

**INVERTEBRATE SITE REGISTER
MASTER FORM**

Site number

70/11

Name(s)

BIG WATERS

County(s)

Tyne and Wear

Grid. Ref.

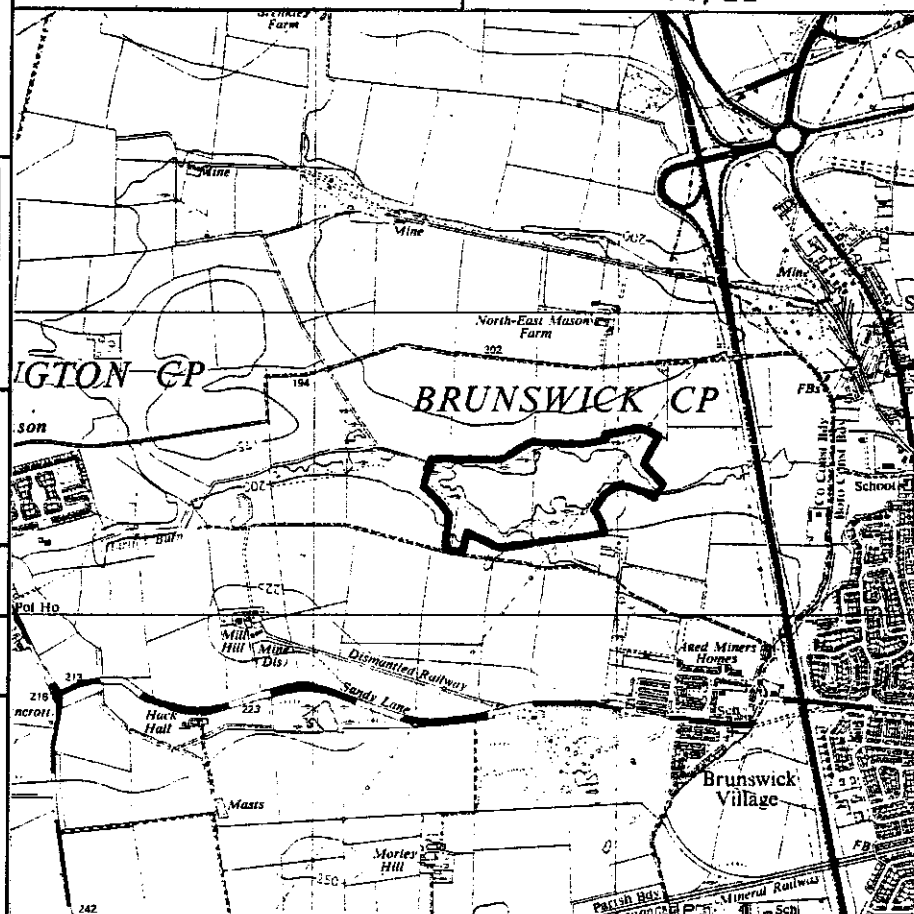
NZ2273

Grade

C

Status

**SSSI
County trust reserve**



Site description - Habitat

Seaton Burn, much widened by mining subsidence, has caused a large pond to form. Fringed by Typha and Glyceria with an extensive reedbed on northern side. Mostly reclaimed, amenity grassland recently planted with trees.

Invertebrate Interest - Coverage

Aquatic fauna and dragonflies have been examined and includes the notable whirligig beetle Gyrinus caspius. Moth trapping started in 1985 but little of note has been found.

Comments - Conservation

Managed as a country park - very popular. The reedbeds are potentially of interest for wetland species.

Red Data Book and Notable species recorded for BIG WATERS

Notable/Nb

Gyraulus laevis	MOL:Planorbidae	1981	Adams & Robbins(1981)
Coenagrion pulchellum	ODD:Coenagriidae	1985	Spencer, D
Gyrinus caspius	COL:Gyrinidae	1981	Eyre, M D
Hygrotus quinquelineatus	COL:Dytiscidae	1960	Eyre et al (1985)

Nr

Laccobius minutus (L)	COL:Hydrophilidae	1981	Eyre, M D
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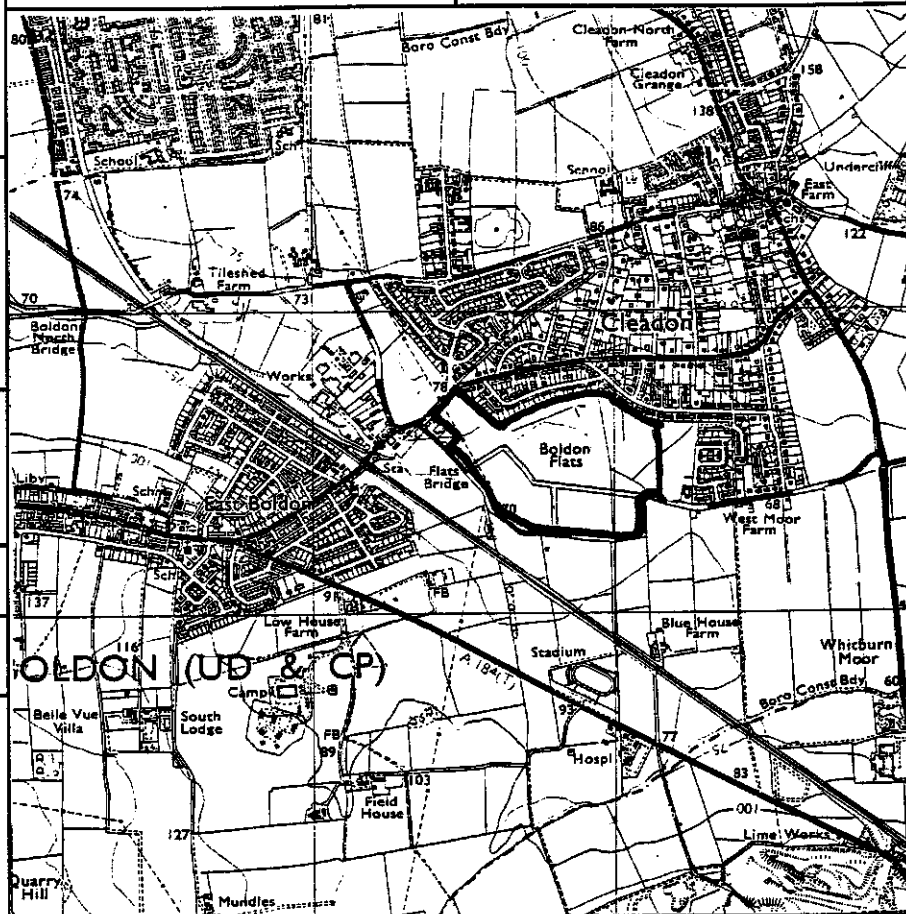
Local

Nepa cinerea Water Scorpion	HEM:Nepidae	1981	Eyre, M D
Stictotarsus duodecimpustulatus	COL:Dytiscidae	1981	Eyre, M D
Erynnis tages 1532,Dingy Skipper	LEP:Hesperiidae	1984	Ball, Dr S G

8 species listed

Invertebrate Index = 180

**INVERTEBRATE SITE REGISTER
MASTER FORM**



Name(s)

BOLDON FLATS

County(s)

Tyne and Wear

Grid. Ref.

NZ3761

Grade

C

Status

Private owner

Site description - Habitat

Historically a grazing marsh, but in recent times extensively drained and only occasionally flooded for short periods. Never the less considerable interest remains in some of the ditches and locally in the damp, herb rich, unimproved pasture.

Invertebrate Interest - Coverage

Historically this was by far the best water beetle site in the area and some of the undreged ditches retain considerable interest with the nationally rare Agabus uliginosus being abundant on the site. The ground beetles Pterostichus vernalis and Agonum obscurum are also present in the fields and indicate undisturbed, moist conditions.

Comments - Conservation

The relict aquatic fauna may be threatened by over-enthusiastic tidying up of the ditches although a balance must be struck between too much dredging and no dredging. Over all the site would benefit from being much wetter and plans by South Tyneside Council to flood parts of the site, primarily to benefit the ornithological interest, should be encouraged.

Red Data Book and Notable species recorded for BOLDON FLATS

RDB2

Hydroporus rufifrons COL:Dytiscidae -1950 Eyre et al (1985)

RDB3

Hydrochus elongatus COL:Hydrophilidae 1845-1860 Bold, T J

pRDB3

Lymnaea glabra NOL:Limnaeidae 1936 Lowe, Mr R H

Na

Agabus uliginosus COL:Dytiscidae 1985 Eyre, M D

Notable/Nb

Clausilia dubia NOL:Clausiliidae 1933 Lowe, Mr R H
Agabus labiatus COL:Dytiscidae 1845-1860 Bold, T J
Agabus unguicularis COL:Dytiscidae 1845-1860 Bold, T J
Bembidion geniculatum COL:Carabidae 1983 Reid, C
Cercyon lugubris COL:Hydrophilidae 1970- Eyre, M D
Cercyon tristis COL:Hydrophilidae 1970- Eyre, M D
Graptodytes granularis COL:Dytiscidae 1845-1860 Bold, T J
Phyllotreta flexuosa COL:Chrysomelidae 1983 Reid, C
Pterostichus cristatus COL:Carabidae 1985 Eyre, M D
Rhantus suturalis (Gyllenhal) COL:Dytiscidae 1845-1860 Bold, T J
Stictometes lepidus COL:Dytiscidae 1845-1860 Bold, T J
Dolichopus nitidus DIP:Dolichopodidae 1952 Davies, Dr Lewis
Empis opaca DIP:Empididae 1953 Davies, Dr Lewis
Teuchophorus spinigerellus DIP:Dolichopodidae 1952 Davies, Dr Lewis
 Habitat indicator of Reedbed, Fen, Carr or grazing marsh

Nr

Acilius sulcatus (L) COL:Dytiscidae 1845-1860 Bold, T J
Bembidion genei Kuster COL:Carabidae 1986 Eyre, M D
Brychius elevatus (Panzer) COL:Halplidae 1845-1860 Bold, T J
Dytiscus semisulcatus Muller COL:Dytiscidae 1845-1860 Bold, T J
Graptodytes pictus (F) COL:Dytiscidae 1929 Omer-Cooper (1931)
Gyrinus marinus Gyllenhal COL:Gyrinidae 1845-1860 Bold, T J
Halplus confinis Stephens COL:Halplidae 1845-1860 Bold, T J
Hyphydrus ovatus (L) COL:Dytiscidae 1845-1860 Bold, T J
Ilybius quadriguttatus (L & B) COL:Dytiscidae 1845-1860 Bold, T J
Porhydrus lineatus (F) COL:Dytiscidae 1845-1860 Bold, T J
Pterostichus vernalis (Panzer) COL:Carabidae 1985 Eyre, M D

Local

Anadonta cygnea NOL:Unionidae 1935 Lowe, Mr R H
 Swan Mussel
Pisidium obtusale NOL:Pisidiidae 1931 Lowe, Mr R H

BOLDON FLATS (Continued)

<i>Agabus affinis</i> (Paykull)	COL:Dytiscidae	1845-1860	Bold, T J
<i>Agabus didymus</i> (Oliver)	COL:Dytiscidae	1985	Eyre, M D
<i>Agonum obscurum</i> (Herbst)	COL:Carabidae	1983	Reid, C
<i>Dromius melanocephalus</i> Dejean	COL:Carabidae	1983	Reid, C
<i>Haliphus fluviatilis</i> Aube	COL:Haliplidae	1985	Eyre, M D
<i>Haliphus fulvus</i> (F)	COL:Haliplidae	1845-1860	Bold, T J
<i>Haliphus obliquus</i> (F)	COL:Haliplidae	1845-1860	Bold, T J
<i>Hydraena riparia</i> Kugelann	COL:Hydraenidae	1845-1860	Bold, T J
<i>Laccophilus minutus</i> (L)	COL:Dytiscidae	1845-1860	Bold, T J
<i>Ochthebius dilitatus</i> Stephens	COL:Hydraenidae	1985	Eyre, M D
<i>Ochthebius minimus</i> (F)	COL:Hydraenidae	1845-1860	Bold, T J
<i>Potamonectes assimilis</i> (Paykull)	COL:Dytiscidae	1845-1860	Bold, T J
<i>Stictotarsus duodecimpustulatus</i>	COL:Dytiscidae	1985	Eyre, M D

44 species listed

Invertebrate Index = 410

Insects of Boldon Flats, County Durham - a preliminary report

Systematic insect recording in the north-east of England started in the 1840's with work by James Hardy and Thomas John Bold, both extremely competent entomologists. They mainly recorded Coleoptera (beetles) and one of the sites covered by Bold was Boldon Flats. Consequently this area is historically one of the best recorded areas in north-east England. The considerable number of beetle species recorded from the Flats gives an insight into the type of habitats extant between 1840 and 1860.

The most interesting records from the Flats are those for aquatic Coleoptera and those other beetles associated with wet pasture and marshes. A number of the aquatic Coleoptera recorded from the Flats are either nationally or locally rare, presumably due to a reduction in the preferred habitats due to drainage. There are now few areas of wet lowland in the north-east of England which have been so for any length of time. Agabus uliginosus (L.) and Hydroporus rufifrons (Duft.), which were found on the Flats by Bold (1849, 1856), are now nationally rare water beetle species whilst the records for Graptodytes granularis (L.) and Hydrochus elongatus (Schaller) (Bold, 1850) are the only ones for the north-east of England. Agabus labiatus (Brahm), recorded from the Flats by Hardy & Bold (1852), has not been found since and there are only a few other records from the area for Rhantus suturalis (Macleay), Porhydrus lineatus (F.) and Ilybius quadricuttatus L. & B. (Hardy & Bold, 1850; Bold, 1867). The record for Agabus affinis (Paykull) (Hardy & Bold, 1852) is interesting since this is a Sphagnum inhabiting species, indicating the presence of this habitat on the Flats. Wet pasture ground beetles have also been recorded, e.g. Agonum moestum (Duft.) and Pterostichus vernalis (Panzer) (Hardy & Bold, 1850) whilst the record for Agonum obscurum (Herbst) (Bold, 1844) indicates the presence of more marshy areas.

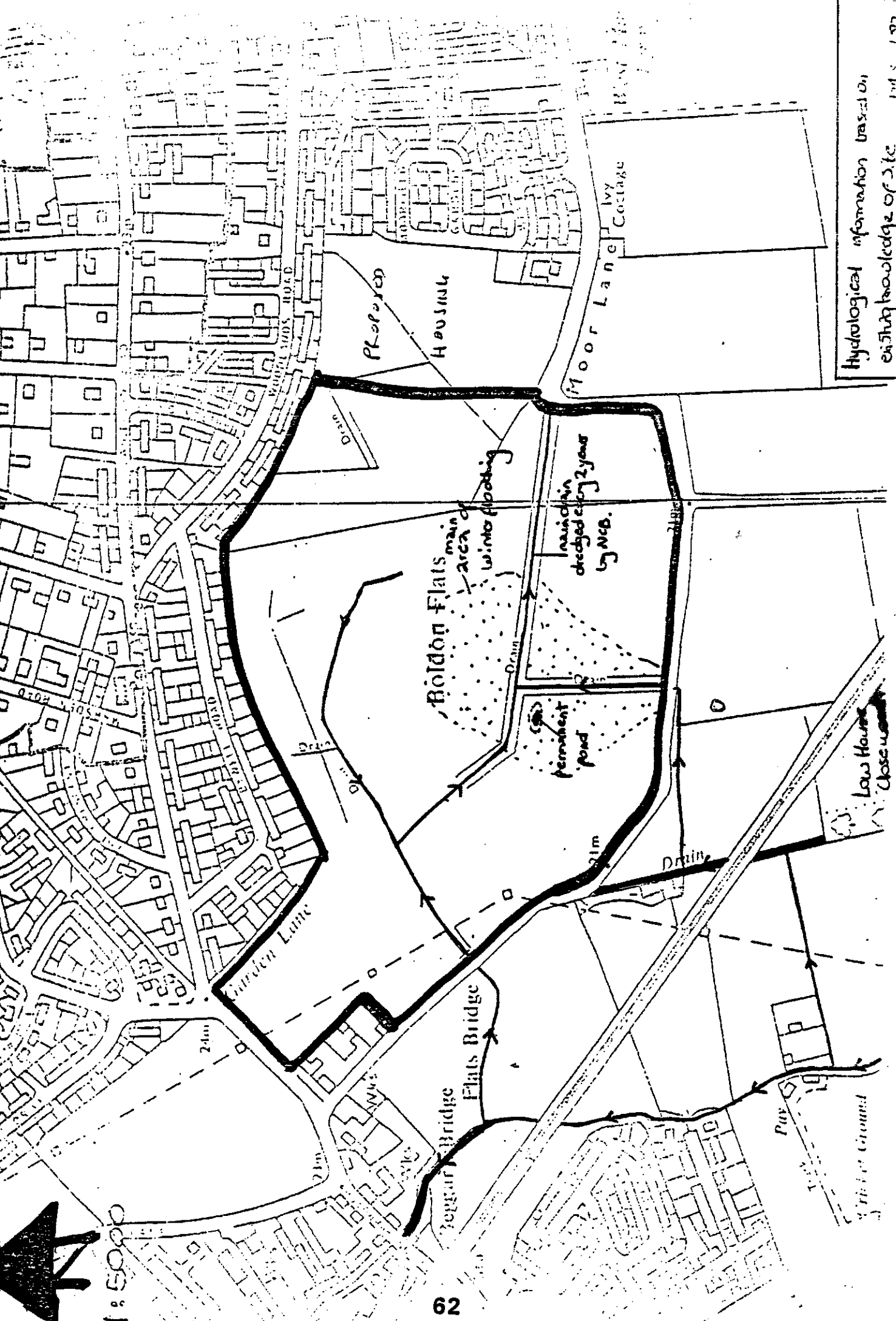
The recent re-discovery of Agabus uliginosus (Eyre & Foster, 1984) on the Flats indicates that the area is not a total write-off as far as the rarer species of water beetle are concerned. If this relict species is still present then others may also still be there, but due to the present nature of the area very difficult to find. Pterostichus vernalis and Agonum obscurum are still present which suggests continuity of habitat and the wet areas may contain other interesting species. There has been only a small amount of recent recording but more survey work will be carried

out. However, there is little doubt that the provision of a shallow pond on the Flats and a reduction in the amount of cattle damage will lead to an increased number of habitats into which, if they are still there, relict species may return.

References

- Bold T.J. 1844. Journal
Bold T.J. 1849. Zoologist 7: xxiv-xxvi
Bold T.J. 1850. Trans. Tyneside Nat. Fld Club 1: 270-285
Bold T.J. 1856. Zoologist 14: 5004
Bold T.J. 1867. Nat. Hist. Trans. Northumb. 1: 318-324
Eyre M.D. & Foster G.N. 1984. Entomologist's Gaz. 35: in press
Hardy J. & Bold T.J. 1850. Trans. Tyneside Nat. Fld Club 1: 37-94
Hardy J. & Bold T.J. 1852. Trans. Tyneside Nat. Fld Club 2: 164-281

M.D.Eyre February 1984



Hydrological information based on
 existing knowledge of site

1:5000

INVERTEBRATE SITE REGISTER MASTER FORM

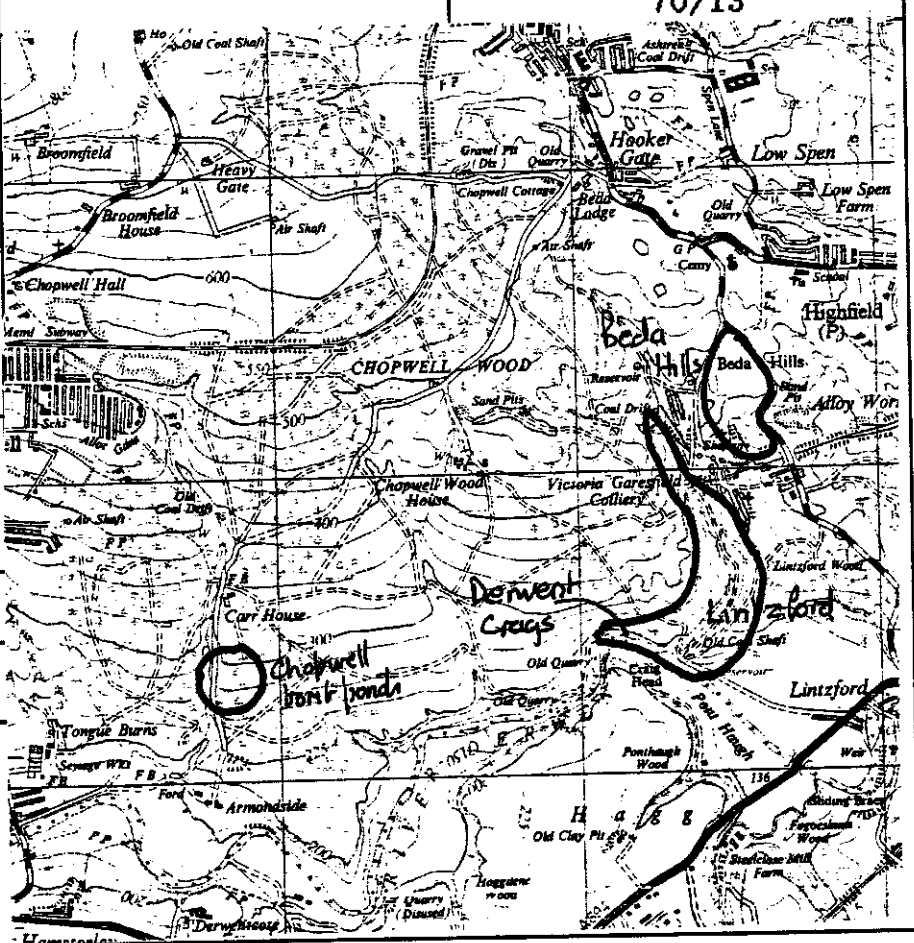
Name(s)
**CHOPWELL WOODS
BEDA HILLS
LINTZFORD WOOD
DERWENT CRAGS**

County(s)
Tyne and Wear

Grid. Ref.
NZ15

Grade
C

Status
Forestry Commission



Site description - Habitat

Large and very diverse coniferous plantation on the site of an ancient oak woodland with some remnants of deciduous woodland around the fringes. The plantations are of very mixed age and species composition and there are many open area with rough grassland. Areas of interest around the fringes are Beda Hills - an area of rough, often wet, pasture and scrub, Lintzford Wood - a deciduously wooded dene on the steep slopes of the Lintzford Burn and Chopwell Bomb Ponds - a group of small ponds. The southern edge of the wood where it meets the River Derwent also forms a near vertical sandstone cliff with dry, Sessile Oak woodland.

Invertebrate Interest - Coverage

Long history of recording in and around the woods has produced many interesting records of old woodland species. Some of these have been recorded recently including the slug Limax tenellus - a good ancient woodland indicator and the locally scarce Small Pearl Bordered Fritillary. The ponds support a good dragonfly fauna including Aeshna grandis which is a scarce species locally, and the Ringlet has been rediscovered in open grassy areas (first record since 1930s). Moth trapping has also produced a good list of species typical of Derwent Valley Woodlands.

Comments - Conservation

Taken as a whole this is a rich area but it is difficult to identify any specific sites of particular interest. The Lintzford Dene and the crags at its mouth are parobaly the best areas on the basis of their habitat, but young conifers underplanted in Lintzford Wood will degrade the area as they grow.

Red Data Book and Notable species recorded for CHOPWELL WOODS

Na

Eupithecia trisignaria LEP:Geometridae 1956 Johnson(1956)
1826, Triple-spotted Pug

Notable/Nb

Limax tenellus MOL:Limacidae 1978 Wallace, Dr. I
Habitat indicator of Deciduous & mixed wood (2)

Semidalis aleyrodiformis NEU:Coniopterigida 1977 Eyre, M D
Anthonomus ulmi COL:Curculionidae 1977 Eyre, M D
Lintzford Wood

Bembidion nigricorne COL:Carabidae 1930 Walsh(1924)
Carpelabus fuliginosus COL:Staphylinidae 1945 Walsh(1945)
Judolia cerambyciformis COL:Cerambycidae 1977 Eyre, M D
Habitat indicator of Deciduous & mixed wood (2)

Luperus flavipes COL:Chrysomelidae 1978 Eyre, M D
Pterostichus cristatus COL:Carabidae 1978 Eyre, M D
Boloria euphrosyne LEP:Nymphalidae 1956 Hull(1956)
1601, Pearl Bordered Fritillary

Crambus pratella LEP:Pyralidae 1978 Sheppard, Dr D A
Eupithecia dodoneata LEP:Geometridae 1975-1976 Henderson, R
1853, Oak-tree Pug
Habitat indicator of Deciduous & mixed wood (3)

Eupithecia expallidata LEP:Geometridae 1933 Johnson et al (1933)
1833, Bleached Pug
Habitat indicator of Deciduous & mixed wood (3)

Eupithecia indigata LEP:Geometridae 1956 Heslop-Harrison(1956B)
1844, Ochreous Pug

Hydraecia petasitis LEP:Noctuidae 1975-1976 Henderson, R
2362, Butterbur
Habitat indicator of Stream or river including margins (3)

Pammene fasciana f.herrichiana LEP:Tortricidae 1977 Sheppard, Dr D A
Synanthedon tipuliformis LEP:Sesiidae 1973 Henderson, R
0373, Currant Clearwing

Erioptera divisa DIP:Tipulidae 1977 Sheppard, Dr D A
Poecilobothrus principalis DIP:Dolichopodidae 1927 Fordham(1930)
Tipula obsoleta DIP:Tipulidae 1977 Sheppard, Dr D A

Nr

Aeshna grandis ODO:Aeshnidae 1967 Lawton, Dr. J.
Brown Hawker
Seen ovipositing - Chopwell Bomb Ponds

Brychius elevatus (Panzer) COL:Halipidae 1970- Eyre, M D
Dromius agilis COL:Carabidae 1924 Walsh(1924)
Apamea epomidion LEP:Noctuidae 1975-1976 Henderson, R
2327, Clouded Brindle

Aphantopus hyperantus LEP:Satyridae 1985 Durkin, John
1629, Ringlet

Aplocera plagiata LEP:Geometridae 1975-1976 Henderson, R
1867, Treble Bar

Apocheima hispidaria LEP:Geometridae 1923 Charlton(1923)
1925, Small Brindled Beauty

CHOPWELL WOODS (Continued)

<i>Asthena albulata</i> 1875, Small White Wave Habitat indicator of Deciduous & mixed wood (2)	LEP:Geometridae	1977	Sheppard, Dr D A
<i>Bena prasinana</i> 2421, Scarce Silver-lines Habitat indicator of Deciduous & mixed wood (2)	LEP:Noctuidae	1978	Sheppard, Dr D A
<i>Boloria selene</i> 1600, Small Pearl-bordered Fritillary	LEP:Nymphalidae	1985	Durkin, John
<i>Hydrelia flammeolaria</i> 1876, Small Yellow Wave Habitat indicator of Deciduous & mixed wood (3)	LEP:Geometridae	1922	Heslop-Harrison (1922)
<i>Nycteola revayana</i> 2423, Oak Nycteoline Habitat indicator of Deciduous & mixed wood (3)	LEP:Noctuidae	1977	Sheppard, Dr D A
<i>Odontosia carmelita</i> 2010, Scarce Prominent Habitat indicator of Deciduous & mixed wood (3)	LEP:Notodontidae	1978	Sheppard, Dr D A
* <i>Quercusia quercus</i> 1557, Purple Hairstreak High Friarside NZ152572 opposite bottom end of Lintzford.	LEP:Lycaenidae	1985	Durkin, John
<i>Serraca punctinalis</i> 1944, Pale Oak Beauty	LEP:Geometridae	1977	Sheppard, Dr D A
<i>Melangyna umbellatarum</i> (F) Lintzford Wood	DIP:Syrphidae	1985	Simpson, Gordon
<i>Andrena pubescens</i>	HYM:Andrenidae	1983	Sheppard, Dr D A
<i>Formicoxenus nitidulus</i>	HYM:Formicidae	1906	Bagnall (1906)

Local

<i>Hemerobius atrifrons</i> McLachlan	NEU:Hemerobiidae	1977	Eyre, M D
<i>Hemerobius pini</i> Stephens	NEU:Hemerobiidae	1978	Eyre, M D
<i>Hemerobius simulans</i> Walker	NEU:Hemerobiidae	1978	Eyre, M D
<i>Wesmaelius concinnus</i> (Stephens)	NEU:Hemerobiidae	1977	Eyre, M D
<i>Harpalus latus</i> (L)	COL:Carabidae	1978	Eyre, M D
<i>Notiophilus palustris</i> (Dufts.)	COL:Carabidae	1978	Eyre, M D
<i>Apeira syringaria</i> 1910, Lilac Beauty	LEP:Geometridae	1975-1976	Henderson, R
<i>Callistege mi</i> 2462, Mother Shipton	LEP:Noctuidae	1975-1976	Henderson, R
<i>Epirrata filigrammaria</i> 1798, Small Autumnal Moth	LEP:Geometridae	1977	Sheppard, Dr D A
<i>Erynnis tages</i> 1532, Dingy Skipper	LEP:Hesperiidae	1977	Sheppard, Dr D A
<i>Eupithecia exiguata</i> 1819, Mottled Pug	LEP:Geometridae	1975-1976	Henderson, R

49 species listed
Invertebrate Index = 930

* Record is confidential

NATURE CONSERVANCY COUNCIL

SITE NAME
CHICKWELL WOOD

NZ GRID REFERENCE
4 5 1 3 - 5 8 -

INVERTEBRATE

DATE OR PERIOD OF VISITS

MODERN COUNTY TYNE/
~~SOUTH~~ WETN

SITE

28/9/1978

RECORDER
I. Wallace

ALTITUDE M.

REGISTER

Site Status

- National Nat. Res.
- RSPB Reserve
- County Trust Res.
- SSSI
- Local Authority
- Common Land
- Forestry Commission
- Min of Defence
- National Trust
- Private Owner
- Other, please state

Sketch Map (showing main areas of invertebrate interest)

Site Description (habitats of interest)

Main Invertebrate Interest

Mollusca: Limax fenellus (notable)

General Comments (Site importance, conservation problems etc.)

Info. from mollusc recording scheme

(Please use back of sheet for further details - eg species lists, literature ref. etc
Office use

**INVERTEBRATE SITE REGISTER
MASTER FORM**

Name(s)

CLEADON HILL

County(s)

Tyne and Wear

Grid. Ref.

NZ3963

Grade

C

Status

SSSI
Private owner



Site description - Habitat

Herb rich magnesian limestone grassland at almost the northern end of the Durham limestone belt. The area includes rock exposures and limestone walls and there are flushed areas dominated by sedges.

Invertebrate Interest - Coverage

A list of molluscs recorded by R H Lowe in 1983 includes two local species, in particular Pyramidula rupestris at the northern limit of its range.

Comments - Conservation

If the magnesian limestone fauna typical of Durham sites exists here it is likely that a number of species will be at their northern limit.

Red Data Book and Notable species recorded for CLEADON HILL

Local

Pyramidula rupestris	MOL:Pyramidulidae	1983	Lowe, Mr R H
Habitat indicator of Calcareous grassland or scrub (3)			
Vallonia excentrica Sterki	MOL:Vallonidae	1983	Lowe, Mr R H

2 species listed
Invertebrate Index = 0