

British Red Data Books: 2. Insects

Edited by D. B. Shirt

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the Joint Committee for the Conservation of British Insects
the Nature Conservancy Council and
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HYMENOPTERA: PARASITICA

The Parasitic Wasps

Although accounting for about a quarter of our insect fauna (with about 5600 species), the parasitic Hymenoptera are among the least understood insects in Britain and, at a time when the ecology - and indeed taxonomy - of so many remains obscure, it is difficult to single out the species and groups whose populations are most at risk. Impressions of declining abundance or distribution can only be sought in the most conspicuous or striking groups, since only these have been even moderately well collected and identified over the years. Among the Ichneumonidae belonging in this category a continuous decline of many species appears to have taken place this century, to the point at which several species common in old collections are now rarely or no longer encountered in the field. Examples include many of the larger Ichneumoninae (e.g. some Amblyteles and Callajoppa species), some Banchus species (notably B. falcatorius (F.)), and Metopius dentatus (F.): in these cases the host species (if known) have remained more or less abundant to the present day. Presumably similar declines have taken place among the less conspicuous species as well, and it is clear that parasitic Hymenoptera in general will tend to be especially vulnerable to changes and instabilities in the environment because of their extreme trophic positions. Although no hard data demonstrating these declines in Britain are available, Thirion (1976, 1981) has analysed the history of distribution and abundance of many Ichneumoninae in Belgium and shown that numerous striking declines have apparently taken place, particularly in the 30 years after 1950.

Those parasitic Hymenoptera which are effectively or locally host-specific, as many are, tend to be considerably less abundant than the insect species they parasitise. It follows that any recession, whether numerical or spatial, in the host population would be expected to have a corresponding or even greater impact on the associated parasitic Hymenoptera, some of which will be unable to compensate by attacking alternative hosts. Thus all parasites known to be dependent on restricted or declining hosts should be treated as at risk. These include the ichneumonids Trogus lapidator (F.) (parasitic on the Swallowtail Papilio machaon L.), Cotiheresiarches (=Zimmeria) dirus (Wesmael) (on the Small Eggar Eriogaster lanestris (L.)), and Lissonota setosa (Geoffroy) (on the Goat Moth Cossus cossus (L.)). Similarly, within the context of habitat destruction, parasitic Hymenoptera always occupy a particularly precarious position. The widespread pollution or draining of ponds, for example, will threaten parasites such as the already rare Chalcis species (Chalcididae) even more acutely than their hosts, flies of the genus Stratiomys.

Many parasitic Hymenoptera have been collected on only one or two occasions in Britain but, in view of our ignorance of their origins and host associations and the paucity of collectors, it is probably advisable to ignore all of these as candidate species until ecological knowledge enables surveys to be made with respect to their host populations. One example of a rare oligophagous parasite of abundant, widespread and often-collected hosts is the braconid *Rogas pulchripes* (Wesmael), which attacks the Grey Dagger moth *Acronicta psi* (L.) and related species, but

has been found in Britain only at Chat Moss (near Manchester). In general, however, there is rarely sufficient information to apportion species found only once or twice in Britain to categories reflecting their true distribution and abundance.

M. R. Shaw

HYMENOPTERA: ACULEATA

The Ants, Bees and Wasps

The aculeate Hymenoptera number some 580 species in Britain, and, with the Parasitica, constitute the suborder Apocrita. They have not had a great following in the past, perhaps due in part to the lack of adequate identification guides (though the situation is improving). Many people are familiar with the social ants, bees and wasps, including bumblebees and honeybees, but most aculeates are solitary species whose presence attracts little attention. Many of them are economically important as pollinators or predators, and they are of great interest to the biologist in view of their advanced behaviour patterns and wide variety of life cycles. There are many examples of parasitism and 'cuckoo' relationships (brood parasites), 'cuckoo' species being specifically dependent upon a host species which may itself be rare.

The Red Data Book includes 37 Endangered, 12 Vulnerable and 97 Rare species. At least eight of the Endangered species are believed to be extinct, and a further 18 species are listed in the Appendix (extinct before 1900). The total number listed is 164, representing 28% of the British aculeate fauna – the highest proportion of threatened species in any group. This is due to the precise habitat requirements of many species, which make them very sensitive to environmental change, and the low population levels at which they normally occur.

Suitable nesting sites are the first requirement, many species favouring sunny banks on dry sandy soils for the excavation of their burrows. Others nest above ground, burrowing in dead wood and other plant material or in old walls. Threats to nesting sites include the loss of bare banks and tracks, excessive trampling (though a limited amount may be necessary), the removal of dead wood and too frequent cutting of bramble. All species are dependent to varying degrees on flowers for nectar or pollen, and the habitat requirements for nesting and for food gathering are often very different. Food resources are threatened by the mowing, over-grazing and spraying of herbage, and by the removal and cutting of flowering shrubs. Many species require a specific prey or host, and any threats to it pose an even more serious threat to the predator or parasite. Finally, the Hymenoptera appear to be more susceptible than most insects to the use of toxic sprays by gardeners and farmers.

An introduction and key to the families of Hymenoptera are included in the RESL's series of *Handbooks* (Richards, 1977). When the two titles under preparation (the spider wasps and the bees) are completed, all the aculeates will have been covered in this series. Unfortunately there is no general book on the group currently in print, though *Bees, ants and wasps. The British aculeates* (Willmer, 1985) in the Field Studies Council's AIDGAP series facilitates the identification of all genera occurring in Britain. Books by Spradbery on *Wasps* (1973), Brian on *Ants* (1977) and Alford on *Bumblebees* (1975) are also out of print. The Naturalists' Handbooks series includes an identification guide to *Solitary wasps* (Yeo & Corbet, 1983). NCC has published a booklet on *The conservation of bees and wasps* (Else, Felton & Stubbs, 1978).

There is an Aculeate Recording Scheme organised by one of the authors of these data sheets. Provisional distribution atlases have been published on the ants (Barrett, 1979) and the social wasps (Archer, 1979), and there is an *Atlas of the bumblebees of the British Isles* (Anon., 1980).

| Omalus | A ruby-tailed wasp | ENDANGERED |
|---|--|--|
| truncatus | Order Hymenoptera | Family Chrysididae |
| Las course y langues. | Omalus (Chrysellampus) trunc | catus (Dahlbom, 1831). |
| Identification | Morgan (1984), p.15. | |
| Distribution | Only a few old records from Kent, Dorset, Gloucestershire (or Somerset?), Berkshire, Surrey, London and Essex. | |
| Habitat and ecology | A specimen has been observed exploring the cavities in the stem of a rose <i>Rosa</i> ; otherwise nothing is known about the life-history of this wasp. The host is apparently unknown. It flies in June. | |
| Status | The most recent example was | s collected in 1910. |
| Authors | G. R. Else and G. M. Spooner, using information from Spooner (1954). | |
| | | |
| Chrysis fulgida | A ruby-tailed wasp | ENDANGERED |
| Chrysis fulgida | A ruby-tailed wasp Order Hymenoptera | ENDANGERED Family Chrysididae |
| Chrysis fulgida | CHARLE AND A CONTRACT | Family Chrysididae |
| Patris Translation of their | Order Hymenoptera | Family Chrysididae |
| Chrysis fulgida Identification Distribution | Order Hymenoptera Chrysis (Chrysis) fulgida L., 1 | Family Chrysididae 761. Intrecords. Kent to Devon, hire, Surrey and the 1906, where it occurred in |
| Identification | Order Hymenoptera Chrysis (Chrysis) fulgida L., 1 Morgan (1984), p.21. Very rare: there are no recer Hereford & Worcester, Berksl Cambridgeshire (Wicken, Jun some numbers: over twenty of Little information is available. | Family Chrysididae 761. Intrecords, Kent to Devon, hire, Surrey and he 1906, where it occurred in collected by Nevinson (1916)). Has been reared from a nest has (L.). Presumed hosts include and possibly the wasp |

G. R. Else and G. M. Spooner.

Authors

Chrysogona A ruby-tailed wasp VULNERABLE gracillima Family Chrysididae Order Hymenoptera Chrysogona gracillima (Foerster, 1853), formerly known as Chrysis gracillima. Identification Morgan (1984), p.20, figs 18, 23, 80 and 81. Distribution In Britain known only from four sites: Yalding, Kent, 1977, G. W. Allen; Midhurst, West Sussex (two sites), 1982-84. M. Edwards; Winchester, Hampshire, 1984, G. R. Else. Habitat and ecology The first British specimen was fished out of a dyke in Kent in 1977. Five years later in 1982, and again in 1983, further examples were collected in West Sussex from a wooden post which contained nests of the sphecid wasps Trypoxylon clavicerum Lepeletier and Psenulus pallipes (Panzer), both possible hosts. In 1984 two specimens were collected from a dead tree near Winchester, and two more in a Malaise trap near Midhurst. In Europe the species has been reared from a bramble Rubus stem. Small eumenid and sphecid wasps and megachilid bees (e.g. Osmia species) are all possible hosts in Britain. It flies in July and August. It seems reasonable to assume that the wasp is probably Status more widely distributed in southern England. Authors G. R. Else and G. M. Spooner. Chrysura **VULNERABLE** A ruby-tailed wasp hirsuta Family Chrysididae Order Hymenoptera Chrysura hirsuta (Gerstaecker, 1869), formerly known as Chrysis (Chrysogona) hirsuta. Identification Morgan (1984), p. 19, figs 85 and 88. Distribution Restricted to Scotland, where it has been recorded from the central Grampian Highlands (Speyside in Highland Region,

and one or two sites near Blair Atholl, Perth. Tayside

Region). Two specimens have also been collected in Dumfries & Galloway (Whithorn, 16 May 1973, A. B. Duncan).

Habitat and ecology The special cleptoparasite of the mason bee Osmia inermis (Zetterstedt) and possibly O. parietina Curtis. Very rare and local. confined to a few sites on open upland base-rich soils in Scotland. The wasp larva apparently attacks and devours the host larva before spinning its own cocoon within that of

the bee (Morgan, 1984).

Threats

Destruction of habitat, especially by afforestation on upland sites between 350 and 400m.

Authors

G. R. Else and G. M. Spooner.

Formica A wood ant **ENDANGERED** pratensis Order Hymenoptera Family Formicidae Formica pratensis Retzius in Degeer, 1783. Identification Bolton & Collingwood (1975), pp.7, 11 and 15. Distribution This species has always been a great rarity in Britain and is now almost extinct, being represented by perhaps less than half a dozen nests near Wareham, Dorset, e.g. on Morden and Gore Heaths. For map see Barrett (1979), map 39. Habitat and ecology Dry heathland. Nests are usually isolated, not occurring in groups, and have a single or very few queens. Winged queens and males are developed in the nests both in early summer and later in August-September. Status Last seen in 1975 on Gore Heath by G. M. Spooner. Threats The destruction of nests or nest habitat. In Britain this species is clearly on the very edge of its range and it is possible that adverse climatic changes may be the most significant threat. Conservation Morden Bog NNR lies between Morden and Gore Heaths. F. pratensis is among the Formica species listed as

Vulnerable in the IUCN Red Data Book (Wells, Pyle & Collins, 1983).

COIIIIS, 1303).

Authors G. R. Else and G. M. Spooner.

Formica transkaucasica

A wood ant

ENDANGERED

Order Hymenoptera

Family Formicidae

Formica transkaucasica Nasonov, 1889.

Identification

Bolton & Collingwood (1975), pp.6, 11 and 15.

Distribution

A very rare species found only in the New Forest, Hampshire (e.g. Matley and Ridley Bogs, Picket Plain), and near Wareham, Dorset (e.g. Morden Bog and Hartland Moor). There is an old record for the Isle of Wight. For map see Barrett (1979), map 48. Habitat and ecology A shining black ant confined to a few Sphagnum bogs.

Colonies usually have a single queen and the nest, which is sometimes found in the very wettest parts of the bog, is built up in the form of a small, conical dome of fine grassy fragments in grass tussocks (e.g. purple moor-grass Molinia

caerulea).

Threats Drainage of wetland habitat. In dry years the species may

not be seen.

Conservation Morden Bog and Hartland Moor are NNRs.

Authors G. R. Else and G. M. Spooner, using additional information

from Collingwood (1954).

| Arachnospil | a |
|-------------|---|
| rufa | |

A spider wasp

ENDANGERED

Order Hymenoptera

Family Pompilidae

Arachnospila (Arachnospila) rufa (Haupt, 1927), formerly known as *Pompilus* or *Psammochares rufus*.

Identification

Wolf (1972), pp.91-108, figs 236, 240 and 278; Day (in preparation).

Distribution

South-east Dorset: Gore Heath, north of Wareham, a fresh male and female on a bank, 15 June 1934, G. M. Spooner (Spooner, 1937); Sherford Bridge (on the north-west boundary of Gore Heath), male at *Angelica* blossom, 15 September 1938, G. M. Spooner (unpublished; specimens housed in Spooner's collection). It is widely distributed and rather common on the Continent including the Channel Islands (Jersey).

Habitat and ecology

Heathland, from June to September. On the Continent the wasp is reported as occurring in sandy localities, frequenting banks and cuttings where there are suitable exposures of sand. A noteworthy peculiarity is its habit of reoccupying old burrows, the females apparently returning to those from which they have emerged. Prey consists mainly of spiders of the families Lycosidae and Drassidae, but also Attidae, Clubionidae and Salticidae (Richards & Hamm, 1939; Spooner, 1937). The nesting behaviour is described in some detail by Richards & Hamm (1939). A selection of photographs illustrating prey capture and nest provisioning is provided by Olberg (1959, pp.154-163).

Status

It is perhaps worth noting that the above specimens were collected close to a stretch of ground colonised by the eumenid wasp *Pseudepipona herrichii* (Saussure), a Vulnerable species which also has a southern range and which in Britain is confined to the heaths of south-east Dorset.

Threats Much of Gore Heath has become a conifer plantation since Spooner's captures; only a small portion of the southern area remains open heathland. Authors G. R. Else and G. M. Spooner. Evagetes A spider wasp **ENDANGERED** pectinipes Order Hymenoptera Family Pompilidae Evagetes pectinipes (L., 1758), a name formerly used incorrectly in Britain for E. crassicornis (Shuckard). Identification Wolf (1972), pp.137-147, figs 372, 382 and 407; Day (in preparation). Distribution Occurs only in east Kent on the Deal-Sandwich dunes. where it was first collected by K. M. Guichard in 1966 (Day, 1979, p. 14). Habitat and ecology Coastal sand dunes. Occasionally observed on umbellifer blossoms. A cleptoparasite, probably of the pompilid wasp Episyron rufipes (L.). Little is known about its biology, but no doubt it is very similar to that of E. crassicornis (Shuckard) (for details see Richards & Hamm, 1939. pp.88-89). Flies in July. Status Possibly a recent introduction, but apparently well-established. Several were recorded in 1975-81. Threats Destruction of the habitat (which includes the Royal Cinque Ports Golf Links). Authors G. R. Else and G. M. Spooner. Homonotus **ENDANGERED** A spider wasp sanguinolentus Order Hymenoptera Family Pompilidae Homonotus sanguinolentus (F., 1793), formerly known as Pompilus or Wesmaelinius sanguinolentus. Identification Wolf (1972), pp.87-89, figs 211-213; Day (in preparation). Distribution Rare, recorded from only a very few localities in Dorset, Hampshire and Surrey. The most recent record seems to be a male swept from roadside flowers at Tadnall Heath.

Dorset, on 4 August 1962 by G. M. Spooner.

Habitat and ecology Heathland and perhaps open woodland in southern England. On the Continent this pompilid attacks females of the spider Cheiracanthium erraticum (Walck) in their leaf-roll nests in grass (Richards & Hamm, 1939, pp.105-106). There have been no rearing records from Britain. Status If searched for in the right way and reared it might prove to be commoner than is generally supposed. For example, in France in early August 1934 and 1935, Maneval (1936) found that four-fifths of the spider nests contained early stages of Homonotus, but only one wasp was seen (Richards & Hamm, 1939). The loss of heathland habitat. Threats Authors G. R. Else and G. M. Spooner, using additional information from Champion, Champion & Morice (1914), Champion (1915), and Saunders (1900). Ceropales A spider wasp ENDANGERED variegata Order Hymenoptera Family Pompilidae Ceropales variegata (F., 1798). Identification Wolf (1972), pp. 165-168, fig. 476; Day (in preparation). Rare. Recorded at irregular intervals from a few sites in Distribution Surrey, Hampshire and Dorset. Habitat and ecology Heathland in southern England. Specimens have been found flying round or under small pines (Richards & Hamm, 1939), visiting Angelica blossom, and have been swept from

Heathland in southern England. Specimens have been found flying round or under small pines (Richards & Hamm, 1939), visiting Angelica blossom, and have been swept from heather (Calluna and Erica) and bog myrtle Myrica gale. Nothing has been recorded of its life-history (Richards & Hamm, 1939), but it is probably another cleptoparasite like its relative C. maculata (F.). In this subfamily (Ceropalinae) the females oviposit in the lung books of spiders which have already been paralysed and are in the course of being dragged along the ground by females of other pompilid genera (Richards & Hamm, 1939, p.55). It flies in July-August. The most recent record appears to be a Dorset specimen

The loss of vulnerable heathland habitat. G. R. Else and G. M. Spooner.

collected in 1955.

Status

Threats

Authors

Pseudepipona herrichii A mason wasp

VULNERABLE

Order Hymenoptera

Family Eumenidae

Identification

Richards (1980), p.23 and fig. 28.

Distribution

A very rare and attractive speciality of heathland in south-east Dorset – on the Isle of Purbeck between Wareham and Studland, and a little to the north of Wareham (Gore Heath). The first British example was collected on Stoborough Heath in 1868 and the species continues to survive on Purbeck, although it remains extremely local and elusive.

Pseudepipona herrichii (Saussure, 1856), formerly known as

Odynerus (Lionotus) herrichii or O. basalis Smith.

Habitat and ecology

Dry, open, sandy heathland. The life-history is described in detail by Mortimer (1908b) and Spooner (1934). The wasp is gregarious, occurring in rather compact colonies. Females excavate shallow nest burrows and provision the cells with green tortricid moth larvae extracted from webs in heather. G. R. Else and M. Edwards found the species nesting extensively on mounds of sand and clay spoil with a sparse covering of heather (*Erica* and *Calluna*). The nest burrows were flush with the surrounding soil, and one nest excavated consisted of vacated cells of the bee *Heliophila* (=*Anthophora*) bimaculata (Panzer), one cell being provisioned with 3-4 immobilised larvae. The flight period is a short one, lasting from mid or late June to late July (rarely early August).

Status

A few colonies have been discovered by G. M. Spooner and K. White in recent years. G. R. Else and M. Edwards found the species in profusion on Godlingston Heath on 24 June 1984, the season being an excellent one for eumenid wasps.

Threats

The east Dorset heathlands have been experiencing a variety of detrimental exploitation this century ranging from changes in land use (e.g. coniferous afforestation, building developments) to, in recent years, exploration for gas and oil and the extraction of ball clay. Pressures of this kind are bound adversely to affect the populations of such a rare insect. Heathland fires are an annual hazard (Hartland Moor NNR was almost entirely destroyed in 1976), particularly as the provisioned cells are constructed just beneath the surface of the soil. Recently one site on Stoborough Heath was destroyed, probably by the activities of motorcyclists "dirt-tracking" over the nesting site.

Conservation

Studland Heath and Godlingston Heath are NNRs.

Authors

G. R. Else and G. M. Spooner, using additional information from Haines (1934).

| Odynerus reniformis | A mason wasp | ENDANGERED + |
|----------------------------|---|--|
| remiormis | Order Hymenoptera | Family Eumenidae |
| teledrovice (disembel a | Odynerus (Spinicoxa) reniformis (Gmelin in L., 1790). | |
| Identification | Richards (1980), p.22 and fig. | 35. |
| Distribution | Always a rarity since its discovery in Britain by Saunders in 1876 (Saunders, 1876). Surrey (Billups, 1884; Morice, 1906; Saunders, 1876, 1887); Hampshire (Arnold, 1905; Jones, 1925-26). Apart from Morice's colony – c. 50 nest entrance tubes in 1906 – specimens have been encountered in very small numbers. Jones (1925-26), however, reported that in the New Forest the species is local, but not very uncommon: the evidence for this statement is lacking. | |
| Habitat and ecology | Small and very local colonies on heathland in southern England (also, once, on a railway embankment); usually on level ground, but once in the walls of a ruined cottage (Morice, 1906). Tends to be gregarious, each nest entrance characteristically surmounted by a vertical, slightly curved tubular chimney constructed from excavated spoil. The dimensions of these are about 20mm long x 4mm broad. Their purpose is not fully understood. The cells are provisioned with paralysed moth larvae (e.g. 33 small noctuid larvae in one cell (Billups, 1884)). Flies from late June (exceptionally late May) to mid July, rarely August. | |
| Status | The reason for the abrupt decline is unknown. There have been no records since about 1915. | |
| Authors | G. R. Else and G. M. Spooner | Company of the state of the sta |
| Odynerus | A mason wasp | ENDANGERED + |
| simillimus | Order Hymenoptera | Family Eumenidae |
| C. briefficht wit gestelle | Odynerus (Spinicoxa) simillin | nus Morawitz, 1867. |
| Identification | Richards (1980), pp.22-23 and fig. 36. | |
| Distribution | Essex: Colchester, 1901-1902, W. H. & B. S. Harwood (Saunders, 1903). Some specimens in museums were also collected in 1892, 1898 and 1905. The species was described from Russian material and is also rare on the Continent (Richards, 1980). | |
| Habitat and ecology | Adults have been collected from flowers by a ditch on the marshes near Colchester (Saunders, 1903). Nothing seems to be known about its life history, but it almost certainly nests in the soil. Flies in July. | |

Status There have been no records since about 1905. Threats Possibly loss of habitat. Authors G. R. Else and G. M. Spooner. Miscophus ater A digger wasp VULNERABLE Order Hymenoptera Family Sphecidae Miscophus ater Lepeletier, 1845, formerly known as M. maritimus Smith. 1858. Identification Richards (1980), p.38 and figs 167-168. Distribution F. Smith first discovered this species on the Deal dunes (east Kent) in early August 1856 (Smith, 1858, pp.91-92). The species remains firmly established on these dunes and north to Sandwich. It also occurs on the Camber dunes, East Sussex (M. Edwards and G. H. L. Dicker, pers. comm.), where O. W. Richards first collected it in 1945. Habitat and ecology Coastal sand dunes. The females nest in the soil and provision their cells with small spiders. A small, active, and easily overlooked wasp. Status Another Deal speciality (see Evagetes pectinipes (L.), Endangered). Threats Adverse development of the dunes and possible inundation by seawater during winter gales (as has happened recently). Authors G. R. Else and G. M. Spooner. Crossocerus ENDANGERED A digger wasp vagabundus Sphecidae

| Order Hymenoptera | ramily spined |
|--------------------------------|-------------------------|
| Crossocerus (Acanthocrabro) va | gabundus (Panzer, 1798) |
| | 1.07 |

Identification Richards (1980), p.47 and figs 95 and 97. Formerly widespread throughout much of southern England Distribution as far north as Leicestershire and Nottinghamshire.

Nests are constructed in rotten wood, the wasp making use Habitat and ecology

of old beetle galleries; galleries may be branched or straight. The prey normally consists of tipulid flies, which are stored after their legs have been amputated (Hamm & Richards, 1926, p.316; Lomholdt, 1975-76). The wasp flies

from May to July.

| Status | Within the zone described above the species has rarely been common. The absence of records for the past thirty years indicates a serious decline or possible extinction. |
|---------|--|
| Authors | G. R. Else and G. M. Spooner. |

| Rhopalum gracile | A digger wasp | VULNERABLE |
|---------------------|--|------------------|
| graciie | Order Hymenoptera | Family Sphecidae |
| M us mores vie | Rhopalum (Corynopus) gracile Wesmael, 1852, formerly known as Crabro kiesenwetteri Morawitz. | |
| Identification | Richards (1980), p.57 and figs 155- | -156. |
| Distribution | First recorded by C. G. Nurse at Ampton, Suffolk (two males, three females), June 1912, and at West Stow, Suffolk, June and August 1912 (Nurse, 1913). Other records include: Suffolk, Barton Mills, one female, 9 August 1901, A. H. Hamm Collection; Cambridgeshire, Wicken Fen, 1898 to 1973, and old records for Chippenham Fen (J. Field, pers. comm.). | |
| Habitat and ecology | | |
| Status | This species appears to belong to the 'Rhine-basin' element of our fauna, which also contains such aculeates as <i>Hylaeus pectoralis</i> Foerster and <i>Passaloecus clypealis</i> Faester (a Vulnerable species). | |
| Threats | The drainage of wetland habitat. | |
| Conservation | Wicken Fen is National Trust property, where current management of the carr vegetation appears to be benefiting | |

species occurs or may occur. G. R. Else and G. M. Spooner.

Authors

the species. Countermeasures are necessary to safeguard the few remaining sites in the East Anglian fens where the

| Psen atratinus | A digger wasp | VULNERABLE |
|--------------------------------|---|--|
| | Order Hymenoptera | Family Sphecidae |
| Maryinou, epoloty. | Psen (Mimumesa) atratinus (Mora | witz, 1891). |
| Identification | Richards (1980), p.62 and fig. 175. | |
| Distribution | At present known only from four sites on the southern coast of the Isle of Wight: Whale Chine, Blackgang Chine, Ventnor, and cliffs at Luccombe. | |
| Habitat and ecology | Confined to wet flushes at the base of clay cliffs or on landslips. The species associates in two sites with P. unicolor (Vander Linden) and in suitable weather both species frequently alight on the leaves of coltsfoot Tussilago farfara or fly amongst reeds Phragmites. Nests have not been found in Britain, but on the Continent the species has been described as nesting in dry, decayed wood, often in vacated insect burrows. This commodity is scarce in the Isle of Wight sites and it seems likely that females nest in dead Phragmites stems. Continental prey records involve nymphs of small cicadas (Issidae) (Lomholdt, 1975-76). The flight period extends from June-August. | |
| Status | The first British specimen was colon 7 August 1950. In 1980-82 the scommon at two sites. | |
| Threats | Coastal subsidence probably destroys some nests, but otherwise the species does not appear to be at risk. Coastal defences could also jeopardise sites. | |
| Conservation | The Luccombe cliffs are owned b | by the National Trust. |
| Authors | G. R. Else and G. M. Spooner. | |
| Passaloecus | A digger wasp | VULNERABLE |
| clypealis | Order Hymenoptera | Family Sphecidae |
| Anna temperatural (12-45 1156) | Passaloecus clypealis Faester, 194 | 47. |
| Identification | Richards (1980), p.72. | |
| Distribution | Very rare. Cambridgeshire: Wick 1936) (Yarrow, 1970), Chippenhan comm.). Norfolk: Strumpshaw Res Irwin. Essex: Benfleet, one female ditch, 1 August 1971, P. J. Chandle edge of the North Kent Marshes), old <i>Lipara</i> galls, June 1978, G. H. Medway), female reared from <i>Lip</i> | n Fen, 1983 (J. Field, pers. serve, 28 July 1980, A. e about <i>Phragmites</i> in er. Kent: Higham (on the three females reared from L. Dicker; Burham (on the |

G. H. L. Dicker (Dicker, 1979); Swanscombe, 1 July 1983, and Wouldham, 28 July 1983, G. H. L. Dicker.

Habitat and ecology Fens and ditches. Has been reared from vacated galls of the

fly Lipara lucens Meigen. Lomholdt (1975-76) reports that nests have been found in stems of honeysuckle Lonicera

and reed Phragmites. Flies from June-August.

Status Rare throughout Europe.

Threats The drainage of suitable wetlands. The North Kent Marshes

are currently threatened by drainage in order that parts at least can be developed for cultivation and building (e.g. oil

refinery at Cliffe).

Conservation Chippenham Fen is an NNR, and Wicken Fen is owned and

managed by the National Trust.

Authors G. R. Else and G. M. Spooner.

Mellinus crabroneus A digger wasp

ENDANGERED +

Order Hymenoptera

Family Sphecidae

Mellinus crabroneus (Thunberg, 1791), formerly known as M. sabulosa (F.).

Identification

Richards (1980), pp.77-78 and fig. 217.

Distribution

Formerly widely distributed and locally common in good years. It has been recorded from Hampshire, the Isle of Wight, Dorset, Cornwall, Berkshire, Oxfordshire, Surrey, Suffolk, Norfolk, Lincolnshire, Nottinghamshire, Humberside, Tyne & Wear, Cumbria, West and Mid Glamorgan, Dyfed and Gwynedd. There has been no record for over thirty

years.

Habitat and ecology

Nests in burrows in the ground and provisions its cells with paralysed Diptera (Hamm & Richards, 1930, p.101; Lomholdt, 1975-76). Specimens have been observed visiting *Angelica* and wild carrot *Daucus carota* blossom, and males have been seen in great numbers running on the leaves of coltsfoot *Tussilago farfara* (Smith, 1858, pp.114-116). The species flies from July to early September.

Status

Declined rapidly after the mid-1920s. The cause of the decline remains unknown and it is possible that it may now

be extinct as a British species.

Authors

G. R. Else and G. M. Spooner.

Cerceris quadricincta A digger wasp

ENDANGERED

Order Hymenoptera

Family Sphecidae

Identification Distribution Cerceris quadricincta (Panzer, 1799).

Richards (1980), p.85 and figs 237, 240.

This has always been a very rare wasp; restricted to two sites in Kent, and formerly Colchester, Essex. G. H. L. Dicker (pers. comm.) found a colony in the training area of the Royal School of Military Engineering at Upnor, near Chatham, Kent, between 1977 and 1979. A female was found on a sandy area near the top of a chalk cliff at Ramsgate on 25 August 1979. In 1900 specimens were collected elsewhere in the county, from Tilmanstone and St Margaret's Bay (Sladen, 1900). There are no recent records from Essex, though it used to be found within the town of Colchester itself, but later died out (teste R. C. L. Perkins, manuscript).

Habitat and ecology

Nests in clay or sand, provisioning its cells with weevils. It tends to be gregarious. The flight period extends from about mid-July to mid-September.

Status

The Chatham colony was small, with probably less than twenty burrows, and was located in the vertical faces of bare, sandy terraces cut in a hillside. Shortly after 1979 the area was realigned, involving the removal of the nesting site. No specimens have been seen there since 1980.

Authors

G. R. Else and G. M. Spooner.

Philanthus triangulum The Bee Wolf

VULNERABLE

Order Hymenoptera

Family Sphecidae

Identification Distribution Philanthus triangulum (F., 1775).

Richards (1980), pp.82-83 and figs 231, 232.

The British headquarters of this species has long been the Isle of Wight (St Helens, Shanklin, Totland Bay, and, since at least 1851, Sandown Bay where it used sometimes to occur in profusion). Since 1976 it has been found at three sites, in abundance at one in most seasons. It is very irregular elsewhere, although several were found on Nacton Heath, near Ipswich, Suffolk, by M. Archer on 5 August 1976 (flying over heather *Calluna*), and one on a thistle flower on a heath in south Norfolk by J. P. Field in July 1983. There are also ancient records from Hampshire, Surrey, Kent, Essex and south Wales. For map of European distribution see Heath & Leclercq (1981), map 17.

Habitat and ecology

Coastal sand dunes and cliffs on the Isle of Wight, and heathlands in East Anglia. The nest burrows are excavated in both vertical and level sandy soil. The cells are provisioned with paralysed bees, most frequently honeybees Apis mellifera, but if these are scarce then with various suitably-sized mining-bees (Andrena and Lasioglossum species). This habit has earned the wasp the colloquial name of 'Bee Wolf. The species flies from early July to mid or late August, and visits bramble Rubus, thrift Armeria maritima and thistle Cirsium flowers. The life-history and ecology has been studied in depth by Tinbergen (1951).

Threats

The destruction of existing sites. It seems to benefit from trampled sandy soil with sparse vegetation on the St Helens dunes.

Conservation

One Isle of Wight site is on National Trust property, another is on an SSSI.

Authors

G. R. Else and G. M. Spooner, using additional information from Smith (1851a), Saunders (1896), Blair (1948) and Wakely (1955).

Andrena ferox

A mining bee

ENDANGERED

Order Hymenoptera

Family Andrenidae

Identification

Else (in preparation).

Distribution

It has apparently always been a rarity and, on account of its unusual nesting behaviour, extremely local. There are records from Kent, Berkshire, Hampshire, East Sussex, Cornwall and Avon. The most recent is a small collection of females from Pluckley, Kent, 15 May 1966, K. M. Guichard.

Andrena (Hoplandrena) ferox Smith, 1847.

Habitat and ecology

Meadowland and probably open woodland. In common with the related A. bucephala Stephens and A. scotica Perkins, the nesting behaviour is remarkable among British bees. The females of an entire colony use a single entrance hole in the ground to gain access to their underground cells (Yarrow & Guichard, 1941; Leys, 1978). Each shared nest is inhabited by up to eighty females, and (in a Dutch example) consisted of one vertical shaft with side passages radiating from it in all directions, each of the side passages terminating in a cell. A continuous flow of females passes through the entrance in fine weather. In a Hampshire locality about four such colonies have been discovered in close proximity to one another. The species is also unusual in that provisioning females visit oak Quercus flowers. A spring species, flying in April-May.

Threats A rare species with such unusual nesting behaviour is clearly at risk, as it would obviously be very easy to destroy an entire colony. Authors G. R. Else and G. M. Spooner, using additional information from Perkins (1919b). Andrena A mining bee **ENDANGERED** floricola Order Hymenoptera Family Andrenidae Andrena (Micrandrena) floricola Eversmann, 1852. Identification Else (in preparation). Distribution The sole British specimen was a female taken at Princes Risborough, Buckinghamshire, on 11 May 1939 by E. Ernest. Habitat and ecology The British specimen was probably taken at late sallow Salix. On the Continent this species is double-brooded, the first visiting shepherd's purse Capsella bursa-pastoris and mustards Brassica, while the second visits only Berteroa incana (a cruciferous plant not indigenous to this country). The species nests in the soil. Authors G. R. Else and G. M. Spooner, using additional information from Stoeckhert (1933, p.125) and Yarrow & Guichard (1941). Andrena **ENDANGERED** A mining bee gravida Order Hymenoptera Family Andrenidae

Andrena (Zonandrena) gravida Imhoff, 1832, formerly misidentified as A. fasciata.

Identification

Else (in preparation).

Distribution

Kent has always been the British headquarters for this bee, with records from numerous localities including Maidstone, East Malling, St Leonards (possibly the one near Malling), Canterbury, Gravesend, and Chatham. It has also been collected in Essex (Colchester, Dovercourt), and East Sussex (Hastings and south of Tunbridge Wells). The record for Perth, Tayside (cited in Saunders, 1896 and Perkins, 1919b) can safely be dismissed. Most records were made in the latter half of the last century and the early years (up to 1931) of the present one. The latest is from East Malling, Kent, a female on apple flowers, 25 April 1961, J. R. Chiswell.

Habitat and ecology

The typical habitat in Britain is not known. Flower visits include sallow Salix, mallows Malvus and dandelions

Taraxacum. The bee flies from late March to May, but there are three records of a second brood in July and August. (Its sibling A. flavipes Panzer is regularly double-brooded.) Status The above history certainly suggests a marked decline which cannot easily be explained. However, it is most unlikely that this species is extinct in Kent. No one has especially searched for it in recent years and unless one happened to chance upon a nesting aggregation the chances of success are probably remote (Felton, pers. comm.). Authors G. R. Else and G. M. Spooner, using additional information from Jones (1932). Andrena VIII.NERABLE A mining bee hattorfiana Order Hymenoptera Family Andrenidae Andrena (Charitandrena) hattorfiana (F., 1775). Identification Else (in preparation). This, our largest and perhaps most attractive Andrena, is usually black-brown, but forms of the female with red-banded abdomens are occasionally encountered Distribution Rare and declining. Formerly widely distributed, but local and not always common where it did occur, over much of southern England and parts of south Wales - Norfolk, Essex, Kent to Cornwall (including the Isle of Wight), Wiltshire, Oxfordshire, Surrey and Glamorgan. In Devon it was even found high up on Dartmoor. In recent years there have only been a few, scattered records (usually of odd specimens) from Kent, East Sussex, Wiltshire, Cornwall and Devon. Its special nest parasite, Nomada armata Herrich-Schaeffer, is even rarer (an Endangered species). Habitat and ecology Dry grassland (particularly on calcareous soils) and even roadside verges with field scabious Knautia arvensis. Females provision their cells only with field scabious pollen. Males have been observed visiting nipplewort Lapsana. The bee also visits white clover Trifolium repens and smooth hawk's-beard Crepis capillaris, probably for nectar. The flight period extends from July to August. The decline is almost certainly the result of loss of habitat, Threats especially the ploughing-up of downland for cultivation; indeed one East Sussex colony manages to exist on the edge of a cereal field. Field scabious is becoming more a plant of roadside verges and railway cuttings and embankments.

sites should be considered.

(1901) and Perkins (1919b).

The purchase (or agreement on land use) of the remaining

G. R. Else and G. M. Spooner, using information from Hamm

Conservation

Authors

| Andrena lathyri | A mining bee | ENDANGERED |
|---------------------|--|-------------------|
| Til stess seminals | Order Hymenoptera | Family Andrenidae |
| 1891 by | Andrena (Taeniandrena) lathyri | Alfken, 1899. |
| Identification | Else (in preparation). | |
| Distribution | Wiltshire: near Burbage, 16 and 19 May 1970, K. M. Guichard and S. Thewes (Guichard, 1971) and 15 May and 4 July 1971 (a worn female), K. M. Guichard. Somerset: Moorlinch, a female, 22 May 1950, J. Cowley (unpublished). It is widespread on the Continent. | |
| Habitat and ecology | The Wiltshire colony was located along the banks of a disused railway line where the bees were visiting the flowers of common vetch <i>Vicia sativa</i> and less frequently bush vetch <i>V. sepium.</i> In France males have been taken at the pink flowers of a vetchling (<i>Lathyrus</i> species). The species nests in the soil. | |
| Status | The above are the only known British records. None were observed on two visits in 1984 to the Burbage site by G. R. Else and M. Edwards. | |
| Threats | The destruction of habitat. | |
| Conservation | No measures proposed, though clearly steps to protect the habitat should be taken. | |
| Authors | G. R. Else and G. M. Spooner. | |
| Andrena lepida | A mining bee | ENDANGEREI |
| Librards at 15 to | Order Hymenoptera | Family Andrenidae |
| Sinfatos | Andrena lepida Schenck, 1859. A. combinata Christ by Yarrow | |
| Identification | Else (in preparation). | |
| Distribution | Extremely rare, recorded only from one site in Berkshire and two in Dorset. A male was collected at Aldworth, on the Berkshire Downs, on 9 May 1931, by E. Burtt (BM(NH)); a female at Witchampton, Dorset on 11 July 1951, by P. Harwood; and a female at Badbury Rings, near Wimborne, Dorset, 2 August 1952, by G. M. Spooner (a second possible specimen in poor condition was observed but not retained). | |

(See Yarrow, 1955 and 1968.)

Habitat and ecology Chalk grassland. The Badbury Rings specimen was visiting hogweed Heracleum sphondylium. In Britain the species is clearly double-brooded, as on the Continent (where the spring brood flies in April and May, the summer one in July and August). Status Searches at Badbury Rings in 1953 and 1954 by G. M. Spooner and in 1984 by G. R. Else and M. Edwards have failed to produce further specimens. Threats Loss of habitat. Authors G. R. Else and G. M. Spooner. Andrena nana A mining bee ENDANGERED Order Hymenoptera Family Andrenidae Andrena (Micrandrena) nana (Kirby, 1802). Identification Else (in preparation). In the past other distinct species in the A. minutula (Kirby) complex were sometimes misidentified as A. nana. Distribution There are only four British specimens. The first was collected at Barham, Suffolk, by W. Kirby (Kirby, 1802, pp. 161-162) and this is the type specimen; it is in the Kirby Collection, BM(NH). The second specimen was a female collected near Luddesdown, Kent, on 27 August 1899 by H. Elgar, and is in the Maidstone Museum (Felton, 1963. p. 185). A male was collected at Oxshott, Surrey in July 1915. collector unknown (specimen in the University Museum, Oxford). Finally, a female was obtained at Sudbury. Suffolk. in 1923 by Harwood (BM(NH)). Habitat and ecology There is nothing on record for Britain, but it is almost certainly double-brooded (as in Europe). Authors G. R. Else and G. M. Spooner. Andrena polita A mining bee ENDANGERED + Order Hymenoptera Family Andrenidae

Andrena polita Smith, 1847.

Identification Else (in preparation).

Distribution

In Britain the bee has been recorded from only two sites. both in north Kent. Northfleet: at least two examples prior to 1855 by F. Smith (Smith, 1855, p.88). Halling: one female, 6 July 1901, H. Elgar (Maidstone Museum Collection); one female, 6 July 1902, H. Lamb (BM(NH)); one male, 2 July 1933, G. E. Frisby (Frisby, 1934, p. 136); and one male, 1 July 1934. I. F. Perkins (Oxford University Museum). (See also Elgar, 1901b; Frisby, 1928, p. 98; Felton, 1963, p. 184.)

Habitat and ecology

The Northfleet specimens were collected in chalk pits, and those from Halling were taken on chalk grassland at Upper Halling. In West Germany the bee has been observed nesting gregariously in a rock wall (Stoeckhert, 1933). The Elgar specimen was reported as visiting a flower of field rose Rosa arvensis, the Frisby male was visiting a vellow composite. On the Continent the following are said to be visited: bindweed Convolvulus arvensis, chicory Cichorium intybus and mouse-ear hawkweed Hieracium pilosella. In Europe the species is widespread, but uncommon in the north. The flight period extends from early June to mid August.

Status

The last British record was more than fifty years ago and it must be feared that the species may now be extinct here.

Threats Authors Loss of chalk downland habitat. G. R. Else and G. M. Spooner.

| Andrena | |
|------------|--|
| tridentata | |

A mining bee

ENDANGERED

Order Hymenoptera

Family Andrenidae

Identification

Andrena (Cnemidandrena) tridentata (Kirby, 1802).

Else (in preparation).

Distribution

Very rare with only a few scattered records from East Anglia (Suffolk, Norfolk and Essex) and Dorset. The majority of the few British records were made in the last century. Since 1901 only five females from four localities have been recorded from Britain, and only one since 1920 - Norden, Corfe, Dorset, a female at smooth hawk's-beard Crepis capillaris on a railway bank, 30 July 1944, C. D. Day.

Habitat and ecology

Little information. Specimens have been collected from ragwort Senecio, purple loosestrife Lythrum salicaria, and smooth hawk's-beard. The bee flies in July-August.

Authors

G. R. Else and G. M. Spooner, using additional information from Perkins (1919b).

Andrena vaga A mining bee ENDANGERED Order Hymenoptera Family Andrenidae Andrena (Melandrena) vaga Panzer, 1799. Identification Else (in preparation). Distribution There are just four British records: an ancient (pre-1850) male, without locality in Walcott's collection (Perkins, 1917); Deal, Kent: a male on 12 April 1939, K. M. Guichard (Yarrow & Guichard, 1941); Bignor, West Sussex: a female on 16 April 1945, C. H. Andrewes (Andrewes, 1946); and Folkestone, Kent: a female on 12 April 1946 (Collins, 1946). Habitat and ecology Of the two British females, one was investigating a garden bank (in which was a large colony of Andrena flavipes Panzer) and the other was flying above a roadside bank and bore a load of pollen. A soil-nester. Yarrow (in Yarrow & Guichard, 1941) reports that this Status species is not uncommon on the Continent and individuals may well be blown across the Channel to this country. where they may survive and breed for a few seasons. However, the possibility of the species being indigenous but extremely local must not be overlooked, since a collector would never find it unless he chanced to be in the right place at the right time. Authors G. R. Else and G. M. Spooner, using additional information from Perkins (1919b). ENDANGERED + A mining bee

| Halictus | |
|-------------|--|
| eurygnathus | |

Order Hymenoptera

Family Halictidae

Identification

Else (in preparation).

Distribution

In Britain this bee has always been a very rare species with a few very old sporadic records from the London district, Dorset (Portland), and Suffolk. Its headquarters, however, in the first half of the present century, have been Kent (Rochester, Dover, St Margaret's Bay, Upper Halling) and East Sussex (Brighton, Eastbourne, Ovingdean, Seaford, Littlington).

Halictus (Halictus) eurygnathus Bluethgen, 1931, formerly

misidentified as H. quadricinctus (Kirby).

Habitat and ecology

Chalk downland, usually near the coast. In the south-east it was sometimes reported as being abundant, but forming extremely local colonies. Both sexes visit *Centaurea* flowers, including greater knapweed *C. scabiosa* and lesser knapweed *C. nigra*. Females have been collected from early June to late September, males from early August to early September.

Status

The most recent record was about forty years ago. It may well be extinct in Britain.

Threats

The loss of suitable habitat (e.g. chalk grassland on the cliff top at St Margaret's Bay has been ploughed up), and doubtless too by pressure from the holiday trade (chalets and similar developments).

Authors

G. R. Else and G. M. Spooner, using information from Saunders (1881), Sladen (1897), Elgar (1901a), and Malloch (1904).

Halictus maculatus

A mining bee

ENDANGERED +

Order Hymenoptera

Family Halictidae

Identification

Else (in preparation).

Halictus (Halictus) maculatus Smith, 1848.

Distribution

Although widely distributed in western Europe this is another bee which has always been very rare in Britain, with only a few records (nearly all of single examples). It has been collected in Kent (Upper Halling), East Sussex (Hastings), Hampshire (Blackwater), Isle of Wight (Sandown Bay), south Devon (Chudleigh and possibly Exeter) and Surrey (Weybridge).

Habitat and ecology

The only detailed information available is provided by Perkins (1919a). In a Devon colony the bees nested in burrows scattered singly over three or four square metres of level ground in a pasture field. There are no flower records for Britain. Females fly from May to September, males from early July to September.

Status

Perkins (1919a) discovered a thriving colony at Chudleigh which persisted from 1919 to 1930. His son, J. F. Perkins, informed G. M. Spooner that it was a prolific colony in the bank of an old gravel pit (in valley alluvium) by the River Teign opposite Chudleigh Knighton; it also occurred down the river valley at Gooseham. Shortly after 1930 the pit was filled with rubbish and levelled off, and the colony wiped out. The species has not been seen in Britain since.

Authors

G. R. Else and G. M. Spooner, using additional information from Elgar (1901a).

Lasioglossum A mining bee VULNERABLE laticeps Order Hymenoptera Family Halictidae Lasioglossum (Evylaeus) laticeps (Schenck, 1870), formerly misidentified as Halictus semipunctulatus Schenck. Identification Else (in preparation). Distribution In Britain it is confined to the coast of Dorset and extreme east Devon, from Kimmeridge in the east to the Devon side of Lyme Regis in the west. However, since its discovery in Britain in 1903 (Saunders, 1904) the species has been reported from only about five or six sites. Colonies appear to be few and far between and the attendant females are extremely localised and elusive. When colonies are found both sexes can be locally common. Coastal undercliffs and landslips, nesting, usually Habitat and ecology gregariously, in the clay soil (some have also been noted nesting in the joints of a stone wall). Females have been collected from wild carrot Daucus carota flowers and the males, which appear in late summer, have been swept from fleabane Pulicaria dysenterica, ragwort Senecio and Daucus. This bee is one of many Lasioglossum species which are semisocial, i.e. a worker caste is produced in the early summer. L. Packer has recently studied the life-history of this species in Dorset (Packer, 1983). The flight period of the females is April-August, and the males July-August. Status Probably not declining, but the extreme localisation of colonies and the difficult terrain make this a difficult species

to monitor.

Threats

Authors

Conservation

Sections of the Dorset coast are extremely unstable and it is thus probable that some colonies are occasionally eliminated by landslips or cliff falls.

Two sites are on National Trust property, one is a reserve of the Dorset Naturalists' Trust, one is probably on the Axmouth-Lyme Regis Undercliffs NNR, and one is on Ministry of Defence property.

G. R. Else and G. M. Spooner, using additional information from Nevinson (1904).

Dufourea A mining bee **ENDANGERED** minuta Order Hymenoptera Family Halictidae Dufourea minuta Lepeletier, 1841, formerly known as D. halictula (Nylander). Identification Else (in preparation). Distribution Extremely rare with very few British records, which are summarised as follows. Surrey: Byfleet, many specimens 1913-20, C. H. Mortimer and E. Nevinson (specimens in BM(NH)); Woking, a female from a large sand-pit on Woking Heath, O. C. Silverlock (Saunders, 1910, p. 11). Dorset: Ferndown, four males, 14 July 1948, P. Harwood; Parley, one female, 30 July 1953, P. Harwood (Harwood specimens also in BM(NH)). Habitat and ecology Confined to sandy soils. Mortimer (1913) described a populous nesting aggregation at Byfleet. Here the males were usually found at rest on stones or low-growing plants and within a week the females appeared in equal abundance. These constructed their burrows between stones, chiefly on a hard sandy pathway, less frequently in an adjoining sandy, moss-covered bank. The cells were provisioned with sheep's-bit Jasione montana pollen. The species has been found on the wing from late June to late July. Loss of heathland habitat. Threats Authors G. R. Else and G. M. Spooner. Dufourea A mining bee **ENDANGERED** vulgaris Family Halictidae Order Hymenoptera Dufourea vulgaris Schenck, 1859. Identification Else (in preparation).

Distribution

Recorded only from Surrey, the south Hampshire-Dorset boundary, and Dorset. The records are as follows: Surrey: Woking, 1 August 1881, a number observed by banks of the canal, visiting ragwort *Senecio*, a few caught (Billups, 1881). Hampshire-Dorset boundary: Chewton, coastal undercliff, by sweeping chamomile *Matricaria* flowers and low herbage, 12 August 1879, one male (S. S. Saunders, 1880). Dorset: Holt, 14 August 1956, fresh female, P. Harwood (unpublished).

Habitat and ecology Sandy soils. Specimens have been collected from dandelion Taraxacum and ragwort flowers: E. Saunders (1896)

describes the male as wriggling into the flower in a highly characteristic manner. The flight period extends from early

to mid August.

Status A small active species, readily overlooked or not

recognised.

Authors G. R. Else and G. M. Spooner

Melitta dimidiata

A mining bee

ENDANGERED

Order Hymenoptera

Family Melittidae

Melitta dimidiata Morawitz, 1876, formerly known as Pseudocilissa dimidiata.

Identification

Else (in preparation).

Distribution

Very rare, known in Britain from only two or three sites near Tilshead, Salisbury Plain, Wiltshire, and from another on chalk downland in the Vale of Pewsey, near Easton Royal, Wiltshire. It is also rare in Europe.

Habitat and ecology

The largest of the four British *Melitta* species, occurring on chalk grassland. The species exclusively provisions its cells with sainfoin *Onobrychis viciifolia* pollen and nectar. During dull, cold spells males have been observed sheltering in the racemes of the host plant (Baker, 1965). A typical

'mining-bee', the nest burrows being excavated in soil. Flies from June to late July.

Status

The small, vulnerable colony near Easton Royal was observed as recently as 30 June 1984 (G. R. Else).

Threats

The loss of habitat. A major colony on White Barrow, near Tilshead, was destroyed a few years ago when the ancient monument was surrounded by fencing and sheep introduced. The grazing has favoured the chalk grassland flora generally, but the stock virtually eliminated the sainfoin. Although the plant is still found outside the fencing, the bee has not been seen since despite special searches made during the flight season and in favourable weather conditions.

Conservation

White Barrow is a property of the National Trust.

Authors

G. R. Else and G. M. Spooner, using additional information from Yarrow (1968) and Guichard (1973).

| Stelis breviuscula | A cuckoo bee | ENDANGERED |
|-----------------------|--|--|
| Dieviuscula | Order Hymenoptera | Family Megachilidae |
| Bons found, Very | Stelis breviuscula (Nylander, 1 | 848). |
| Identification | Else (in preparation). | |
| Distribution | A very recent addition to the British list. A fresh male was collected from a flower of ragwort <i>Senecio jacobaea</i> at Iping Common, near Midhurst, West Sussex, on 8 August 1984 by G. R. Else. | |
| Habitat and ecology | In Western Europe the bee Heriades truncorum (L.) is reported as the host of S. breviuscula (Bischoff, 1927, p. 397; Schmiedeknecht, 1930, p. 836; Stoeckhert, 1933, p. 230). The host nests in burrows in dead wood and occasionally crumbling masonry. The British specimen of S. breviuscula was collected on the edge of heathland, close to felled, stacked trees where H. truncorum also occurred. Stoeckhert (1933) records the following flowers visited by S. breviuscula: bramble Rubus, sheep's-bit Jasione montana, yarrow Achillea millefolium, mouse-ear hawkweed Hieracium pilosella, and dandelion Taraxacum. On the Continent the flight period extends from early June to the beginning of September. | |
| Status | All four British Stelis species a there is only a single record of considered to be an indigenous obligate association with H. tre | of S. breviuscula it is us species in view of its |
| Threats | Probably in no immediate danger; although its host is nationally a very scarce species, it seems to be well-established in the Midhurst area. | |
| Authors | G. R. Else and G. M. Spooner. | |
| Osmia inermis | A mason bee | VULNERABLE |
| Osmia inermis | | |

Else (in preparation).

Identification

Distribution

An arctic-alpine mason bee which is one of the rarest and, until recently, least known of British bees. It is confined to the central Grampian Highlands in both Highland and Tayside Regions (Speyside in Inverness District, several sites between Blair Atholl and Rannoch, and Glen Almond, north-west of Perth).

Habitat and ecology

Exposed upland sites between about 350 and 400m on floristically diverse base-rich soils. The female constructs from leaf mastic tight clusters of naked oval cells attached to the underside of a flat rock overlying a slight depression in the ground. The number of cells per rock varies between one and about sixty, but up to 230 have been found. Very large totals are probably the product of more than one female, or more than a single generation. Adults resulting from these cells usually emerge after two or more winters. the first spent as a prepupa, the second as a diapausing bee. One south-facing site near Blair Atholl consisted of heavily-grazed sheep pasture on well-drained hillocky ground dominated by a short sward of heather Calluna vulgaris interspersed with various herbs (e.g. violets Viola. bilberry Vaccinium myrtillus, primrose Primula vulgaris, bugle Aiuga reptans, and birdsfoot-trefoil Lotus corniculatus). A further important feature was numerous loose rocks of suitable size. Forage plants have not been recorded from Britain, but probably include birdsfoot-trefoil, sallows Salix and bilberry, as quoted in the literature for Europe and North America. The bees fly from late May to July.

Threats

The destruction of habitat by afforestation of upland sites. According to the recent Perthshire Structure Plan there is at present an area of 11% forestation, but this is likely to be increased.

Authors

G. R. Else and G. M. Spooner, using additional information from Smith (1851b).

Osmia uncinata A mason bee

VULNERABLE

Order Hymenoptera

Family Megachilidae

Osmia (Melanosmia) uncinata Gerstaecker, 1869, formerly misidentified as O. inermis (Zetterstedt), another Vulnerable species.

Identification

Else (in preparation).

Distribution

A very rare boreo-alpine mason bee, recorded only from a few sites in Speyside (Inverness, Highland), between Kincraig and Nethy Bridge (c. 250-300m). A very recent addition to the British list.

Habitat and ecology

Open sites in relict Caledonian Forest, at lower altitudes than O. inermis. British nests have not been found, but in Europe they occur in borings in the trunks and stumps of pine Pinus, including pieces of loose bark lying on the ground. Both sexes visit birdsfoot-trefoil Lotus corniculatus, occasionally broom Cytisus scoparius and bilberry Vaccinium myrtillus, and fly from late April to late June (sometimes early July).

Threats

Reduction and destruction of the surviving remnants of its forest habitat.

Authors

G. R. Else and G. M. Spooner, using additional information from Stoeckhert (1933), pp. 205-206.

Osmia xanthomelana

A mason bee

ENDANGERED

Order Hymenoptera

Family Megachilidae

Osmia (Melanosmia) xanthomelana (Kirby, 1802), formerly known as Osmia atricapilla Curtis.

Identification

Else (in preparation).

Distribution

Now only on the south coast of the Isle of Wight. Formerly as two apparently discontinuous populations, one in southern England (Suffolk, Essex, Kent, Sussex, Hampshire, Isle of Wight, Devon, Cornwall, Gloucestershire and Avon), the other in north-west England and north Wales (Cumbria, Durham, Lancashire, Merseyside and north Gwynedd – especially the north and south coastline of the Lleyn Peninsula).

Habitat and ecology

On the Isle of Wight coastal landslips and cliffs. The females forage on birdsfoot-trefoil *Lotus corniculatus* and horse-shoe vetch *Hippocrepis comosa* and probably nest at the roots of vegetation on the less steep gradients of cliff faces. The nest consists of several 'pot-like' cells constructed from mud (see Waterhouse, 1844). Females visit seepages at the base of the cliffs to collect the mud. The flight period extends from April to July, both sexes overwintering in their cells as freshly emerged adults.

Status

The species always appears to have been uncommon and very local. After an interval of twenty-six years, when no specimens were recorded in Britain, C. H. Andrewes took a female at Chale, Isle of Wight, on 18 May 1954. No more were found until G. R. Else and D. M. Appleton discovered two sites in 1977 and 1978, but only one of these seems to have a small but permanent population.

Threats

The cause of decline (which began during the last century) of this handsome bee is not known, but may be related to climatic changes. The females are perhaps vulnerable to collectors as they congregate at wet mud. Also, the sites are threatened by cliff falls, which occasionally occur along the Isle of Wight coastline.

Conservation

Former sites need to be visited to establish if the species has survived to the present day.

Authors

G. R. Else and G. M. Spooner, using additional information from Kirby (1802, pp.246-247), Smith (1876, pp.155-156), Saunders (1896; 1909), Perkins (1923, p.217; 1924, p.147), and Jones (1932).

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Nomada armata A cuckoo bee ENDANGERED Order Hymenoptera Family Anthophoridae Nomada armata Herrich-Schaeffer, 1839. Identification Else (in preparation). Distribution To Perkins (1919b) this species seemed generally to occur more or less freely in all the districts recorded for its host (with the exception of the eastern counties where it appeared unexpectedly rare), though not with every host colony. Its distribution within Britain includes Kent, Isle of Wight, Dorset, Devon, Cornwall, Berkshire, Oxfordshire, Surrey, Essex, Norfolk and West Glamorgan. Habitat and ecology The special cleptoparasite or cuckoo-bee of Andrena hattorfiana (F.). Both sexes, in common with the host, visit field scabious Knautia arvensis flowers. Flies from June to August. Today it is an extremely rare species, the most recent Status record being a specimen taken in a malaise trap in an Oxford garden in 1974 (C. O'Toole). Threats The present scarcity of this bee can be at least partially explained by the decline of its host, which is itself a Vulnerable species. Authors G. R. Else and G. M. Spooner, using additional information from Hamm (1901). Nomada errans A cuckoo bee **ENDANGERED** Order Hymenoptera Family Anthophoridae Nomada errans Lepeletier, 1841. Identification Else (in preparation). Distribution Only known from a short stretch of coast in the Isle of Purbeck, south-east Dorset. First discovered in Britain by C. D. Day on 6 August 1944 (Spooner, 1946). Subsequently it

Purbeck, south-east Dorset. First discovered in Britain by C. D. Day on 6 August 1944 (Spooner, 1946). Subsequently it was found in very small numbers in July and August 1945-46, Spooner & Day; 21 July 1974, K. M. Guichard; and 26 July 1982, G. R. Else. The first British specimen, however, was a male collected in 1878 by C. W. Dale, but was misidentified until correctly determined by G. M. Spooner in 1971

(unpublished).

Habitat and ecology

Rough grassland and landslip. Specimens have been observed visiting yarrow Achillea millefolium, wild carrot Daucus carota and ragwort Senecio flowers. On the

Continent the species is a nest parasite of the bees Andrena nitidiusculus Schenck and A. pallitarsis Perez (a species not found in Britain) (Stoeckhert, 1933, pp. 157-158). In Purbeck the presumed host is A. nitidiusculus, which in this site is usually uncommon and, nationally, occurs sporadically in about half a dozen southern counties.

Status

Other colonies of A. nitidiusculus in Dorset and Hampshire have been investigated for N. errans, but none have so far been found.

Threats

The small, permanent population is perhaps at risk from over-collecting. The host too seems to be scarce in this locality (in contrast to one or two other sites along the Dorset coast), only rarely becoming abundant.

Conservation The locality is a Country Park, administered by the Dorset County Council, from whom a permit is necessary for

collecting.

Authors G. R. Else and G. M. Spooner.

| Nomada guttulata | A cuckoo bee | ENDANGERED |
|---------------------|---|---|
| | Order Hymenoptera | Family Anthophoridae |
| | Nomada guttulata Schenck, 18 | 859. |
| Identification | Else (in preparation). | |
| Distribution | | te its discovery in Britain in mer, 1908a), Suffolk (Morley, rnwall (G. M. Spooner), Devon Sussex (Ditchling, 8 May 1943). |
| Habitat and ecology | The special nest parasite of A has been collected on coasta flies in May and June. Both se flowers of germander speedy which is also the host's main in Potentilla. | exes have been taken at the well Veronica chamaedrys, |
| Status | The most recent record know collected at Wembury, south G. M. Spooner. The host bee species and may be decrease | Devon, on 11 May 1967 by is by no means a common |
| Authors | G. R. Else and G. M. Spooner | r, using additional information |

from Perkins (1919b).

| Nomada sexfasciata | A cuckoo bee | ENDANGERED | |
|------------------------|---|----------------------|--|
| / malesack of double | Order Hymenoptera | Family Anthophoridae | |
| | Nomada sexfasciata Panzer, 1 | 799. | |
| Identification | Else (in preparation). The largest British Nomada species. | | |
| Distribution | A rare and declining species known today only from one coastal site in south Devon which supports a thriving extended colony of <i>Eucera longicornis</i> (L.). In the past it was widely distributed but local and recorded from localities in Hampshire (New Forest), Surrey, East Sussex, Gloucestershire and south Devon. | | |
| Habitat and ecology | The special nest parasite of <i>E. longicornis</i> (and perhaps the Endangered <i>E. tuberculata</i> (F.)?). Flies in May and June. | | |
| Status | The Devon colony was discovered by G. M. Spooner in the mid-1970s and seems to be stable, as specimens have been seen several times in subsequent years. | | |
| Threats | The cause of decline is not known; doubtless the host bee is not as widespread as in earlier decades, but still remains quite common, especially along the south coast (e.g. Isle of Wight and Dorset). | | |
| Conservation | The site is in need of protection. | | |
| Authors | G. R. Else and G. M. Spooner, using additional information from Perkins (1919b). | | |
| Nomada xanthosticta | A cuckoo bee | ENDANGERED | |
| | Order Hymenoptera | Family Anthophoridae | |
| | Nomada vanthostista (Kirby | 1802) | |
| Identification | Nomada xanthosticta (Kirby, 1802). | | |
| Distribution | Else (in preparation). Very rare, recorded from Hampshire, Dorset, Buckinghamshire, the London area, Bedfordshire, Hertfordshire, Cambridgeshire, Leicestershire, Suffolk and Norfolk. Old literature records (e.g. Smith, 1876, pp.121-122) quote Yorkshire, Northumberland and other northern records, but these really refer to <i>N. obtusifrons</i> Nylander. In common with other cleptoparasites, it is usually scarcer than its host, though on one or two occasions it has been reported as locally abundant in the vicinity of its host's colonies. There has been no record since specimens were collected at Leckford, Hampshire on 17 April 1947 (J. Lewis Collection). | | |
| Habitat and ecology | The special cleptoparasite of the mining-bee Andrena praecox (Scopoli). It is mainly associated with open broad-leaved woodland, visiting sallow Salix catkins. | | |

| | Individuals have also been observed flying low over dead leaf litter in partial shade (presumably searching for the host's nesting burrows). It flies from April to May. | | |
|-----------------------|---|----------------------|--|
| Status | The reason for its rather dramatic decline to the point of extinction within Britain remains a mystery. However, two other Nomada species (N. sexfasciata Panzer and N. signata Jurine) have similarly declined sharply, in contrast to their hosts which remain locally common in many areas. Andrena praecox similarly remains a common early spring bee pre-eminently associated with Salix blossom over much of southern England. | | |
| Authors | G. R. Else and G. M. Spooner, using additional information from Perkins (1919b) and Chambers (1949, p. 246). | | |
| Eucera tuberculata | A mining bee | ENDANGERED + | |
| Topic under veget vit | Order Hymenoptera | Family Anthophoridae | |
| | Eucera tuberculata (F., 1793). | | |
| Identification | Else (in preparation). | | |
| Distribution | Formerly rather widely distributed but rare in southern England, recorded from Kent, East Sussex, Isle of Wight, Gloucestershire, Berkshire, and Suffolk. Some of these records are very old. It has not been found in Britain for over forty years. | | |
| Habitat and ecology | Virtually unknown for Britain, but it has occurred in open deciduous woodland, and at least one site (since built over) was open grassland. Its flower preferences and nesting habits are probably similar to <i>E. longicornis</i> (L.), i.e. various vetches <i>Vicia</i> , and nesting burrows excavated in soil. | | |
| Status | Much less common than the widespread <i>E. longicornis</i> , except in Kent. Occasionally the two species fly together, as at Hothfield (Felton, 1963), but <i>E. tuberculata</i> seems to be more confined to sheltered or wooded situations. The reason for its apparent decline remains unknown. It has not been recorded in Britain since 1941. | | |

Authors

G. R. Else and G. M. Spooner, using additional information from Yarrow (1968).

| Melecta luctuosa | A cuckoo bee | ENDANGERED |
|--------------------------|--|--------------------------|
| de fissignit are | Order Hymenoptera | Family Anthophoridae |
| | Melecta luctuosa (Scopoli, 1770) |). |
| Identification | Else (in preparation). | |
| Distribution | Rare, with no recent British records. Dorset (several localities), Surrey, Hampshire (New Forest), Essex, and London (Hampstead Heath). The host bee is also decreasing: there are recent records only from a site in Essex and one on the Isle of Wight. | |
| Habitat and ecology | A nest parasite of the bee <i>Anthophora retusa</i> (L.) (e.g. Morice, 1901). It flies in April and May. It may be expected flying about banks, sandy cliffs and cuttings where the host nests. | |
| Threats | Not known. However, a favoured locality many years ago was the New Forest (near Lyndhurst). As a result of very heavy grazing by ponies flowering plants are generally scarce and are invariably at their best on the roadside verges, protected for the most part by the enclosure fences. Most bees have declined in this once famous locality. A. retusa was once abundant there, but is now perhaps extinct. | |
| Authors | G. R. Else and G. M. Spooner. | |
| Bombus | A bumblebee | ENDANGERED + |
| cullumanus | Order Hymenoptera | Family Apidae |
| us territorios (4 oniceo | Bombus (Cullumanobombus) cu | ullumanus (Kirby, 1802). |
| Identification | Else (in preparation). | 71.1 VE |
| Distribution | Formerly widespread but always very rare and local. It has been recorded from Kent, East Sussex, Hampshire, Dorset, Berkshire (several localities on downland in the Thames Basin, 1916-1926), the border of Bedfordshire and Hertfordshire (the Chilterns between Tring and Dunstable), Hertfordshire, Essex, Bedfordshire and Suffolk. There has been no record in Britain since May 1926. For map of former distribution see Anon. (1980), map 6. | |
| | been no record in Britain since | May 1926. For map of |
| Habitat and ecology | been no record in Britain since | May 1926. For map of |

Threats If the species has survived it is threatened by the loss of

habitat and by modern agricultural practices which are

destroying natural downland ecology.

Authors G. R. Else and G. M. Spooner, using additional information

from Yarrow (1954) and Alford (1975).

DIPTERA

The Flies

With about 6000 species in Britain, the Diptera are the largest order covered in the Red Data Book. The majority are small, rather poorly-known and often difficult to identify. Three sections, however, are quite well-known – the Tipulidae (craneflies), the larger Brachycera (horseflies, robber-flies, soldier-flies, etc.), and the Syrphidae (hoverflies). Because of the large size of the order and the relatively poor knowledge of many of the groups, species accounts have been prepared for only 82 of the Endangered and Vulnerable species – about 17% of the species listed in those categories.

The Red Data Book includes 270 Endangered, 226 Vulnerable and 328 Rare species. With a further three species included in the Appendix (extinct before 1900), a total of 827 species are listed. This represents approximately 14% of the British fly fauna – the same proportion as for the Coleoptera.

Of the selection of Endangered and Vulnerable species described in these accounts, 45% are aquatic. Their larvae occur in more or less still water (ponds, ditches, bogs, marshes, etc.) or in wet habitats adjacent to water (e.g. wet moss by streams). The adults may be seen in flight around waterside vegetation. A quarter of the aquatic species are associated with the brackish conditions found in coastal ditches and pools. As has been seen in the previous orders, aquatic habitats of all types are greatly threatened by land drainage and other aspects of agricultural improvement. 37% of the species described occur in broad-leaved woodland, many of them associated with rot-holes in old trees. As in the Coleoptera, ancient woodlands such as Windsor Forest are frequently the only known sites for such species. Their future depends upon the retention of over-mature, dead and fallen timber, and less zeal in the 'tidying-up' of forests. The remaining 18% of described species occur in other terrestrial habitats such as pine forest, heathland, sand dunes and grassland.

A general introduction to the Diptera is provided by Colyer & Hammond's Flies of the British Isles (1968), though this is now out of print. An introduction and key to the families of Diptera are included in the RESL's series of Handbooks (Oldroyd, 1970), and many families are covered in this series. A key to the families of British Diptera (Unwin, 1981) is a title in the Field Studies Council's AIDGAP series. A good recent guide to a single popular family is British hoverflies (Stubbs & Falk, 1983). The AES has published A dipterist's handbook (Stubbs & Chandler, 1978).

There are several Diptera recording schemes, coordinated by A. E. Stubbs. A bulletin is issued, and there are regular meetings. A preliminary distribution atlas of the hoverflies has been produced (Entwistle & Stubbs, 1983).

| Ctenophora flaveolata | A cranefly | ENDANGERED |
|-------------------------------|--|-------------------------|
| | Order Diptera | Family Tipulidae |
| | Ctenophora flaveolata (F., 17 | 794). |
| Identification | R. L. Coe in Coe et al (1950), p.8. A large ichneumon wasp-mimic with yellow and black banded abdomen and large feathery antennae in the male. | |
| Distribution | Formerly widespread in central southern England though with few localities; also in North Wales and Yorkshire. There are recent records only from the New Forest, Windsor Forest, the south Chilterns and the Sussex downs. | |
| Habitat and ecology | Woodland with ancient trees, especially beech Fagus. Breeds in dead wood, probably on an annual life cycle. The adults fly in May and June. It is believed to breed in large over-mature beech trees. | |
| Status | Of fifteen historic 10km squares for this large spectacular species, only five apply to the post-1960 period. The New Forest is possibly the best area, with two sites (in different 10km squares). In Windsor Forest it is exceedingly rare, and there are possible problems of habitat continuity affecting the other two sites. | |
| Threats | The reduction and loss of de | ead wood habitat. |
| Conservation | In Windsor Forest there is a conservation management agreement and a less precise one concerning the New Forest. | |
| Author | A. E. Stubbs. | |
| Nonhveteme | N aran offer | ENDANGERED |
| Nephrotoma sullingtonensis | A cranefly | ENDANGERED |
| sumigionerisis | Order Diptera | Family Tipulidae |
| JOSE Distrayor (SEE). | Nephrotoma sullingtonensis | Edwards, 1938. |
| Identification | R. L. Coe in Coe et al (1950), p.8. | |
| Distribution | Confined in Britain to Sullington near Worthing in West Sussex. It has been recorded on the Continent so it is not endemic. | |
| Habitat and ecology | Heathland with pine woods. It was recently taken beside a sandy path across a patch of heather <i>Calluna</i> with lichens. This patch of heather is in a glade only 100m across, surrounded by pine <i>Pinus</i> . It is not known whether the insect is strictly confined to this type of habitat on the site. | |

Only known from the type locality at Sullington Warren. Status where it was taken on two occasions in June 1938 (Edwards. 1938b). The Warren was subject to several unsuccessful searches in the 1970s, but two males and a female were found (by M. Edwards) on 4 June 1983. The area of available habitat is extremely small since pine now covers much of the site, open areas now being mostly grassland. Southern heathland and pine woods have been well worked for craneflies, especially in the adjacent county of Surrey, so this is considered to be a genuinely very rare insect. A. F. Stubbs Author Limonia aperta A cranefly ENDANGERED Order Diptera Family Tipulidae Limonia (Dicranomyia) aperta (Wahlgren, 1904). Identification Edwards (1938a), p.41; R. L. Coe in Coe et al (1950), p.28. Distribution Only known from Craven District (North Yorkshire) and Moray (Grampian). Habitat and ecology Adults have been found sitting on the flowers of grass of Parnassus Parnassia palustris at a bog locality. The details are otherwise unknown. Status Although said to be 'common locally', it is only known from Austwick Bog, where it was taken on 3 September 1930, and it is said to have been found in Moray (Coe, 1950). Conservation Austwick Bog is now an SSSI, though somewhat changed since the record was made. Author A. E. Stubbs.

| Limonia bezzii | A cranelly | VULNERABLE |
|--|--|-------------------------|
| Ceratina | Order Diptera | Family Tipulidae |
| Productive of the second of th | Limonia (Geranomyia) bezzii (Alexander | & Leonard, 1912). |
| Identification | R. L. Coe in Coe et al (1950), p.30. | |
| Distribution | Originally found at Chesil Beach, Dorset, in 1939, but not confirmed there recently. has been found at Arne in Poole Harbour | In recent years it |

Harbour (West Sussex), and Stiffkey (Norfolk).

Habitat and ecology

Coastal lagoons where the upper tidal shore has gravel with the alga *Enteromorpha*. Its life history is unknown but the larvae probably live in intertidal gravel in brackish lagoons, possibly feeding on *Enteromorpha*. The adults fly between June and September.

Status

Of interest as one of the few marine craneflies independent of saltmarsh. Its potential habitat is of limited occurrence. Though the sites are in amenity areas, they are sensitive to many pressures. Shores with gravel would not attract the same conservation concern as muddy shores of high ornithological value.

Threats

Sailing and other amenity facilities could affect shores directly or indirectly by disrupting the sedimentary regime; mineral workings may upset the shore at Arne, and oilfield development in Poole Harbour may have a direct or indirect impact; a proposed nuclear power station in the Fleet could affect water temperatures on the Chesil Beach saltmarsh; potential gravel extraction.

Conservation

All sites are of some conservation status – an LNR at Pagham, an RSPB reserve at Arne (though the lease does not cover mineral workings), and an SSSI.

Author

A. E. Stubbs.

| Limonia | |
|--------------|--|
| omissinervis | |

A cranefly

VULNERABLE

Order Diptera

Stubbs (1974).

the Spey.

Family Tipulidae

Identification

Limonia (Dicranomyia) omissinervis (de Meijere, 1918), formerly misidentified as L. patens (Lundstroem).

Distribution

Very sporadic occurrence. At one site on the River Tay (Tayside), two nearby sites on the River Spey (Highland), a site on the River Usk (Gwent), and another on the River Wye (Hereford & Worcester). It is only found commonly on

R. L. Coe in Coe et al (1950), p.28 (as L. patens); Hutson &

Habitat and ecology

Alluvial, usually sandy river banks within the shade of alders *Alnus*, willows *Salix* or other trees. Its life cycle is unknown but the larvae probably occur in alluvial river banks. The adults may be found in July and August.

Status

Apart from a previously misidentified specimen taken in 1911, all records date from 1972. Though it may yet prove more widespread, it does seem to be highly localised even on its chosen rivers.

Threats River improvement, including the removal of trees on the Usk and the Wye. Amenity management could affect a critical section of the Spey. Author A. E. Stubbs. Limnophila A cranefly ENDANGERED fasciata Order Diptera Family Tipulidae Limnophila (Idioptera) fasciata (L., 1767). Identification R. L. Coe in Coe et al (1950), p.40. A medium-sized species with banded wings. Distribution Between 1920 and 1938 it was found in five localities in north-west England, comprising one in Cumbria, two in Yorkshire and two in north Cheshire. In 1964 it was found at one site in Cheshire, which was probably an additional site though this cannot be certain. Mosses and marshes beside lakes. Its life history is unknown Habitat and ecology but it is assumed to be univoltine, with the larvae occurring in marsh soil. The adults fly May to July. A very attractive species, yet there have been no records in Status the last fifteen years despite an unprecedented level of recording. Threats The 1964 site was very vulnerable to damage by trampling from amenity use. Austwick Moss (North Yorkshire) has become drier and scrubbed over in part, and Cliburn Moss (Cumbria) has been partially drained. The exact location of the other old sites is unknown Conservation Austwick Moss and the more recent Cheshire site are SSSIs. All localities need further checking. Author A. E. Stubbs. VULNERABLE Gonomyia A cranefly punctata Family Tipulidae Order Diptera Gonomyia (Idiocera) punctata Edwards, 1938. Identification Edwards (1938a), pp.107-108; R. L. Coe in Coe et al (1950), p.50.

Distribution Northern and western England: Hereford & Worcester, North Yorkshire and Cumbria. Habitat and ecology Unknown.

| Status | the period 23 August-1 Septe The other localities are the M | orkshire, where it was taken in ember 1937 (Edwards, 1938a). Monnow Valley on 3 July 1906 (Hereford & Worcester), and |
|---|---|---|
| Author | A. E. Stubbs. | |
| Gonomyia | A cranefly | ENDANGERED |
| sexguttata | Order Diptera | Family Tipulidae |
| | Gonomyia (Idiocera) sexgutta | ata (Dale, 1842). |
| dentification | Edwards (1938a), p.107; R. L. | . Coe in Coe et al (1950), p.49. |
| Distribution | Confined to Cornwall and Do | orset. |
| Habitat and ecology | Unknown. | |
| Status | Only known from the type locality, Glanvilles Wootton, Dorset, in about 1860, and from St Merryn, Cornwall, in June 1912. | |
| Author | A. E. Stubbs. | |
| Erioptera | A cranefly | VULNERABLE |
| bivittata | Order Diptera | Family Tipulidae |
| | Evientere (Messermhene) hi | article and the second second |
| | Enopiera (iviesocypnona) bi | vittata (Loew, 1873). |
| Identification | Hutson & Vane-Wright (1969 | vittata (Loew, 1873). 1), p.249 and figs 7-10. A small cently added to the British list. |
| | Hutson & Vane-Wright (1969 dark brown species only red Originally discovered on the subsequently found at Romn |), p.249 and figs 7-10. A small cently added to the British list. |
| Identification Distribution Habitat and ecology | Hutson & Vane-Wright (1969 dark brown species only red Originally discovered on the subsequently found at Romn (Suffolk), and Stiffkey and Carestricted areas. Coastal ditches with mildly kinland fen where other brack | p), p.249 and figs 7-10. A small cently added to the British list. North Kent Marshes, and ey Marsh (Kent), Walberswick atfield Fen (Norfolk). Common in brackish water, in one case an kish species also occur. Its life arvae are assumed to breed in |

| Threats | Agricultural improvement of coastal levels could largely eliminate the Kent populations. The East Anglian sites are relatively safe even though problems remain. Occurs on one NNR (Walberswick), and all other populations are on SSSIs. Firmer habitat protection measures on certain Kent sites are proposed. A. E. Stubbs. | |
|-------------------------|--|---------------------------------------|
| Conservation | | |
| Author | | |
| Erioptera | A cranefly | VULNERABLE |
| limbata | Order Diptera | Family Tipulidae |
| in halloca of lovel sec | | and SM Core and the Core and the Core |
| T-1 | Erioptera (Erioptera) limbata | |
| Identification | Edwards (1938a), p.123 and fig. 24i; R. L. Coe in Coe et al (1950), p.55 and fig. 25i. | |
| Distribution | Dorset, Gwent and east Kent. | |
| Habitat and ecology | By a small, wooded stream with tufa (in Kent), and under willows Salix on the banks of a river (in Gwent). | |
| Status | Only known from three specimens in Great Britain. The Dorset record is from Glanvilles Wootton, taken in 1864. The Gwent record is for a specimen taken by the River Usk at Newbridge-on-Usk on 7 August 1972, and the Kent record was from Asholt Wood in August 1974 (Stubbs, 1976). | |
| Conservation | Asholt Wood is an SSSI. | |
| Author | A. E. Stubbs. | |
| Erioptera | A cranefly | ENDANGERED |
| pusilla | Order Diptera | Family Tipulidae |
| mou abdec, selpects o | Erioptera (Psiloconopa) pusill | la (Schiner, 1865). |
| Identification | Edwards (1938a), p.130 and fig. 23e; R. L. Coe in Coe et al (1950), p.57 and fig. 24e. | |
| Distribution | Hereford & Worcester. | |
| Habitat and ecology | Unknown, though assumed to be associated with sandy river banks. | |
| Status | Only known from the River Monnow, where it was taken on 17 July 1907, 31 July 1908 and 30 May 1911. There are no recent records. | |

Threats The Monnow has already been modified by the water

authorities along some stretches.

Author A. E. Stubbs.

Author

Dasyhelea VIILNERABLE A biting midge lithotelmatica Order Diptera Family Ceratopogonidae Dasyhelea lithotelmatica Strenzke, 1951. Identification Strenzke (1950). Distribution Limestone pavement karst of the Yorkshire Dales and about Morecambe Bay, occurring from near sea level to about 350m. Suitable breeding sites are sparse, though individual solution cups can have about 100 larvae. The majority of limestone pavement is unsuitable. Small solution cups on exposed limestone pavement clints. Habitat and ecology The larvae are aquatic, able to withstand drying-out of the sediment in and on which they live. A prime example of an insect with a highly specialised Status habitat of exceedingly localised occurrence. It is in danger through illicit limestone pavement removal, though the problem is now reduced and some localities have effective protection. The destruction of limestone pavement by removal as Threats rockery stone. Quarrying is a more local threat. The development of vegetation cover is a potential threat on some sites. The Wildlife and Countryside Act 1981 has strengthened Conservation legislation for the conservation of limestone pavements. Present on one, possibly two, NNRs. Also occurs on several SSSIs, including those situated in the Yorkshire Dales National Park. It will be necessary to locate breeding cups on pavements where scrub encroachment is a potential threat, so that management can take the species' needs into account.

(1975).

A. E. Stubbs, using additional information from Disney

| Asindulum nigrum | A fungus gnat | VULNERABLE |
|------------------------|---|---|
| estillidensiontif virm | Order Diptera | Family Mycetophilidae |
| | Asindulum nigrum Latreille | e, 1805. |
| Identification | Hutson et al (1980), p.34, fig | gs 15 and 131. |
| Distribution | Only known from East Anglia (the Norfolk Broads south to Thorndon Fen and Mildenhall in Suffolk), Oxfordshire (Longwall Street, Oxford), and Somerset (Shapwick Heath). | |
| Habitat and ecology | Fenland. The adults feed at umbel flowers. The biology is not known. The larvae of related species are predatory, spinning webs in which they catch their prey. | |
| Status | It was found relatively frequently in the earlier years of this century but appears to have become scarcer and has not been found in recent years. | |
| Threats | The drainage of fenland. | |
| Conservation | Shapwick Heath is an NNR. | |
| Author | P. J. Chandler, using additional information from Edwards (1913), Morley (1920), and Hamm (1926). | |
| Neoempheria lineola | A fungus gnat | ENDANGERED |
| inteola | Order Diptera | Family Mycetophilidae |
| aleansanv | Neoempheria lineola (Meigen, 1818), formerly known as Empheria lineola. | |
| Identification | Hutson et al (1980), p.45 an | nd fig. 184. |
| Distribution | Only known from the New Forest in Hampshire, where it has been found at Brockenhurst and in Denny Wood. | |
| Habitat and ecology | Old deciduous forest. It develops in decaying wood, according to continental records. | |
| | It has been found in the New Forest area on several occasions but most recently in 1939 at Denny Wood, and confirmation is required of its survival there. | |
| Status | occasions but most recentl | y in 1939 at Denny Wood, and |
| Status Threats | occasions but most recentl | y in 1939 at Denny Wood, and its survival there. |

active which that (SM) deligated in the case are the deligated the description of the case of the case

| Sciophila ochracea | A fungus gnat | ENDANGERED |
|-----------------------|--|-----------------------------|
| publishing Myselford | Order Diptera | Family Mycetophilidae |
| January de | Sciophila ochracea Walker, | 1856. |
| Identification | Hutson et al (1980), p.52 and | l fig. 207. |
| Distribution | Very local but evidently widespread in southern England. There are records from a Cambridge garden in 1915, of larvae on fungus on an old plum tree at Woodwalton Fen before 1925, and of larval webs on a cherry branch near Oxford in 1956. | |
| Habitat and ecology | Deciduous woodland. Probably in old orchards, etc., where its host fungus occurs. The larvae spin webs on the surface of hard bracket fungi (probably tawny fomes <i>Phellinus pomaceus</i>) on plum and cherry trees (<i>Prunus</i> species), feeding on the spores. | |
| Status | No records are more recent than 1956, and the species should be sought in suitable habitats where the presence of larvae is probably easier to establish than that of adults. | |
| Threats | The destruction of old and dying trees. | |
| Conservation | Woodwalton Fen is an NNR. | |
| Author | P. J. Chandler, using additional information from Edwards (1925) and Smith (1957). | |
| Oxycera dives | A soldier fly | VULNERABLI |
| Consumeror. | Order Diptera | Family Stratiomyida |
| in Gradial Josephica | Oxycera dives Loew, 1845. | Service Committee Committee |
| Identification | Oldroyd (1969), p.26. | |
| Distribution | The Highland, Tayside, Central and Strathclyde Regions of Scotland, and Co. Durham and North Yorkshire in northern England. | |
| Habitat and ecology | At mossy springs, wet rock faces and small streams in partially shaded situations. A calcareous influence is usually apparent. Larvae are assumed to live in wet moss kept moist by seepages in woodland. The adults are found on foliage in the vicinity of probable breeding sites. | |
| Status | Historically a rare species. Verrall (1909) was only aware of a few specimens: one was taken at Rannoch on 8 June 1896 ("Rannoch" was used as a very general label at that time), and three were found near Rob Roy's Leap waterfall at Aberfoyle (Central) between 6 and 9 July 1903. Another was | |

found in Lanark (Strathclyde). Recently it has been found at four localities, all associated with exceedingly small breeding sites. It was taken in forest beside Loch Ness (Highland) at Port Clair in June 1965, at the Pass of Killiecrankie (Tayside), at Cotherstone Wood near Barnard Castle (Co. Durham) on 23 June 1981, and recently at Ashbury Pastures (North Yorkshire). The species is also rare in Europe, with the majority of records from the Alps.

Conservation

Whilst the three most recent sites are all within SSSIs, the habitat is so small and fragile that Vulnerable status is justified. Ashbury Pastures is a reserve of the Yorkshire Wildlife Trust.

Author

A. E. Stubbs.

| Oxycera | |
|-----------|---|
| pardalina | Ļ |

A soldier fly

VULNERABLE

Order Diptera

Family Stratiomyidae

Identification

Distribution

Habitat and ecology

Oxycera pardalina Meigen, 1822. Oldroyd (1969), p.26.

England, South Wales, and the Scottish Highlands.

Verrall (1909) cites an observation that the species is associated with the margins of small overgrown streams in hilly districts. Oldroyd (1969) reports that the males hover 6-10m up near trees by a stream and that females have been swept from vegetation. Recent experience indicates that calcareous flushes are a favoured habitat. Rozkosny (1983, pp.138-144), in commenting on the European position, says that limestone water is preferred and that the larvae are on wet rocks and stones and in wet moss by streams and torrents. In Britain it has been bred from moss on a wet limestone rock face in woodland. The adults can occur at flowers, including hogweed Heracleum sphondylium.

Status

Verrall (1909, pp.104-106) comments that this was a rare species, even at that time. It was recorded in Dorset in about 1830 (though Verrall did not examine specimens to confirm identification). A specimen was taken in 1901, it is believed near Abergavenny in Gwent. A few years later it was found at Tarrington, Woolhope, Pembridge and Cusop in south Hereford & Worcester (the last locality being on the Welsh border). Audcent noted it at Wells, Somerset and Rozkosny (loc. cit.) gives a record for Failand, Somerset (the dates of these records are not stated). Oldroyd (1969) refers to a record for Dovedale, Derbyshire, which was in fact taken on 4 July 1950. Recent records are as follows: 1 June 1970, Guiting Power reserve (Gloucestershire); 5 July 1979, Petits Tor Point, Torbay (Devon); 1 July 1980, Luccombe

Chine (Isle of Wight); and 23 June 1981, Cotherstone Wood (Co. Durham). It was also found in June 1982 near Tomintoul in the Scottish Highlands.

Conservation Dovedale is a property of the National Trust and

Cotherstone Wood is part of an SSSI.

Author A. E. Stubbs.

Oxycera A soldier fly terminata

Order Diptera

VULNERABLE

Family Stratiomyidae

Oxycera terminata Meigen, 1822.

Identification
Distribution

cation Oldroyd (1969), p.26.

South-west England (Dorset, Avon, Gloucestershire, Hereford & Worcester), Bedfordshire, and the Welsh Borders. This is a rare species in Europe, indeed most records are from eastern Europe. The map in Rozkosny (1983, pp. 153-154) indicates one record for the Pyrenees and one off southern Sweden; the next nearest record is inside Czechoslovakia. (His map wrongly places a spot near the west coast of Wales; the text lists all records and makes no reference to a record in this district.)

Habitat and ecology

Oldroyd (1969) mentions that the species was once found in great numbers where a woodland stream had been diverted. Rozkosny (*loc. cit.*) simply says that adults have been collected along streams. The larva is unknown, though it is probable that it lives in streamside moss.

Status

Verrall (1909, pp.102-104) regarded this as a very rare species. He notes reports for Dorset dating from the period 1830-40. The other records that he cites are from Hereford & Worcester: Stoke Wood (in and after 1897), one at West Malvern on 8 June 1901, and it was not uncommon in the Monnow Valley on 3 July 1906. The Monnow River runs along the Hereford/Wales border for some miles and it is believed that the most frequently collected stretch was a little north of Pontrilas. The only more recent records are for Bridge Fall, Sundon (Bedfordshire), on 13 July 1947 and for Blaise Woods, near Bristol, Avon, in July 1947 and 1948.

Author

A. E. Stubbs.

| Odontomyia angulata | A soldier fly | ENDANGERED |
|------------------------|--|--|
| | Order Diptera | Family Stratiomyidae |
| | Odontomyia angulata (Panze | er, 1798). |
| Identification | Oldroyd (1969), p.31 and fig | r. 67. |
| Distribution | Norfolk, Somerset and Suffo | lk. |
| Habitat and ecology | The larvae are aquatic and the only breeding record (from Denmark) was of a larva found in a lake, and adults have been found on waterside vegetation and flowers beside standing water. | |
| Status | No recent records are available for this very rare species. Verrall (1909, pp.137-140) found it at Tuddenham, Suffolk, on 20 July 1880 and later saw it at Chippenham Fen, Cambridgeshire (but it has not been confirmed from the latter locality), and noted that H. W. Andrews found it at Sutton Broad, Norfolk, on 14 July 1905. Subsequently J. Cowley found it in Somerset, at Edington on 27 June 1947, Chilton Polden on 3 July 1951, and Street Heath on 7 July 1951. | |
| Threats | The drainage of pools and the lowering of water levels in ditches, pollution of standing water bodies, and extensive machine clearance of ponds and ditches. | |
| Author | I. F. G. McLean. | |
| Odontomyia | A soldier fly | VULNERABLE |
| argentata | Order Diptera | Family Stratiomyidae |
| Simple Lieves | Odontomyia argentata (F., 1 | 1794). |
| Identification | Oldroyd (1969), p.31, figs 68 | |
| Distribution | Somerset, Dorset, Hampshire, Suffolk, East Sussex, Cambridgeshire, Bedfordshire, Surrey, London, Essex, and Kent. | |
| Habitat and ecology | Larvae have been found in marshes and probably also occur at ditch margins. The adults are found early in the year, April-May in Britain. | |
| Status | 19th century than in his tim Fordingbridge, Hampshire (c. 1901), Seaford, East Suss Cambridgeshire (1832). Sin | vas more frequent in the early e, and records it from |

Hampshire (Leckford, 1940s and 1970s), Surrey (Bookham Common, 1948, and Staines Moor, 1955), Greater London (Uxbridge, 1926), Kent (Erith, 1948), Essex (Henny, 1911), Suffolk (Timworth, 1913), Bedfordshire (Fancott, 1944), and Cambridgeshire (Milton, 1924, Wicken Fen, 1929 and 1957, Woodwalton Fen, 1949, and Chippenham Fen, currently). There are therefore only two post-1960 localities.

Threats Drainage of wetlands, pollution of standing water bodies, and extensive machine clearance of ponds and ditches.

Conservation Chippenham and Woodwalton Fens are NNRs, and Wicken

Fen is owned by the National Trust.

Author I. F. G. McLean.

| Odontomyia ornata | A soldier fly | VULNERABLE |
|----------------------|---|------------------------------|
| TO SERVICE OF STREET | Order Diptera | Family Stratiomyidae |
| | Odontomyia ornata (Meigen, | 1822). |
| Identification | Oldroyd (1969), p.31 and fig. | 66. |
| Distribution | Somerset, East Sussex, Norfo Wiltshire. | lk, Kent, London, Surrey and |
| Habitat and ecology | The larvae are found in shallow standing water in pools and dykes, mainly in levels marshes. The adults can be found in May and June on vegetation near the breeding sites and also feeding at flowers (especially on umbels). | |
| Status | This rare species is now almost confined to the Somerset Levels, where a detailed NCC entomological survey in 1983 revealed its presence in ten 10km squares, and one 10km square in Avon, showing a preference for sites on peat. Other available records are mostly old, suggesting that this species has undergone a considerable recent decline: Wiltshire (South Marston, 1922), East Sussex (Bexhill, 1872, Lewes Levels, 1885, Pevensey Levels, 1973, Pett Level, 1986), Surrey (Byfleet, 1939), Kent (Cliffe, 1897), Greater London (Acton, 1894, Mitcham, 1900, and Stanmore, 1953), and Norfolk (Barton Broad, 1937). | |
| Threats | The drainage of wetlands, pollution of standing water bodies, and extensive machine clearance of ponds and ditches. | |
| Author | I F G McLean | |

| Stratiomys chamaeleon | A soldier fly | ENDANGERED |
|------------------------|--|-----------------------------|
| Family Stratlesselfans | Order Diptera | Family Stratiomyidae |
| | Stratiomys chamaeleon (L., 1 | 758). |
| Identification | Oldroyd (1969), p.27, figs 79, pp. 69-72. | 80 and 82; Rozkosny (1973), |
| Distribution | Has been recorded from Cambridgeshire, Leicestershire, Norfolk and Oxfordshire. Currently known from only one site (Oxfordshire). | |
| Habitat and ecology | In pools and ponds at least partially fringed with emergent vegetation. There may be a requirement for areas of shallow water overlying a fine muddy substrate, and a generally shallow profile at the water margin. The larvae are aquatic, floating on the water-surface among vegetation, and often hibernate in mud. The adults fly from July to September and visit flowers. | |
| Status | Adults have been found in the late 1970s and early 1980s at one site in Britain (Dry Sandford Pit, Oxfordshire) but at no other site in Britain since at least before 1940. It has not been found recently at Chippenham Fen NNR, Cambridgeshire, (recorded 1892) but has not been looked for at the former Leicestershire or Norfolk sites. The continuing loss of its already scarce habitat makes it increasingly unlikely that new sites will be discovered. | |
| Threats | The drainage and robust clearance of small water bodies, resulting in the loss of larval habitat by its modification to deep, steep-sided ponds which lack marginal emergent vegetation. | |
| Conservation | Believed to be breeding on one local Trust reserve (Berks, Bucks & Oxon Naturalists' Trust), and possibly on a nearby NNR (Cothill). It is necessary to investigate probable breeding sites (in the vicinity of the location of adult sightings) to determine the distribution of larvae in relation to available habitat, in order to assess what management | |

I. F. G. McLean, using additional information from J. W. Ismay and A. G. Irwin (pers. comms).

may be required.

Author

| from East Anglia to H rvae develop in stand | r & Hammond (1968), pl. 8:2. Jampshire. | |
|---|--|--|
| rd (1969), p.27; Colyer from East Anglia to H rvae develop in stand | r & Hammond (1968), pl. 8:2. Jampshire. | |
| from East Anglia to H rvae develop in stand | Jampshire. | |
| rvae develop in stand | | |
| | | |
| | The larvae develop in standing water among aquatic vegetation in saline coastal marshes and saltmarsh pools. The adults occur on low vegetation and flowers, usually near the larval habitats. | |
| This rare species has been principally known from the Thames Marshes of Essex and Kent (Shoeburyness, Benfleet and Belvedere, Isle of Grain, Northfleet, and Gravesend), and also Walland Marsh, Kent (1954), Salisbury, Wiltshire (1950: likely to be a stray), Wicken Fen, Cambridgeshire (likely to be a stray), Yarmouth, Isle of Wight (1922), Felixstowe, Suffolk, and Lymington, Hampshire, but there are very few recent records. | | |
| Agricultural 'improvement' of saltmarshes and coastal levels marshes, coastal defence works, and the associated destruction of larval habitat. | | |
| McLean. | | |
| dier fly | VULNERABLE | |
| Diptera | Family Xylomyiida e | |
| yia maculata (Meigen | n, 1820). | |
| | and 99. A medium-sized black wasp in pattern and behaviour. | |
| The three major southern ancient forests – New Forest, Windsor Forest (including Silwood Park), and Epping Forest. Also Finchley in London. Rarely found, even in apparently suitable trees. | | |
| Ancient forest or remnants with large over-mature trees with rot holes. The life cycle takes one or possibly more years to complete. The adults fly in May and June. The larvae and pupae have been found in dead wood, including rot holes above ground, being occasionally numerous in small pockets of breeding material. Beech Fagus has been recorded as a host tree. | | |
| | al. Beech <i>Fagus</i> has been | |
| | ss Marshes of Essex as elvedere, Isle of Grains Walland Marsh, Kelikely to be a stray), to be a stray), to be a stray), Yarmowe, Suffolk, and Lyrry few recent record litural 'improvement' ess, coastal defence with the strain of larval habitat. McLean. Diptera Diptera Via maculata (Meiger et al. (1969), p.33, figs 85 ellow fly, minicking a ree major southern a for Forest (including strain and the strain of the strain strain ess. The life cycle take etc. The adults fly in have been found in ground, being occas | |

have been found on a few occasions. The adult is rarely seen, despite its striking appearance. Today it is rarely found even in apparently suitable trees, so there must be concern at the progressive decline in suitable habitat. Threats Large numbers of ancient trees have been cleared for modern afforestation, for firewood, or for safety or amenity tidiness in public areas. Age-gap problems in the supply of suitable over-mature trees may arise, and with a smaller population of ancient trees there is less chance of ideal breeding sites being available. Conservation Conservation management for over-mature timber is in hand in Windsor Forest. Strengthening of the conservation measures in the New Forest and Epping Forest is required. Authors A. G. Irwin and A. E. Stubbs. Xylophagus A soldier fly ENDANGERED junki Order Diptera Family Xylophagidae Xylophagus junki Szilady, 1932. Identification Oldroyd (1969), p.34; the male is unknown. Distribution Strathspey, Highland Region. Habitat and ecology The larvae of members of this genus are found in dead wood, and it is probable that X. junki breeds in over-mature pine trees Pinus, because the only British example was found in an ancient Caledonian pine forest. The adults are elusive in this genus, but may be found resting on tree trunks. Status A very rare species in Britain, still only known from a single female found by J. E. Collin in Glenmore Forest, Aviemore, on 5 June 1913 (see Collin, 1962). The subsequent extraction of mature pine trees from this forest makes the continued survival of this species at its only known site very doubtful, but possibly it may yet be re-found in one of the Caledonian pine woods of the Spey or Dee valleys. For any site to support this species it is essential that continuity in the presence of ancient trees and dead wood is maintained. It is considered most improbable that it could survive in commercially managed pine woods. This species would be threatened by the felling of mature Threats

This species would be threatened by the felling of mature and over-mature trees or the clearance of dead wood. In commercially managed forests trees are not allowed to reach an age or condition suitable for the larvae to develop successfully.

successfully

Author I. F. G. McLean.

Chrysopilus A snipe fly VULNERABLE erythrophthal-Order Diptera Family Rhagionidae mus Chrysopilus erythrophthalmus Loew, 1840. Identification Cole (1981). Hereford & Worcester, and North Yorkshire. Distribution Habitat and ecology Larvae are found in cool water streams running at 30-70cm per second, under stones and among aquatic bryophytes (Cole, 1981, quoting data obtained by Thomas in France). Upland streams in western and northern Britain are most likely to support this species, and, as adults are seldom captured even within the known range of the species in continental Europe, it is possible that further sites may be found only by searching for larvae. Known in Britain from one female found by J. H. Wood at Status Stoke Plantation, Hereford & Worcester (thought to be the site now called Haugh Wood which has one guite large stream), on 1 July 1896. A second female was found by J. H. Cole on 3 July 1979 at Rake Beck, North Yorkshire, along the banks of a stream within a clearing in a wooded gully at about 250m above sea level (Cole, 1981). I.F. G. McLean. Author Chrysopilus **ENDANGERED** A snipe fly laetus Family Rhagionidae Order Diptera Chrysopilus laetus (Zetterstedt, 1842). Oldroyd (1969), p.46 and fig. 102. A medium-sized yellow fly. Identification Distribution The original rearing record is from Windsor Great Park. All subsequent records are from a nearby area of Windsor Forest. The larvae are of fairly regular occurrence in wet wood mould, though only one or two occur in any one piece of medium. Habitat and ecology Open-structured beech woodland with ancient beech trees Fagus. Probably univoltine. Adults probably fly in May and

June. Bred in 1939 from a pupa said to have been found in mud, but this information is probably erroneous or the circumstances misleading. In the 1960s and 1970s larvae have been found in wet wood mould in rotten stumps, rot holes and aerial logs up to 3m above ground, nearly always in beech. All British specimens have been bred except for one recent capture of an adult. The larvae are very active as if predatory, but such habits have not been confirmed.

Status It is of interest that this species has never been found in other major areas of ancient forest such as the New Forest or Epping Forest. It is one of the special elements of the dead-wood fauna of Windsor Forest. Threats Windsor Forest has a much reduced area of ancient trees following widespread introduction of modern forestry. Fallen ancient trees have been cut up for firewood on many occasions. Conservation A conservation management agreement for ancient trees provides reasonable safeguards for the future. Author A. E. Stubbs. Chrysops A horse fly VULNERABLE sepulcralis Order Diptera Family Tabanidae Chrysops sepulcralis (F., 1794). Identification Oldroyd (1969), pp.52-54; see also Colver & Hammond (1968), pl. 9:5. Distribution Confined to Dorset, apart from a recent record from the New Forest (Hampshire). Adults have been found in the vicinity of ponds and boday Habitat and ecology areas on heaths and do not fly far from their breeding sites. It is probable that this species is breeding in damp ground within its known heathland localities. Unlike other tabanids, the larvae of Chrysops are probably saprophagous rather than predatory. Adults have been taken in late July and August. Apparently confined to a few localities in the Dorset Heaths: Status Wareham, 1915 and 1919; Wareham Common, 1916; Studland, 1906, 1909 and 1933; Studland Heath, 1895; Morden Heath, 1916; Verwood, 1922; Rempstone Heath, 1931; near Agglestone (Godlingston Heath), 1933; and Stoborough Heath, 1953. Verrall (1909) gives additionally Parley Heath and Bloxworth and mentions old records from Scotland which are very doubtful (these may be referable to the black form of C. caecutiens (L.)). Goffe (1931) refers to a record from Hengistbury Head (Dorset) but he gave no records for the New Forest. However, a specimen has now been taken in the New Forest, at Holmhill on 11 July 1983 (by D. Sheppard), though this could be a stray from Dorset. The drainage of wet heath resulting in loss of suitable Threats habitat for larvae is believed to be the most significant threat to the survival of this species in Britain. Other threats

Authors I. F. G. McLean and A. E. Stubbs.

building development.

are ball clay extraction, oil-related developments, and

| Atylotus plebeius | A horse fly | ENDANGERED |
|------------------------|--|-------------------------|
| ents/ | Order Diptera | Family Tabanidae |
| chart forestry Tallier | Atylotus plebeius (Fallen, 1817). | |
| Identification | Chvala et al (1972), pp.260-26 | 62 and 264-266. |
| Distribution | Cheshire. | |
| Habitat and ecology | The larvae occur in "marshy places near peat bogs" (Chvala et al, 1972) where they are predators of other insect larvae. The females have not yet been observed as blood-sucking. | |
| Status | A very rare species in Britain with no recent records, it is known only from Abbots Moss (22 July 1911 and 6 June 1922) and Delamere (15 July 1911) and so is apparently confined to bogs in Cheshire. It is also a rare species in Europe (Chvala et al, 1972). | |
| Threats | Drainage of mosses and their invasion by pine trees, and possibly recreational pressure round Delamere. | |
| Conservation | Abbots Moss is an SSSI. | |
| Author | I. F. G. McLean. | |
| Atylotus rusticus | A horse fly | ENDANGERED |
| | Order Diptera | Family Tabanidae |
| Indiana housele | Atylotus rusticus (L., 1758). | |
| Identification | Oldroyd (1969), p.64 and fig. | 126. |
| Distribution | The only records are from Cambridgeshire (Monks Wood, 1828) (presumed to have originated from nearby fenland) and East Sussex (two records from near Lewes in the early 1880s, one record from near Eastbourne in 1900, one record from near Lewes in the 1960s, and one record from the Pevensey Levels in 1981). | |
| Habitat and ecology | Cattle-grazed levels marshes, with ditches managed on a medium length (probably about five years) clearance regime. The larvae probably live in mud at the margins of ditches on levels marshes. The adults fly from July to September. | |
| | September. | |

Threats Drainage and agricultural improvement of the Lewes and Pevensey Levels, resulting in lower water tables and aquatic pollution from run-off from arable fields. Conservation The most recent record is within an SSSI. A clearer definition of status and requirements is necessary. Author I. F. G. McLean. Hybomitra A horse fly **ENDANGERED** expollicata Order Diptera Family Tabanidae Hybomitra expollicata (Pandelle, 1883). Identification Chvala et al (1972), pp.170-177 and 243-245. Distribution Dorset and Essex. Habitat and ecology A marsh species usually associated with brackish biotopes in Europe and recorded from two coastal localities in Britain. The larvae of Tabanidae are typically found in damp soil where they are predators of other insect larvae, and it is probable that this species is breeding beside saline pools and dykes in its known localities. Only recorded from Studland, Dorset, on 1 and 3 August Status 1909, from Hadleigh, Essex, on 27 July 1969, and from Langenhoe, Essex, on 20 July 1983. This is a very rare species not recorded from coastal marshes during detailed recent surveys in Norfolk, Suffolk, Kent, Sussex, Somerset and Gwent. Drainage and agricultural improvement of coastal marshes. Threats Author I.F.G. McLean. **Epitriptus** ENDANGERED A robber fly arthriticus Order Diptera Family Asilidae Epitriptus arthriticus (Zeller, 1840). Identification Oldroyd (1969), p.93. Distribution Norfolk and Somerset. A dune locality in Somerset and the edge of the Breck Habitat and ecology (which has sandy heaths) in Norfolk. The adults prey upon

315

dwelling.

other insects. The larvae may be predicted to be soil-

The only known British records are those given in Oldroyd Status (1969): a female on 14 July 1907 at Merton, Norfolk, and a male on 16 July 1955 on Berrow sand dunes. Somerset. Author A. E. Stubbs. **Epitriptus** A robber fly VIII.NERABLE cowini Order Diptera Family Asilidae Epitriptus cowini Hobby, 1946. Identification Oldroyd (1969), p.93. Distribution Confined to north-west Wales. Habitat and ecology Recorded from sand-dunes. Status Only known recently from Morfa Harlech, where it was taken on 23 August 1968 and 17 August 1969 by P. Crow. There remains a possibility that Newborough Warren NNR and Morfa Dyfryn NNR may support this species. It has an interesting distribution in that, as far as the British Isles are concerned, it is confined to the coast of the Irish Sea; apart from north-west Wales, it is also known from eastern Ireland and the Isle of Man. Conservation Morfa Harlech is an NNR Author A. E. Stubbs. **Eutolmus** A robber fly **VULNERABLE** nufibarbis Order Diptera Family Asilidae Eutolmus rufibarbis (Meigen, 1820). Identification Oldroyd (1969), p.92 and fig. 223. A large yellowish-grey fly. Distribution The New Forest and eastern England up to Lincolnshire, but always regarded as rare and local. However, most records are old. Records from Surrey and Sussex are recent. Habitat and ecology Open dry heathland. Possibly univoltine. The adults fly in

late June to late August. It is probable that the larvae are

predatory on beetle larvae such as those of chafers or dung beetles. The adults are predatory.

Status Since this species is confined to large blocks of open dry heathland, it is in an especially vulnerable habitat and it is

on relatively few sites.

Threats The destruction of heathland, natural tree invasion of heathland (especially pines), and frequent fires reducing the age class of heath. Conservation Occurs on Chobham Common LNR, Surrey, and on several SSSIs. Clarification of its status on other historic sites is required. A. G. Irwin and A. E. Stubbs. Authors Neoitamus **ENDANGERED** A robber fly cothurnatus Family Asilidae Order Diptera Neoitamus cothurnatus (Meigen, 1820). Identification Oldroyd (1969), p.90. Distribution Two sites in Oxfordshire. Woodland, though its exact requirements are unknown. The Habitat and ecology related species N. cyanurus (Loew) occurs in woodland rides and along wood edges, often on tree foliage. It is assumed that N. cothurnatus occurs in a similar situation. Adult robber flies catch other insects as prey. The larvae are likely to be soil-dwelling (rather than living in dead wood). Verrall (1909) summarises the records of his time: a male Status was taken at Stow Wood, Oxford, on 10 June 1895 and one of each sex at Tubney Wood (then placed in Berkshire) on 2 June 1901. Subsequent searches were unsuccessful. These remain the only British records. Tubney Wood has been extensively converted to conifers so it is questionable whether a very rare asilid would have survived. Author A. E. Stubbs.

ENDANGERED Laphria gilva A robber fly Family Asilidae Order Diptera

Laphria gilva (L., 1758).

Oldroyd (1969), p.87. A large black fly with golden Identification reflections formed by hairs on parts of the abdomen.

Only reputed to be British before 1938, but in that year Distribution several specimens were taken in Windsor Forest. A pair was taken in cop. at Oxshott, Surrey, in 1946, and a pupa was found at Silchester (about the Berkshire/Hampshire border). None have been found since.

Habitat and ecology Pine Pinus woodland. Assumed to be univoltine. The adults fly mostly in July, also June. Pupae have been recorded from

pine stumps. It is possible that the larvae are predatory on xylophagous beetle larvae. The adults are predatory on other insects.

other insects

Status Pine was introduced into southern England in the 1800s, so

mature pine and the related dead wood was not really available until this century. It is not surprising that this species should be among the many pine species to have colonised the large areas of pine habitat now available; rather it is less easy to explain why, having bred here, the species should die out. It could be that there was a temporary period of favourable climate. It is quite likely that it has remained in elusive small numbers or that the species

will attempt to re-establish.

Author A. E. Stubbs.

Psilocephala A stiletto fly ENDANGERED melaleuca Order Diptera Family Therevidae

Psilocephala melaleuca (Loew, 1847).

Identification Oldroyd (1969), p.100, figs 244 and 246. The male is covered

in silver hairs, and the female is a drab brown.

Distribution All records but one are from Windsor Forest or nearby

(Ascot and Egham). First found (as a larva) in 1929. The most recent records are of a larva in 1980 from Greenwich Park, Greater London, and an adult which emerged in 1981 from a pupa collected in Windsor Forest. Overall there are

very few records.

Habitat and ecology Ancient woodland with over-mature oaks Quercus.

Presumed to be univoltine. The adults fly in June and early July. Larvae have been found in decayed oak in the autumn,

becoming adult the following summer.

Status One of the rarest and least known of our spectacular flies. It

has not been found in other ancient forest areas.

Threats Reduction in the population of ancient oaks, either through

direct destruction following modern afforestation or through shading out. A major age-class gap in suitable oaks could

arise.

Conservation A conservation management agreement for Windsor Forest

gives some hope for the future.

Author A. E. Stubbs.

| Villa cingulata | A bee fly | VULNERABLE |
|--|--|--|
| CHOLM GEORGE TAND | Order Diptera | Family Bombyliidae |
| Malf bas 5891 at mac | Villa cingulata (Meigen, 1804). | scelly sated |
| Identification | Oldroyd (1969), p.118, figs 328 a | and 330. |
| Distribution | Oxfordshire, Buckinghamshire | and Kent. |
| Habitat and ecology | A species found in southern dry localities; the larvae are parasito breeding records). Adults have | oids of other insects (no British |
| Status | A rare species known from Stokenchurch (1898) in Buckinghamshire, Wormsley (1907) and Hell Coppice (Bernwood Forest) (1935) in Oxfordshire, and Soakham Down, Kent (1937, 1938). | |
| Author | I. F. G. McLean. | |
| Villa circumdata | A bee fly | VULNERABLE |
| Target . | Order Diptera | Family Bombyliidae |
| SECTION AND A SECTION ASSESSMENT OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS O | Villa circumdata (Meigen, 1820 |)). |
| Identification | Oldroyd (1969), p.118, figs 327 and 331. | |
| Distribution | Dorset, Surrey, Hampshire and the Isle of Wight. | |
| Habitat and ecology | A species of southern heaths; the larvae are parasitoids of other insects (no British breeding records). Adults may be found sunning themselves on bare patches of sandy ground in July and August. | |
| Status | A rare species known only from Arne (1901), Bloxworth (1906), Tadnoll Winfrith (1909), Wareham Heath (1918), Corfe Castle (1944), and Morden (1956) in Dorset; Chobham, Surrey (1904); Lyndhurst, Hampshire (1894); and St Helens, Isle of Wight (1950). | |
| Author | I. F. G. McLean. | |
| Syneches muscarius | A dance fly | ENDANGERED |
| Muscarius | Order Diptera | Family Empididae |
| | Syneches muscarius (F., 1794). | The second secon |
| Identification | Collin (1961). | |
| Distribution | Known only from two sites in Dorset. | |

| Habitat and ecology | Beside or close to ditches in unimproved wet meadows. Adults occur low down on vegetation or can be taken by sweeping. The larval biology is unknown (may be predatory in soil). The adults are predatory on other insects among grass stems and have been recorded during July. |
|---------------------|---|
| Status | Recorded from The Moors, Wool, Dorset, in 1953 and 1954, but it is unlikely that the habitat remains suitable. It was refound a few miles away near Turners Puddle on 4 July 1984 during an NCC survey of Dorset meadows. The rapid and continuing loss of agriculturally-unimproved damp meadows makes it increasingly unlikely that any further sites will be discovered. This species must be at the edge of its range in southern Britain, as it is regarded as a species of south-west Europe. |
| Threats | Modification of habitat by changed agricultural methods. |
| Conservation | Assessment of the current status of the only known site and the population size of the single colony of this species is required. |
| Authors | I. F. G. McLean and A. E. Stubbs, using additional information from E. C. M. d'A. Fonseca (pers. comm.). |

| Poecilobothrus ducalis | VULNER | |
|---------------------------|---|----------------------------|
| auouno | Order Diptera | Family Dolichopodidae |
| Annual Park to | Poecilobothrus ducalis (Loew, 1857). | |
| Identification | Fonseca (1978), p.37. | |
| Distribution | Recorded from Essex, Kent, Sussex and Somerset. | |
| Habitat and ecology | Saltmarsh pools and also brackish ditches in levels marshes. The larval biology is unknown: they may be predatory in mud beside saline pools and ditches. The adults fly from July to September and are found on patches of mud beside these pools and ditches where they are predators of small insects. | |
| Status | Known from eight sites recently in Britain. | |
| Threats | The destruction of saltmarsh, and the intensive management of ditches on levels marshes, resulting in the loss of associated mud banks of low gradient, so that only steep-sided ditches remain. | |
| Conservation | Occurs at Chetney Marsh | nes, Kent, within an SSSI. |
| Author | I. F. G. McLean. | |

| Callomyia elegans | A flat-footed fly | VULNERABLE |
|----------------------|---|-----------------------------|
| | Order Diptera | Family Platypezidae |
| | Callomyia elegans Meigen, 18 | 304. |
| Identification | Chandler (1974). | |
| Distribution | Very local in south-west England (Dorset and the New Forest), South Wales (Glamorgan and Powys), Hereford & Worcester, and one record from south-west Scotland (Dumfries). All localities except those in Powys and Hereford & Worcester are near the coast. (It is scarce but widespread in Ireland.) | |
| Habitat and ecology | Mixed deciduous woodland. Its biology is not known but is probably similar to related species, i.e. the larva is a surface feeder on encrusting fungi on dead wood. | |
| Status | Most records are from the period 1861 to 1913, only the Dumfries (Gretna) record being more recent (1940). It has, however, been found in two Irish localities in recent years. Confirmation is necessary of its survival in its range in Great Britain. | |
| Threats | The loss of old-established woodland. | |
| Author | P. J. Chandler. | |
| Nephrocerus | A big-headed fly | ENDANGERED |
| scutellatus | Order Diptera | Family Pipunculidae |
| Library Lote Field | Nephrocerus scutellatus Macc | quart, 1834. |
| Identification | Coe (1966), p.36. | |
| Distribution | A single specimen was taken West Sussex (Stubbs, 1980). | in 1979 at Kings Park Wood, |
| Habitat and ecology | Deciduous woodland (with partial coniferisation; taken along a ride). Its life history is unknown but it is assumed to be an internal parasite of a large leaf-hopper (Homoptera, Auchenorhyncha). The adult was taken in mid-June. | |
| Status | Being an inch across, very much larger than the previously known British species of this family, this is an interesting addition to the British fauna. It seems highly unlikely that the specimen was a single stray blown across from Europe. Unless it is a recent colonist, the species must be very localised in occurrence to have escaped notice for so long. | |

| Threats | It is not clear whether the growth of conifers, which will swamp out much of the deciduous woodland, will have an effect. Sufficient deciduous trees may remain. Kings Park Wood is a Forestry Commission conservation area. A. E. Stubbs. | |
|-------------------------------|---|---------------------|
| Conservation | | |
| Author | | |
| Cephalops | A big-headed fly | VULNERABLE |
| perspicuus | Order Diptera | Family Pipunculidae |
| resident les records are rest | Cephalops perspicuus (de Me | eijere, 1907). |
| Identification | Coe (1966), p.58. | |
| Distribution | Only recorded from Norfolk (| two localities). |
| Habitat and ecology | The margin of fenland with a rich fen plant community. The larvae of Pipunculidae are internal parasites of plant bugs (Homoptera); the genus <i>Cephalops</i> has only been reared from bugs of the family Delphacidae. The adults of this species have only definitely been recorded in September (Irwin) but there may be an earlier brood in June-July (see Coe, 1966). | |
| Status | The only British records known are Horning Ferry (by J. E. Collin) and Catfield Fen (1977, by A. G. Irwin). Any further loss of fen habitat through agricultural reclamation will make a decline in the population of this species likely. | |
| Threats | The proposed Yare barrage would result in the loss of fen habitat which could have serious repercussions for this species. | |
| Conservation | Horning Ferry is within Bure Marshes NNR, and Catfield Fen is a Norfolk Naturalists' Trust reserve. | |
| Author | A. G. Irwin. | |
| Parasyrphus nigritarsis | A hoverfly | ENDANGERED |
| Salut days he | Order Diptera | Family Syrphidae |
| - potestina as et s | Parasyrphus nigritarsis (Zetter | rstedt, 1843). |
| Identification | Stubbs & Falk (1983), pp. 69 and 150. | |
| Distribution | The Scottish Highlands. | |
| Habitat and ecology | The larvae are recorded (on the Continent) as feeding on the eggs and larvae of chrysomelid beetles. The habitat details in Britain are unknown. | |

Status There are only a few British specimens, all old. This is one of four British hoverflies which have not been confirmed as occurring in Britain in the post-1970 period. Author A. E. Stubbs. Doros VIII.NERABLE A hoverfly conopseus Order Diptera Family Syrphidae Doros conopseus (F., 1776). Identification Stubbs & Falk (1983), pp. 61 and 135, pl. 4:14. Distribution The western Weald, also south Essex, Wiltshire, Hampshire, and a few other records including north Cumbria. Habitat and ecology Mainly chalk grassland, at the edge of scrub or woodland, often in association with bramble Rubus. The ecology of the larva is unknown but it will be of the predatory type. Status Always very rare, recent records being confined to a few chalkland sites in the western Weald, Wiltshire and south Essex. Two were taken by D.A. Sheppard on Martin Down, Hampshire, in June 1982. Conservation Martin Down is an NNR. Author A. E. Stubbs. Didea alneti A hoverfly **ENDANGERED** Order Diptera Family Syrphidae Didea alneti (Fallen, 1817). Stubbs & Falk (1983), pp. 61 and 134, pl. 3:17. Identification The West Midlands, also Essex, Kent and north Scotland. Distribution Unknown. The larvae will be of the aphid-feeding type. Habitat and ecology Always a great rarity, last taken in 1948 in Kent. This is one Status of four British hoverflies which have not been confirmed as occurring in Britain in the post-1970 period. Author A. E. Stubbs.

| Sphaerophoria loewi | A hoverfly | VULNERABLE |
|------------------------|--|-----------------------|
| | Order Diptera | Family Syrphidae |
| Letter Higher | Sphaerophoria loewi Zetterst | redt, 1843. |
| Identification | Stubbs & Falk (1983), pp. 70 | and 153, pl. A:17,18. |
| Distribution | Scattered coastal localities in southern counties and also north Lancashire. One inland locality in the Scottish Highlands. | |
| Habitat and ecology | Mainly a species of brackish marsh, usually in association with sea club-rush <i>Scirpus maritimus</i> or reed <i>Phragmites</i> . The larvae will be of the aphid-feeding type. | |
| Status | Very rare and in very few lo | ocalities. |
| Author | A. E. Stubbs. | |
| Chrysotoxum | A hoverfly | VULNERABLE |
| octomaculatum | Order Diptera | Family Syrphidae |
| Half day (C) | Chrysotoxum octomaculatum | Curtis, 1837. |
| Identification | Stubbs & Falk (1983), pp. 60 and 131, pl. 4:12. | |
| Distribution | Confined to heaths in east Dorset, the New Forest and the western Weald. For map see Entwistle & Stubbs (1983), map 11. | |
| Habitat and ecology | Confined to dry heathland. The ecology is virtually unknown, but the larvae will be of the aphid-feeding type, probably subterranean. | |
| Status | Very rare. | |
| Author | A. E. Stubbs. | |
| Chrysotoxum | A hoverfly | ENDANGERED |
| vernale | Order Diptera | Family Syrphidae |
| Total Harman | Chrysotoxum vernale Loew, | 1841. |
| Identification | Stubbs & Falk (1983), pp. 59 and 131, pl. 4:8. | |
| Distribution | The southern coastal belt of south-west England, from south-west Hampshire to east Cornwall. For map see Entwistle & Stubbs (1983), map 12. | |

Habitat and ecology Unknown. The larvae will be of the aphid-feeding type,

probably subterranean.

Status Historically seemingly very rare; only one recent record, in

Dorset.

A. E. Stubbs.

Author A. E. Stubbs.

Author

| Rhingia rostrata | A hoverfly | VULNERABLE |
|---------------------|---|------------------|
| (1991) ext3 men ex | Order Diptera | Family Syrphidae |
| | Rhingia rostrata (L., 1758). | |
| Identification | Stubbs & Falk (1983), pp. 88 and 178, pl. 5:5. | |
| Distribution | Scattered records for southern England, also north-west Wales. | |
| Habitat and ecology | Woodland. The larval habitat is unknown; <i>R. campestris</i> feeds in cattle dung so <i>R. rostrata</i> could use dung or perhaps carrion. | |
| Status | Recorded very infrequently but it can suddenly appear in numbers at a site for a few weeks and then vanish. No permanent populations are known. It was last reported in Britain in 1976. | |

| Ferdinandea ruficornis | A hoverfly | VULNERABLE |
|---------------------------|---|-------------------------------|
| runcornis | Order Diptera | Family Syrphidae |
| dismilliontes | Ferdinandea ruficornis (F., 1 | 775). |
| Identification | Stubbs & Falk (1983), pp. 87 | and 177, pl. 5:2. |
| Distribution | Only currently known from a few places in the New Forest. Otherwise there are only a few old records for southern England, and one specimen from Derbyshire. | |
| Habitat and ecology | Woodland with sufficient goat moth trees. Adults occur in mid-summer sitting on tree trunks with sap runs caused by caterpillars of the goat moth <i>Cossus cossus</i> . The larvae have also been found in such situations, seemingly the essential breeding conditions. | |
| Status | This species has always bee extinction if the goat moth do only known sites. The popular small. | eclines for any reason at the |

| Threats | The major decline in the status of the goat moth in the last thirty years has severely reduced the potential habitat. The hoverfly clearly requires continuity of habitat in viable quantity. The reason for the decline of the moth is not entirely clear, though reduction in the abundance of old trees and the removal of unsound infested trees must have contributed to the problem. | | |
|---------------------------|---|--------------------|--|
| Conservation | The priority is to ensure that the habitat is not destroyed. It is very difficult to devise positive measures: a survey of any new major sites for goat moth will be required. | | |
| Author | A. E. Stubbs, using additional information from Coe (1953) and I. Perry (pers. comm.). | | |
| Chamaesyrphus caledonicus | A hoverfly | ENDANGERED | |
| caledonicus | Order Diptera | Family Syrphidae | |
| Charles of the ball to | Chamaesyrphus caledonicus Collin, 1940. | | |
| Identification | Stubbs & Falk (1983), pp. 102 | and 204, pl. 5:20. | |
| Distribution | Moray (Grampian). | | |
| Habitat and ecology | Unknown. | | |
| Status | One female was taken in August 1938 at Culbin Sands, a locality now largely covered in conifer plantations. This is the only reliable specimen (M. C. D. Speight, pers. comm.) though a very few other specimens from the Scottish Highlands have been attributed to this species. If these other specimens are in future regarded as a different species, such a species will itself be a Red Data Book candidate. | | |
| Author | A. E. Stubbs. | | |
| Myolepta potens | A hoverfly | ENDANGEREI | |
| in applicable | Order Diptera | Family Syrphidae | |
| | Myolepta potens (Harris, 178 | 0). | |
| Identification | Stubbs & Falk (1983), pp. 92 and 184, pl. 7:2. | | |
| Distribution | Only recorded from a small area near Bristol and the Shapwick/Edington area of Somerset. For map see Entwistle & Stubbs (1983), map 22. | | |
| Habitat and ecology | Unknown. It is assumed to be a woodland species, breeding in dead wood (in common with <i>M. luteola</i> , whose larvae are adapted to live in wet rot-holes). | | |
| Habitat and ecology | & Stubbs (1983), map 22. Unknown. It is assumed to be a woodland species, breeding in dead wood (in common with <i>M. luteola</i> , whose larvae are | | |

Only a few specimens are known, all found in the 1940s. At Status least one of its former woods has been coniferised. This is one of four British hoverflies which have not been confirmed as occurring in Britain in the post-1970 period. Author A. E. Stubbs. Brachyopa A hoverfly VULNERABLE bicolor Order Diptera Family Syrphidae Brachyopa bicolor (Fallen, 1817). Identification Stubbs & Falk (1983), pp. 89 and 180. Distribution The New Forest and Windsor Forest: also Hertfordshire and Sussex Habitat and ecology Dead wood (or possibly sap runs), associated with large standing live trees, especially beech Fagus. The only known regular site is in the New Forest. It is Status certainly very rare in Windsor Forest/Great Park. The other records are old. Author A. E. Stubbs. Hammer-A hoverfly ENDANGERED schmidtia ferruginea Order Diptera Family Syrphidae Hammerschmidtia ferruginea (Fallen, 1871), formerly known as Brachyopa ferruginea. Stubbs & Falk (1983), pp. 91 and 183, pl. 7:12. Identification Only positively known from Strathspey (Highland) but there Distribution is another probable sighting from Torboll, south-east Sutherland. The population is believed to be small. Open structured woodland with birch Betula and aspen Habitat and ecology Populus tremula. Its ecology is unknown but the related genus Brachyopa breeds in dead wood and sap runs. The adult has been reported from the stumps and trunks of aspen and birch, and also at flowers including rose Rosa. Recently three females were found at a large rot-hole in the side of a mature aspen, suggesting that this is the real

breeding site.

It has always been a great rarity; there are very few recent Status sightings and it is in danger of extinction. It was found at an aspen stand in Sutherland in 1984. Suitable breeding sites are few and large aspens with rot-holes are particularly rare. Its ecological requirements are poorly understood. Threats The removal and coniferisation of native deciduous woodland. Also the felling of aspens before maturity, when rot-holes and sap runs develop. Conservation Recorded in one SSSI, but whether there is breeding here is unknown. There is a need for another SSSI in the Spey Valley to include the best historic locality where it still Author A. E. Stubbs, using additional information from Coe (1953) and I. Perry (pers. comm.). Callicera aenea A hoverfly VULNERABLE Order Diptera Family Syrphidae Callicera aenea (F., 1777). Identification Stubbs & Falk (1983), pp. 73 and 159, pl. 9:2. Distribution Scattered records, mainly in southern England but extending northwards to Yorkshire. For map see Entwistle & Stubbs (1983), map 3. Habitat and ecology Unknown. The larvae almost certainly live in dead wood (an adult has been seen about birch logs). There is no obvious habitat association, perhaps open structured woods being the most plausible. Status Unpredictable in occurrence and seemingly extremely rare. Author A. E. Stubbs. Callicera rufa A hoverfly **ENDANGERED** Order Diptera Family Syrphidae Callicera rufa Schummel, 1841. Identification Stubbs & Falk (1983), pp. 73 and 159, pl. 9:3. Distribution Ancient Caledonian pine forests on the eastern side of the Scottish Highlands. For map see Entwistle & Stubbs (1983), map 3. The population is believed to be small.

Habitat and ecology The larvae live in partially water-filled rot-holes in large ancient pine trees Pinus sylvestris. The needs of the adults are unknown, but they are normally seen on the trunks of live trees and on stumps. Status It has always been rare, but is now in danger of extinction. A large area of over-mature trees is required to ensure that some are in the right condition. It has a chance on two NNRs, but otherwise the outlook is bleak Threats Suitable ancient pines with the right type of rot-hole would seem to be very rare nowadays. Modern commercial forestry practice is changing the structure of native forests so that over-mature trees with rot-holes will not be represented in the future. Conservation Present on two NNRs, but only one has long-term provision for the right habitat. There is a need to ensure that other sites have suitable forestry plans. Author A. E. Stubbs, using additional information from Coe (1953). Callicera A hoverfly ENDANGERED spinolae Order Diptera Family Syrphidae Callicera spinolae Rondani, 1844. Identification Stubbs & Falk (1983), pp. 73 and 159, pl. 9:1. Distribution A few localities in East Anglia. For map see Entwistle & Stubbs (1983), map 3. Adults occur at ivy blossom Hedera helix in the autumn. The Habitat and ecology larvae are unknown, but almost certainly live in rot-holes in trees. Always a rarity but was reasonably strong at one site in the Status 1970s. However, it has rapidly declined and has seemingly disappeared in the last few years. There is strong reason to believe that it bred in elm trees (Ulmus species) which have now died and been removed after Dutch elm disease. It was rediscovered at its former strongest site in 1984, but is scarce, apparently dependent now on beech Fagus.

(pers. comm.).

A. E. Stubbs, using additional information from I. Perry

Author

| Microdon devius | A hoverfly | VULNERABLE |
|----------------------|---|--------------------------------|
| devius | Order Diptera | Family Syrphidae |
| Mil Summe of Applica | Microdon devius (L., 1761). | employe distributes |
| Identification | Stubbs & Falk (1983), pp. 112 a | and 228 (genus, pl. 9:4,5). |
| Distribution | Mainly the North Downs of Surrey and the Chilterns, but also the South Downs, Oxfordshire and perhaps Wyre Forest, and more doubtfully north-west Wales. However, records are few and mostly old. Only known in recent years from the North Downs. The population is believed to be small. | |
| Habitat and ecology | Chalk grassland is the normal habitat. Some localities would equate with other calcareous grassland and possibly other habitats. Scrub edge may or may not be required. The larvae live in ants' nests, feeding on buccal pellets. The literature is confused and probably unreliable as to the ant hosts, but the best candidates are in the genera <i>Lasius</i> and <i>Formica</i> , probably also <i>Myrmica</i> . The adults are normally swept from long grass or found sitting beside paths. | |
| Status | The absence of knowledge about its ecological requirements makes the future very uncertain. Only the two North Downs sites are good prospects and one of these is extremely small. It is possible that further sites may be located on the North Downs, the Chilterns or elsewhere though the species is always very localised and elusive. | |
| Threats | Changes in the character of chalk grassland and its ant fauna; scrub encroachment; ploughing, afforestation and other forms of land improvement. Close grazing is also probably damaging. | |
| Conservation | Present on two National Trust | properties in Surrey, of which |

Present on two National Trust properties in Surrey, of which one is an SSSI. The management plan for the main site is probably satisfactory for this species. There is a need to survey the distribution and status more accurately, and in particular the biology.

A. E. Stubbs, using additional information from Donisthorpe

(1927, pp. 125-126) and Coe (1953).

Chalcosyrphus A hoverfly VULNERABLE eunotus Order Diptera Family Syrphidae Chalcosyrphus eunotus (Loew, 1873), formerly known as Brachypalpus eunotus. Identification Stubbs & Falk (1983), pp. 110 and 221, pl. 10:7. Distribution Hereford & Worcester, and Oxfordshire (that part formerly in Berkshire). Habitat and ecology Undoubtedly breeds in dead wood but nothing is known of the early stages. Since the adult has been found on a log resting in a stream, and flying over a shaded pool, it is possible that it breeds in semi-submerged logs, but this remains far from proven. Has only been found on four occasions, two of them in 1899 Status near Ledbury (Hereford & Worcester). In 1953 one was found at Cothill (Oxfordshire) and another in the Wyre Forest in 1977. There is thus only one recent record of this very rare species and nothing is known of management needs; possibly this species should be classified as Endangered, but the Welsh Borders are poorly recorded at present. Conservation Cothill and Wyre Forest are NNRs. Author A. E. Stubbs. Caliprobola A hoverfly ENDANGERED speciosa Order Diptera Family Syrphidae Caliprobola speciosa (Rossi, 1790). Identification Stubbs & Falk (1983), pp. 110 and 219, pl. 10:9. Distribution Currently only in Windsor Forest and the New Forest. There are very old records for Yorkshire and Derbyshire. A puparium was found in wet wood pulp in the base of a Habitat and ecology hollow beech stump Fagus. The adults seem to favour tall stumps in small sunny glades, mainly of beech but rarely also of oak Quercus. A great rarity. It is now almost certainly confined to the New Status Forest, where it is only frequent at one site, and to Windsor Forest, where it has become much rarer over the last twenty years. This is one of our most handsome hoverflies. so the restriction and decline at its best sites in the last forty years as a consequence of reduction in habitat is of concern.

A. E. Stubbs.

Author

| Pocota personata | A hoverfly | VULNERABLE |
|---------------------|---|----------------------------|
| sephianya vinte i | Order Diptera | Family Syrphidae |
| | Pocota personata (Harris, 178 | 30). |
| Identification | Stubbs & Falk (1983), pp. 110 | and 222, pl. 10:11. |
| Distribution | Mainly southern England, but Devon and Nottinghamshire. | t sparse records extend to |
| Habitat and ecology | Breeds in rot-holes in trees, usually high above ground. It occurs in ancient forests but there are a few records in other places. | |
| Status | This has always been a rarity though on a few occasions it has been reared in numbers from a concentration of larvae in rot-holes. Currently it is rare even in major ancient forests such as Windsor Forest and the New Forest, and modern records outside these are very infrequent. | |
| Author | A. E. Stubbs. | |
| Blera fallax | A hoverfly | ENDANGERED |
| | | |
| | Order Diptera | Family Syrphidae |
| | Blera fallax (L., 1758). | |
| Identification | Stubbs & Falk (1983), pp. 109 | and 218, pl. 10:5. |
| Distribution | Historically in the main Caledonian pine forests of eastern Scotland, but currently only known at one site in the Spey Valley. The population is believed to be small. | |
| Habitat and ecology | Mature or over-mature native pines <i>Pinus sylvestris</i> , and possibly deciduous trees, in Caledonian forests. An old observation of unknown source or reliability is of a female laying eggs in sap exuding from beech <i>Fagus</i> and oak <i>Quercus</i> trees. Recent observations have been of adults sitting on live pine trunks and flying about the bases of such trunks where a thick mass of flakes of bark is exposed end-on at soil level. The hoverfly is related to genera which breed in dead wood, so it is possible that the larvae live between such pine-bark flakes and perhaps under similar circumstances about deciduous trees. | |
| Status | It was formerly local but widespread in the pine-woods of the eastern Highlands, but is now in danger of extinction. Its ecological requirements are unknown so it is difficult to cater for. | |
| Threats | The loss of ancient trees thromodern forestry practice in S | |

| Conservation | The one remaining known site is an RSPB reserve. Further survey is required to check on its biology and to find further populations. | |
|--|--|--|
| Author | A. E. Stubbs, using additional information from Coe (1953), G. Else and I. Perry (pers. comms). | |
| BURAREMIOV | - Santano Pagrasso, 1 a gů | istad-As – žirgiv ugoja. |
| Psilota anthracina | A hoverfly VULNER | |
| | Order Diptera | Family Syrphidae |
| Election (Carlotte | Psilota anthracina Meigen, | 1822. |
| Identification | Stubbs & Falk (1983), pp. 10 | 01 and 203, pl. 5:3. |
| Distribution | Southern England, principa and Windsor Forest (Berks) | lly the New Forest (Hampshire) hire). |
| Habitat and ecology | The larval ecology is unknown. Sites usually contain ancient trees so dead wood could be the breeding site (though apparently related genera feed in bulbs and herbaceous roots). The adults are normally found on hawthorn blossom Crataegus. | |
| Status | A great rarity, only regularly seen at Windsor Forest. It is difficult, in the absence of meaningful ecological information, to assess the stability of its status on sites. | |
| Author | A. E. Stubbs. | |
| Anasimyia | A hoverfly VULNERABLE | |
| interpuncta | Order Diptera Family Syrphida | |
| gens with gamp Regition of disches also has resided in | Anasimyia interpuncta (Har synonymous with A. transfu | ris, 1776) (no longer regarded as ga). |
| Identification | Stubbs & Falk (1983), pp. 96, 97 and 191, pl. 12:8. | |
| Distribution | Greater London, and in the fens and marshes of East Anglia and the East Midlands. A total of four sites. | |
| Habitat and ecology | The larvae are of the rat-tailed maggot type, living an aquatic existence (details are unknown). The margins of ditches and ponds provide breeding sites. | |
| Status | A very little-known species. Its London site has been destroyed (by industrial infilling). It occurs on Wicken Fen and has been recorded from Woodwalton Fen, but it is scarce and its management requirements are not known. In Norfolk it has been taken on one site which is grazing marsh. | |
| | | |

Conservation Woodwalton Fen is an NNR, and Wicken Fen is a property

of the National Trust.

Author A. E. Stubbs.

Lejops vittata A hoverfly VULNERABLE

Lejops vittata (Meigen, 1822).

Identification Stubbs & Falk (1983), pp. 99 and 197, pl. 12:5.

Order Diptera

Distribution Mainly coastal: the Thames estuary (Kent and Essex), the south-eastern Channel coast (East Sussex and Kent), and in

Norfolk and Somerset.

Habitat and ecology Mainly coastal grazing marshes, associated with mildly

brackish ditches (especially those with sea club-rush Scirpus maritimus intermixed with freshwater plants). Some sites are several miles from the coast where sea club-rush survives from earlier times of more saline conditions. The larvae are unknown but are predictably of the rat-tailed

Family Syrphidae

maggot type adapted to aquatic conditions.

Status In the past it was regarded as a rarity, apart from in the

"Thames Marshes" where it was locally frequent. It is now much more localised and rare in the Thames estuary, but it has recently been found in small areas in some additional counties. At only one site, in Somerset, has it been seen in reasonable numbers, and then only along one short length

of dyke (1983, A. P. Foster).

Threats The extensive conversion of coastal grazing marshes to

intensive cereal farming has destroyed a great deal of habitat and threatens most of the known sites. Major deepening and clearance of ditches, often with pump drainage, is associated with the eutrophication of ditches from fertiliser run-off. The Thames Barrage has resulted in extensive modification of flood embankments and ditches for many miles of coast. Saline influence is likely to weaken on most remaining sites. Nearly all sites are in areas suffering

conservation problems, such as the Somerset Levels.

Conservation Present on at least two SSSIs.

Author A. E. Stubbs.

| Parhelophilus consimilis | A hoverfly | VULNERABLE |
|-----------------------------|---|--|
| entregotodii Vimiri | Order Diptera | Family Syrphidae |
| | Parhelophilus consimilis (Mal | lm, 1863). |
| Identification | Stubbs & Falk (1983), pp. 100 |) and 199. |
| Distribution | Scattered records in England Scotland. | d, South Wales and south-west |
| Habitat and ecology | The transition between bog and fen, with pools and great reedmace <i>Typha latifolia</i> , is apparently preferred. However, the habitat does not always agree with this description. The larvae are aquatic. | |
| Status | There are few records, either concerning small and vulners | |
| Conservation | Only one record applies to a nature reserve, run by the Herefordshire and Radnorshire Nature Trust. | |
| Author | A. E. Stubbs. | |
| | | |
| Eristalis | A hoverfly | VULNERABLE |
| Eristalis cryptarum | A hoverfly Order Diptera | VULNERABLE Family Syrphidae |
| | Order Diptera | Family Syrphidae |
| | Order Diptera Eristalis (Eoseristalis) crypta. | Family Syrphidae rum (F., 1794). |
| cryptarum | Order Diptera Eristalis (Eoseristalis) crypta: Stubbs & Falk (1983), pp. 97 | Family Syrphidae rum (F., 1794). |
| cryptarum Identification | Order Diptera Eristalis (Eoseristalis) crypta. Stubbs & Falk (1983), pp. 97 South-west England to the N The larvae are of the rat-tail aquatic conditions. Little is k believed that there may be | Family Syrphidae rum (F., 1794). and 194, pl. 11:8. few Forest and Gloucestershire. ed maggot type adapted to mown of the ecology but it is a preference for stream sides th marsh soil and plants such as |
| Identification Distribution | Order Diptera Eristalis (Eoseristalis) cryptal Stubbs & Falk (1983), pp. 97 South-west England to the N The larvae are of the rat-tail aquatic conditions. Little is k believed that there may be a and pond margins with a ric yellow flag Iris pseudacorus. Records are sparse and mos in a survey of east Dorset cir record. Recent surveys in th the species. There has been | Family Syrphidae rum (F., 1794). and 194, pl. 11:8. few Forest and Gloucestershire. ed maggot type adapted to mown of the ecology but it is a preference for stream sides th marsh soil and plants such as stly old. Brown & Searle (1974) ted 1938 as the last known the New Forest have not revealed a recording effort in south-west tich, though not exhaustive, has |

| Rainieria calceata | A stilt-legged fly | ENDANGERED |
|--------------------------|--|------------------------------|
| Pamily Symphian | Order Diptera | Family Micropezidae |
| | Rainieria calceata (Fallen, 1820). | |
| Identification | Collin (1945); see also Colyer | & Hammond (1968), pl. 50:5. |
| Distribution | Only known from a limited part of Windsor Forest. The population fluctuates; some years few are seen but it can be frequent on a few trees on occasion. | |
| Habitat and ecology | Forest with large, old beech trees <i>Fagus</i> . The biology is unknown, but the larvae are assumed to live in dead wood. The adults walk over the standing and fallen trunks of dead beech trees. | |
| Status | A large and rather peculiar fl attention if it had been seen e is almost certainly the only sit | elsewhere, so Windsor Forest |
| Threats | A partial age-class gap in beech trees may occur in the future, reducing the quantity of dead beech to a level which may not be viable for this species, since only a small percentage of trees seem to reach the required state. | |
| Conservation | The site is an SSSI subject to a management agreement with the Crown Estate. There is a need to clarify its life cycle and ecological requirements. | |
| Author | A. E. Stubbs, using additional information from P. J. Chandler (pers. comm.). | |
| Acrometopia wahlbergi | A silverfly | VULNERABLE |
| wanibergi | Order Diptera Family Chamaemyiid | |
| Aprison division time an | Acrometopia wahlbergi (Zette | erstedt, 1846). |
| Identification | Cogan (1978), pp. 228-229; Se | guy (1934), pp.354 and 356. |
| Distribution | Recorded from Lancashire (one site), and Anglesey and Gwynedd (four sites). The population size is not known, but it is highly localised within the available area of fen habitat. | |
| Habitat and ecology | Fens with sedges (Carex species) and a rich botanical community. The known larvae of Chamaemyiidae are predators of homopteran bugs, but there is no information on the biology of the early stages of Acrometopia. | |
| Status | This species can be frequent, but only on small areas within each fen. The single Lancashire site where it was first discovered in Britain by Sir C. H. Andrewes (Cliburn Moss) may no longer support the species, because of habitat changes associated with forestry operations. | |

Threats The drainage of fens for agriculture (Wales) or forestry planting (Lancashire) would severely modify or destroy the required habitat. Conservation The Welsh sites are all either NNRs (Cors Erddreiniog and Cors Geirch) or SSSIs (Cors Bodeilio and Cors Goch): the last is also a North Wales Naturalists' Trust reserve Author I. F. G. McLean, using additional information from A. E. Stubbs (pers. comm.). Salticella A snail-killing fly VIIINERABLE fasciata Order Diptera Family Sciomyzidae Salticella fasciata (Meigen, 1830), p.68. Identification Knutson & Lyneborg (1965), p.68. Distribution Recorded from nine coastal dunes in southern Britain. The population size is not known, but it is very restricted in distribution within the localities where it occurs. Adults may be found at any one time in areas of a few square metres only, and not nearby in apparently identical habitat. In Britain confined to coastal dunes, and recorded from Habitat and ecology fixed dune grassland at Tenby, Dyfed, by Knutson et al (1970). The larvae have been recorded feeding on living or dead snails of the family Helicidae, and pupariate externally. There are two or three generations per year. With some records over seventy years old (localities not Status recently searched), this is a species with few known current localities and it is believed to be vulnerable to any loss of habitat for the reason given below.

Threats

The erosion of dune habitat by recreational pressure, and construction or modification of golf courses and other developments affecting dunes. It is likely to be particularly vulnerable because of the highly localised nature of its colonies.

Conservation Occurs on Gibraltar Point NNR and Tenby SSSI.

Author I. F. G. McLean.

A snail-killing fly **VULNERABLE** Sciomyza drvomvzina Order Diptera Family Sciomyzidae Sciomyza dryomyzina Zetterstedt, 1846. Identification Knutson & Lyneborg (1965), p.76. Distribution Recorded from Conwy, Gwynedd (one locality), Oxfordshire (one locality), Suffolk (two localities) and Yorkshire (one locality), with only one example recorded from each locality. All records date from the 1920s except Port Meadow, Oxford, 3 June 1962 (K. G. V. Smith) and Dolgarrog Marsh, Conwy, 2 August 1969 (P. Skidmore). Marshes and water meadows. The larvae have been Habitat and ecology recorded as parasitoids of the snail Oxyloma in North America. (Oxyloma pfeifferi is a frequent species in fens and marshes in Britain but S. dryomyzina has not yet been reared here.) The adults fly in May and June and again in August. Status A rare species which must have declined owing to the drainage and agricultural improvement of its marsh and wet meadow habitats. Threats The drainage of wetlands. Conservation Port Meadow and Dolgarrog Marsh are SSSIs. I. F. G McLean. Author Centrophlebo-The Bone Skipper ENDANGERED + myia furcata Order Diptera Family Piophilidae Centrophlebomyia furcata (F., 1794). Identification McAlpine (1977), p.53. Distribution The only known sites are Porthcawl (Mid Glamorgan) and Mount Edgecumbe Park (Cornwall). Habitat and ecology The habitat preferences in Britain are unknown. The adults are attracted to large carcasses (of horses, cattle, dogs, etc), especially around wounds and the skull. Adults have been recorded in spring and autumn. The larvae develop in the bone marrow and are able to leap distances of several

Status As this species has not been recorded in Britain since 1906 there is a strong possibility that it may now be extinct.

Friedberg, 1981).

centimetres on leaving the bone tissue, as do related Piophila species (hence the English name coined by

| Threats | The more hygienic practices associated with the disposal of large carcasses in Britain have resulted in the virtual disappearance of potential breeding sites. | |
|-----------------------------|---|--------------------------|
| Author | I. F. G. McLean, using additional Dear (1975). | information from Cogan & |
| Paraclusia tigrina | Acceptation All North Property and Street Acceptation of the All North Property and All Pro | VULNERABLE |
| ugina | Order Diptera | Family Clusiidae |
| Amor average and the second | Paraclusia tigrina (Fallen, 1820). | VIII.WESABLE |
| Identification | Seguy (1934), pp.351 and 353. An attractively marked species with spotted wings, the largest member of the family. | |
| Distribution | About ten British records; scattered sites in southern England and one in South Wales. The population size is not known, but is apparently always small. | |
| Habitat and ecology | Old trees in copses, shelter belts, hedgerows or ancient parkland, more rarely within larger woods. Believed to be univoltine, the adults flying mainly in August. The life cycle is unknown but it almost certainly breeds in dead wood. The adults are usually found on the surface of dead wood on live tree trunks, mainly beech Fagus but also elm Ulmus. | |
| Status | It is noteworthy that this species has not been found in the large ancient forests noted for their dead-wood faunas. This is one of the few dead-wood Diptera known to prefer parkland or otherwise isolated large trees. | |
| Threats | By inhabiting isolated or small groups of over-mature trees, this species is very vulnerable to losing its habitat through the felling or natural death of those trees. Dutch elm disease has reduced the chances of finding breeding sites, an aspect of the wider problem of the decline of large trees in the agricultural landscape. The future will be precarious in some districts. | |
| Conservation | Occurs in three SSSIs (in only one of which are trees a reason for notification), but most sites are too small for such status. Recorded from National Trust properties in Kent and Cornwall. There is a need to consider replacement generations of trees on SSSIs. | |
| Author | A. E. Stubbs. | |

| Anthomyza bifasciata | | VULNERABLE |
|-------------------------|---|---|
| Dilasciala | Order Diptera | Family Anthomyzidae |
| | Anthomyza bifasciata Wood, 1911. | |
| Identification | Collin (1944). | |
| Distribution | Formerly only known by old specimens from Hereford & Worcester. It has been recorded recently from single sites in Oxfordshire, East Sussex and Essex, and at two coastal sites in Kent. The population is usually small, more rarely abundant in a small area. | |
| Habitat and ecology | Ditches and pondsides with the foodplant. It breeds in the seed heads of reedmace <i>Typha</i> , probably only lesser reedmace <i>T. angustifolia</i> . The adults may be swept from the seed heads. | |
| Status | Though small, the fly is ver banded wings. It does app | ry distinctive because of its lear to be genuinely rare. |
| Threats | Clearance of the foodplant, especially during mechanical ditch clearance; drainage. | |
| Conservation | Within an RSPB reserve which is also an SSSI. The best recent site will be within an SSSI extension, with an NNR under negotiation. | |
| Author | A. E. Stubbs, using additional information from Ismay (1981). | |
| Ochthera | A shore fly | ENDANGERED |
| schembrii | Order Diptera | Family Ephydridae |
| | Ochthera schembrii Ronda O. mantispa Loew. | ani, 1847, formerly known as |
| Identification | Claussen (1977), pp.516-518 | 8; Seguy (1934), p.420. |
| Distribution | Recorded from only one site in Cornwall (St Merryn) by G. C. Lamb in 1908, and not found since. The population size is not known, but is likely to be very small. | |
| Habitat and ecology | Its known habitat in Britain is the edge of a freshwater stream entering the sea over a sandy substrate, but the species may not be confined to coastal situations and could occur beside streams or ponds inland. Its larval biology is unknown. Adults were found by G. C. Lamb over sand and plants at the margin of a stream entering the sea, where they would be predators of other small insects (including related Ephydridae). | |

| Status | This species is believed to have a mainly southern European distribution and must be on the edge of its range in south-west England. The known habitat is very vulnerable to damage as a result of its limited size and distribution. One recent visit failed to locate the fly but apparently suitable habitat is still present. Recreational activities on beaches, and the modification of stream channels for any purpose. | |
|---------------------|--|---|
| Threats | | |
| Author | I. F. G. McLean. | |
| Ernoneura argus | AND SECURITY | VULNERABLE |
| | Order Diptera | Family Scathophagidae |
| | Ernoneura argus (Zetterst | redt, 1838). |
| Identification | Collin (1958), p.54. | |
| Distribution | Known from Loch Garten and Loch Einich, Speyside (Highland); Loch Etchachan, Aberdeen (Grampian); and a lochan north of Lochavat, Lewis (Western Isles). The population size is not known, but it is locally frequent where it occurs. | |
| Habitat and ecology | Adults have been recorded on stony lake shores, or 'hydroplaning' on the water surface, in June and July. The larval biology is unknown. | |
| Status | This is a rare northern element in the Scottish fauna, which on present information is highly restricted in its distribution. | |
| Threats | Loss of the shingle shore zone following any change in water level, or disturbance associated with recreational activity. | |
| Conservation | Loch Garten is an RSPB r | reserve. Loch Einich is an SSSI. |
| Author | I. F. G. McLean, using ad and E. C. M. d'A. Fonseca | ditional information from A. C. Pont a (pers. comms). |
| Parallelomma | A (Sirva first) creation pros | VULNERABLE |
| paridis | Order Diptera | Family Scathophagidae |
| | Parallelomma paridis Her Americina paridis. | ring, 1923, formerly known as |
| Identification | Collin (1958), p.40. | |
| Distribution | Known from Chapel le Dale, North Yorkshire (1921), and Woodditton Wood, Cambridgeshire (1908) (Collin, 1958). The population size is not known: only two British specimens have been recorded. | |
| | | |

| Woods where the larval foodplant occurs. The larvae mine the leaves of herb paris <i>Paris quadrifolia</i> . The adults fly in May. |
|---|
| Woodditton Wood has been converted to a conifer plantation by the Forestry Commission. The status of the site at Chapel le Dale is unknown. |
| Loss of ancient woodland where the foodplant occurs, through clearance or coniferisation. |
| Investigation of its current status is needed, preferably by searching for the leaf mines. |
| I. F. G. McLean. |
| |

| Chirosia montana | Order Diptera | ENDANGERED Family Anthomyiidae |
|---------------------|---|--------------------------------|
| ti Speyalde | Chirosia montana Pokorny, 1893. | |
| Identification | Collin (1955). | |
| Distribution | Only recorded from Perth (Tayside). | |
| Habitat and ecology | Probably open-structured woodland. Its biology is unknown, but the larvae probably live in bracken <i>Pteridium aquilinum</i> or some other fern. The adults are found in June. | |
| Status | Originally collected in 1932, but not found in recent surveys. | |
| Threats | The destruction of forests and of the foodplant. | |
| Author | A. C. Pont. | |

| Distribution | Only recorded from Fertil (Tayside). | |
|--------------------------|--|------------|
| Habitat and ecology | Probably open-structured woodland. Its biology is unknown, but the larvae probably live in bracken <i>Pteridium aquilinum</i> or some other fern. The adults are found in June. | |
| Status | Originally collected in 1932, but not found in recent surveys. | |
| Threats | The destruction of forests and of the foodplant. | |
| Author | A. C. Pont. | |
| Pseudomyopina moriens | The state of the s | VULNERABLE |
| moriens | Order Diptera Family Antho | |
| BIRAGISPANY | Pseudomyopina moriens (Zetterstedt, 1845). | |
| Identification | Hennig (1969), p.323. | |
| Distribution | Probably confined to the high peaks of the Cairngorms (Grampian), and perhaps other parts of Scotland. | |
| Habitat and ecology | Mountain tundra. Its biology and larvae are unknown. The adults are found in early July. | |
| Status | Originally collected in 1951, and may be locally frequent in high mountain tundra habitats. | |
| | | |

Threats Habitat loss, or damage from recreational activities such as ski development leading to the loss of vegetation and soil

erosion.

Conservation Occurs within the Cairngorms NNR.

Author A. C. Pont.

| Lispocephala rubricornis | | VULNERABLE |
|-----------------------------|---|---|
| ADECRES TO VIOLEN | Order Diptera | Family Muscidae |
| Borospote stern An | Lispocephala rubricornis (Zetterstedt, 1849). | |
| Identification | Fonseca (1968), p.68. | |
| Distribution | Coastal, and now restricted to a few areas of unspoiled dunes: Bettyhill, Caithness (Highland); Culbin Sands, Moray (Grampian); Aberffraw, Anglesey; Oxwich, West Glamorgan; and Braunton Burrows, Devon. | |
| Habitat and ecology | Dunes, dune slacks and dune cop water. Univoltine, the adults flying Its biology is unknown, but the lar mosses and soggy*vegetation in o | g from June to early August. rvae probably live in |
| Status | Genuinely rare and, like many other species in the coastal environment, under threat from the pressures of recreation requirements. | |
| Threats | The draining of dune slacks; recredevelopments; afforestation. | eational activities and |
| Conservation | Oxwich and Braunton Burrows are NNRs. | |
| Author | A. C. Pont. | |

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