

British Records:

Post 1970

- 17/4/98 – Crumbles, E Sussex, vc14 (TQ645020). D Hance.
11/3/97 – Crumbles, E Sussex, vc14 (TQ645020). D Hance.
6/7/92 – Upper Solway Flats & Marshes, Cumberland, vc70 (NY2257). One specimen. Dr RS Key.
30/5/92 – Kirkbride, Cumberland, vc70 (NY2256). "Quite abundant". RM Lyszkowski & M Sinclair.
22/7/91 – Fochabers, Moray, vc95 (NJ3458). R Lyszkowski.
4/7/91 – River Nethy, nr Nethy Bridge, vc95, Moray (NJ0020). "Several specimens". RM Lyszkowski & Prof JA Owen.
20/5/90 – Kirkbride, Cumberland, vc70 (NY2256). "One male". M Sinclair.
4/5/89 – Camber, E Kent, vc15 (TQ9618). Prof JA Owen
24/5/85 – Rye Harbour, E Sussex, vc14 (TQ9318). PJ Hodge.
5/6/83 – Camber Sands, E Kent, vc15 (TQ9618). PJ Hodge.
1971-1983 – Camber Sands, E Kent, vc15. PJ Hodge & Jones.
5/82 – Camber Sands, E Kent, vc15 (TQ9618). DA Porter.
10/74 – Rye, E Sussex, vc14 (TQ9120). Dr ML Luff.
1970 – Rye Harbour, E Sussex, vc14 (TQ9318). PJ Hodge.

Pre 1970

- 7/37 – Whitrigg, Cumberland, vc70 (NY2257). C Morley.
16/6/30 – Kirkbride, Cumberland, vc70 (NY2256). FH Day.
1930 – Kirkbride, Cumberland, vc70 (NY2256). Hancock Museum.
2/6/26 – Kirkbride, Cumberland, vc70 (NY2256). FH Day.
2/6/17 – Anthorn, Cumberland, vc70 (NY1958). FH Day.
6/13 – Anthorn, Cumberland, vc70 (NY1958). FH Day.
1913 – Anthorn, Cumberland, vc70 (NY1958). Rev CE Tottenham.
1848 – River Irthing, above Lanercost Abbey, Cumberland, vc70 (NY56). TJ Bold. In Day, FH (1909).

Other

- No date – There are recent records in the UK BAP Species Statement for Bridge of Avon, Colyumbidge & Inverlaidnan in E Scotland.
No date – There are 19th century records for S Hants & SE Yorks. Parry (1975).

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3.10. <i>Harpalus dimidiatus</i> (Rossi, 1790)	Status: Notable A
Priority: 2.	
Distribution: Recent records of <i>H dimidiatus</i> come from a number of southern English vice-counties, ranging from N and S Somerset in the west, through Dorset, into Berks, Surrey, Suffolk, E Sussex and E Kent. There is also an outlying record from Worcs. There are many pre 1970 records from Dorset, with another cluster of old records from around the Thames Estuary, in E Kent and S Essex. Other vice-counties with old records include S Devon and the Isle of Wight.	
Habitat and Ecology: Clearly, this is primarily a species of unimproved chalk and limestone grassland. Sites from which it is known are generally well insulated, with a south facing aspect. There may be some association between this species and areas of disturbed ground on such sites. The adult is herbivorous, feeding on plant seeds, particularly those of grasses. The larva is thought to dwell in the soil, and may be predatory. <i>H dimidiatus</i> is a spring breeder, with most records for the adult being from April to June. There are also records for August, September and October, indicating the probable emergence of the overwintering generation of adults. At Spyway Farm, the beetle has been found recently in both unimproved calcareous grassland and on former arable land that is now reverting back to calcareous grassland, and currently comprises a mosaic of tussocky tor-grass <i>Brachypodium pinnatum</i> and shorter patches of bent <i>Agrostis/fescue Festuca</i> grassland. Management at this site comprises cattle and rabbit grazing, resulting in a mosaic of vegetation structures ranging from very short rabbit grazed lawns through to patches of scrub. Former small-scale quarrying, and cattle poaching result in localised patches of bare ground. The site is owned by the National Trust who wish to perpetuate the existing management regime, in order to maintain the current mosaic of vegetation structures, and to permit the continued reversion of former arable land to calcareous grassland. At Mount Caburn, the single specimen recorded in 1994 was pitfall trapped in established chalk grassland conforming to the NVC CG2b type (Danahar & Stewart, 1995).	
Range: On the continent, this is primarily a species of southern Europe, found at least as far east as Turkey and the Black Sea..	
Management Requirements: Unknown.	
References:	
Danahar, GW & Stewart AJA (1995). A recent record of <i>Harpalus dimidiatus</i> (Rossi) (Carabidae) from Sussex. <i>Coleopterist</i> 4: (2). 56.	
Actions in UK BAP:	
5.1 Monitoring only. The requirements of the species should be considered in the delivery of the action plans for lowland calcareous grassland and maritime cliffs and slopes.	
Future action: This species appears to be relatively stable and requires no further action currently. <ul style="list-style-type: none"> • Feed habitat requirements of this species into lowland calcareous grassland and maritime cliffs and slopes HAPs. 	

British Records:

Post 1970

- 12/9/99 – Cleeve Hill, S Somerset, vc5 (ST058428). 1 running around on bare ground, limestone grassland. DC Boyce.
19/5/95 – Spyway Farm, Dorset, vc9 (SY987770/987767). Coastal limestone grassland. KNA Alexander.
24/5-7/6/94 – Mt Caburn NNR, E Sussex, vc14 (TQ444088). Pitfall trap, chalk grassland. GW Danahar & AJA Stewart.
5/91 – Isle of Portland, Dorset, vc9 ((SY676683). J Cooter.
11/10/87 – Haysden (TQ5645). L Clemons.
25/6/86 – Cross Plains, N Somerset, vc6 (ST4155). Running in sunshine on open footpath. AP Foster.
16/6/86 – Ramparts Field, W Suffolk, vc26 (TL7871). Breck grassland. AP Foster, Det ML Luff.
1986 – Mendip Hills, N Somerset, vc6 (ST65). ML Luff.
14/5/83 – Birlingham, Worcs, vc37 (SO9343). PF Whitehead.
1981 – Windsor, Berks, vc22 (SU97). AP Foster.
5/79 – Swanage, Dorset, vc9 (SZ07). AJW Allen.
1978 – S Dorset Coast SSSI, Dorset, vc9 (SY9079). Prof JA Owen.
5/70 – Mole Gap-Reigate Escarpment SSSI, Surrey, vc17 (TQ1852). RO Clarke.

Pre 1970

- 19/8/65 – The Swale SSSI, E Kent, vc15 (TQ9265). L Clemons.
20/4/62 – Chesil & the Fleet SSSI, Dorset, vc9 (SY6081). PJH Greenslade.
1960 – Chesil & the Fleet SSSI, Dorset, vc9 (SY6081). PJH Greenslade.
4/58 – S Dorset Coast SSSI, Dorset, vc9 (SZ0377). J Cooter.
4/54 – Walton Hill, N Somerset, vc6 (ST4539). WA Wilson.
1953 – Benfleet, S Essex, vc18 (TQ78). PM Hammond.
1953 – Benfleet & Hadleigh Marshes SSSI, S Essex, vc18 (TQ8185). AA Allen.
1952 – S Dorset Coast SSSI, Dorset, vc9 (SY9776). LS Whicher.
1952 – Isle of Portland, Dorset, vc9 (SY6972). LS Whicher.
1952 – Swanage, Dorset, vc9 (SZ07). LS Whicher.
1950 – Ventnor, Isle of Wight, vc10 (SZ5677). LS Whicher.
1939 – Windsor, Berks, vc22 (SU97).
1930 – Isle of Sheppey, E Kent, vc15 (TQ96).
1927 – Camber, E Kent, vc15 (TQ9618). Rev CE Tottenham.
1926 – S Dorset Coast SSSI, Dorset, vc9 (SY7681). Dorset Natural History & Archaeological Society.
1926 – Abbotsbury Castle, Dorset, vc9 (SY58). Dorset Natural History & Archaeological Society.
1926 – Weymouth, Dorset, vc9 (SY67). Dorset Natural History & Archaeological Society.
1926 – West Lulworth, Dorset, vc9 (SY8280). Dorset Natural History & Archaeological Society.
1925 – Isle of Portland, Dorset, vc9 (SY6972). Bucks County Museum.
1923 – Brighton (TQ308075). L Christie.
1920 – Niton-Ventnor Undercliff, Isle of Wight, vc10 (SZ5076). Hull University Zool Dept.
1919 – Niton-Ventnor Undercliff, Isle of Wight, vc10 (SZ5076). Rev CE Tottenham.
1918 – Swanage, Dorset, vc9 (SZ07). Newcastle University Zool Dept Colln.
1910 – Seaton, S Devon, vc3 (SY2489). Sir E Ansorge.
1910 – Seaton, S Devon, vc3 (SY2489). Bucks County Museum.
1903 – Isle of Portland, Dorset, vc9 (SY6972). Sir E Ansorge.
1901 – St Leonards E Sussex, vc14 (TQ80).

1894 – Sheerness, E Kent, vc15 (TQ97). Newcastle University Zool Dept Colln.

Other

No date – Studland, Dorset, vc9 (SZ0382).

No date – Isle of Portland, Dorset, vc9 (SY6972). L Frewin.

Luff (1998) has a post 1970 record from TQ96 (area of the Swale), not listed in the ITE printout.

25/7/86 – Cross Plains, N Somerset, vc6 (ST396563). AP Foster. In BENHS Annual Exhibition, 1985. Proc. Trans. Br Ent. Nat. Hist. Soc. 20: (2) 63. This record is incorrect, both in regard to date and grid ref. Correct record is given above (25/6/86) (AP Foster pers comm).

<p>3.11. <i>Ophonus cordatus</i> (Duftschmid, 1812).</p>	<p>Status: RDB3.</p>
<p>Priority: 2.</p>	
<p>Distribution: There are recent records from just four vice counties: Isle of Wight, S Hants, E Sussex and E Kent. In the past, the species was somewhat more widely recorded along the south coast of England, with records from Dorset and S Devon.</p>	
<p>Habitat and Ecology: <i>O cordatus</i> occurs on both sand dunes and calcareous grasslands. In all cases, sites are near the coast, and this is clearly one of our most thermophilous carabids, its British distribution having always been restricted to the coastal fringe of southern England. Both adults and larvae are thought to be herbivorous, feeding largely on seeds. It is thought to be a summer/autumn breeding species, though adults have been found in April and May, as well as July, August and September. Larvae are unknown.</p>	
<p>Range: This is a species of central and southern Europe that extends eastwards to Asia.</p>	
<p>Management Requirements: Unknown.</p>	
<p>References:</p>	
<p>Actions in UK BAP:</p>	
<p>5.1 Monitoring only. The requirements of the species should be considered in the delivery of the action plans for the click beetle <i>Melanotus punctolineatus</i>, the spider-hunting wasp <i>Evagetes pectinipes</i>, the fiery clearwing <i>Bembecia chrysidiformis</i>, coastal sand dunes and lowland calcareous grassland.</p>	
<p>Future action: This is a "cryptic" species, and it is unclear whether further conservation action is currently justified.</p> <ul style="list-style-type: none"> • Feed habitat requirements of this species into coastal sand dunes and lowland calcareous grassland HAPs. 	

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British Records:

Post 1970

- 30/8/89 – Seaford-Beachy Head SSSI, E Sussex, vc14 (TV5895).
7/5/88 – Bembridge Down SSSI, Red Cliff, Isle of Wight, vc10 (SZ6385). H Mendel.
10/5/87 – Sandwich & Hacklinge SSSI, E Kent, vc15 (TR3560). PJ Hodge.
11/9/83 – Portsdown, S Hants, vc11 (SU6306). DM Appleton.
1971-1981 – Wilmington Downs, E Sussex, vc14 (TQ5402). PJ Hodge.
15/4/73 – Wilmington Downs, E Sussex, vc14 (TQ5403). PJ Hodge.
22/7/72 – Wilmington Downs, E Sussex, vc14 (TQ5403). PJ Hodge.
5/70 – Deal-Sandwich, E Kent, vc15 (TR35). RO Clarke.
1970 – Sandwich & Hacklinge SSSI, E Kent, vc15 (TR3560). Maidstone Local Records Centre.

Pre 1970

- 1965 – Deal-Sandwich, E Kent, vc15 (TR35). E Philp.
1963 – Seaton, S Devon, vc3 (SY2489). L Frewin.
1953 – Isle of Portland, Dorset, vc9 (SY676683). L Frewin.
1953 – West Bexington, Dorset, vc 9 (Sy5386). L Frewin.
1955 – Sandwich & Hacklinge SSSI, E Kent, vc15 (TR3560). Maidstone Local Records Centre.
1935 – Sandwich, E Kent, vc15 (TR35). L Christie.
1938 – Brighton (TQ308075). L Christie
1929 – Isle of Portland, Dorset, vc9. Dr RG Booth. This must be wrong!
1929 – Deal, E Kent, vc15 (TR35).
1925 – Deal, E Kent, vc15 (TR35). Rev CE Tottenham.
1923 – Folkestone (TR2135). Hancock Museum.
1920 – Camber, E Kent, vc15 (TQ9618). Rev CE Tottenham.
1920 – Deal, E Kent, vc15 (TR35).
1899 – Camber, E Kent, vc15 (TQ9618).
1899 – Deal sandhills, E Kent, vc15 (TR35).

Other

- No date – Sandown, Isle of Wight, vc10 (SZ5984). Manhall.

Species: <i>Ophonus parallelus</i> Dejean, 1829.	Status: RDB3.
Priority: 2.	
Distribution: The British stronghold of this species appears to be on the coast of E Sussex and E Kent, where it has recently been found at Beachy Head and Rye Harbour in the former vice county, and around Folkestone in the latter. The only other recent record is from the Isle of Wight. The recent Oxon and Northants records are known to be erroneous identifications of the black, unmetallic form of <i>O azureus</i> (form <i>similis</i> Dejean). The possibility of confusing this form with <i>Ophonus parallelus</i> is acknowledged by Lindroth (1974). The Oxon record is cited in Whitton & Campbell (1991). The Northants(SP09) record is included in both the UK BAP Species Statement, and in Luff (1998), despite being clearly identified in the BAP printout as an erroneous identification.	
Habitat and Ecology: This beetle is a thermophilous inhabitant of chalk and limestone grassland, usually where the turf is very short, and where there are substantial areas of bare ground. Both adults and larvae are seed feeders. The few precisely dated records of this elusive insect relate to captures in July, August and September, though Hyman & Parsons (1992) also mention June. Luff (1998) states that <i>O parallelus</i> is a spring breeder, though the captures suggest that summer breeding is a possibility.	
Range: The European range of <i>O parallelus</i> is currently poorly understood, owing to the taxonomic confusion existing between this and other closely related species of the genus. It is unknown in Fennoscandia, and seems to range as far south as Italy.	
Management Requirements:	
<p>References:</p> <p>Hyman, PS & Parsons, MS. A review of the scarce and threatened Coleoptera of Great Britain. UK Nature Conservation No3, Part 1. JNCC, Peterborough.</p> <p>Lindroth, CH (1974). Handbooks for the Identification of British Insects. Coleoptera. Carabidae. 4: (2). Royal Entomological Society, London.</p> <p>Luff, ML (1998). Provisional atlas of the ground beetles (Coleoptera, Carabidae) of Britain. Centre for Ecology and Hydrology, Monks Wood.</p> <p>Whitton, P & Campbell, JM (1991). An Atlas of Oxfordshire Coleoptera Carabidae. Oxfordshire Museums, Woodstock.</p>	
<p>Actions in UK BAP:</p> <p>5.1 Monitoring only. The requirements of the species should be considered in the delivery of the action plans for the click beetle <i>Melanotus punctolineatus</i>, the spider-hunting wasp <i>Evagetes pectinipes</i> and the fiery clearwing <i>Bembecia chrysidiformis</i>, coastal sand dunes and lowland calcareous grassland.</p>	
<p>Future action: This is a "cryptic" species, and it is unclear whether further conservation action is currently justified.</p> <ul style="list-style-type: none"> • Feed habitat requirements of this species into coastal sand dunes and lowland calcareous grassland HAPs. 	

British Records:

Post 1970

- 30/8/89 – Seaford-Beachy Head SSSI, E Sussex, vc14 (TV5995). PJ Hodge.
1980-1989 – SP44-26-, Oxon, vc23. There is a recent record from this tetrad in Whitton & Campbell (1991). This record is not included in Luff (1998). Strangely, it is also not mentioned in either the UK BAP Species Statement or in Hyman & Parson (1992). Checked with P Whitton, who confirmed that this was an erroneous ID of *O azureus* precipitately included in the Oxon atlas by John Campbell.
1986 – Folkestone Warren SSSI, E Kent, vc15 (TR2335). Maidstone Local Records Centre.
1985 – Great Morton Sale & Quarry, Northants, vc32 (TL040974). Dr RS Key. "Incorrect det of *H azureus*". "Records which are known to be incorrect" (BRC).
27/9/83 – Ventnor, Isle of Wight, vc10 (SZ5577). DM Appleton.
1982 – Ruxley Gravel Pits. AP Foster.
1982 – Folkestone, E Kent, vc15 (TR2135). JA Parry.
1981 – Folkestone-Etchinghill Escarpment SSSI. Maidstone Local Records Centre.
1979 – Ruxley Gravel Pits. MJ Davies, "record which requires confirmation" (BRC).
9/78 – Ruxley Gravel Pits. Sweeping herbage. KC Side. Kent Trust for Nature Conservation.
1977 – Rye Harbour, E Sussex, vc14 (TQ9318). JA Parry.
1971 – Folkestone, E Kent, vc15 (TR2135). E Philp.

Pre 1970

- 1960 – Nr Oxford, Oxon, vc23, (SP50). JM Campbell.
7/54 – High Halstow NNR. A Gould & AA Allen. In Sokoloff PA (ed) et al.
1954 – Orpington (TQ4565).
1946 – Near Brighton (TQ30). L Christie.
5/7/38 – Oxford district, Oxon, vc23. Hope Colln.
1930 – Isle of Sheppey, E Kent, vc15 (TQ96).
16/7/04 – Tubney, Oxon, vc23 (SU49). Hope Colln.
24/8/02 – Shotover, Oxon, vc23 (SP50). Hope Colln

Other

- No date – Orford Ness. Rev TB Kitchen. In Nash, DR (1978).
Hyman & Parsons mention pre-1970 records from Dorset, S Hants, E Norfolk & Beds. These records are not included on the BRC printout.

<p>Species: <i>Ophonus punctatulus</i> (Duftschmid, 1812)</p>	<p>Status: Notable A</p>
<p>Priority: 2.</p>	
<p>Distribution: This beetle formerly had a wide but scattered distribution across southern England. However, recent records are very few, and come from West Norfolk, East Suffolk, Northants, Oxon and S Hants.</p>	
<p>Habitat and Ecology: This species inhabits a range of habitats on dry calcareous or sandy substrata. On some sites, there appears to be a requirement for areas of scrubby vegetation. Sites generally exhibit a degree of disturbance, and it is likely that the presence of areas of bare sandy or chalky ground are critical to the development of the beetle. Recent areas from which it has been found include arable field margins, sparsely vegetated sandy banks in a disused sand pit and an in scrubby limestone grassland in an abandoned quarry. It is thought to be a spring breeder, though most records of the adult are from August and September which suggests it may breed in the autumn.</p> <p>The recent site at Stanton Harcourt, Oxon is an actively worked sand and gravel quarry. The area in which <i>O punctatulus</i> formerly occurred has since been levelled and filled with rubbish. The 1956 site in a quarry in Northants, reported by Henson (1997), has also been filled in, and is now pasture land.</p>	
<p>Range: <i>O punctatulus</i> is widely distributed across central and southern Europe.</p>	
<p>Management Requirements: Unknown.</p>	
<p>References:</p> <p>Henson, HE (1997). <i>Harpalus obscurus</i> (Fabricius) (Carabidae) – more Northamptonshire records. <i>Coleopterist</i> 5: (3) 81.</p>	
<p>Actions in UK BAP:</p> <p>5.1 Monitoring only. The requirements of the species should be taken into account in the delivery of the action plan for lowland calcareous grassland</p>	
<p>Future action: This species seems to be relatively stable currently, and there are a number of recent records of it. This is a “cryptic” species, and it is unclear whether further conservation action is currently justified.</p> <ul style="list-style-type: none"> • Feed habitat requirements of this species into lowland calcareous grassland HAPs. 	

British Records:

Post 1970

2/8/88 – Stanton Harcourt, Oxon, vc23 (SP4004). Two specimens, south facing side of sandy mound. P Whitton.

1986 – Roydon Common, W Norfolk, vc28 (TF62). Dr P Kirby.

3/8/85 – Roydon Common, W Norfolk, vc28 (TF6922). Dr P Kirby & S Lambert. From Annual Exhibition, 1986. Proc. Trans. Br. Ent. Nat. Hist. Soc. 20: (2) 65.

1982 – S Hants, vc11. Dr ML Luff.

Pre 1970

1969 – Weston-super-Mare, N Somerset, vc6 (ST36). DH Murray.

9/9/56 – Old limestone quarry nr Wansford, Northants, vc32 (TL062992). HE Henson & JW Turner.

1952 – Bookham Common (TQ1356). AM Easton (1952).

1951 – Clacton-on-Sea, N Essex, vc19 (TM11). PM Hammond.

1950 – Bagley Wood, Oxon, vc23 (SP5102). P Whitton.

1946 – Mickleham, Surrey, vc17 (TQ1753).

1945 – Sharnbrook (SP9959).

1944 – Gog Magog Hills, Cambs, vc29 (TL4953). Rev CE Tottenham.

1938 – Wicken Fen NNR, Cambs, vc29 (TL555700). In Donisthorpe, H St J K (1938).

8/28 – Ayot Greenway (TL216146). BS Williams.

1928 – Wicken Fen NNR, Cambs, vc29 (TL555700).

1921 – Kingston on Soar (SK5027).

1921 – Burton Joyce (SK6143).

1921 – Langford Moor (SK8555).

1920 – Ovingdean-Stanmer (TQ30).

1906 – Newquay area, W Cornwall, vc1 (SW86).

1885 – Little Solsbury, N Somerset, vc6 (ST76)

1882 – Reigate (TQ2649). Rev CE Tottenham.

Other

No date – Near Swansea, Glams, vc41 (SS69).

No date – Colchester, N Essex, vc19 (TM0024). PM Hammond.

No date – Rye, E Sussex, vc14 (TQ9120). Hancock Museum.

No date – Deal, E Kent, vc15 (TR35). T Smith.

No date – South Croydon. L Christie.

No date – Collyweston quarry, Northants, vc32. A recent record from BC Eversham (pers comm.).

“Old record” – Tubney, Oxon, vc23 (SU49/SP40). In Whitton & Campbell (1991).

“Old record” – Wychwood, Oxon, vc23 (SP31). In Whitton & Campbell (1991).

“Old record” – Cothill, Oxon, vc23 (SU4599). In Whitton & Campbell (1991).

TM14 - There is a recent record for *O puctatulus* from E Suffolk, vc25 in Luff (1998), also mentioned in the UK BAP Species Statement. I believe this record refers to an ADAS study of arable field margins in the Breck (M Telfer pers comm.).

Species <i>Pterostichus aterrimus</i>	Status: RDB1
Priority: 3.	
<p>Distribution: The most recent English records of <i>P aterrimus</i> are from two areas of valley bog in the New Forest, where the species was recorded on a number of occasions between 1966 and 1973. The only other 20th century records were from fenland in the Ant valley in E Norfolk, where the species was recorded in 1910. In the 19th century, the beetle was well known from Whittlesea Mere and Wicken Fen in the fenland of Hunts and Cambs. There have been no records of the beetle in England since 1973, though it is still known from twelve sites in Ireland (Anderson, 2000).</p>	
<p>Habitat and Ecology: This species is a spring breeder, with English records being from May, June and September. Little is known of its ecology in Britain, but in northern Ireland, it is a very hygrophilous inhabitant of poor fen habitats. Both adults and larvae are predators of other wetland invertebrates.</p> <p>In 1969, an attempt was made to drain the area in the New Forest from which the beetle was known. Given the species requirement for extremely wet conditions, this probably explains its subsequent disappearance from this site.</p>	
<p>Range: Considered by Anderson (2000) to be a Eurosiberian Boreo-temperate species, local in western Europe, but more widespread in the east as far as western Siberia. There is an outlying population in the Atlas Mts of North Africa.</p>	
<p>Management Requirements: Unknown.</p>	
<p>References:</p> <p>Anderson, R, Mc Ferran, D & Cameron, A (2000). The Ground Beetles of Northern Ireland (Coleoptera-Carabidae). Atlases of the Northern Ireland Flora & Fauna Vol 1. Ulster Museum, Belfast.</p>	
<p>Actions in UK BAP:</p> <p>5.1.1 Address the requirements of the species in the LEAP process and in relevant WLMPs.</p> <p>5.1.2 Where appropriate take account of the species' requirements in response to applications for water abstraction licences.</p> <p>5.2.1 Where possible, ensure that all occupied habitat is appropriately managed by 2008, for example through site management agreements.</p> <p>5.2.2 Ensure that the habitat requirements of <i>Pterostichus aterrimus</i> are taken into account in any relevant development policies, plans and proposals.</p> <p>5.2.3 Ensure that the species is included in site management documents for all relevant SSSIs/ASSIs.</p> <p>5.2.4 Consider notifying as SSSI/ASSI any newly discovered sites holding viable populations of the species, where this is necessary to secure long term protection and appropriate management.</p> <p>5.3.1 Reintroduce <i>Pterostichus aterrimus</i> to a series of sites within the former range to establish two new viable populations.</p>	

- 5.4.1 Advise landowners and managers of the presence of the species, and the importance of beneficial management for its conservation.
- 5.5.1 Undertake surveys to determine the status of the species.
- 5.5.2 Conduct targeted autecological research to inform habitat management.
- 5.5.3 Establish a regular monitoring programme for this species.
- 5.5.4 Pass information gathered during survey and monitoring of this species to a central database for incorporation into national and international databases.

Future action: This beetle is currently not known from any English sites, and may be extinct. No further action is required until an English population is re-discovered.

British Records:

Post 1970

1973 – Denny Bog, New Forest, S Hants, vc11 (SU3406). In Shirt, DB (ed) (1987).

5/70 – Matley Bog, New Forest, S Hants, vc11 (SU3307). RO Clarke.

1970 – Denny Wood, New Forest, S Hants, vc11 (SU3305). DM Appleton.

Pre 1970

14/9/69 – Denny Bog, New Forest, S Hants, vc11 (SU3406). DM Appleton.

2/6/69 – Denny Bog, New Forest, S Hants, vc11 (SU3406). DM Appleton.

6/69 – New Forest, S Hants, vc11 (SU30). Prof JA Owen.

1969 – New Forest, S Hants, vc11 (SU3305). J Cooter.

1966 – New Forest, S Hants, vc11 (SU30). SA Williams.

1910 – Ant Broads & Marshes SSSI, vc27, E Norfolk. In Appleton, DA (1970).

1910 – Stalham, E Norfolk, vc27 (TG3725). TH Hudson-Bear.

Other

No date – Whittlesea Mere. In Marr, JE & Shipley, AE (1904).

No date – Whittlesea Mere. In Omer-Cooper, J (1926).

No date – Wicken Fen, Cambs, vc29. Old records mentioned on Wicken website.

Species <i>Tachys micros</i> (Fischer von Waldheim, 1828)	Status Notable A
Priority 2.	
Distribution <i>T micros</i> is restricted to a few coastal sites in Dorset and E Sussex, with an outlying Welsh colony on the Llyn peninsula, Caerns. There are pre 1970 records from Dorset, E Sussex and S Hants.	
Habitat and Ecology This is an extremely stenotopic species that is currently only known to occur on south-facing soft rock cliffs. It shares very similar habitat requirements to another BAP priority carabid, the tiger beetle <i>Cicindela germanica</i> .	
Range This is a south European species that is also known from north Africa.	
Management Requirements Unknown	
References	
Actions in UK BAP	
5.1 Monitoring only. The requirements of the species should be taken into account in the delivery of the action plan for maritime cliff and slope.	
Future action: This species appears to be stable within its very limited habitat and geographical range, and requires no further action currently.	
<ul style="list-style-type: none"> • Feed habitat requirements of this species into maritime cliffs and slopes HAP. 	

British Records

Post 1970

Pre 1970

Other

4. Project co-ordination and dissemination of results

A considerable amount of time has been devoted to the co-ordination of the Project, and into the dissemination of its results. This section summarises the main areas of work undertaken by the contractor in this respect during 2001-2002.

4.1 Co-ordination of the Scarce Ground Beetle Project

A large amount of work has been undertaken in servicing the various contractors carrying out work for the Project, and in most cases, the contractor has had meetings with them in order to discuss the direction of the fieldwork during the course of the Project. In addition, the contractor has had dealings with a very large number of other entomologists and members of the nature conservation community in order to discuss the Project, and in particular to suggest sympathetic management for BAP Carabids.

In addition to co-ordinating the day-to-day work of the Project, the contractor was asked by the Nominated Officer to prepare a document suggesting other ground beetles that might be priorities for funding. This document is included below.

4.2 Scarce Ground Beetle Project Newsletter

The contractor has prepared and distributed two issues of a Scarce Ground Beetle Project Newsletter. The first issue was produced in May 2001, and the second in October 2002. It was targeted at both the professional audience and at amateurs. It has been very successful in raising awareness of the Project, with in excess of 400 copies having already been circulated. It is hoped that the Newsletter will play a key role in stimulating interest in ground beetles and their conservation.

4.3 Talks/Exhibitions

The contractor has given a number of talks on the work of the Project, including one on the Blue Ground Beetle and its conservation to the British Entomological and Natural History Society, plus a general talk on ground beetles to the Amateur Entomologist's Society at their Annual General Meeting, and one on ground beetles of lowland heaths to the RSPB's Lowland Heathland Conference at Bournemouth University on 17 September 2001. The text of the latter talk has been included in the Conference proceedings of this event and is included at Appendix 2 below. This latter talk was particularly successful in raising awareness of the Project, and with many of the audience being Site Managers. An exhibition on the work of the Project was shown at the BENHS Annual Exhibition in October 2002.