kirby, 1802)*Nomenclature:**

Melitta barbilabris Kirby, 1802

sericea (Christ, 1791, *Apis*) preocc.

albicus (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Margandrena* Warncke, 1968***Andrena (Margandrena) marginata* Fabricius, 1776****Nomenclature:***cetii* (Schränk, 1781, *Apis*)*schränkella* (Kirby, 1802, *Melitta*)*frontalis* Smith, 1849**Distribution:** England, Scotland, Wales, Ireland**Subgenus *Melandrena* Pérez, 1890****Nomenclature:***GYMNANDRENA* Hedicke, 1933*CRYPTANDRENA* Lanham, 1949 preocc.*BYTHANDRENA* Lanham, 1950***Andrena (Melandrena) cineraria* (Linnaeus, 1758)****Nomenclature:***Apis cineraria* Linnaeus, 1758**Distribution:** England, Scotland, Wales, Ireland, Isle of Man***Andrena (Melandrena) nigroaenea* (Kirby, 1802)****Nomenclature:***Melitta nigroaenea* Kirby, 1802*aprilina* Smith, 1848**Distribution:** England, Scotland, Wales, Ireland, Isle of Man**Notes:** The population on the Isles of Scilly and Channel Islands has been described as the subspecies *sarnia* Richards, 1979.***Andrena (Melandrena) nitida* (Müller, 1776)****Nomenclature:***Apis nitida* Müller, 1776*pubescens* Olivier, 1789*consimilis* Smith, 1847

Distribution: England, Wales, Ireland

***Andrena (Melandrena) thoracica* (Fabricius, 1775)**

Nomenclature:

Apis thoracica Fabricius, 1775

melanocephala (Kirby, 1802, *Melitta*)

Distribution: England, Wales

***Andrena (Melandrena) vaga* Panzer, 1799**

Distribution: England

Notes: Probably extinct in Britain.

Subgenus *Micrandrena* Ashmead, 1899

Nomenclature:

ANDRENELLA Hedicke, 1933

***Andrena (Micrandrena) alfkenella* Perkins, 1914**

Nomenclature:

moricella Perkins, 1914

Distribution: England

***Andrena (Micrandrena) falsifica* Perkins, 1915**

Distribution: England

***Andrena (Micrandrena) floricola* Eversmann, 1852**

Notes: Probably extinct in Britain.

***Andrena (Micrandrena) minutula* (Kirby, 1802)**

Nomenclature:

Melitta minutula Kirby, 1802

parvula (Kirby, 1802, *Melitta*)

nigrifrons Smith, 1855 preocc.

Distribution: England, Wales, Ireland

Andrena (Micrandrena) minutuloides* Perkins, 1914*Nomenclature:**

parvuloides Perkins, 1914

Distribution: England

Andrena (Micrandrena) nana* (Kirby, 1802)*Nomenclature:**

Melitta nana Kirby, 1802

Distribution: England

Notes: Probably extinct in Britain.

***Andrena (Micrandrena) nanula* Nylander, 1848**

Notes: Probably extinct in Britain.

Andrena (Micrandrena) niveata* Friese, 1887*Nomenclature:**

spretta misident.

Distribution: England, Wales

Andrena (Micrandrena) semilaevis* Pérez, 1903*Nomenclature:**

nana misident.

saundersella Perkins, 1914

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Andrena (Micrandrena) subopaca* Nylander, 1848**

Distribution: England, Scotland, Wales, Ireland

Subgenus *Notandrena* Pérez, 1890***Andrena (Notandrena) chrysoceles* (Kirby, 1802)****Nomenclature:**

Melitta chrysoceles Kirby, 1802

connectens (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales

***Andrena (Notandrena) nitidiuscula* Schenck, 1853**

Nomenclature:

lucens Imhoff, 1868

Distribution: England

Subgenus *Oreomelissa* Hirashima & Tadauchi, 1975

***Andrena (Oreomelissa) coitana* (Kirby, 1802)**

Nomenclature:

Melitta coitana Kirby, 1802

shawella (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Plastandrena* Hedicke, 1933

Nomenclature:

SCHIZANDRENA Hedicke, 1933

GLYPHANDRENA Hedicke, 1933

MITSUKURIELLA Hirashima & LaBerge, 1965

MITSUKURIAPIIS Hirashima, LaBerge & Ikudomem 1884

***Andrena (Plastandrena) bimaculata* (Kirby, 1802)**

Nomenclature:

Melitta bimaculata Kirby, 1802

articulata Smith, 1847

conjuncta Smith, 1847

decorata Smith, 1847

vitrea Smith, 1847

Distribution: England, Wales

***Andrena (Plastandrena) nigrospina* Thomson, 1872**

Distribution: England

Notes: Although treated as a synonym of *pilipes* by Gusenleitner and Schwarz (2002) here *nigrospina* is treated as a valid species, following Baker (1994).

***Andrena (Plastandrena) pilipes* Fabricius, 1781**

Nomenclature:

carbonaria misident.

spectabilis Smith, 1853

praetexta Smith, 1872

Distribution: England

***Andrena (Plastandrena) tibialis* (Kirby, 1802)**

Nomenclature:

Melitta tibialis Kirby, 1802

mouffetella (Kirby, 1802, *Melitta*)

atriceps (Kirby, 1802, *Melitta*)

Distribution: England

Subgenus *Poecilandrena* Hedicke, 1933***Andrena (Poecilandrena) labiata* Fabricius, 1781**

Nomenclature:

cingulata misident.

Distribution: England, Wales, Ireland

Subgenus *Poliandrena* Warncke, 1968***Andrena (Poliandrena) florea* Fabricius, 1793**

Nomenclature:

rubricata Smith, 1847

Distribution: England

***Andrena (Poliandrena) polita* Smith, 1847**

Distribution: England

Notes: Probably extinct in Britain.

Subgenus *Proxiandrena* Schmid-Egger, 2005***Andrena (Proxiandrena) proxima* (Kirby, 1802)**

Nomenclature:

Melitta proxima Kirby, 1802

digitalis (Kirby, 1802, *Melitta*)

Distribution: England, Wales

Subgenus *Ptilandrena* Robertson, 1902

Nomenclature:

EREMANDRENA LaBerge, 1964

***Andrena (Ptilandrena) angustior* (Kirby, 1802)**

Nomenclature:

Melitta angustior Kirby, 1802

lacinia Smith, 1847

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Simandrena* Pérez, 1890

Nomenclature:

PLATANDRENA Viereck, 1924

STENANDRENA Timberlake, 1949

***Andrena (Simandrena) congruens* Schmiedeknecht, 1884**

Nomenclature:

confinis Stöckhert, 1930

Distribution: England, Wales

Andrena (Simandrena) dorsata* (Kirby, 1802)*Nomenclature:**

Melitta dorsata Kirby, 1802

collinsonana (Kirby, 1802, *Melitta*)

lewinella (Kirby, 1802, *Melitta*)

nudiuscula (Kirby, 1802, *Melitta*)

subincana (Kirby, 1802, *Melitta*)

Distribution: England, Wales

***Andrena (Simandrena) lepida* Schenck, 1861**

Distribution: England

Notes: Probably extinct in Britain.

Subgenus *Taeniandrena* Hedicke, 1933***Andrena (Taeniandrena) lathyri* Alfken, 1899**

Distribution: England

Andrena (Taeniandrena) ovatula* (Kirby, 1802)*Nomenclature:**

Melitta ovatula Kirby, 1802

afzeliella (Kirby, 1802, *Melitta*)

barbata (Kirby, 1802, *Melitta*)

fuscata (Kirby, 1802, *Melitta*)

picipes (Kirby, 1802, *Melitta*)

albofasciata Thomson, 1870

Distribution: England, Wales

Andrena (Taeniandrena) similis* Smith, 1849*Nomenclature:**

?ocreata Christ, 1791 nom. dub.

Distribution: England, Scotland, Wales

Andrena (Taeniandrena) wilkella* (Kirby, 1802)*Nomenclature:**

Melitta wilkella Kirby, 1802

barbatula (Kirby, 1802, *Melitta*)

convexiuscula (Kirby, 1802, *Melitta*)

xanthura (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Tarsandrena* Osytshnjuk, 1984***Andrena (Tarsandrena) tarsata* Nylander, 1848****Nomenclature:**

analis misident.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Trachandrena* Robertson, 1902***Andrena (Trachandrena) haemorrhoea* (Fabricius, 1781)****Nomenclature:**

Apis haemorrhoea Fabricius, 1781

albicans misident.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Zonandrena* Hedicke, 1933***Andrena (Zonandrena) flavipes* Panzer, 1799****Nomenclature:**

contigua (Kirby, 1802, *Melitta*)

fulvicrus (Kirby, 1802, *Melitta*)

extricata Smith, 1849

Distribution: England, Wales, Ireland

Andrena (Zonandrena) gravaida* Imhoff, 1832*Nomenclature:**

fasciata Nylander, 1852 preocc.

picicrus Schenck, 1853

Distribution: England

Subfamily Panurginae Leach, 1815**Tribe Panurgini Leach, 1815****Genus *Panurgus* Panzer, 1806*****Panurgus banksianus* (Kirby, 1802)****Nomenclature:**

Apis banksiana Kirby, 1802

ursinus misident.

Distribution: England, Wales

Panurgus calcaratus* (Scopoli, 1763)*Nomenclature:**

Apis calcarata Scopoli, 1763

linnaeella (Kirby, 1802, *Apis*)

Distribution: England, Wales

Family Apidae Latreille, 1802

Subfamily Apinae Latreille, 1802

Tribe Anthophorini Dahlbom, 1835

Genus *Anthophora* Latreille, 1803

Subgenus *Anthophora* Latreille, 1803

***Anthophora (Anthophora) plumipes* (Pallas, 1772)**

Nomenclature:

Apis plumipes Pallas, 1772

acervorum misident.

pilipes (Fabricius, 1775, *Apis*)

Distribution: England, Wales

Subgenus *Clisodon* Patton, 1879

***Anthophora (Clisodon) furcata* (Panzer, 1798)**

Nomenclature:

Apis furcata Panzer, 1798

Distribution: England, Scotland, Wales

Subgenus *Dasymegilla* Brooks, 1988

***Anthophora (Dasymegilla) quadrimaculata* (Panzer, 1798)**

Nomenclature:

Apis quadrimaculata Panzer, 1798

subglobosa (Kirby, 1802, *Apis*)

Distribution: England, Wales

Subgenus *Heliophila* Klug, 1807

Nomenclature:

SAROPODA Latreille, 1809

Anthophora (Heliophila) bimaculata* (Panzer, 1798)*Nomenclature:**

Apis bimaculata Panzer, 1798

Distribution: England, Ireland

Subgenus *Pyganthophora* Brooks, 1988***Anthophora (Pyganthophora) retusa* (Linnaeus, 1758)****Nomenclature:**

Apis retusa Linnaeus, 1758

haworthana (Kirby, 1802, *Apis*)

pennipes (Kirby, 1802, *Apis*)

Distribution: England

Tribe Apini Latreille, 1802**Genus *Apis* Linnaeus, 1758*****Apis mellifera* Linnaeus, 1758****Nomenclature:**

mellifica Linnaeus, 1761

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: There have been various subspecies names proposed for honey bees, with the supposedly native north west European population being *A. mellifera mellifera*. See Engel (1999) for a full taxonomy of *Apis mellifera*.

Tribe Bombini Latreille, 1802**Genus *Bombus* Latreille, 1802**

Notes: Various subspecific names have been used for British *Bombus* but these are generally poorly justified and we have treated these as synonymous here. Subgeneric classification follows Williams et al. (2008).

Subgenus *Bombus* Latreille, 1802**Nomenclature:**

TERRESTRIBOMBUS Vogt, 1911

Notes: Full synonymy for this subgenus is given by Williams et al. (2012), who shed some light on the confusing classification of *cryptarum* and *magnus* relative to *lucorum*.

Bombus (Bombus) cryptarum* (Fabricius, 1775)*Nomenclature:**

Apis cryptarum Fabricius, 1775

Distribution: Scotland, Ireland

Notes: added by Bertsch et al. (2005)

Bombus (Bombus) lucorum* (Linnaeus, 1761)*Nomenclature:**

Apis lucorum Linnaeus, 1761

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Bombus (Bombus) magnus* Vogt, 1911**

Distribution: Scotland, Ireland

Bombus (Bombus) terrestris* (Linnaeus, 1758)*Nomenclature:**

Apis terrestris Linnaeus, 1758

audax (Harris, 1776, *Apis*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Cullumanobombus* Vogt, 1911***Bombus (Cullumanobombus) cullumanus* (Kirby, 1802)****Nomenclature:**

Apis cullumana Kirby, 1802

Distribution: England

Notes: Extinct in Britain since the 1940s.

Subgenus *Kallobombus* Dalla Torre, 1880***Bombus (Kallobombus) soroensis* (Fabricius, 1777)****Nomenclature:***Apis soroensis* Fabricius, 1777**Distribution:** England, Scotland, Wales**Subgenus *Megabombus* Dalla Torre, 1880****Nomenclature:***HORTOBOMBUS* Vogt, 1911***Bombus (Megabombus) hortorum* (Linnaeus, 1761)****Nomenclature:***Apis hortorum* Linnaeus, 1761*?flavonigrescens* Smith, 1846*ivernicus* Sladen, 1912*splendida* Stelfox, 1938**Distribution:** England, Scotland, Wales, Ireland, Isle of Man**Notes:** Populations in Ireland have been referred to the subspecies *B. hortorum ivernicus*.***Bombus (Megabombus) ruderatus* (Fabricius, 1775)****Nomenclature:***Apis ruderata* Fabricius, 1775*perniger* (Harris, 1776, *Apis*)*harrisellus* (Kirby, 1802, *Apis*)*tunstallanus* (Kirby, 1802, *Apis*)**Distribution:** England**Notes:** English populations have been referred to the subspecies *B. ruderatus perniger*.**Subgenus *Melanobombus* Dalla Torre, 1880****Nomenclature:***LAPIDARIOBOMBUS* Vogt, 1911

Bombus (Melanobombus) lapidarius* (Linnaeus, 1758)*Nomenclature:**

Apis lapidaria Linnaeus, 1758

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Psithyrus* Lepeletier, 1832**Nomenclature:**

ALLOPSITHYRUS Popov, 1931

ASHTONIPSITHYRUS Frison, 1927

FERNALDAEPSITHYRUS Frison, 1927

METAPSITHYRUS Popov, 1931

Bombus (Psithyrus) barbutellus* (Kirby, 1802)*Nomenclature:**

Apis barbutella Kirby, 1802

Distribution: England, Scotland, Wales, Ireland

Bombus (Psithyrus) bohemicus* (Seidl, 1837)*Nomenclature:**

Apis bohemicus Seidl, 1837

distinctus (Pérez, 1884, *Psithyrus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Bombus (Psithyrus) campestris* (Panzer, 1801)*Nomenclature:**

Apis campestris Panzer, 1801

rossiellus (Kirby, 1802, *Apis*)

leanus (Kirby, 1802, *Apis*)

francisanus (Kirby, 1802, *Apis*)

swynnertoni (Richards, 1936, *Psithyrus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: Populations in Western Scotland have been referred to the subspecies *B. campestris swynnertoni*.

Bombus (Psithyrus) rupestris* (Fabricius, 1793)*Nomenclature:***Apis rupestris* Fabricius, 1793*albinellus* (Kirby, 1802, *Apis*)**Distribution:** England, Wales, Ireland***Bombus (Psithyrus) sylvestris* (Lepeletier, 1832)****Nomenclature:***Psithyrus sylvestris* Lepeletier, 1832*quadricolor* misident.**Distribution:** England, Scotland, Wales, Ireland***Bombus (Psithyrus) vestalis* (Geoffroy, 1785)****Nomenclature:***Apis vestalis* Geoffroy, 1785**Distribution:** England, Scotland, Wales, Ireland**Subgenus *Pyrobombus* Dalla Torre, 1880****Nomenclature:***PRATOBOMBUS* Vogt, 1911***Bombus (Pyrobombus) hypnorum* (Linnaeus, 1758)****Nomenclature:***Apis hypnorum* Linnaeus, 1758**Distribution:** England, Scotland, Wales**Notes:** added by Goulson and Williams (2001)***Bombus (Pyrobombus) jonellus* (Kirby, 1802)****Nomenclature:***Apis jonella* Kirby, 1802*nivalis* misident.*scrimshiranus* (Kirby, 1802, *Apis*)*atrocorbiculosus* Vogt, 1911

hebridensis Wild, 1931

vogtii Richards, 1933 preocc.

monapiae Kruseman, 1953

vogtianus Rasmont, 1983

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: The following populations have been given subspecies names: *B. jonellus hebridensis* on the Hebrides; *B. jonellus monapiae* on the Isle of Man; *B. jonellus vogtianus* on the Shetlands (*vogtianus* is a replacement name for the preoccupied *vogtii*).

***Bombus (Pyrobombus) monticola* Smith, 1849**

Nomenclature:

lapponicus misident.

scoticus Pittioni, 1942

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Bombus (Pyrobombus) pratorum* (Linnaeus, 1761)**

Nomenclature:

Apis pratorum Linnaeus, 1761

subinterruptus (Kirby, 1802, *Apis*)

donovanella (Kirby, 1802, *Apis*)

burrellana (Kirby, 1802, *Apis*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Subterraneobombus* Vogt, 1911

***Bombus (Subterraneobombus) distinguendus* Morawitz, 1869**

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Bombus (Subterraneobombus) subterraneus* (Linnaeus, 1758)**

Nomenclature:

Apis subterranea Linnaeus, 1758

collinus Smith, 1844

latreillellus (Kirby, 1802, *Apis*)

Distribution: England, Wales

Notes: Extinct in Britain since the 1980s but an attempt is being made to reintroduce the species to southern England. British populations have been referred to the subspecies *B. subterraneus latreillellus* whereas the introduced individuals from Sweden have been ascribed to the nominate subspecies.

Subgenus *Thoracobombus* Dalla Torre, 1880

Nomenclature:

POMOBOMBUS Krüger, 1917

***Bombus (Thoracobombus) humilis* Illiger, 1806**

Nomenclature:

solstitialis Panzer, 1806

helferanus Seidl, 1837

venustus Smith, 1876 preocc.

anglicus Yarrow, 1978

Distribution: England, Scotland, Wales, Isle of Man

***Bombus (Thoracobombus) muscorum* (Linnaeus, 1758)**

Nomenclature:

Apis muscorum Linnaeus, 1758

arcticus misident.

smithianus misident.

pallidus Evans, 1901 preocc.

laevis Vogt, 1909

sladeni Vogt, 1911

allenellus Stelfox, 1933

orcadensis Richards, 1935

scyllonius Richards, 1935

celticus Yarrow, 1978

agricolae Baker, 1996

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: The following populations have been given subspecies names: *B. muscorum sladeni* on the Irish mainland and southern England; *B. muscorum allenellus* on the

Aran islands; *B. muscorum orcadensis* on Orkney; *B. muscorum scyllonius* on the Isles of Scilly; *B. muscorum celticus* in mainland Scotland and Northern England; *B. muscorum agricolae* on the Shetland islands.

***Bombus (Thoracobombus) pascuorum* (Scopoli, 1763)**

Nomenclature:

Apis pascuorum Scopoli, 1763
vulgo (Harris, 1776, *Apis*)
agrorum (Fabricius, 1787, *Apis*) preocc.
floralis (Gmelin, 1790, *Apis*)
francillonellus (Kirby, 1802, *Apis*)
sowerbianus (Kirby, 1802, *Apis*)
beckwithella (Kirby, 1802, *Apis*)
curtisellus (Kirby, 1802, *Apis*)
forsterellus (Kirby, 1802, *Apis*)
cognatus Stevens, 1846
smithianus White, 1851
septentrionalis Vogt, 1909

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: The following populations have been given subspecies names: *B. pascuorum vulgo* in southern England and Wales; *B. pascuorum floralis* in Ireland; *B. pascuorum septentrionalis* in Scotland and Northern England.

***Bombus (Thoracobombus) ?pomorum* (Panzer, 1805)**

Nomenclature:

Bremus pomorum Panzer, 1805

Distribution: England

Notes: There is confusion surrounding the dates of capture of the supposedly British specimens of *pomorum*, collected near Deal in Kent (summarised by Alford 1975).

***Bombus (Thoracobombus) ruderarius* (Müller, 1776)**

Nomenclature:

Apis ruderaria Müller, 1776
derhamellus (Kirby, 1802, *Apis*)

raiellus (Kirby, 1802, *Apis*)

Distribution: England, Scotland, Wales, Ireland

***Bombus (Thoracobombus) sylvarum* (Linnaeus, 1761)**

Nomenclature:

Apis sylvarum Linnaeus, 1761

nigrescens Pérez, 1879

distinctus Vogt, 1909

Distribution: England, Scotland, Wales, Ireland

Tribe Eucerini Latreille, 1802

Genus *Eucera* Scopoli, 1770

Subgenus *Eucera* Scopoli, 1770

***Eucera (Eucera) longicornis* (Linnaeus, 1758)**

Nomenclature:

Apis longicornis Linnaeus, 1758

linguaria (Fabricius, 1775, *Apis*)

Distribution: England, Wales

***Eucera (Eucera) nigrescens* Pérez, 1879**

Nomenclature:

tuberculata misident. [?]

Distribution: England

Notes: Probably extinct in Britain.

Tribe Melectini Westwood, 1840

Genus *Melecta* Latreille, 1802

***Melecta albifrons* (Forster, 1771)**

Nomenclature:

Apis albifrons Forster, 1771

punctata (Fabricius, 1775, *Apis*)

armata (Panzer, 1799, *Andrena*) preocc.

Distribution: England, Wales

***Melecta luctuosa* (Scopoli, 1770)**

Nomenclature:

Apis luctuosa Scopoli, 1770

Distribution: England

Notes: Probably extinct in Britain.

Subfamily Nomadinae Latreille, 1802

Tribe Epeolini Roberston, 1903

Genus *Epeolus* Latreille, 1802

***Epeolus cruciger* (Panzer, 1799)**

Nomenclature:

Nomada crucigera Panzer, 1799

rufipes Thomson, 1870

Distribution: England, Wales

***Epeolus variegatus* (Linnaeus, 1758)**

Nomenclature:

Apis variegata Linnaeus, 1758

notatus misident.

productus Thomson, 1870

Distribution: England, Wales, Scotland, Isle of Man

Tribe Nomadini Latreille, 1802**Genus *Nomada* Scopoli, 1763*****Nomada argentata* Herrich-Schäffer, 1839****Nomenclature:**

atrata Smith, 1846

Distribution: England, Ireland

Nomada armata* Herrich-Schäffer, 1839*Nomenclature:**

kirbyella Stephens, 1846

Distribution: England, Wales

Nomada baccata* Smith, 1844*Nomenclature:**

alboguttata misident.

Distribution: England

***Nomada conjungens* Herrich-Schäffer, 1839**

Distribution: England

***Nomada errans* Lepeletier, 1841**

Distribution: England

Nomada fabriciana* (Linnaeus, 1767)*Nomenclature:**

Apis fabriciana Linnaeus, 1767

fabriciella (Kirby, 1802, *Apis*)

quadrinotata (Kirby, 1802, *Apis*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada ferruginata* (Linnaeus, 1767)*Nomenclature:**

Apis ferruginata Linnaeus, 1767

lateralis misident.

xanthosticta (Kirby, 1802, *Apis*)

bridgmaniana Smith, 1876

Distribution: England, Scotland, Wales

***Nomada flava* Panzer, 1798**

Distribution: England, Wales, Ireland

Nomada flavoguttata* (Kirby, 1802)*Nomenclature:**

Apis flavoguttata Kirby, 1802

rufocincta (Kirby, 1802, *Apis*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada flavopicta* (Kirby, 1802)*Nomenclature:**

Apis flavopicta Kirby, 1802

jacobaeae misident. [?]

Distribution: England, Wales

***Nomada fucata* Panzer, 1798**

Distribution: England, Wales

Nomada fulvicornis* Fabricius, 1793*Nomenclature:**

lineola Panzer, 1798

sexcincta (Kirby, 1802, *Apis*)

caprea (Kirby, 1802, *Apis*)

cornigera (Kirby, 1802, *Apis*)

subcornuta (Kirby, 1802, *Apis*)

Distribution: England, Wales

***Nomada goodeniana* (Kirby, 1802)**

Nomenclature:

Apis goodeniana Kirby, 1802

succincta misident.

alternata (Kirby, 1802, *Apis*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Nomada guttulata* Schenck, 1861**

Distribution: England

***Nomada hirtipes* Pérez, 1884**

Nomenclature:

bucephalae Perkins, 1917

Distribution: England, Wales

***Nomada integra* Brullé, 1832**

Nomenclature:

ferruginata misident.

germanica misident.

pleurosticta misident.

stigma misident.

cinctiventris Friese, 1921

Distribution: England, Wales

***Nomada lathburiana* (Kirby, 1802)**

Nomenclature:

Apis lathburiana Kirby, 1802

rufiventris (Kirby, 1802, *Apis*)

Distribution: England, Wales

Nomada leucophthalma* (Kirby, 1802)*Nomenclature:**

Apis leucophthalma Kirby, 1802

borealis Zetterstedt, 1838

inquilina Smith, 1844

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada marshamella* (Kirby, 1802)*Nomenclature:**

Apis marshamella Kirby, 1802

alternata misident.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada obtusifrons* Nylander, 1848*Nomenclature:**

mistura Smith, 1851

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada panzeri* Lepeletier, 1841*Nomenclature:**

ruficornis misident.

Distribution: England, Scotland, Wales, Ireland

Nomada roberjeotiana* Panzer, 1799*Nomenclature:**

tormentillae Alfken, 1901

Distribution: England, Scotland, Wales, Isle of Man

Nomada ruficornis* (Linnaeus, 1758)*Nomenclature:**

Apis ruficornis Linnaeus, 1758

bifida Thomson, 1872

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada rufipes* Fabricius, 1793*Nomenclature:**

solidaginis misident.

picta (Kirby, 1802, *Apis*)

rufopicta (Kirby, 1802, *Apis*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Nomada sexfasciata* Panzer, 1799*Nomenclature:**

connexa (Kirby, 1802, *Apis*)

schaeffarella (Kirby, 1802, *Apis*)

Distribution: England

Nomada sheppardana* (Kirby, 1802)*Nomenclature:**

Apis sheppardana Kirby, 1802

furva misident.

dalii Curtis, 1832

Distribution: England, Wales

***Nomada signata* Jurine, 1807**

Distribution: England, Wales

Nomada striata* Fabricius, 1793*Nomenclature:**

hillana (Kirby, 1802, *Apis*)

ochrostoma (Kirby, 1802, *Apis*)

vidua Smith, 1844

Distribution: England, Scotland, Wales, Ireland

Subfamily Xylocopinae Latreille, 1802**Tribe Ceratinini Latreille, 1802****Genus *Ceratina* Latreille, 1802****Subgenus *Euceratina* Hirashima, Moure & Daly, 1971*****Ceratina (Euceratina) cyanea* (Kirby, 1802)****Nomenclature:**

Apis cyanea Kirby, 1802

Distribution: England

Tribe Xylocopini Latreille, 1802**Genus *Xylocopa* Latreille, 1809****Subgenus *Xylocopa* Latreille, 1809*****Xylocopa (Xylocopa) violacea* (Linnaeus, 1758)****Nomenclature:**

Apis violacea Linnaeus, 1758

Distribution: England

Family Colletidae Lepeletier, 1841**Subfamily Colletinae Lepeletier, 1841****Genus *Colletes* Latreille, 1802*****Colletes cunicularius* (Linnaeus, 1761)****Nomenclature:**

Apis cunicularia Linnaeus, 1761

Distribution: England, Wales

Notes: The British population has been described as a separate subspecies, *C. cunicularius celticus* O'Toole, 1974, and Else, Field & O'Toole (in Edwards 1997) suggest that the British population may be specifically distinct.

***Colletes daviesanus* Smith, 1846**

Distribution: England, Scotland, Wales, Ireland

***Colletes floralis* Eversmann, 1852**

Nomenclature:

montanus Morawitz, 1876

Distribution: England, Scotland, Ireland

***Colletes fodiens* (Geoffroy, 1785)**

Nomenclature:

Apis fodiens Geoffroy, 1785

Distribution: England, Scotland, Wales

***Colletes halophilus* Verhoeff, 1944**

Distribution: England

***Colletes hederæ* Schmidt & Westrich, 1993**

Distribution: England

Notes: added by Cross (2002)

***Colletes marginatus* Smith, 1846**

Distribution: England, Wales

***Colletes similis* Schenck, 1853**

Nomenclature:

picistigma Thomson, 1872

Distribution: England, Wales, Ireland, Isle of Man

Colletes succinctus* (Linnaeus, 1758)*Nomenclature:**

Apis succincta Linnaeus, 1758

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subfamily Hylaeinae Viereck, 1916**Genus *Hylaeus* Fabricius, 1793****Subgenus *Abrupta* Popov, 1939*****Hylaeus (Abrupta) cornutus* Curtis, 1831****Nomenclature:**

plantarius Smith, 1842

Distribution: England

Subgenus *Hylaeus* Fabricius, 1793***Hylaeus (Hylaeus) communis* Nylander, 1852****Nomenclature:**

rupestris (Smith, 1872, *Prosopis*)

Distribution: England, Scotland, Wales, Ireland

Subgenus *Koptogaster* Alfken, 1912***Hylaeus (Koptogaster) punctulatissimus* Smith, 1842**

Distribution: England

Notes: Probably extinct in Britain

Subgenus *Lamdopsis* Popov, 1939***Hylaeus (Lamdopsis) annularis* (Kirby, 1802)****Nomenclature:**

Mellita annularis Kirby, 1802

euryscapus misident.

spilotus Forster, 1871

masoni (Saunders, 1894, *Prosopis*)

Distribution: England

Notes: Notton and Dathe (2008) designated as lectotype a female specimen that corresponds to the species here called *annularis*, with the species generally called *annularis* taking the name *dilatatus*.

***Hylaeus (Lamdopsis) dilatatus* (Kirby, 1802)**

Nomenclature:

Mellita dilatata Kirby, 1802

annularis misident.

Distribution: England, Wales

Subgenus *Paraprosopis* Popov, 1939

***Hylaeus (Paraprosopis) pictipes* Nylander, 1852**

Nomenclature:

varipes (Smith, 1853, *Prosopis*)

Distribution: England

Subgenus *Prosopis* Fabricius, 1804

Nomenclature:

NESOPROSOPIS Perkins, R.C.L., 1899

***Hylaeus (Prosopis) brevicornis* Nylander, 1852**

Nomenclature:

rubicola (Smith, 1869, *Prosopis*) preocc.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Hylaeus (Prosopis) confusus* Nylander, 1852**

Distribution: England, Scotland, Wales, Ireland

Notes: The subspecies *perkinsi* Blüthgen, 1926, is recognised from Britain.

Hylaeus (Prosopis) incongruus* Förster, 1871*Nomenclature:***gibbus* misident.*genalis* Thomson, 1872**Distribution:** England, Wales***Hylaeus (Prosopis) pectoralis* Förster, 1871****Nomenclature:***kriechbaumeri* Förster, 1871*palustris* (Perkins, 1900, *Prosopis*)**Distribution:** England***Hylaeus (Prosopis) signatus* (Panzer, 1798)****Nomenclature:***Sphex signata* Panzer, 1798**Distribution:** England, Wales**Subgenus *Spatulariella* Popov, 1939*****Hylaeus (Spatulariella) hyalinatus* Smith, 1842****Distribution:** England, Scotland, Wales, Ireland, Isle of Man**Family Halictidae Thomson, 1869****Subfamily Halictinae Thomson, 1869****Genus *Halictus* Latreille, 1804****Subgenus *Halictus* Latreille, 1804*****Halictus (Halictus) eurygnathus* Blüthgen, 1931****Nomenclature:***quadricinctus* misident.*tetrazonius* misident.**Distribution:** England

***Halictus (Halictus) maculatus* Smith, 1848**

Distribution: England

Notes: Probably extinct in Britain.

***Halictus (Halictus) rubicundus* (Christ, 1791)**

Nomenclature:

Apis rubicunda Christ, 1791

quadrifasciatus Smith, 1870

nesiotis Perkins, 1922

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Seladonia* Robertson, 1918***Halictus (Seladonia) confusus* Smith, 1853**

Nomenclature:

alpinus Alfken, 1907

confusus perkinsi Blüthgen, 1926

flavipes misident.

Distribution: England

***Halictus (Seladonia) subauratus* (Rossi, 1792)**

Nomenclature:

Apis subaurata Rossi, 1792

gramineus Smith, 1849

Notes: Probably extinct in Britain.

***Halictus (Seladonia) tumulorum* (Linnaeus, 1758)**

Nomenclature:

Apis tumulorum Linnaeus, 1758

Distribution: England, Scotland, Wales, Ireland

Genus *Lasioglossum* Curtis, 1833

Notes: Nomenclature for some species ('*Evyllaes*' s. l.) updated from Pesenko (2007) but, as Pesenko's study was limited to the Palaearctic region, we do not follow his elevation of *Evyllaes* to a valid genus, nor have we adopted his numerous subgenera.

Subgenus *Dialictus* Robertson, 1902

Lasioglossum (Dialictus) cupromicans (Pérez, 1903)

Nomenclature:

Halictus cupromicans Pérez, 1903

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: The Irish population has been described as the subspecies *hibernicum* Ebmer, 1970, with other populations referred to the subspecies *scoticum* Ebmer, 1970.

Lasioglossum (Dialictus) leucopus (Kirby, 1802)

Nomenclature:

Melitta leucopus Kirby, 1802

aeratum (Kirby, 1802, *Melitta*)

semiaeneum (Brullé, 1832, *Halictus*)

viridaeneum (Blüthgen, 1918, *Halictus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Lasioglossum (Dialictus) morio (Fabricius, 1793)

Nomenclature:

Hylaeus morio Fabricius, 1793

Distribution: England, Scotland, Wales, Isle of Man

Lasioglossum (Dialictus) smeathmanellum (Kirby, 1802)

Nomenclature:

Melitta smeathmanella Kirby, 1802

Distribution: England, Scotland, Wales, Isle of Man

Subgenus *Hemihalictus* Cockerell, 1897***Lasioglossum (Hemihalictus) angusticeps* (Perkins, 1895)****Nomenclature:***Halictus angusticeps* Perkins, 1895**Distribution:** England***Lasioglossum (Hemihalictus) brevicorne* (Schenck, 1869)****Nomenclature:***Halictus brevicornis* Schenck, 1869**Distribution:** England***Lasioglossum (Hemihalictus) minutissimum* (Kirby, 1802)****Nomenclature:***Melitta minutissima* Kirby, 1802*arnoldi* (Saunders, 1910, *Halictus*)**Distribution:** England, Wales, Ireland***Lasioglossum (Hemihalictus) nitidiusculum* (Kirby, 1802)****Nomenclature:***Melitta nitidiuscula* Kirby, 1802**Distribution:** England, Scotland, Wales, Ireland, Isle of Man***Lasioglossum (Hemihalictus) parvulum* (Schenck, 1853)****Nomenclature:***Hylaeus parvulus* Schenck, 1853*minutum* misident.**Distribution:** England, Wales***Lasioglossum (Hemihalictus) pauperatum* (Brullé, 1832)****Nomenclature:***Halictus pauperatus* Brullé, 1832*breviceps* (Saunders, 1879, *Halictus*)

Distribution: England

***Lasioglossum (Hemihalictus) punctatissimum* (Schenck, 1853)**

Nomenclature:

Hylaeus punctatissimus Schenck, 1853

longiceps (Saunders, 1879, *Halictus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Lasioglossum (Hemihalictus) puncticolle* (Morawitz, 1872)**

Nomenclature:

Halictus puncticollis Morawitz, 1872

Distribution: England

***Lasioglossum (Hemihalictus) rufitarse* (Zetterstedt, 1838)**

Nomenclature:

Halictus rufitarsis Zetterstedt, 1838

atricorne (Smith, 1870, *Halictus*)

Distribution: England, Scotland, Wales, Ireland

***Lasioglossum (Hemihalictus) semilucens* (Alfken, 1914)**

Nomenclature:

Halictus semilucens Alfken, 1914

Distribution: England

***Lasioglossum (Hemihalictus) sexstrigatum* (Schenck, 1870)**

Nomenclature:

Halictus sexstrigatus Schenck, 1870

sabulosum (Warncke, 1986, *Halictus*)

Distribution: England

Notes: added by Hawkins (2011)

Lasioglossum (Hemihalictus) villosulum* (Kirby, 1802)*Nomenclature:**

Melitta villosula Kirby, 1802

punctulatum (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Lasioglossum* Curtis, 1833***Lasioglossum (Lasioglossum) laevigatum* (Kirby, 1802)****Nomenclature:**

Melitta laevigata Kirby, 1802

lugubris (Kirby, 1802, *Melitta*)

Distribution: England, Wales

Lasioglossum (Lasioglossum) lativentre* (Schenck, 1853)*Nomenclature:**

Hylaeus lativentris Schenck, 1853

decepiens (Perkins, 1913, *Halictus*)

Distribution: England, Wales

Lasioglossum (Lasioglossum) prasinum* (Smith, 1848)*Nomenclature:**

Halictus prasinus Smith, 1848

Distribution: England, Wales

Lasioglossum (Lasioglossum) quadrinotatum* (Kirby, 1802)*Nomenclature:**

Melitta quadrinotata Kirby, 1802

Distribution: England

Lasioglossum (Lasioglossum) sexnotatum* (Kirby, 1802)*Nomenclature:**

Melitta sexnotata Kirby, 1802

nitidum misident.

Distribution: England

***Lasioglossum (Lasioglossum) xanthopus* (Kirby, 1802)**

Nomenclature:

Melitta xanthopus Kirby, 1802

tringulum Curtis, 1833

Distribution: England, Wales

Subgenus *Leuchalictus* Warncke, 1975

***Lasioglossum (Leuchalictus) leucozonium* (Schrank, 1781)**

Nomenclature:

Apis leucozonina Schrank, 1781

similis (Smith, 1853, *Halictus*)

Distribution: England, Scotland, Wales, Ireland

***Lasioglossum (Leuchalictus) zonulum* (Smith, 1848)**

Nomenclature:

Halictus zonulus Smith, 1848

Distribution: England, Wales

Subgenus *Sphecodogastra* Ashmead, 1899

***Lasioglossum (Sphecodogastra) albipes* (Fabricius, 1781)**

Nomenclature:

Apis albipes Fabricius, 1781

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Lasioglossum (Sphecodogastra) calceatum* (Scopoli, 1763)**

Nomenclature:

Apis calceata Scopoli, 1763

cylindricum (Fabricius, 1793, *Hylaeus*)

fulvocinctum (Kirby, 1802, *Melitta*)

obovatum (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Lasioglossum (Sphecodogastra) fratellum* (Pérez, 1903)**

Nomenclature:

Halictus fratellus Pérez, 1903

nigrum misident.

subfasciatum (Nylander, 1848, *Halictus*)

freygessneri (Alfken, 1905, *Halictus*)

Distribution: England, Scotland, Wales, Ireland

***Lasioglossum (Sphecodogastra) fulvicorne* (Kirby, 1802)**

Nomenclature:

Melitta fulvicornis Kirby, 1802

subfasciatum misident.

Distribution: England, Scotland, Wales

***Lasioglossum (Sphecodogastra) laeve* (Kirby, 1802)**

Nomenclature:

Melitta laevis Kirby, 1802

Distribution: England

Notes: Probably extinct in Britain.

***Lasioglossum (Sphecodogastra) laticeps* (Schenck, 1869)**

Nomenclature:

Halictus laticeps Schenck, 1869

semipunctulatum misident.

Distribution: England

***Lasioglossum (Sphecodogastra) malachurum* (Kirby, 1802)**

Nomenclature:

Melitta malachura Kirby, 1802

longulum (Smith, 1848, *Halictus*)

Distribution: England

Lasioglossum (Sphecodogastra) pauxillum* (Schenck, 1853)*Nomenclature:***Hylaeus pauxillus* Schenck, 1853*immarginatum* (Schenck, 1853, *Hylaeus*)**Distribution:** England, Wales**Genus *Sphecodes* Latreille, 1804*****Sphecodes crassus* Thomson, 1870****Nomenclature:***variegatus* von Hagens, 1874**Distribution:** England, Scotland, Wales***Sphecodes ephippius* (Linnaeus, 1767)****Nomenclature:***Sphex ephippia* Linnaeus, 1767*divisus* (Kirby, 1802, *Melitta*)*similis* Wesmael, 1835**Distribution:** England, Wales, Isle of Man***Sphecodes ferruginatus* von Hagens, 1882****Distribution:** England, Wales***Sphecodes geoffrellus* (Kirby, 1802)****Nomenclature:***Melitta geofrella* Kirby, 1802*affinis* von Hagens, 1882*fasciatus* von Hagens, 1882**Distribution:** England, Scotland, Wales, Ireland, Isle of Man***Sphecodes gibbus* (Linnaeus, 1758)****Nomenclature:***Sphex gibba* Linnaeus, 1758*picea* (Kirby, 1802, *Melitta*)

sphecoides (Kirby, 1802, *Melitta*)

Distribution: England, Scotland, Wales

***Sphecodes hyalinatus* von Hagens, 1882**

Distribution: England, Scotland, Wales, Ireland

***Sphecodes longulus* von Hagens, 1882**

Distribution: England, Wales

***Sphecodes miniatus* von Hagens, 1882**

Nomenclature:

dimidiatus von Hagens, 1882

Distribution: England

***Sphecodes monilicornis* (Kirby, 1802)**

Nomenclature:

Melitta monilicornis Kirby, 1802

subquadratus Smith, 1845

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Sphecodes niger* von Hagens, 1874**

Distribution: England

***Sphecodes pellucidus* Smith, 1845**

Nomenclature:

pilifrons Thomson, 1870

Distribution: England, Scotland, Wales, Ireland

***Sphecodes puncticeps* Thomson, 1870**

Distribution: England, Wales

***Sphecodes reticulatus* Thomson, 1870**

Distribution: England, Wales

Sphecodes rubicundus* von Hagens, 1875*Nomenclature:**

ruficrus misident.

rufiventris misident.

Distribution: England, Wales

***Sphecodes scabricollis* Wesmael, 1835**

Distribution: England, Wales

***Sphecodes spinulosus* von Hagens, 1875**

Distribution: England, Wales

Subfamily Rophitinae Schenck, 1866**Genus *Dufourea* Lepeletier, 1841*****Dufourea halictula* (Nylander, 1852)****Nomenclature:**

Rhophites halictulus Nylander, 1852

Distribution: England

Notes: Probably extinct in Britain.

Dufourea minuta* Lepeletier, 1841*Nomenclature:**

vulgaris Schenck, 1861

Distribution: England

Notes: Probably extinct in Britain.

Genus *Rophites* Spinola, 1808***Rophites quinquespinosus* Spinola, 1808**

Distribution: England

Notes: Probably extinct in Britain.

Family Megachilidae Latreille, 1802**Subfamily Megachilinae Latreille, 1802****Tribe Anthidiini Ashmead, 1899****Genus *Anthidium* Fabricius, 1804*****Anthidium manicatum* (Linnaeus, 1758)****Nomenclature:**

Apis manicata Linnaeus, 1758

Distribution: England, Scotland, Wales

Notes: Represented by the subspecies *nigrithorax* Dalla Torre, 1877

Genus *Stelis* Panzer, 1806***Stelis breviscula* Nylander, 1848**

Distribution: England

Notes: added by Else and Spooner (1987)

Stelis ornatula* (Klug, 1807)*Nomenclature:**

Gyrodroma ornatula Klug, 1807

octomaculata Smith, 1843

Distribution: England, Wales

Stelis phaeoptera* (Kirby, 1802)*Nomenclature:**

Apis phaeoptera Kirby, 1802

Distribution: England, Wales

Stelis punctulatissima* (Kirby, 1802)*Nomenclature:**

Apis punctulatissima Kirby, 1802

aterrima (Panzer, 1798, *Apis*) preocc.

Distribution: England, Scotland, Wales

Tribe Megachilini Latreille, 1802

Genus *Coelioxys* Latreille, 1809

Subgenus *Allocoelioxys* Tkalcu, 1974

***Coelioxys (Allocoelioxys) afra* Lepeletier, 1841**

Notes: Probably extinct in Britain.

Subgenus *Boreocoelioxys* Mitchell, 1973

***Coelioxys (Boreocoelioxys) inermis* (Kirby, 1802)**

Nomenclature:

Apis inermis Kirby, 1802

acuminata Nylander, 1852 preocc.

Distribution: England, Wales, Ireland

***Coelioxys (Boreocoelioxys) mandibularis* Nylander, 1848**

Distribution: England, Wales

Subgenus *Coelioxys* Latreille, 1809

***Coelioxys (Coelioxys) conoidea* (Illiger, 1806)**

Nomenclature:

Anthophora conoidea Illiger, 1806

vectis Curtis, 1831

Distribution: England, Wales, Ireland

***Coelioxys (Coelioxys) elongata* Lepeletier, 1841**

Nomenclature:

sponsa Smith, 1855

Distribution: England, Scotland, Wales, Ireland

Coelioxys (Coelioxys) quadridentata* (Linnaeus, 1758)*Nomenclature:**

Apis quadridentata Linnaeus, 1758

Distribution: England, Wales

Coelioxys (Coelioxys) rufescens* Lepelletier & Serville, 1825*Nomenclature:**

umbrina Smith, 1843

Distribution: England, Wales

Genus *Megachile* Latreille, 1802**Subgenus *Eutricharaea* Thomson, 1872*****Megachile (Eutricharaea) leachella* Curtis, 1828****Nomenclature:**

dorsalis Pérez, 1879 synonymy by Gusenleitner and Schwarz (2012)

argentata misident.

Distribution: England, Wales

Subgenus *Megachile* Latreille, 1802***Megachile (Megachile) centuncularis* (Linnaeus, 1758)****Nomenclature:**

Apis centuncularis Linnaeus, 1758

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Megachile (Megachile) lapponica* Thomson, 1872**

Distribution: England

Notes: Probably extinct in Britain.

Megachile (Megachile) ligniseca* (Kirby, 1802)*Nomenclature:**

Apis ligniseca Kirby, 1802

Distribution: England, Wales, Ireland

***Megachile (Megachile) versicolor* Smith, 1844**

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: Includes the subspecies *hiberniae* Perkins, 1925.

Subgenus *Pseudomegachile* Friese, 1899

***Megachile (Pseudomegachile) ericetorum* (Lepelletier, 1841)**

Nomenclature:

Megachile ericetorum Lepelletier, 1841

fasciata (Smith, 1844, *Megachile*)

rufitarsis (Smith, 1844, *Megachile*)

Distribution: England

Notes: Probably extinct in Britain.

Subgenus *Xanthosarus* Robertson, 1903

***Megachile (Xanthosarus) circumcincta* (Kirby, 1802)**

Nomenclature:

Apis circumcincta Kirby, 1802

Distribution: England, Scotland, Wales

***Megachile (Xanthosarus) maritima* (Kirby, 1802)**

Nomenclature:

Apis maritima Kirby, 1802

Distribution: England, Wales, Ireland, Isle of Man

***Megachile (Xanthosarus) willughbiella* (Kirby, 1802)**

Nomenclature:

Apis willughbiella Kirby, 1802

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: Includes the nominate subspecies and *hibernica* Perkins, 1925

Tribe Osmiini Newman, 1834**Genus *Chelostoma* Latreille, 1809*****Chelostoma campanularum* (Kirby, 1802)****Nomenclature:**

Apis campanularum Kirby, 1802

Distribution: England

Chelostoma florisomne* (Linnaeus, 1758)*Nomenclature:**

Apis florisomnis Linnaeus, 1758

maxillosum (Linnaeus, 1767, *Apis*)

Distribution: England, Wales

Genus *Heriades* Spinola, 1808***Heriades rubicola* Pérez, 1890**

Distribution: England

Notes: added by Else (in prep.)

Heriades truncorum* (Linnaeus, 1758)*Nomenclature:**

Apis truncorum Linnaeus, 1758

Distribution: England

Genus *Hoplitis* Klug, 1807**Subgenus *Alcidamea* Cresson, 1864*****Hoplitis (Alcidamea) claviventris* (Thomson, 1872)****Nomenclature:**

Osmia claviventris Thomson, 1872

leucomelana misident.

Distribution: England, Wales

***Hoplitis (Alcidamea) leucomelana* (Kirby, 1802)**

Nomenclature:

Apis leucomelana Kirby, 1802

parvula (Dufour & Perris, 1840, *Osmia*)

Distribution: England

Notes: Probably extinct in Britain.

Subgenus *Anthocopa* Lepeletier & Serville, 1825

***Hoplitis (Anthocopa) spinulosa* (Kirby, 1802)**

Nomenclature:

Apis spinulosa Kirby, 1802

Distribution: England, Wales

Genus *Osmia* Panzer, 1806

Subgenus *Helicosmia* Thomson, 1872

***Osmia (Helicosmia) aurulenta* Panzer, 1799**

Distribution: England, Scotland, Wales, Ireland

***Osmia (Helicosmia) caerulescens* (Linnaeus, 1758)**

Nomenclature:

Apis caerulescens Linnaeus, 1758

aenea (Linnaeus, 1761, *Apis*)

Distribution: England, Scotland, Wales

***Osmia (Helicosmia) niveata* (Fabricius, 1804)**

Nomenclature:

Apis niveata Fabricius, 1804

fulviventris (Panzer, 1798, *Apis*)

Distribution: England

Osmia (Helicosmia) leaiana* (Kirby, 1802)*Nomenclature:**

Apis leaiana Kirby, 1802

fulviventris misident.

Distribution: England, Wales

Subgenus *Melanosmia* Schmiedeknecht, 1884***Osmia (Melanosmia) inermis* (Zetterstedt, 1838)****Nomenclature:**

Anthophora inermis Zetterstedt, 1838

parietina misident.

Distribution: Scotland

***Osmia (Melanosmia) parietina* Curtis, 1828**

Distribution: England, Scotland, Wales

***Osmia (Melanosmia) pilicornis* Smith, 1846**

Distribution: England, Wales

***Osmia (Melanosmia) uncinata* Gerstäcker, 1869**

Distribution: Scotland

Notes: added by Else in Else and Spooner (1987)

Osmia (Melanosmia) xanthomelana* (Kirby, 1802)*Nomenclature:**

Apis xanthomelana Kirby, 1802

atricapilla Curtis, 1828

Distribution: England, Wales

Subgenus *Neosmia* Tkalc, 1974***Osmia (Neosmia) bicolor* (Schrank, 1781)****Nomenclature:**

Apis bicolor Schrank, 1781

Distribution: England, Wales

Subgenus *Osmia* Panzer, 1806***Osmia (Osmia) bicornis* (Linnaeus, 1758)****Nomenclature:**

Apis bicornis Linnaeus, 1758

rufa (Linnaeus, 1758, *Apis*)

hedera Smith, 1844

Distribution: England, Scotland, Wales, Ireland

Family Melittidae Schenck, 1860**Subfamily Dasypodainae Börner, 1919**

Notes: According to Danforth et al. (2006), Dasypodainae may be better treated as a separate family, but this requires further corroboration.

Genus *Dasypoda* Latreille, 1802***Dasypoda hirtipes* (Fabricius, 1793)****Nomenclature:**

Andrena hirtipes Fabricius, 1793

?*altercator* (Harris, 1776, *Apis*) nom. dub.

plumipes (Panzer, 1797, *Andrena*)

swammerdamella (Kirby, 1802, *Melitta*)

Distribution: England, Wales

Subfamily Macropidinae Robertson, 1904**Genus *Macropis* Panzer, 1809*****Macropis europaea* Warncke, 1973****Nomenclature:***labiata* misident.**Distribution:** England**Subfamily Melittinae Schenck, 1860****Genus *Melitta* Kirby, 1802****Subgenus *Cilissia* Leach, 1815****Nomenclature:***PSEUDOCILISSA* Radoszkowski, 1891***Melitta (Cilissia) dimidiata* Morawitz, 1876****Distribution:** England***Melitta (Cilissia) haemorrhoidalis* (Fabricius, 1775)****Nomenclature:***Andrena haemorrhoidalis* Fabricius, 1775*chrysur* Kirby, 1802**Distribution:** England, Scotland, Wales, Isle of Man**Subgenus *Melitta* Kirby, 1802*****Melitta (Melitta) leporina* (Panzer, 1799)****Nomenclature:***Apis leporina* Panzer, 1799**Distribution:** England, Wales

Melitta (Melitta) tricincta* Kirby, 1802*Nomenclature:**

melanura (Nylander, 1852, *Kirbya*)

Distribution: England, Wales

Chrysoidea**Superfamily CHRYSIDOIDEA**

Notes: Some distribution records taken from Archer and Burn (2012). Fig. 3: habitus of selected British Chrysoidea.

Family Bethylidae Haliday, 1833

Notes: Taxonomy mostly follows Gordh and Móczár (1990). Distribution data from Perkins (1976).

Subfamily Bethylinae Haliday, 1833**Genus *Bethylus* Latreille, 1802****Nomenclature:**

PERISEMUS Förster, 1856

ANOXUS Thomson, 1862 synonymy by Polaszek and Krombein (1994)

EPISEMUS Thomson, 1862

DIGONIOZUS Kieffer, 1905

Bethylus boops* (Thomson, 1862)*Nomenclature:**

Anoxus boops Thomson, 1862

Distribution: England

Notes: added by Burn (1997)

Bethylus cephalotes* (Förster, 1860)*Nomenclature:**

Perisemus cephalotes Förster, 1860

fuscicornis var. *tibialis* Kieffer, 1905

Distribution: England, Scotland, Wales, Isle of Man

***Bethylus dendrophilus* Richards, 1939**

Distribution: England

***Bethylus fuscicornis* (Jurine, 1807)**

Nomenclature:

Omalus fuscicornis Jurine, 1807

sygenesiae Haliday, 1834

fulvicornis Curtis, 1838

triareolatus Förster, 1851

variabilis (Thomson, 1862, *Episemus*)

hyalinus (Marshall, 1874, *Perisemus*) synonymy by Rond (1994)

fuscicornis var. *maurus* Kieffer, 1905

brevipennis Hellén, 1920

berlandi Arle, 1929

Distribution: England, Scotland, Wales

Genus *Goniozus* Förster, 1856

Nomenclature:

PARASIEROLA Cameron, 1883

PROGONIOZUS Kieffer, 1905

PERISIEROLA Kieffer, 1914

***Goniozus claripennis* (Förster, 1851)**

Nomenclature:

Bethylus claripennis Förster, 1851

fuscipennis (Förster, 1851, *Bethylus*)

distigmus Thomson, 1862

audouinii Westwood, 1874

claripennis var. *fuscipennis* Kieffer, 1905 preocc.

claripennis var. *tibialis* Kieffer, 1905

Distribution: England

Subfamily Epyrinae Kieffer, 1914

Genus *Cephalonomia* Westwood, 1833

Nomenclature:

HOLOPEDINA Förster, 1850

CEPHALOMIA Kirchner, 1867

***Cephalonomia formiciformis* Westwood, 1833**

Nomenclature:

polypori (Förster, 1850, *Holopedina*)

brevipennis Kieffer, 1906

formiciformis var. *sulcata* Kieffer, 1906

Distribution: England, Ireland

Notes: *Cephalonomia brevipennis* is listed as a separate species (described from English specimens, now missing) by Gordh and Móczár (1990) but we follow Richards (1939) who believed this not to be a separate species from *formiciformis*.

*Cephalonomia gallicola* (Ashmead, 1887)

Nomenclature:

Sclerochroa gallicola Ashmead, 1887

nubilipennis (Ashmead, 1887, *Holopedina*)

xambeui Girad, 1898

quadridentata Duchaussoy, 1920

strandii Hoffer, 1936

***Cephalonomia hammi* Richards, 1939**

Distribution: England

*Cephalonomia tarsalis* (Ashmead, 1893)

Nomenclature:

Ateleopterus tarsalis Ashmead, 1893

carinata Kieffer, 1907

meridionalis Brethes, 1913

kiefferi Fouts, 1920

Cephalonomia waterstoni Gahan, 1931

Genus *Epyris* Westwood, 1832

Nomenclature:

DOLUS Motshultsky, 1863

MUELLERELLA Saussure, 1892

HOMOGLENUS Kieffer, 1904 synonymy by Terayama (2003)

PAREPYRIS Kieffer, 1913

PSILEPYRIS Kieffer, 1913

ARTIEPYRIS Kieffer, 1913

Epyris bilineatus Thomson, 1862

Nomenclature:

fraternus Westwood, 1874

saeva Westwood, 1874

multidentatus Keiffer, 1906

multidentatus var. *angustipennis* Kieffer, 1906

Distribution: England

Epyris niger Westwood, 1832

Distribution: England

[? *Epyris tricolor* Cameron, 1888]

Notes: Supposedly described from the New Forest, the type is lost and the species has not been satisfactorily interpreted since.

Genus *Holepyris* Kieffer, 1905

Nomenclature:

MISEPYRIS Kieffer, 1913

PAREPYRIS Brethes, 1913

*Holepyris glabratus* (Fabricius, 1798)**Nomenclature:**

Tiphia glabrata Fabricius, 1798

hawaiiensis (Ashmead, 1901, *Holepyris*)

*Holepyris sylvanidis* (Brethes, 1913)**Nomenclature:**

Parepyris sylvanidis Brethes, 1913

zeae (Turner & Waterston, 1921, *Rhabdepyris*)

Genus *Laelius* Ashmead, 1893

Notes: see Notton et al. (2014) for synonymy and distribution

Laelius femoralis* (Förster, 1860)*Nomenclature:**

Bethylus femoralis Förster, 1860

microneurus (Kieffer, 1906, *Allepyris*)

nigricrus (Kieffer, 1906, *Allepyris*)

Distribution: England

*Laelius pedatus* (Say, 1836)**Nomenclature:**

Bethylus pedatus Say, 1836

Distribution: England

Notes: Added by Notton et al. (2014); probably an accidental introduction.

Genus *Plastanoxus* Kieffer, 1905**Nomenclature:**

SNAPPANIA Hedqvist, 1975

Plastanoxus chittendenii* (Ashmead, 1893)*Nomenclature:**

Anoxus chittendenii Ashmead, 1893

Distribution: England

***Plastanoxus # munroi* Richards, 1939**

***Plastanoxus # westwoodi* (Kieffer, 1914)**

Nomenclature:

Cephalonomia westwoodi Kieffer, 1914

kiefferi Gahan, 1931

Subfamily Pristocerinae Kieffer, 1914

Genus *Pristocera* Klug, 1808

Nomenclature:

ACREPYRIS Kieffer, 1905

MANGESIA Kieffer, 1911

TRICHELOBRACHIUM Kieffer, 1914

***Pristocera depressa* (Fabricius, 1805)**

Nomenclature:

Bethylus depressus Fabricius, 1805

roubali (Menozzi, 1925, *Pseudisobrachium*)

Distribution: England

Genus *Pseudisobrachium* Kieffer, 1904

Nomenclature:

MONEPYRIS Kieffer, 1905

XESTOBETHYLUS Cameron, 1909

PLUTOBETHYLUS Kieffer, 1910

LYSSEPYRIS Kieffer, 1913

XANTEPYRIS Kieffer, 1913

PARISOBRACHIUM Kieffer, 1914

AFRISOBRACHIUM Benoit, 1957

EDAPHOLIGON Oglobin, 1963

Pseudisobrachium subcyaneum* (Haliday, 1838)*Nomenclature:**

Epyris subcyaneus Haliday, 1838

halidai (Westwood, 1874, *Epyris*)

carpentieri Kieffer, 1906

carpentieri var. *septemfasciatum* Kieffer, 1906

cantianum Chitty, 1906

concolor Kieffer, 1906

Distribution: England

Family Chrysididae Latreille, 1802**Subfamily Cleptinae Morice, 1900****Genus *Cleptes* Latreille, 1802****Subgenus *Cleptes* Latreille, 1802*****Cleptes (Cleptes) semiauratus* (Linnaeus, 1761)****Nomenclature:**

Sphex semiaurata Linnaeus, 1761

auratus (Panzer, 1798, *Ichneumon*)

pallipes Lepeletier, 1805

diana Mocsáry, 1889

Distribution: England, Wales

Notes: Synonymy follows Rosa et al. (2015).

Subgenus *Leiocleptes* Móczár, 1962***Cleptes (Leiocleptes) nitidulus* (Fabricius, 1793)****Nomenclature:**

Ichneumon nitidulus Fabricius, 1793

Distribution: England

Subfamily Chrysidinae Latreille, 1802

Notes: Some distribution data from Morgan (1984).

Tribe Chrysidini Latreille, 1802**Genus *Chrysis* Linnaeus, 1761**

Notes: The number of species recognised in the *Chrysis ignita* group has varied from author to author. Soon et al. (2014) analysed species limits and found there to be 15 described European species plus cryptic species, a result more in line with Morgan's (Morgan 1984) recognition of multiple species than, for example, Kunz's (Kunz 1994) much more conservative treatment.

***Chrysis angustula* Schenck, 1856**

Nomenclature:

brevidens Tournier, 1879

Distribution: England, Scotland, Wales

***Chrysis corusca* Valkeila, 1971**

Distribution: England

Notes: added by Soon et al. (2014)

***Chrysis fulgida* Linnaeus, 1761**

Distribution: England

***Chrysis gracillima* Förster, 1853**

Nomenclature:

saussurei Chevrier, 1862

Distribution: England

Notes: added by Morgan (1984)

***Chrysis ignita* (Linnaeus, 1758)**

Nomenclature:

Sphex ignita Linnaeus, 1758

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Chrysis illigeri* Wesmael, 1839*Nomenclature:**

chrysoprasina Hellén, 1919 preocc.

helleni Linsenmaier, 1959

succincta misident.

Distribution: England

***Chrysis impressa* Schenck, 1856**

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Chrysis longula* Abeille de Perrin, 1879**

Distribution: England, Scotland

***Chrysis mediata* Linsenmaier, 1951**

Distribution: England, Wales, Ireland

***Chrysis pseudobrevitarsis* Linsenmaier, 1951**

Distribution: England

Chrysis ruddii* Shuckard, 1836*Nomenclature:**

auripes Wesmael, 1839

Distribution: England, Scotland, Wales, Isle of Man

Chrysis schencki* Linsenmaier, 1968*Nomenclature:**

schenckiana Linsenmaier, 1959 preocc.

Distribution: England

***Chrysis terminata* Dahlbom, 1854**

Distribution: England

Notes: added by Soon et al. (2014)

Chrysis vanlithi* Linsenmaier, 1959*Nomenclature:**

rutiliventris misident.

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Chrysis viridula* Linnaeus, 1761*Nomenclature:**

bidentata Linnaeus, 1767

Distribution: England, Wales

Genus *Chrysura* Dahlbom, 1845***Chrysura hirsuta* (Gerstäcker, 1869)****Nomenclature:**

Chrysis hirsuta Gerstäcker, 1869

osmia (Thomson, 1870, *Chrysis*)

Distribution: Scotland

Chrysura radians* (Harris, 1776)*Nomenclature:**

Chrysis radians Harris, 1776

pustulosa (Abeille de Perrin, 1878, *Chrysis*)

Distribution: England, Wales

Genus *Pseudospinolia* Linsenmaier, 1951***Pseudospinolia neglecta* (Shuckard, 1836)****Nomenclature:**

Chrysis neglecta Shuckard, 1836

Distribution: England, Wales

Genus *Trichrysis* Lichtenstein, 1876***Trichrysis cyanea* (Linnaeus, 1758)****Nomenclature:**

Sphex cyanea Linnaeus, 1758

Distribution: England, Scotland, Wales

Tribe Elampini Dahlbom, 1854**Genus *Elampus* Spinola, 1806****Nomenclature:**

NOTOZUS Förster, 1853

Elampus panzeri* (Fabricius, 1804)*Nomenclature:**

Chrysis panzeri Fabricius, 1804

scutellaris (Panzer, 1798, *Chrysis*) preocc.

constrictus misident.

Distribution: England

Genus *Hedychridium* Abeille de Perrin, 1878***Hedychridium ardens* (Latreille, 1801)****Nomenclature:**

Chrysis ardens Latreille, 1801

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Hedychridium coriaceum* (Dahlbom, 1854)*Nomenclature:**

Hedychrum coriaceum Dahlbom, 1854

Distribution: England

Hedychridium cupreum* (Dahlbom, 1845)*Nomenclature:**

Hedychrum cupreum Dahlbom, 1845

integrum (Dahlbom, 1854, *Hedychrum*) synonymy by Morgan (1984)

Distribution: England, Wales

Hedychridium roseum* (Rossi, 1790)*Nomenclature:**

Chrysis rosea Rossi, 1790

Distribution: England

Genus *Hedychrum* Latreille, 1802***Hedychrum niemelai* Linsenmaier, 1959****Nomenclature:**

nobile misident.

Distribution: England

Hedychrum nobile* (Scopoli, 1763)*Nomenclature:**

Sphex nobilis Scopoli, 1763

lucidula (Fabricius, 1775, *Chrysis*)

regia (Fabricius, 1793, *Chrysis*)

Distribution: England

Notes: added by Baldock and Hawkins (2013); tentative identification but subsequently confirmed (e.g. Earwaker and Sutton 2015).

Hedychrum rutilans* Dahlbom, 1854*Nomenclature:**

intermedium misident.

Distribution: England

Genus *Omalus* Panzer, 1801***Omalus aeneus* (Fabricius, 1787)****Nomenclature:**

Chrysis aenea Fabricius, 1787

Distribution: England, Wales

Omalus puncticollis* (Mocsáry, 1887)*Nomenclature:**

Ellampus puncticollis Mocsáry, 1887

Distribution: England, Scotland, Wales

Notes: Treated as a subspecies of *aeneus* in Fauna Europaea.

Genus *Philoctetes* Abeille de Perrin, 1879***Philoctetes truncatus* (Dahlbom, 1831)****Nomenclature:**

Chrysis truncata Dahlbom, 1831

Distribution: England

Genus *Pseudomalus* Ashmead, 1902***Pseudomalus auratus* (Linnaeus, 1758)****Nomenclature:**

Sphex aurata Linnaeus, 1758

Distribution: England, Scotland, Wales, Ireland

Pseudomalus violaceus* (Scopoli, 1763)*Nomenclature:**

Sphex violacea Scopoli, 1763

Distribution: England, Wales

Family Dryinidae Haliday, 1833

Notes: Some distributional data and synonymy from Olmi (1984), supplemented by Perkins (1976) and Olmi (1989).

Subfamily Anteoninae Perkins, 1912

Genus *Anteon* Jurine, 1807

Nomenclature:

CHELOGYNUS Haliday, 1838

NEOCHELOGYNUS Perkins, 1905

Anteon arcuatum Kieffer, 1905

Nomenclature:

imberbis Kieffer, 1905

bensoni Richards, 1939

jurineanum in part, Perkins, 1976

Distribution: England, Scotland, Wales, Ireland

Anteon brachycerum (Dalman, 1823)

Nomenclature:

Dryinus brachycerus Dalman, 1823

lyde (Walker, 1837, *Dryinus*)

nigricornis Kieffer, 1905

triareolatus Kieffer, 1905

brevicollis Kieffer, 1905

flavitorsis Kieffer, 1905

indivisus Kieffer, 1905

nigroclavatus Kieffer, 1905

curvatus Kieffer, 1906

obscuricornis Kieffer, 1906

suffolciensis (Chitty, 1908, *Antaeon*)

curvus Kieffer, 1914

Distribution: England, Scotland, Wales, Ireland

Anteon ephippiger* (Dalman, 1818)*Nomenclature:**

Gonatopus ephippiger Dalman, 1818

collaris (Dalman, 1818, *Gonatopus*)

facialis (Thomson, 1860, *Dryinus*)

albidicollis Kieffer, 1905

rubrifrons Kieffer, 1905

rufovariegatus (Berland, 1928, *Chelogyne*)

albidocolle Richards, 1939

pyonganensis Moczar, 1983

Distribution: England, Scotland, Wales, Ireland

Anteon exiguum* (Haupt, 1941)*Nomenclature:**

Chelogyne exiguus Haupt, 1941

subarcticus Hellén, 1935 nom. nud.

flaviscapus Jansson, 1950

subarcticus Hellén, 1953

Distribution: England, Wales

Notes: added by Burn (1995)

Anteon faciale* (Thomson, 1860)*Nomenclature:**

Dryinus facialis Thomson, 1860

pseudohilare Burn, 1990

Distribution: England

Anteon flavicorne* (Dalman, 1818)*Nomenclature:**

Gonatopus flavicornis Dalman, 1818

sericeus Kieffer, 1905

subflavicornis Haupt, 1941

Distribution: England, Scotland, Wales, Ireland

Anteon fulviventre* (Haliday, 1828)*Nomenclature:**

Dryinus fulviventris Haliday, 1828
fuscipes (Thomson, 1860, *Dryinus*)
similis Kieffer, 1905
gracilicollis Kieffer, 1905
flavinervis Kieffer, 1905
parvulus Kieffer, 1905
xanthostigma Kieffer, 1905
flaviscapus Kieffer, 1905
parvus Kieffer, 1906
alutaceus (Richards, 1935, *Chelogynus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Anteon gaullei* Kieffer, 1905*Nomenclature:**

cameroni Kieffer, 1905
trivialis Kieffer, 1905
rufulocollis (Chitty, 1908, *Antaeon*)

Distribution: England, Scotland, Wales, Ireland

Anteon infectum* (Haliday, 1837)*Nomenclature:**

Dryinus infectus Haliday, 1837
luteicornis misident. *sensu* Richards (1939) and Perkins (1976)
inclytus (Haliday, 1837, *Dryinus*)
lateralis (Thomson, 1860, *Dryinus*)
fusiformis Kieffer, 1905
punctatus Kieffer, 1905
ellimani (Chitty, 1908, *Antaeon*)

Distribution: England, Scotland, Ireland

Anteon jurineanum* Latreille, 1809*Nomenclature:**

brevicornis (Dalman, 1818, *Gonatopus*)

cursor (Haliday, 1828, *Dryinus*)

otiartes (Walker, 1837, *Dryinus*)

sisithrus (Walker, 1837, *Dryinus*)

nanus (Haliday, 1837, *Dryinus*)

crenulatus Kieffer, 1905

thomsoni Kieffer, 1905

vicinus Kieffer, 1905

marginatus Kieffer, 1905

rectus Kieffer, 1905

scoticus Kieffer, 1905

barbatus (Chitty, 1908, *Antaeon*)

brunneipes (Berland, 1928, *Xenanteon*)

nec jurineanum Richards, 1939

nec jurineanum Perkins, 1976

Distribution: England, Scotland, Wales, Ireland

Anteon pubicorne* (Dalman, 1818)*Nomenclature:**

Gonatopus pubicornis Dalman, 1818

tenuicornis (Dalman, 1823, *Dryinus*)

cephalotes (Ljungh, 1824, *Gonatopus*)

lucidus (Haliday, 1828, *Dryinus*)

penidas (Walker, 1837, *Dryinus*)

alorus (Walker, 1837, *Dryinus*)

fuscoclavatus Kieffer, 1905

triangularis Kieffer, 1905

divisus Kieffer, 1905

vulgaris Kieffer, 1905

breviventralis (Chitty, 1908, *Antaeon*)

delicatulus (Chitty, 1908, *Antaeon*)

serratus (Maneval, 1935, *Chelogynus*)

exiguus (Haupt, 1941, *Chelogynus*)

mongolicum Moczar, 1983

Distribution: England, Scotland, Wales, Ireland

Notes: Included as a synonym of *brachycerum* by Richards (1978).

***Anteon reticulatum* Kieffer, 1905**

Distribution: England

Notes: added by Olmi (1989)

***Anteon scapulare* (Haliday, 1837)**

Nomenclature:

Dryinus scapularis Haliday, 1837

longiforceps Kieffer, 1905

carinatus Kieffer, 1905

lanionis (Haupt, 1941, *Chelogynus*)

Distribution: England

***Anteon tripartitum* Kieffer, 1905**

Nomenclature:

tricarinatus Kieffer, 1905

kiefferi (Chitty, 1908, *Antaeon*)

angusticollis (Berland, 1928, *Chelogynus*)

prehensor (Maneval, 1935, *Chelogynus*)

berlandi (Richards, 1936, *Chelogynus*)

silvaticus (Ponomarenko, 1970, *Chelogynus*)

Distribution: England, Scotland, Ireland

Genus *Lonchodryinus* Kieffer, 1905

Nomenclature:

PRENANTEON Kieffer, 1913

PSILANTEON Kieffer, 1913

Lonchodryinus ruficornis* (Dalman, 1818)*Nomenclature:**

Gonatopus ruficornis Dalman, 1818
basalis (Dalman, 1818, *Gonatopus*)
frontalis (Dalman, 1818, *Gonatopus*)
fuscicornis (Dalman, 1818, *Gonatopus*)
longicornis (Dalman, 1823, *Dryinus*)
crassimanus (Haliday, 1828, *Dryinus*)
daos (Walker, 1837, *Dryinus*)
ilus (Walker, 1837, *Dryinus*)
misor (Walker, 1837, *Dryinus*)
lapponicus (Thomson, 1860, *Dryinus*)
retusus (Thomson, 1860, *Dryinus*)
lepidus (Förster, 1861, *Chelogyne*)
subapterus (Kieffer, 1905, *Anteon*)
aequalis (Kieffer, 1905, *Anteon*)
melanocera (Kieffer, 1905, *Anteon*)
vitellinipes (Kieffer, 1905, *Anteon*)
procericornis (Kieffer, 1905, *Anteon*)
declivis (Kieffer, 1905, *Anteon*)
pallidinervis (Kieffer, 1905, *Anteon*)
integer (Kieffer, 1905, *Anteon*)
curvinervis (Kieffer, 1905, *Anteon*)
fractinervis (Kieffer, 1905, *Anteon*)
hyalinipennis (Kieffer, 1905, *Anteon*)
longifilis (Kieffer, 1906, *Anteon*)
halidayi (Kieffer, 1906, *Anteon*)
morleyi (Chitty, 1908, *Antaeon*)
luffnessensis (Chitty, 1908, *Antaeon*)
beaumonti (Chitty, 1908, *Antaeon*)
walkeri (Kieffer, 1914, *Chelogyne*)
parcepunctatus (Kieffer, 1914, *Prenanteon*)
palustris (Oglobin, 1924, *Prenanteon*)

filicornis (Oglobin, 1924, *Prenanteon*)

euscelisi (Haupt, 1941, *Prenanteon*)

semenovi (Ponomarenko, 1970, *Prenanteon*)

foveatus (Richards, 1971, *Prenanteon*)

pektusanense (Moczar, 1983, *Prenanteon*)

clavatum (Moczar, 1983, *Prenanteon*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subfamily Aphelopinae Perkins, 1912

Genus *Aphelopus* Dalman, 1823

Nomenclature:

ANTAPHELOPUS Benoit, 1951

GYMNAPHELOPUS Benoit, 1951

Notes: Data on five species reared in Wales from Jervis (1977).

Aphelopus atratus (Dalman, 1823)

Nomenclature:

Dryinus atratus Dalman, 1823

holomelas Richards, 1939

Distribution: England, Scotland, Wales, Ireland

Aphelopus camus Richards, 1939

Nomenclature:

heidelbergensis Richards, 1939

Distribution: England, Wales

Aphelopus melaleucus (Dalman, 1818)

Nomenclature:

Gonatopus melaleucus Dalman, 1818

albipes (Ratzeburg, 1848, *Ceraphron*)

Distribution: England, Scotland, Wales, Ireland

***Aphelopus nigriceps* Kieffer, 1905**

Distribution: England, Scotland, Wales, Ireland

***Aphelopus querceus* Olmi, 1984**

Distribution: England

Notes: added by Burn (1995)

***Aphelopus serratus* Richards, 1939**

Distribution: England, Scotland, Wales, Ireland

Subfamily Bocchinae Richards, 1939**Genus *Mystrophorus* Förster, 1856*****Mystrophorus formicaeformis* Ruthe, 1859**

Distribution: England

Subfamily Dryininae Kieffer, 1906**Genus *Dryinus* Latreille, 1804****Nomenclature:**

CAMPYLONYX Westwood, 1835

PARADRYINUS Perkins, 1905

CHLORODRYINUS Perkins, 1905

PLASTODRYINUS Kieffer, 1906

MESODRYINUS Kieffer, 1906

HESPERODRYINUS Perkins, 1907

Dryinus collaris* (Linnaeus, 1767)*Nomenclature:**

Sphex collaris Linnaeus, 1767

formicarius Latreille, 1805

ampuliciformis (Westwood, 1835, *Campylonyx*)

corsicae (Kieffer, 1914, *Lestodryinus*)

Distribution: England

***Dryinus niger* Kieffer, 1904**

Nomenclature:

britannicus (Richards, 1939, *Mesodryinus*)

Distribution: England

Subfamily Gonatopodinae Kieffer, 1906

Genus *Gonatopus* Ljungh, 1810

Nomenclature:

DICONDYLUS Haliday, 1829-30

LABEO Haliday, 1833

PSEUDOGONATOPUS Perkins, 1905

NEOGONATOPUS Perkins, 1905

PACHYGONATOPUS Perkins, 1905

CHALCOGONATOPUS Perkins, 1905

EUGONATOPUS Perkins, 1905

PLATYGONATOPUS Kieffer, 1906

AGONATOPUS Perkins, 1907

AGONATOPOIDES Perkins, 1907

EUCAMPTONYX Perkins, 1907

CYRTOGONATOPUS Kieffer, 1907

DIGONATOPUS Kieffer, 1913

LABERIUS Kieffer, 1914

TRICHOGONATOPUS Hellén, 1930

METAGONATOPUS Oglobin, 1932

ALLOGONATOPUS Haupt, 1938

DONISTHORPINA Richards, 1939

PLECTROGONATOPUS Richards, 1939

TETRODONTOCHELYS Richards, 1939

EPIGONATOPOIDES Richards, 1939

RHYNCHOGONATOPUS Benoit, 1953

MADECAGONATOPUS Benoit, 1953

CYRTOGONATOPOIDES Ponomarenko, 1966

MEGAGONATOPUS Olmi & Currado, 1976

TETRADONTOCHELYS Perkins, 1976

***Gonatopus albosignatus* Kieffer, 1905**

Nomenclature:

separatus (Richards, 1939, *Pseudogonatopus*) synonymy by Burn and Olmi (2011)

Distribution: England, Wales

***Gonatopus bicolor* (Haliday, 1828)**

Nomenclature:

Dryinus bicolor Haliday, 1828

vitripennis (Haliday, 1833, *Labeo*)

excisus (Westwood, 1833, *Antaeon*)

conjunctus Kieffer, 1905

bifarius Kieffer, 1906

decretorius Haupt, 1916

lindbergi (Heikinheimo, 1957, *Dicondylus*)

Distribution: England, Scotland, Wales, Ireland

***Gonatopus clavipes* (Thunberg, 1827)**

Nomenclature:

Gelis clavipes Thunberg, 1827

sepsoides Westwood, 1833

pilosus Thomson, 1860

nigerrimus (Förster, 1861, *Labeo*)

pusillus Szépligeti, 1901, *Labeo*)

hispanicus Kieffer, 1905

sociabilis Kieffer, 1907

borealis Sahlberg, 1910

wagneri Strand, 1919

barbatellus Richards, 1939

campestris Ponomarenko, 1965

rhaensis Ponomarenko, 1970

Distribution: England, Scotland, Wales, Ireland

***Gonatopus distinctus* Kieffer, 1905**

Nomenclature:

septemdentatus Sahlberg, 1910

robustus (Ceballos, 1927, *Dicondylus*)

Distribution: England, Wales

***Gonatopus distinguendus* Kieffer, 1905**

Nomenclature:

flavicornis Thomson, 1860 preocc.

luteicornis Kieffer, 1905

excavatus Sahlberg, 1910

liechtensteini Picard, 1932

procerus (Haupt, 1938, *Allogonatopus*)

thomsoni Hellén, 1953

rossicus Ponomarenko, 1965

Distribution: England, Wales, Ireland

***Gonatopus formicicolus* (Richards, 1939)**

Nomenclature:

Donisthorpina formicicola Richards, 1939

Distribution: England, Wales

***Gonatopus helleni* Raatikainen, 1961**

Nomenclature:

dichromus Kieffer, 1906

rufescens Hellén, 1935

Distribution: England

Notes: added by Burn (1997)

Gonatopus lunatus* Klug, 1810*Nomenclature:**

bifasciatus Kieffer, 1904

gracilicornis Kieffer, 1904

filicornis Kieffer, 1905

gracilis Kieffer, 1905

marshalli Kieffer, 1905

myrmecophilus Kieffer, 1905

gracilipes Kieffer, 1906

raptoripes Strand, 1919

Distribution: England, Wales

Gonatopus pedestris* Dalman, 1818*Nomenclature:**

ljunghii Westwood, 1833

leucostomus Sahlberg, 1910

arnoldii (Ponomarenko, 1966, *Pachygonatopus*)

Distribution: England

Gonatopus striatus* Kieffer, 1905*Nomenclature:**

richardsi (Moczar, 1965, *Plectrogonatopus*)

tauricus (Ponomarenko, 1965, *Agonatopoides*)

Distribution: England, Scotland, Wales, Ireland

Genus *Haplogonatopus* Perkins, 1905**Nomenclature:**

MONOGONATOPUS Richards, 1939

Haplogonatopus oratorius* (Westwood, 1833)*Nomenclature:**

Gonatopus oratorius Westwood, 1833

Distribution: England

Family Embolemidae Förster, 1856**Genus *Embolemus* Westwood, 1833****Nomenclature:**

MYRMECOMORPHUS Westwood, 1833

POLYPLANUS Nees, 1834

EMBOLIMUS Agassiz, 1846

FORMILA De Romand, 1846

PEDINOMMA Förster, 1856

AMPULICOMORPHA Ashmead, 1893

AMPULICIMORPHA Brues, 1933

Embolemus ruddii* (Westwood, 1833)*Nomenclature:**

Myrmecomorphus ruddii Westwood, 1833

rufescens (Westwood, 1833, *Myrmecomorphus*)

sickershusanus (Nees, 1834, *Polyplanus*)

antennalis (Kieffer, 1906, *Pedinomma*) synonymy by Hilpert (1989)

holochlora (Kieffer, 1906, *Pedinomma*)

hypochlora (Kieffer, 1906, *Pedinomma*)

rufus Kieffer, 1906

Distribution: England, Scotland, Wales

Vespoidea**Superfamily VESPOIDEA**

Notes: Some distribution data for Mutillidae, Sapygidae, Tiphiidae and Vespidae from Archer (2014). Figs 4, 5, 6: habitus of selected British Vespoidea.

Family Formicidae Latreille, 1809

Notes: Nomenclature, synonymy and higher classification based on Bolton (1995), Bolton (2003) and [AntWeb](#), with additional references given.

Subfamily Dolichoderinae Forel, 1878

Notes: [LINEPITHEMA Mayr, 1866 # *humile* (Mayr, 1868, *Hypoclinea*)] Although this highly invasive species has the potential to establish itself in hothouses, given the correct climate, we are unaware of any established colonies being found in Britain. Any introductions have been of isolated workers.

Genus *Tapinoma* Förster, 1850

Nomenclature:

MICROMYRMA Dufour, 1857

SEMONIUS Forel, 1910

TAPINOPTERA Santschi, 1925

ZATAPINOMA Wheeler, 1928

NEOCLYSTOPSENELLA Kurian, 1955

Tapinoma erraticum (Latreille, 1798)

Nomenclature:

Formica erraticum Latreille, 1798

caerulescens (Losana, 1834, *Formica*)

glabella (Nylander, 1849, *Formica*)

collina Förster, 1850

bononiensis Emery, 1925

breve Emery, 1925

tauridis Emery, 1925

transcaucasica Karavaiev, 1927

Distribution: England

Tapinoma subboreale Seifert, 2012

Nomenclature:

ambiguum misident.

madeirense misident.

Distribution: England

Notes: Seifert (2012) clarified the identity of the north European *Tapinoma*.

*Tapinoma melanocephalum* (Fabricius, 1793)**Nomenclature:**

Formica melanocephala Fabricius, 1793
nana (Jerdon, 1851, *Formica*) preocc.
pellucida (Smith, 1857, *Myrmica*)
familiaris (Smith, 1860, *Formica*) preocc.
australe Santschi, 1928
australis Santschi, 1928

Subfamily Formicinae Latreille, 1802**Genus *Formica* Linnaeus, 1758****Nomenclature:**

FORMICINA Schuckard, 1840
NEOFORMICA Wheeler, 1913
RAPTIFORMICA Forel, 1913
SERVIFORMICA Forel, 1913
COPTOFORMICA Müller, 1923
ADFORMICA Lomnicki, 1925

Formica aquilonia* Yarrow, 1955*Nomenclature:**

schmidti Ruzsky, 1920 preocc.

Distribution: Scotland, Ireland

Formica cunicularia* Latreille, 1798*Nomenclature:**

fuscorufibarbis Forel, 1874
glauca Ruzsky, 1896
rubescens Forel, 1904
caucasica Wheeler, 1913
volgensis Ruzsky, 1914
katuniensis Ruzsky, 1915
montivaga Santschi, 1928

montaniformis Kuznetsov-Ugamsky, 1929

fuscoides Dlussky, 1967

Distribution: England, Wales

***Formica exsecta* Nylander, 1846**

Nomenclature:

exsectopressilabris Forel, 1874

rubens Forel, 1874

etrusca Emery, 1909

dalcqi Bondroit, 1918

sudetica Scholz, 1924

wheeleri Creighton, 1935

kontuniemii Betrem, 1954

nemoralis Dlussky, 1964

Distribution: England, Scotland

***Formica fusca* Linnaeus, 1758**

Nomenclature:

libera Scopoli, 1763

flavipes Geoffroy, 1785

barbata Razoumowski, 1789

tristis Christ, 1791

glebaria Nylander, 1846

marcida Wheeler, 1913

pallipes Kuznetsov-Ugamsky, 1926

rufipes Stitz, 1930

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Formica lemani* Bondroit, 1917**

Nomenclature:

borealis Vashkevich, 1924

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Formica lugubris* Zetterstedt, 1838*Nomenclature:**

congerens Nylander, 1846

santschii Wheeler, 1913

nylanderi Bondroit, 1920

unicolor Ruzsky, 1926

montana Sadil, 1953

Distribution: England, Scotland, Wales, Ireland

Formica picea* Nylander, 1846*Nomenclature:**

candida misident.

glabra White, 1884 preocc.

transcaucasica Nasonov, 1889

orientalis Ruzsky, 1915

piceoinplana Emery, 1925

inplana Emery, 1925

lochmatteri Stärcke, 1935

Distribution: England, Wales

Notes: Not a homonym under article 23.9.5 of the Code (Seifert 2004).

Formica pratensis* Retzius, 1783*Nomenclature:**

nigricans Bondroit, 1912

cordieri Bondroit, 1917

grouvellei Bondroit, 1918

ciliata Ruzsky, 1926

thyssei Stärcke, 1942

pratensoides Gösswald, 1951

Distribution: England

Notes: Probably extinct in Britain (Edwards and Broad 2005).

Formica rufa* Linnaeus, 1761*Nomenclature:**

ferruginea Christ, 1791
dorsata Panzer, 1798
major Nylander, 1849
piniphila Schenck, 1852
apicalis Smith, 1858
rufopratensis Forel, 1874
meridionalis Nasonov, 1889
gaullei Bondroit, 1917

Distribution: England, Wales

Formica rufibarbis* Fabricius, 1793*Nomenclature:**

nicaeensis Leach, 1825
stenoptera Förster, 1850
cinereorufibarbis Forel, 1874
defensor Smith, 1878
fraterna Smith, 1878
piligera Lomnicki, 1925

Distribution: England

Formica sanguinea* Latreille, 1798*Nomenclature:**

dominula Nylander, 1846
fusciceps Emery, 1895
mollesonae Ruzsky, 1903
clarius Ruzsky, 1905
flavorubra Forel, 1909
borea Santschi, 1925
strenua Santschi, 1925
griseopubescens Kuznetsov-Ugamsky, 1926
monticola Kuznetsov-Ugamsky, 1926

rotundata Kuznetsov-Ugamsky, 1926

arenicola Kuznetsov-Ugamsky, 1928

leninei Santschi, 1928

tristis Karavaiev, 1929

Distribution: England, Scotland, Wales

Genus *Lasius* Fabricius, 1804

Nomenclature:

CHTHONOLASIVUS Ruzsky, 1912

DENDROLASIVUS Ruzsky, 1912

CAUTOLASIVUS Wilson, 1955

AUSTROLASIVUS Faber, 1967

Lasius alienus (Foerster, 1850)

Nomenclature:

Formica aliena Foerster, 1850

americanus Emery, 1893

pannonica Rösler, 1942

Distribution: England, Scotland, Wales, Ireland

Lasius brunneus (Latreille, 1798)

Nomenclature:

Formica brunnea Latreille, 1798

pallida (Latreille, 1798, *Formica*)

timida (Förster, 1850, *Formica*)

alienobrunneus Forel, 1874

nigrobrunneus (Donisthorpe, 1926, *Acanthomyops*)

Distribution: England, Wales

Lasius emarginatus (Olivier, 1792)

Nomenclature:

Formica emarginata Olivier, 1792

brunneoemarginatus Forel, 1874

brunneoides Forel, 1874

nigromarginatus Forel, 1874

illyricus Zimmermann, 1935

pontica Stärcke, 1944

Distribution: England

Notes: added by Pontin (2008); further records are given by Smith and Williams (2008)

***Lasius flavus* (Fabricius, 1781)**

Nomenclature:

Formica flava Fabricius, 1781

ruficornis (Fabricius, 1804, *Formica*)

brevicornis Emery, 1893

fuscooides Ruzsky, 1902

odoratus Ruzsky, 1905

claripennis Wheeler, 1917

microps Wheeler, 1917

morbosa (Bondroit, 1918, *Formicina*)

ibericus Santschi, 1925

apennina Menozzi, 1925

olivacea Karavaiev, 1926

helvus Cook, 1953

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Lasius fuliginosus* (Latreille, 1798)**

Nomenclature:

Formica fuliginosa Latreille, 1798

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Lasius meridionalis* (Bondroit, 1920)**

Nomenclature:

Formicina meridionalis Bondroit, 1920

Distribution: England, Wales

Lasius mixtus* (Nylander, 1846)*Nomenclature:**

Formica mixta Nylander, 1846

Distribution: England, Scotland, Wales, Ireland

*Lasius neglectus* Van Loon, Boomsma & Andrasfalvy, 1990

Distribution: England

Notes: added by Fox (2009)

Lasius niger* (Linnaeus, 1758)*Nomenclature:**

Formica nigra Linnaeus, 1758

nigerrima (Christ, 1791, *Formica*)

pallescens (Schenck, 1852, *Formica*)

alienoniger Forel, 1874

emeryi Ruzsky, 1905

nitidus (Kuznetsov-Ugamsky, 1927, *Acanthomyops*)

minimus (Kuznetsov-Ugamsky, 1928, *Acanthomyops*)

transylvanica Rösler, 1943

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Lasius platythorax* Seifert, 1991**

Distribution: England, Scotland, Wales, Ireland

Notes: added by Seifert (1992)

***Lasius psammophilus* Seifert, 1992**

Distribution: England, Wales

Notes: added by Seifert (1992)

Lasius sabularum* (Bondroit, 1918)*Nomenclature:**

Formicina sabularum Bondroit, 1918

Distribution: England, Wales, Isle of Man

***Lasius umbratus* (Nylander, 1846)**

Nomenclature:

Formica umbrata Nylander, 1846
aphidicola (Walsh, 1863, *Formica*)
exacutus Ruzsky, 1902
affinoumbratus Donisthorpe, 1914
belgarum (Bondroit, 1918, *Formicina*)
silvestrii Wheeler, 1928
hirtiscapus Stärcke, 1937
osakana Santschi, 1941
nyaradi (Rösler, 1943, *Chthonolasius*)
epinotalis Buren, 1944

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Genus *Paratrechina* Motschulsky, 1863

*Paratrechina longicornis* (Latreille, 1802)

Nomenclature:

Formica longicornis Latreille, 1802
vagans (Jerdon, 1851, *Formica*)
gracilescens (Nylander, 1856, *Formica*)
currens Motschoulsky, 1863

Genus *Plagiolepis* Mayr, 1861

Nomenclature:

APOROMYRMEX Faber, 1969
PARAPLAGIOLEPIS Faber, 1969

*Plagiolepis schmitzii* Forel, 1895

Nomenclature:

barbara Santschi, 1911
croisi Santschi, 1920

madeirensis Emery, 1921

Notes: Two nests persisted on the Isle of Wight from 2007-2008 (BB, pers. obs., specimens in NHM, BB coll. and B. Seifert coll.) but appear to have died out since. A native of the Azores and Madeira.

Subfamily Myrmicinae Lepeletier, 1835

Notes: The tribal classification follows Ward et al. (2015).

Tribe Attini Smith, 1858

Genus *Pheidole* Westwood, 1841

Pheidole megacephala (Fabricius, 1793)

Nomenclature:

Formica megacephala Fabricius, 1793

edax (Forskål, 1775, *Formica*)

trinodis (Losana, 1834, *Myrmica*)

pusilla (Heer, 1852, *Oecophthora*)

laevigata (Smith, 1855, *Myrmica*)

agilis (Smith, 1857, *Myrmica*)

testacea (Smith, 1858, *Atta*)

janus Smith, 1858

suspiciosa (Smith, 1859, *Myrmica*)

laevigata Mayr, 1862

perniciosa (Gerstäcker, 1862, *Oecophthora*)

picata Forel, 1891

scabrior Forel, 1891

gietleni Forel, 1905

bernhardae Emery, 1915

Notes: A tramp species, in the past regarded as a proper introduction in Britain but no established colonies have been reported in the period 1970–present. On a world-wide scale its importance as a tramp species seems to be diminishing. The origin of *megacephala* is certainly Afrotropical as it is a member of a large and successful species group that is otherwise confined to that region.

Tribe Crematogastrini Forel, 1893

Genus # *Cardiocondyla* Emery, 1869

Notes: *Cardiocondyla britteni* Crawley, 1920 was described from a worker casually introduced in Britain; included here only because the type-locality is Britain.

Genus # *Crematogaster* Lund, 1831

Notes: *Crematogaster scutellaris* (Olivier, 1792, *Formica*) is an occasional accidental import with cork from southern Europe. It has never established in Britain and, with the decrease in the cork trade, imports of this species will probably become even rarer.

Genus *Formicoxenus* Mayr, 1855

Nomenclature:

SYMMYRMICA Wheeler, 1904

Formicoxenus nitidulus (Nylander, 1846)

Nomenclature:

Myrmica nitidula Nylander, 1846

laeviuscula (Förster, 1850, *Myrmica*)

picea (Wasmann, 1906, *Leptothorax*)

Distribution: England, Scotland

Genus *Leptothorax* Mayr, 1855

Nomenclature:

DORONOMYRMEX Kutter, 1945

MYCHOTHORAX Ruzsky, 1904

Notes: Many species previously placed in *Leptothorax* have been transferred to *Temnothorax* by Bolton (2003).

Leptothorax acervorum (Fabricius, 1793)

Nomenclature:

Formica acervorum Fabricius, 1793

lacteipennis (Zetterstedt, 1838, *Myrmica*)

nigrescens Ruzsky, 1905

superus Ruzsky, 1905

kamtschaticum Ruzsky, 1920

orientalis (Kuznetsov-Ugamsky, 1928, *Mychothorax*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Genus *Myrmecina* Curtis, 1829

Nomenclature:

ARCHAEOMYRMEX Mann, 1921

***Myrmecina graminicola* (Latreille, 1802)**

Nomenclature:

Formica graminicola Latreille, 1802

latreillei Curtis, 1829

striatula (Nylander, 1849, *Myrmica*)

bidens (Förster, 1850, *Myrmica*)

kutteri Forel, 1914

grouvellei Bondroit, 1918

gotlandica Karavaiev, 1930

oelandica Karavaiev, 1930

dentata Santschi, 1939

Distribution: England, Wales

Genus *Strongylognathus* Mayr, 1853

Nomenclature:

MYRMUS Schenck, 1853

***Strongylognathus testaceus* (Schenck, 1852)**

Nomenclature:

Eciton testaceum Schenck, 1852

emarginatus (Schenck, 1852, *Myrmus*)

diveri Donisthorpe, 1936

Distribution: England

Genus *Temnothorax* Mayr, 1861**Nomenclature:**

MACROMISCHA Roger, 1863
DICHOTHORAX Emery, 1895
MYRMOXENUS Ruzsky, 1902
PROTOMOGNATHUS Wheeler, 1905
ANTILLAEMYRMEX Mann, 1920
CROESOMYRMEX Mann, 1920
CHALEPOXENUS Menozzi, 1923
MYRMAMMOPHILUS Menozzi, 1925
MYRAFANT Smith, 1950
ICOTHORAX Hamann & Klemm, 1967

Temnothorax albipennis* (Curtis, 1854)*Nomenclature:**

Stenammina albipennis Curtis, 1854
tuberculum misident.; Orledge (1998)
tuberointerruptus (Bondroit, 1918, *Leptochothorax*)

Distribution: England, Wales

Temnothorax interruptus* (Schenck, 1852)*Nomenclature:**

Myrmica interrupta Schenck, 1852
simpliciuscula (Nylander, 1856, *Myrmica*)
tuberoaffinis (Bondroit, 1918, *Leptochothorax*)

Distribution: England

Temnothorax nylanderi* (Foerster, 1850)*Nomenclature:**

Myrmica nylanderi Foerster, 1850
cingulata (Schenck, 1852, *Myrmica*)
nylanderocorticalis (Forel, 1874, *Leptochothorax*)
nylanderotuberculum (Ruzsky, 1902, *Leptochothorax*)

Distribution: England, Wales

*Temnothorax unifasciatus* (Latreille, 1798)

Nomenclature:

Formica unifasciata Latreille, 1798
anoplogynus (Emery, 1869, *Leptothorax*)
unifasciatointerruptus (Forel, 1874, *Leptothorax*)
kirillovi (Ruzsky, 1905, *Leptothorax*)
brauneri (Karavaiev, 1937, *Leptothorax*)
salina (Karavaiev, 1937, *Leptothorax*)
ucrainicus (Arnol'di, 1977, *Leptothorax*)

Distribution: England

Notes: Recorded from England as an accidental introduction by Fox (2011).

Genus *Tetramorium* Mayr, 1855

Nomenclature:

TETROGMUS Roger, 1857
ANERGATES Forel, 1874
XIPHOMYRMEX Forel, 1887
TRIGLYPHOTHRIX Forel, 1890
RHOPTROMYRMEX Mayr, 1901
ATOPULA Emery, 1912
MACROMISCHOIDES Wheeler, 1920
LOBOMYRMEX Kratochvil, 1941
TELEUTOMYRMEX Kutter, 1950

***Tetramorium atratum* (Schenck, 1852)**

Nomenclature:

Myrmica atratula Schenck, 1852
friedlandi (Creighton, 1934, *Anergates*)

Distribution: England

Tetramorium bicarinatum (Nylander, 1846)

Nomenclature:

- Myrmica bicarinata* Nylander, 1846
guineense misident.
cariniceps (Guérin-Méneville, 1852, *Myrmica*)
kollari (Mayr, 1853, *Myrmica*)
modesta (Smith, 1860, *Myrmica*)
reticulata (Smith, 1862, *Myrmica*)

Tetramorium caespitum (Linnaeus, 1758)

Nomenclature:

- Formica caespitum* Linnaeus, 1758
fusca (Leach, 1825, *Formica*)
fuscula (Nylander, 1846, *Myrmica*)
modesta (Foerster, 1850, *Myrmica*)
himalayanum Viehmeyer, 1914
hammi Donisthorpe, 1915
immigrans Santschi, 1927
indocile Santschi, 1927
transbaicalense Ruzsky, 1936
transversinodis (Enzmann, 1946, *Myrmica*)
fusciclavum Consani & Zngheri, 1952
jiangxiense Wang & Xiao, 1988

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: *Tetramorium caespitum* s.l. is now recognised as comprising several species but the species present in Britain is apparently the true *caespitum*, at least on the basis of specimens from southern England (Schlick-Steiner et al. 2006).

Tetramorium simillimum (Smith, 1851)

Nomenclature:

- Myrmica simillima* Smith, 1851
parallela (Smith, 1859, *Myrmica*)
pygmaeum Emery, 1877

denticulatum Forel, 1902
bantouana Santschi, 1910
opacior Forel, 1913
exoleta Santschi, 1914
brevispinosa (Borgmeier, 1928, *Wasmannia*)
insulare Santschi, 1928

Tribe Myrmicini Lepeletier, 1835

Genus *Myrmica* Latreille, 1804

Nomenclature:

SIFOLINIA Emery, 1907
SOMMIMYRMA Menozzi, 1925
SYMBIOMYRMA Arnol'di, 1930
PARAMYRMICA Cole, 1957
DODECAMYRMICA Arnol'di, 1968

Myrmica hirsuta Elmes, 1978

Distribution: England, Wales

Myrmica karavajevi (Arnol'di, 1930)

Nomenclature:

Symbiomyrma karavajevi Arnol'di, 1930
laurae misident.
pechei (Samsinak, 1957, *Sifolinia*)
faniensis van Boven, 1970
winterae (Kutter, 1973, *Sifolinia*)

Distribution: England, Wales

Myrmica lobicornis Nylander, 1846

Nomenclature:

denticornis Curtis, 1854
arduennae Bondroit, 1911
angustifrons Stärcke, 1927

brunescens Karavaiev, 1929
burtshakabramovitshi Karavaiev, 1929
starki Karavaiev, 1929
foreli Santschi, 1931
alpestris Arnol'di, 1934
kievensis Karavaiev, 1934
lissahorensis Stitz, 1939

Distribution: England, Scotland, Wales

***Myrmica lonae* Finzi, 1926**

Distribution: Scotland

Notes: added by Seifert (2000)

***Myrmica rubra* (Linnaeus, 1758)**

Nomenclature:

Formica rubra Linnaeus, 1758
laevinodis Nylander, 1846
longiscapus Curtis, 1854
champlaini Forel, 1901
europaea Finzi, 1926
bruesi Weber, 1947
microrubra Seifert, 1993

Distribution: England

***Myrmica ruginodis* Nylander, 1846**

Nomenclature:

dimidiata Say, 1836
diluta Nylander, 1849
ruginodolaevinodis Forel, 1874
silvestrii Wheeler, 1928
sontica Santschi, 1937
yoshiokai Weber, 1947
macrogyna Brian & Brian, 1949

microgyna Brian & Brian, 1949

mutata Sadil, 1952

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Myrmica sabuleti* Meinert, 1861**

Nomenclature:

scabrinodolobicornis Forel, 1874

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Myrmica scabrinodis* Nylander, 1846**

Nomenclature:

rugulosoides Forel, 1915

pilosiscapus Bondroit, 1920

ahngeri Karavaiev, 1926

scabrinodosabuleti Sadil, 1952

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Myrmica schencki* Viereck, 1903**

Nomenclature:

kutteri Finzi, 1926

subopaca Arnol'di, 1934

betuliana Ruzsky, 1946

schenckioides Boer & Noordijk, 2005

Distribution: England, Wales, Ireland

***Myrmica specioides* Bondroit, 1918**

Nomenclature:

silvestrianum Emery, 1924

striata Finzi, 1926

sancta Karavaiev, 1926

nevodovskii (Karavaiev, 1926, *Leptothorax*)

turcica Santschi, 1931

puerilis Stärcke, 1942

dolens Stärcke, 1942
balcanica Sadil, 1952
scabrinodoides Sadil, 1952
tschuliensis Arnol'di, 1976
kozakorum Radchenko & Elmes, 2010

Distribution: England

***Myrmica sulcinodis* Nylander, 1846**

Nomenclature:

perelegans Curtis, 1854
nigripes Ruzsky, 1895
myrmecophila Wasmann, 1910
sulcinodoruginodis Donisthorpe, 1915
sulcinodoscabrinodis Forel, 1915
derzhavini Ruzsky, 1920
vicaria Kuznetsov-Ugamsky, 1928
eximia Kupyanskaya, 1990

Distribution: England, Scotland, Wales

***Myrmica vandeli* Bondroit, 1920**

Distribution: England, Wales

Notes: added by Elmes et al. (2003)

Tribe Solenopsidini Forel, 1893

Genus *Monomorium* Mayr, 1855

*Monomorium floricola* (Jerdon, 1851)

Nomenclature:

Atta floricola Jerdon, 1851
cinnabari Roger, 1863
poecilum Roger, 1863
specularis Mayr, 1866

impressum Smith, 1876

philippinensis Forel, 1910

furina Forel, 1911

floeanum Stitz, 1932

angusticlava Donisthorpe, 1947

Monomorium pharaonis (Linnaeus, 1758)

Nomenclature:

Formica pharaonis Linnaeus, 1758

antiguensis (Fabricius, 1793, *Formica*)

domestica (Shuckard, 1838, *Myrmica*)

minuta (Jerdon, 1851, *Atta*)

vastator (Smith, 1857, *Myrmica*)

contigua (Smith, 1858, *Myrmica*)

fragilis (Smith, 1858, *Myrmica*)

Genus *Solenopsis* Westwood, 1840

Nomenclature:

DIPLORHOPTRUM Mayr, 1855

OCTELLA Forel, 1915

SYNSOLENOPSIS Forel, 1918

DIAGYNE Santschi, 1923

EUOPHTHALMA Creighton, 1930

LABAUCHENA Santschi, 1930

OEDALEOCERUS Creighton, 1930

BISOLENOPSIS Kusnezov, 1953

PARAMYRMA Kusnezov, 1953

GRANISOLENOPSIS Kusnezov, 1957

LILIDRIS Kusnezov, 1957

Solenopsis fugax (Latreille, 1798)

Nomenclature:

Formica fugax Latreille, 1798

flavidula (Nylander, 1849, *Myrmica*)

latroides Ruzsky, 1905
orientalis Ruzsky, 1905
kasalinensis Emery, 1909
pontica Santschi, 1934
scythica Santschi, 1934
furtiva Santschi, 1934
balachowskyi Bernard, 1950
banyulensis Bernard, 1950
duboscqui Bernard, 1950
laevithorax Bernard, 1950
monticola Bernard, 1950
nicaeensis Bernard, 1950
provincialis Bernard, 1950
pygmaea Bernard, 1950
richardi Bernard, 1950
robusta Bernard, 1950
rugosa Bernard, 1950
tertialis Ettershank, 1966
avium (Bernard, 1978, *Diplorhoptrum*)
delta (Bernard, 1978, *Diplorhoptrum*)
insulare (Bernard, 1978, *Diplorhoptrum*)
pilosum (Bernard, 1978, *Diplorhoptrum*)

Distribution: England

Tribe Stenammini Ashmead, 1905

Genus *Stenamma* Westwood, 1839

Nomenclature:

ASEMORHOPTRUM Mayr, 1861
THERYELLA Santschi, 1921

***Stenamma debile* (Förster, 1850)**

Nomenclature:

Myrmica debilis Förster, 1850

minkii (Förster, 1850, *Myrmica*)

golosejevi Karavaiev, 1926

ucrainicum Arnol'di, 1928

polonicum Begdon, 1932

rousseti Casevitz-Weulerrse, 1990

Distribution: England, Wales, Ireland

Notes: added by DuBois (1993)

***Stenamma westwoodii* Westwood, 1839**

Distribution: England

Notes: Records from Ireland may relate to *debile* (Fox in Collins and Roy 2012).

Subfamily Ponerinae Lepeletier, 1835

Genus *Hypoponera* Santschi, 1938

Notes: *Hypoponera gibbinota* (Forel, 1912, *Ponera*) was described from a worker casually introduced to Britain.

*Hypoponera punctatissima* (Roger, 1859)

Nomenclature:

Ponera punctatissima Roger, 1859

androgyna (Roger, 1859, *Ponera*)

tarda (Charsley, 1877, *Ponera*)

jugata (Forel, 1892, *Ponera*)

brevis (Santschi, 1911, *Ponera*)

cognata (Santschi, 1912, *Ponera*)

durbanensis (Forel, 1914, *Ponera*)

incisa (Santschi, 1914, *Ponera*)

sordida (Santschi, 1914, *Ponera*)

petri (Forel, 1916, *Ponera*)

exacta (Santschi, 1923, *Ponera*)

mina (Wheeler, 1927, *Ponera*)

mumfordi (Wheeler, 1931, *Ponera*)

argonautorum (Arnol'di, 1932, *Ponera*)

mesoepinotalis (Weber, 1942, *Ponera*)

breviceps (Bernard, 1953, *Ponera*)

ursoidea (Bernard, 1953, *Ponera*)

sulcitana (Stefani, 1970, *Ponera*)

Distribution: England, Scotland, Wales, Ireland

Hypoponera ergatandria (Forel, 1893)

Nomenclature:

Ponera ergatandria Forel, 1893

schauinslandi (Emery, 1899, *Ponera*) synonymy by Seifert (2013)

kalakauae (Forel, 1899, *Ponera*)

aemula (Santschi, 1911, *Ponera*)

bondroiti (Forel, 1911, *Ponera*)

Distribution: England

Genus *Ponera* Latreille, 1804

Nomenclature:

PSEUDOCRYPTOPONE Wheeler, 1933

SELENOPONE Wheeler, 1933

PTEROPONERA Bernard, 1950

Ponera coarctata (Latreille, 1802)

Nomenclature:

Formica coarctata Latreille, 1802

contracta (Latreille, 1802, *Formica*)

lucida Emery, 1898

atlantis Santschi, 1921

Distribution: England, Wales

Ponera testacea Emery, 1895

Nomenclature:

crassisquama Emery, 1916

Distribution: England

Notes: added by Attewell et al. (2010)

Family Mutillidae Latreille, 1802

Notes: Nomenclature follows Lelej (2002), who includes full synonymy. Only names that have been used in the British literature are included here.

Subfamily Mutillinae Latreille, 1802

Genus *Mutilla* Linnaeus, 1758

Mutilla europaea Linnaeus, 1758

Distribution: England, Scotland

Genus *Smicromyrme* Thomson, 1870

Smicromyrme rufipes (Fabricius, 1787)

Nomenclature:

Mutilla rufipes Fabricius, 1787

Distribution: England

Subfamily Myrmosinae Fox, 1894

Genus *Myrmosa* Latreille, 1796

Myrmosa atra Panzer, 1801

Nomenclature:

melanocephala (Fabricius, 1793, *Mutilla*) preocc.

Distribution: England, Wales, Ireland, Isle of Man

Notes: The nominate subspecies occurs in England and Wales, *atra erythrocephala* Yarrow, 1954 in Ireland and the Isle of Man.

Family Pompilidae Latreille, 1805

Nomenclature:

PSAMMOCHARIDAE Banks, 1910

Notes: Classification follows Wahis (1986), Wahis (2006). Some distribution data from Day (1988).

Subfamily Pepsinae Lepeletier, 1845

Tribe Pepsini Lepeletier, 1845

Genus *Auplopus* Spinola, 1841

Nomenclature:

PILPOMUS Costa, 1859

PSEUDAGENIA Kohl, 1844

Auplopus carbonarius (Scopoli, 1763)

Nomenclature:

Sphex carbonaria Scopoli, 1763

punctum (Fabricius, 1804, *Ceropales*)

canaliculatus (Schenck, 1857, *Agenia*)

submarginatus Lepeletier, 1845

albigena Lepeletier, 1845

collinus Haupt, 1962

silvalis Haupt, 1962

Distribution: England, Wales

Genus *Caliadurgus* Pate, 1946

Nomenclature:

CALICURGUS Lepeletier, 1845

Caliadurgus fasciatellus (Spinola, 1808)

Nomenclature:

Pompilus fasciatellus Spinola, 1808

calcaratus (Dahlbom, 1829, *Pompilus*)

maculipennis (Dahlbom, 1829, *Pompilus*)

albispinus (Herrich-Schäffer, 1830, *Pompilus*)

curtus (Zetterstedt, 1838, *Pompilus*)

gyllenhali (Dahlbom, 1843, *Priocnemis*)

labiatus (Lepeletier, 1845, *Anoplius*)

unimacula (Lepeletier, 1845, *Anoplius*)

odontellus (Lepeletier, 1845, *Calicurgus*)

bivirgulatus (Costa, 1881, *Pompilus*)

fuscopennis (Verhoeff, 1892, *Priocnemis*)

Distribution: England, Wales

Genus *Cryptocheilus* Panzer, 1806

Nomenclature:

CALICURGUS Brullé, 1833

CHLOROCHAILUS Wolf, 1965

Subgenus *Adonta* Bilberg, 1820

Nomenclature:

SALIUS Fabricius, 1804

HOMONOTUS Dahlbom, 1845

***Cryptocheilus* (*Adonta*) *notatus* (Rossi, 1792)**

Nomenclature:

Sphex notata Rossi, 1792

?*guttus* (Spinola, 1808, *Pompilus*)

affinis Vander Linden, 1827, *Pompilus*)

iracundus (Dufour, 1841, *Pompilus*)

apricus (Lepeletier, 1845, *Calicurgus*)

melanius (Lepeletier, 1845, *Calicurgus*)

?*binotatus* (Marquet, 1879, *Priocnemis*) preocc.

marquetii (Dalla Torre, 1897, *Salius*)

orientalis Haupt, 1927

Distribution: England, Wales

Genus *Dipogon* Fox, 1897**Subgenus *Deuteragenia* Susterer, 1912*****Dipogon (Deuteragenia) bifasciatus* (Geoffroy, 1785)****Nomenclature:**

Ichneumon bifasciatus Geoffroy, 1785

hircanus (Fabricius, 1798, *Pompilus*)

intermedius (Dahlbom, 1843, *Agenia*)

Distribution: England

Dipogon (Deuteragenia) subintermedius* (Magretti, 1886)*Nomenclature:**

Pogonius subintermedius Magretti, 1886

nitidus (Haupt, 1927, *Deuteragenia*)

Distribution: England, Scotland, Wales

Dipogon (Deuteragenia) variegatus* (Linnaeus, 1758)*Nomenclature:**

Sphex variegata Linnaeus, 1758

erythropus (Kohl, 1888, *Agenia*)

structor (Ferton, 1897, *Agenia*)

faggiolii (Haupt, 1927, *Deuteragenia*)

Distribution: England, Scotland, Wales, Ireland

Genus *Priocnemis* Schiødte, 1837**Subgenus *Priocnemis* Schiødte, 1837****Nomenclature:**

MACULIPENNIS Junco, 1946

Priocnemis (Priocnemis) agilis* (Shuckard, 1837)*Nomenclature:**

Pompilus agilis Shuckard, 1837

obtusiventris Schiødte, 1837

fraterculus Junco, 1946

Distribution: England, Scotland, Wales

***Priocnemis (Priocnemis) confusor* Wahis, 2006**

Nomenclature:

gracilis Haupt, 1927 preocc.

gussakowskiji Wolf, 2004 preocc.

Distribution: England, Ireland

***Priocnemis (Priocnemis) cordivalvata* Haupt, 1927**

Distribution: England

***Priocnemis (Priocnemis) exaltata* (Fabricius, 1775)**

Nomenclature:

Sphex exaltata Fabricius, 1775

gibba (Scopoli, 1763, *Sphex*)

revo (Harris, 1780, *Sphex*)

nudipes Dahlbom, 1845

longicornis Haupt, 1927

valkeilai Wolf, 1959

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Priocnemis (Priocnemis) fennica* Haupt, 1927**

Distribution: England, Wales, Ireland

***Priocnemis (Priocnemis) hyalinata* (Fabricius, 1793)**

Nomenclature:

Sphex hyalinata Fabricius, 1793

femoralis (Dahlbom, 1829, *Pompilus*)

discrepans (Costa, 1887, *Pseudagenia*)

trifurcus Radoszkowski, 1888

vitripennis Verhoeff, 1892

notatulus (Saunders, 1896, *Salius*)

pseudofemoralis Susterera, 1938

taigaica Wolf, 1967

Distribution: England, Wales

***Priocnemis (Priocnemis) parvula* Dahlbom, 1845**

Nomenclature:

minor (Zetterstedt, 1879, *Pompilus*)

mocsaryi Gussakovskij, 1930

klosei Haupt, 1937

haupti Susterera, 1938

vinetorum Blüthgen, 1944

minutalis Wahis, 1979 nom. auct.

Distribution: England, Scotland, Wales

***Priocnemis (Priocnemis) propinqua* (Lepeletier, 1845)**

Nomenclature:

Calicurgus propinquus Lepeletier, 1845

agenoides Dubois, 1920

Distribution: England

***Priocnemis (Priocnemis) pusilla* (Schjødt, 1837)**

Nomenclature:

Pompilus pusillus Schjødt, 1837

Distribution: England, Wales

***Priocnemis (Priocnemis) schioedtei* Haupt, 1927**

Distribution: England, Scotland, Wales

Subgenus *Umbripennis* Junco, 1946

Nomenclature:

PRIOCNEMISSUS Haupt, 1949

Priocnemis (Umbripennis) coriacea* Dahlbom, 1843*Nomenclature:***capciosus* Junco, 1946**Distribution:** England***Priocnemis (Umbripennis) perturbator* (Harris, 1780)****Nomenclature:***Sphex perturbator* Harris, 1780*fusca* misident.*ambustor* (Panzer, 1804, *Ichneumon*)*serripes* (Dahlbom, 1829, *Pompilus*)*ambulator* (Lepeletier, 1845, *Calicurgus*)*sepicola* (Smith, 1851, *Pompilus*)*ater* Wolf, 1960**Distribution:** England, Scotland, Wales, Ireland***Priocnemis (Umbripennis) susterai* Haupt, 1927****Nomenclature:***clementi* Haupt, 1927*gasconia* Wolf, 1975**Distribution:** England, Wales**Subfamily Pompilinae Latreille, 1805****Genus *Agenioideus* Ashmead, 1902****Nomenclature:***APOROIDEUS* Ashmead, 1902*GYMNOCHARES* Banks, 1917***Agenioideus cinctellus* (Spinola, 1808)****Nomenclature:***Pompilus cinctellus* Spinola, 1808*clypeatus* (Dahlbom, 1829, *Pompilus*)*punctipes* (Dahlbom, 1832, *Pompilus*)

tibialis (Lepeletier, 1845, *Anoplius*)

Distribution: England, Wales

***Agenioideus sericeus* (Vander Linden, 1827)**

Nomenclature:

Pompilus sericeus Vander Linden, 1827

vicinus (Lepeletier, 1845, *Pompilus*)

subserricornis (Kohl, 1879, *Pompilus*)

declivus (Tournier, 1889, *Pompilus*)

gaullei (Tournier, 1889, *Pompilus*)

hungaricus (Moczar, 1944, *Anospilus*)

Distribution: England

Notes: added by Baldock (2006)

Genus *Anoplius* Dufour, 1834

Subgenus *Anoplius* Dufour, 1834

***Anoplius* (*Anoplius*) *caviventris* (Aurivillius, 1907)**

Nomenclature:

Pompilus caviventris Aurivillius, 1907

cardui (Perkins, 1917, *Pompilus*)

carbonarius Haupt, 1937

atricolor Moczar, 1944

Distribution: England, Wales

***Anoplius* (*Anoplius*) *concinnus* (Dahlbom, 1845)**

Nomenclature:

Pompilus concinnus Dahlbom, 1845

vacillans (Wesmael, 1851, *Pompilus*)

approximatus (Smith, 1877, *Pompilus*)

bifidus (Morawitz, 1891, *Pompilus*)

distinguendus (Morawitz, 1891, *Pompilus*)

haereticus (Tournier, 1889, *Pompilus*)

Distribution: England, Scotland, Wales, Ireland

***Anoplius (Anoplius) nigerrimus* (Scopoli, 1763)**

Nomenclature:

Sphex nigerrima Scopoli, 1763

nigrus (Fabricius, 1775, *Sphex*)

incisus (Tischbein, 1850, *Pompilus*)

melanarius (Schenck, 1857, *Pompilus*) preocc.

excerptus (Tournier, 1889, *Pompilus*)

difficilis (Tournier, 1889, *Pompilus*)

wheeleri Banks, 1939

banksi Dreisbach, 1950

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Arachnoproctonus* Howard, 1901

Nomenclature:

POMPILINUS Ashmead, 1902

***Anoplius (Arachnoproctonus) infuscatus* (Vander Linden, 1827)**

Nomenclature:

Pompilus infuscatus Vander Linden, 1827

minor (Herrich-Schäffer, 1830, *Pompilus*)

sericatus (Shuckard, 1835, *Pompilus*)

chalybeatus (Schiødte, 1837, *Pompilus*)

difformis (Schiødte, 1837, *Pompilus*)

dispar (Dahlbom, 1843, *Pompilus*)

sabulicola (Thomson, 1874, *Pompilus*)

meticulosa (Costa, 1882, *Pompilus*)

aeruginosus (Tournier, 1890, *Pompilus*)

aerarius (Tournier, 1890, *Pompilus*)

argentatus (Tournier, 1890, *Pompilus*)

calcatus (Tournier, 1890, *Pompilus*)

onus (Tournier, 1890, *Pompilus*)
stellatus (Tournier, 1890, *Pompilus*)
utendus (Tournier, 1890, *Pompilus*)
vivus (Tournier, 1890, *Pompilus*)
xysticus (Tournier, 1890, *Pompilus*)
petulans Haupt, 1962
cinctellus (Haupt, 1962, *Paracyphonyx*)
lusitanicus Wolf & Diniz, 1970
fortunatus Wolf, 1975
simii Wolf, 1978

Distribution: England, Wales

***Anoplius (Arachnoproctonus) viaticus* (Linnaeus, 1758)**

Nomenclature:

Sphex viatica Linnaeus, 1758
fuscus (Linnaeus, 1761, *Sphex*)
paganus (Dahlbom, 1843, *Pompilus*)
propinquus (Smith, 1879, *Pompilus*)
tibialis (Tournier, 1890, *Pompilus*) preocc.
delatorius (Tournier, 1890, *Pompilus*)
immixtus (Tournier, 1890, *Pompilus*)
pleropicus (Tournier, 1890, *Pompilus*)
valesicus (Tournier, 1890, *Pompilus*)
macrurus (Dalla Torre, 1897, *Pompilus*)
holomelas (Mantero, 1905, *Pompilus*) preocc.

Distribution: England, Wales, Ireland

Genus *Aporus* Spinola, 1808

***Aporus unicolor* Spinola, 1808**

Nomenclature:

femoralis Vander Linden, 1827
castor (Kohl, 1838, *Pompilus*)

Distribution: England, Wales

Genus *Arachnospila* Kincaid, 1900

Subgenus *Ammosphex* Wilcke, 1942

Nomenclature:

ANOPOMPILINUS Dreisbach, 1949

ARIDOPOMPILUS Wolf, 1965

BOREOPOMPILUS Wolf, 1965

HOLARCTOPOMPILUS Wolf, 1965

SAXATILIPOMPILUS Wolf, 1965

***Arachnospila (Ammosphex) anceps* (Wesmael, 1851)**

Nomenclature:

Pompilus anceps Wesmael, 1851

?*vaga* (Harris, 1870, *Sphex*) preocc.

unguicularis (Thomson, 1870, *Pompilus*)

crobaci (Tournier, 1890, *Pompilus*)

expleta (Tournier, 1890, *Pompilus*)

lustrica (Tournier, 1890, *Pompilus*)

nava (Tournier, 1890, *Pompilus*)

radiosa (Tournier, 1890, *Pompilus*)

saxea (Tournier, 1890, *Pompilus*)

peninsulana (Wolf, 1966, *Pompilus*)

serica Wolf & Moczar, 1972

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Arachnospila (Ammosphex) consobrina* (Dahlbom, 1843)**

Nomenclature:

Pompilus consobrinus Dahlbom, 1843

ater (Brullé, 1840, *Pompilus*) preocc.

excisa (Pérez, 1895, *Pompilus*) preocc.

nivariae (Dalla Torre, 1897, *Pompilus*)

guimarensis (Saunders, 1904, *Pompilus*)

lanuginosa (Haupt, 1927, *Psammochares*)

heringi (Haupt, 1928, *Psammochares*)

emissa (Haupt, 1930, *Psammochares*)

laufferi (Junco, 1960, *Pompilus*)

alpina (Wolf, 1965, *Pompilus*)

pyrenaica (Wolf, 1965, *Pompilus*)

continentalis (Wolf, 1966, *Pompilus*)

sicula (Wolf, 1966, *Pompilus*)

Distribution: England, Wales

***Arachnospila (Ammosphex) trivialis* (Dahlbom, 1843)**

Nomenclature:

Pompilus trivialis Dahlbom, 1843

gibba misident.

aerumnata (Tournier, 1889, *Pompilus*)

corruptor (Haupt, 1927, *Psammochares*)

michalki (Blüthgen, 1961, *Ammosphex*)

insubrica (Wolf, 1965, *Pompilus*)

Distribution: England, Wales

***Arachnospila (Ammosphex) wesmaeli* (Thomson, 1870)**

Nomenclature:

Pompilus wesmaeli Thomson, 1870

Distribution: England, Wales

Subgenus *Anoplochaes* Banks, 1939

***Arachnospila (Anoplochaes) minutula* (Dahlbom, 1842)**

Nomenclature:

Pompilus minutulus Dahlbom, 1842

cellularis (Dahlbom, 1843, *Pompilus*)

neglecta (Dahlbom, 1843, *Pompilus*)

inermis (Lepeletier, 1845, *Anoplius*)

anoplus (Dalla Torre, 1897, *Pompilus*)

simplicicra (Priesner, 1960, *Pompilus*)

apenninusurata Wolf, 1970

Distribution: England, Wales

***Arachnospila (Anoplochaeres) spissa* (Schiodte, 1837)**

Nomenclature:

Pompilus spissus Schiodte, 1837

apennina Wolf, 1970

Distribution: England, Scotland, Wales

Subgenus *Arachnospila* Kincaid, 1900

Nomenclature:

PYCNOPOMPILUS Ashmead, 1902

***Arachnospila (Arachnospila) rufa* (Haupt, 1927)**

Nomenclature:

Psammochares rufus Haupt, 1927

adulterina (Haupt, 1937, *Psammochares*)

melanota Wolf, 1975

Distribution: England

Genus *Episyron* Schiodte, 1837

Nomenclature:

SPILOPOMPILUS Ashmead, 1902

***Episyron gallicum* (Tournier, 1889)**

Nomenclature:

Pompilus gallicus Tournier, 1889

intermedius Haupt, 1930

tertius Blüthgen, 1944

Distribution: England

Notes: added by Baldock (2006)

Episyron rufipes* (Linnaeus, 1758)*Nomenclature:**

Sphex rufipes Linnaeus, 1758
laevigata (Rossius, 1794, *Sphex*)
gracilis (Lepeletier, 1845, *Pompilus*) preocc.
septemmaculatus (Wesmael, 1851, *Pompilus*)
argyrolepis (Costa, 1887, *Pompilus*)
compressus (Tournier, 1889, *Pompilus*) preocc.
aequatus (Tournier, 1889, *Pompilus*)
pygidialis (Tournier, 1889, *Pompilus*)
deuterus (Dalla Torre, 1897, *Pompilus*)
ephialtes (Dalla Torre, 1897, *Pompilus*)
sardous Wolf, 1961

Distribution: England, Wales, Ireland

Genus *Evagetes* Lepeletier, 1845**Nomenclature:**

SOPHROPOMPILUS Ashmead, 1902
ASTHENOCTENUS Arnold, 1937
ASTHENOCTENIDIA Pate, 1946
LEUCHIMON Haupt, 1930
TRICHOSYRON Haupt, 1930
PSAMMOCHAROIDES Moczar, 1946
STREPTOSELLA Dreisbach, 1950
CARINEVAGETES Wolf, 1970
CONTEMPTEVAGETES Wolf, 1970

Evagetes crassicornis* (Shuckard, 1835)*Nomenclature:**

Pompilus crassicornis Shuckard, 1835
dahlbomi (Thomson, 1870, *Pompilus*)
subarcticus Wolf, 1964

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Evagetes dubius* (Vander Linden, 1827)*Nomenclature:**

Aporus dubius Vander Linden, 1827

bicolor Lepeletier, 1845

servillei Costa, 1882

rattus (Dalla Torre, 1897, *Pompilus*)

obscurodubius Wolf, 1970

theodori Wolf, 1970

Distribution: England

Evagetes pectinipes* (Linnaeus, 1758)*Nomenclature:**

Sphex pectinipes Linnaeus, 1758

quadrispinosus (Kohl, 1886, *Pompilus*)

aculeatus (Thomson, 1870, *Pompilus*)

minotaurus Wolf, 1970

Distribution: England

Genus *Homonotus* Dahlbom, 1843**Nomenclature:**

ISONOTUS Dahlbom, 1842

WESMAELINIUS Costa, 1886

Homonotus sanguinolentus* (Fabricius, 1793)*Nomenclature:**

Sphex sanguinolenta Fabricius, 1793

dispar (Latreille, 1809, *Pompilus*)

bidens (Lepeletier, 1845, *Anoplius*)

affinis (Eversmann, 1849, *Pompilus*) preocc.

nigrus (Marquet, 1879, *Ferrola*)

nasutus Morawitz, 1888

doctor (Dalla Torre, 1897, *Pompilus*)

Distribution: England

Genus *Pompilus* Fabricius, 1798**Nomenclature:**

CHIONOPOMPILUS Priesner, 1955

Pompilus cinereus* (Fabricius, 1775)*Nomenclature:**

Sphex cinerea Fabricius, 1775

plumbeus (Fabricius, 1787, *Sphex*)

pulcher Fabricius, 1798

pruinus Smith, 1879 preocc.

chevrieri Tournier, 1889

leprosus Dalla Torre, 1897

lusitanicus Wolf & Diniz, 1970

gotlandicus Wolf, 1972

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subfamily Ceropalinae Radoszkowski, 1888**Genus *Ceropales* Latreille, 1796****Nomenclature:**

CERATOPALES Schulz, 1906

HYPsicERAEUS Morice & Durrant, 1915

Ceropales maculata* (Fabricius, 1775)*Nomenclature:**

Evania maculata Fabricius, 1775

rustica (Müller, 1776, *Sphex*)

multicolor (Fourcroy, 1785, *Ichneumon*)

frontalis (Panzer, 1799, *Pompilus*)

perligerus (Costa, 1882, *Priocnemis*)

balearica Costa, 1893

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Ceropales variegata* (Fabricius, 1798)*Nomenclature:**

Evania variegata Fabricius, 1798

destefanii Costa, 1887

Distribution: England

Family Sapygidae Latreille, 1810**Genus *Monosapyga* Pic, 1920*****Monosapyga clavicornis* (Linnaeus, 1758)****Nomenclature:**

Apis clavicornis Linnaeus, 1758

Distribution: England, Wales

Genus *Sapyga* Latreille, 1796***Sapyga quinquepunctata* (Fabricius, 1781)****Nomenclature:**

Scolia quinquepunctata Fabricius, 1781

Distribution: England, Wales

Family Tiphidae Leach, 1915**Subfamily Methochinae****Genus *Methocha* Latreille, 1804****Nomenclature:**

METHOCA misspelling

Notes: Taxonomy follows Agnoli (2005).

Methocha articulata* Latreille, 1792*Nomenclature:**

?formicaria (Latreille, 1792, *Mutilla*) nom. dub.

ichneumonides Latreille, 1805

mutillaria Latreille, 1806

sanvitali (Latreille, 1809, *Tengyra*)

italica (Costa, 1858, *Spinolia*)

Distribution: England, Wales

Subfamily Tiphinae**Genus *Tiphia* Fabricius, 1775*****Tiphia femorata* Fabricius, 1775**

Distribution: England, Wales

***Tiphia minuta* Vander Linden, 1827**

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Family Vespidae Laicharting, 1781**Subfamily Eumeninae**

Notes: Taxonomy mostly follows van der Vecht and Fischer (1972) and Fauna Europaea (Mitroiu et al. 2004).

Genus *Ancistrocerus* Wesmael, 1836***Ancistrocerus antilope* (Panzer, 1798)****Nomenclature:**

Vespa antilope Panzer, 1798

pictus (Curtis, 1826, *Odynerus*)

Distribution: England, Scotland, Wales

Ancistrocerus claripennis* Thomson, 1874*Nomenclature:**

?*quadratus* (Panzer, 1799, *Vespa*) nom. dub.

Distribution: England

Notes: Although this species has been referred to as *Ancistrocerus quadratus* in British faunistic works (e.g. Richards 1980, Archer 2003, Archer 2014), the type of *Vespa quadrata* Panzer is lost and its identification as this species, whilst probable, is not certain (Blüthgen 1959, van der Vecht and Fischer 1972), therefore *claripennis* is the name most usually used for this species (e.g. in Fauna Europaea: Mitroiu et al. 2004, accessed 2016).

Ancistrocerus gazella* (Panzer, 1798)*Nomenclature:**

Vespa gazella Panzer, 1798

emarginata (Fabricius, 1793, *Vespa*) preocc.

Distribution: England, Scotland, Wales, Ireland

Ancistrocerus nigricornis* (Curtis, 1826)*Nomenclature:**

Odynerus nigricornis Curtis, 1826

callosus (Thomson, 1870, *Odynerus*)

excisus (Thomson, 1870, *Odynerus*)

sexpunctata (Christ, 1791, *Vespa*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Ancistrocerus oviventris* (Wesmael, 1836)*Nomenclature:**

Odynerus oviventris Wesmael, 1836

constans (Herrich-Schäffer, 1839, *Odynerus*)

viduus (Herrich-Schäffer, 1839, *Odynerus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Notes: The subspecies *hibernicus* Blüthgen, 1937 occurs in Ireland and the Outer Hebrides.

Ancistrocerus parietinus* (Linnaeus, 1758)*Nomenclature:***Vespa parietina* Linnaeus, 1758*domesticus* (Christ, 1791, *Sphex*)*affinis* (Herrich-Schäffer, 1839, *Odynerus*)**Distribution:** England, Scotland, Wales, Ireland, Isle of Man***Ancistrocerus parietum* (Linnaeus, 1758)****Nomenclature:***Vespa parietum* Linnaeus, 1758**Distribution:** England, Scotland, Wales, Ireland, Isle of Man***Ancistrocerus scoticus* (Curtis, 1826)****Nomenclature:***Odynerus scoticus* Curtis, 1826*trimarginatus* misident.*albotricinctus* (Zetterstedt, 1838, *Odynerus*)**Distribution:** England, Scotland, Wales, Ireland, Isle of Man***Ancistrocerus trifasciatus* (Müller, 1776)****Nomenclature:***Vespa trifasciata* Müller, 1776*trimarginatus* (Zetterstedt, 1838, *Odynerus*)*tricinctus* (Herrich-Schäffer, 1839, *Odynerus*)**Distribution:** England, Scotland, Wales, Ireland, Isle of Man**Genus *Eumenes* Latreille, 1802*****Eumenes coarctatus* (Linnaeus, 1758)****Nomenclature:***Vespa coarctata* Linnaeus, 1758*?papillarius* (Christ, 1791, *Sphex*)**Distribution:** England, Wales

Genus *Euodynerus* Dalla Torre, 1904**Subgenus *Pareuodynerus* Blüthgen, 1938*****Euodynerus (Pareuodynerus) quadrifasciatus* (Fabricius, 1793)****Nomenclature:**

Vespa quadrifasciata Fabricius, 1793

tomentosus (Thomson, 1870, *Odynerus*)

Distribution: England

Genus *Gymnomerus* Blüthgen, 1938***Gymnomerus laevipes* (Shuckard, 1837)****Nomenclature:**

Odynerus laevipes Shuckard, 1837

Distribution: England, Wales

Genus *Microdynerus* Thomson, 1874***Microdynerus exilis* (Herrich-Schäffer, 1839)****Nomenclature:**

Odynerus exilis Herrich-Schäffer, 1839

bivittatus (Lepelletier, 1841, *Odynerus*)

Distribution: England

Genus *Odynerus* Latreille, 1802**Subgenus *Odynerus* Latreille, 1802*****Odynerus (Odynerus) melanocephalus* (Gmelin, 1790)****Nomenclature:**

Vespa melanocephala Gmelin, 1790

Distribution: England, Wales

Odynerus (Odynerus) spinipes* (Linnaeus, 1758)*Nomenclature:**

Vespa spinipes Linnaeus, 1758

quinquefasciata (Fabricius, 1793, *Vespa*) preocc.

muticus (Zetterstedt, 1838, *Odynerus*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Subgenus *Spinicoxa* Blüthgen, 1938***Odynerus (Spinicoxa) reniformis* (Gmelin, 1790)****Nomenclature:**

Vespa reniformis Gmelin, 1790

Distribution: England

***Odynerus (Spinicoxa) simillimus* Morawitz, 1867**

Distribution: England

Genus *Pseudepipona* Saussure, 1856***Pseudepipona herrichii* (Saussure, 1855)****Nomenclature:**

Odynerus herrichii Saussure, 1855

variegata misident.

basalis (Smith, 1857, *Odynerus*)

Distribution: England

Genus *Symmorphus* Wesmael, 1836***Symmorphus bifasciatus* (Linnaeus, 1761)****Nomenclature:**

Vespa bifasciata Linnaeus, 1761

sinuatus (Fabricius, 1793, *Vespa*) preocc.

mutinensis (Baldeni, 1894, *Odynerus*)

sinuatissimus Richards, 1935

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Symmorphus connexus* (Curtis, 1826)**

Nomenclature:

Odynerus connexus Curtis, 1826

bifasciatus misident.

Distribution: England

***Symmorphus crassicornis* (Panzer, 1798)**

Nomenclature:

Vespa crassicornis Panzer, 1798

Distribution: England, Wales

***Symmorphus gracilis* (Brullé, 1832)**

Nomenclature:

Odynerus gracilis Brullé, 1832

Distribution: England, Wales

Subfamily Polistinae

Notes: Taxonomy follows Carpenter (1996).

Genus *Polistes* Latreille, 1802

***Polistes dominula* (Christ, 1791)**

Nomenclature:

Vespa dominula Christ, 1791

gallicus misident.

italica Herrich-Schäffer, 1840 nom. nud.

pectoralis Herrich-Schäffer, 1841

lefebvrei Guérin, 1844

bucharensis Erichson, 1849

maculatus Rudow, 1889

merceti Dusmet, 1903

rufescens Buysson, 1912

ornata Weyrauch, 1938

pacifica Weyrauch, 1939 preocc.

pseudopacificus Giordani Soika, 1970

muchoi Gusenleitner, 1976

Distribution: England

Polistes gallicus (Linnaeus, 1767)

Nomenclature:

Vespa gallica Linnaeus, 1767

pictior Radoszkowski, 1872

foederata Kohl, 1898

omissa (Weyrauch, 1938, *Polistula*)

Distribution: Ireland

Notes: Added by McClenaghan (1979) (as *Polistes omissa*), who collected a single male in Co. Down; it is unknown whether a nest had been established but this southern European species is an unlikely colonist.

Subfamily Vespinae

Notes: Nomenclature follows Carpenter and Kojima (1997) and Kimsey and Carpenter (2012).

Genus *Dolichovespula* Rohwer, 1916

Nomenclature:

PSEUDOVESPULA Bischoff, 1931

BOREOVESPULA Blüthgen, 1943

METAVESPULA Blüthgen, 1943

Dolichovespula media (Retzius, 1783)

Nomenclature:

Vespa medius Retzius, 1783

geerii (Lepeletier, 1836, *Vespa*)

crassa (Herrich-Schäffer, 1841, *Vespa*)

similis (Schenck, 1853, *Vespa*)

rufoscutellata (Schenck, 1853, *Vespa*)

flavicincta (Schenck, 1853, *Vespa*)

lineolata (Pérez, 1910, *Vespa*)

conjugens Paul, 1943

sugare Ishikawa, 1969

borealis Lee, 1986 preocc.

Distribution: England, Scotland, Wales, Isle of Man

Notes: added by Falk (1982)

***Dolichovespula norwegica* (Fabricius, 1781)**

Nomenclature:

Vespa norwegica Fabricius, 1781

britannica (Leach, 1814, *Vespa*)

marginata (Kirby, 1837, *Vespa*) preocc.

borealis (Zetterstedt, 1838, *Vespa*) preocc.

albida (Sladen, 1918, *Vespa*)

arctica (Friese, 1919, *Vespa*) preocc.

zetterstedti Blüthgen, 1937

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Dolichovespula saxonica* (Fabricius, 1793)**

Nomenclature:

Vespa saxonica Fabricius, 1793

bavarica (von Schrank, 1802, *Vespa*)

tridens (Schenck, 1853, *Vespa*)

nipponica Yamane, 1975

kamtschatkensis Eck, 1983

nigrescens Eck, 1983

Distribution: England, Wales

Notes: added by Allen and Archer (1989)

***Dolichovespula sylvestris* (Scopoli, 1763)**

Nomenclature:

Vespa sylvestris Scopoli, 1763

parietum (Harris, 1776, *Vespa*)
holsatica (Fabricius, 1793, *Vespa*)
frontalis (Latreille, 1802, *Vespa*)
campanaria (Fowler, 1833, *Vespa*)
anglica (Smith, 1843, *Vespa*)
pilosella (Costa, 1858, *Vespa*)
sumptuosa (De Buysson, 1905, *Vespa*)
xinjiangensis Lee, 1986

Distribution: England, Scotland, Wales, Ireland, Isle of Man

Genus *Vespa* Linnaeus, 1758

Nomenclature:

MACROVESPA Dalla Torre, 1904
NYCTOVESPA van der Vecht, 1959

***Vespa crabro* Linnaeus, 1758**

Nomenclature:

vexator Harris, 1776
major Retzius, 1783
?pratensis Geoffroy, 1785
germana Christ, 1791
crabroniformis Smith, 1852
borealis Radoszkowski, 1863
anglica Gribodo, 1892 preocc.
oberthuri du Buysson, 1902
flavo-fasciata Cameron, 1903
tartarea du Buysson, 1905
altaica Pérez, 1910
caspica Pérez, 1910
vulgata Birula, 1925
meridionalis Birula, 1925
chinensis Birula, 1925 preocc.
birulai Bequaert, 1931

gribodoi Bequaert, 1931

Distribution: England, Wales

Notes: British populations are considered to belong to the subspecies *gribodoi*.

Genus *Vespula* Thomson, 1869

Nomenclature:

PSEUDOVESPA Schmiedeknecht, 1881

PARAVESPULA Blüthgen, 1938

ALLOVESPULA Blüthgen, 1943

RUGOVESPULA Archer, 1982

Vespula austriaca (Panzer, 1799)

Nomenclature:

Vespa austriaca Panzer, 1799

borealis (Smith, 1843, *Vespa*) preocc.

arborea (Smith, 1849, *Vespa*)

biloba (Schilling, 1850, *Vespa*)

Distribution: England, Scotland, Wales, Ireland

Vespula germanica (Fabricius, 1793)

Nomenclature:

Vespa germanica Fabricius, 1793

?*maculata* (Scopoli, 1763, *Vespa*) preocc.

?*macularis* (Olivier, 1792, *Vespa*)

Distribution: England, Scotland, Wales, Ireland

Vespula rufa (Linnaeus, 1758)

Nomenclature:

Vespa rufa Linnaeus, 1758

schrenckii (Radoszkowski, 1861, *Vespa*)

sibiria (André, 1884, *Vespa*)

grahami Archer, 1981

obscura Lee, 1986

?yichunensis Lee, 1986

Distribution: England, Scotland, Wales, Ireland, Isle of Man

***Vespa vulgaris* (Linnaeus, 1758)**

Nomenclature:

Vespa vulgaris Linnaeus, 1758

sexcincta (Panzer, 1799, *Vespa*)

Distribution: England, Scotland, Wales, Ireland, Isle of Man

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Author contributions

GE compiled an earlier version of this checklist and revised the current list of bees. BB compiled the checklist of ants, Formicidae. GRB updated all sections, added distribution data and edited the paper.

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Supplementary materials

Suppl. material 1: Checklist of the British and Irish aculeates

Authors: Else, G., Bolton, B. & Broad, G.R.

Data type: formatted text

Brief description: Word document version of the checklist

Filename: Hym_checklist_13_aculeates.docx - [Download file](#) (234.99 kb)

Suppl. material 2: Checklist of the British and Irish aculeates

Authors: Else, G., Bolton, B. & Broad, G.R.

Data type: spreadsheet

Brief description: Excel spreadsheet version of the checklist

Filename: aculeates_checklist_spreadsheet.xlsx - [Download file](#) (439.60 kb)