

CLEVELAND NATURALISTS'

FIELD CLUB



RECORD OF PROCEEDINGS

Volume 11 Part 3

Spring 2017

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THE OFFICERS AND COMMITTEE 2016-2017

President.	Malcolm Birtle, 10 Avon Grove, Billingham, TS22 5BH. .
Secretary.	Eric Gendle, 13 Mayfield Road, Nunthorpe, TS7 0ED.
Treasurer.	Colin Chatto, 32 Blue Bell Grove, Acklam, TS5 7HQ.
Membership Secretary.	Jo Scott, Tethers End, Hartburn Village, Stockton. TS18 5DR.
Programme Secretary.	Neil Baker, 9 Glaisdale Court, Darlington, DL3 7AD.
Web Master	David Barlow

The immediate past president. Vic Fairbrother.

Ordinary members. Paul Forster, Tony Wardhaugh.

Membership Details

The Club seeks to promote an interest in all branches of natural history and to assist members in finding out about the living things that they see in the countryside around them. The present membership includes those who have particular interests in birds, insects, slugs and snails, lichens, fungi, flowering plants and mosses and liverworts. Members with interests in other fields would be very welcome.

In spring and summer there are evening, half-day and whole-day visits to investigate the natural history of a particular area. During the winter months there is a series of meetings held in the Nunthorpe Institute, The Avenue, Nunthorpe, Middlesbrough. If you have any difficulty getting to this venue, please speak to any committee member and we will see if we can arrange a lift for you. A meeting usually takes the form of a lecture given by a club member or visiting speaker. The annual subscription is £8.

Members are entitled to attend meetings of two affiliated organisations:
Yorkshire Naturalists' Union.
Tees Valley Wildlife Trust.

Details are available from Eric Gendle ☎ 01642 281235

President Address

Many thanks to all the officers of the Club, and all members that have contributed to activities throughout the year.

We have had a complete and very interesting series of indoor meetings in the Winter of 2016-17. The 2016 Summer programme was as extensive as we have come to expect. We discovered a number of interesting species, explored new places, and enjoyed good weather for the most part. The club submitted nearly a thousand biological records to the appropriate record centres as a result of our field studies.

Joint meetings with other groups and societies were again a notable feature of our programme and I believe the Club benefits greatly through meeting people active in different areas, and with specialist knowledge. We anticipate further joint meetings in 2017.

The Club and individual members have contributed to conservation projects including Capturing the Coast run by a collaboration of academic and conservation bodies, The Green Spaces Project run by Tees Valley Wildlife Trust, various projects run by the RSPB and British Trust for Ornithology and the Cold Blooded and Spineless Project (North Pennines AONB). The Club also had an exhibition at the North east Recorders Conference at Preston Park.

An issue of the Proceedings has been produced for 2016 and will appear on the web site in due course. Many thanks to all contributors and I would encourage members to contribute to the Proceedings and web site as they are now the primary public face of the Club. The Club regularly receives feedback and enquiries regarding the content of the Proceedings and web site.

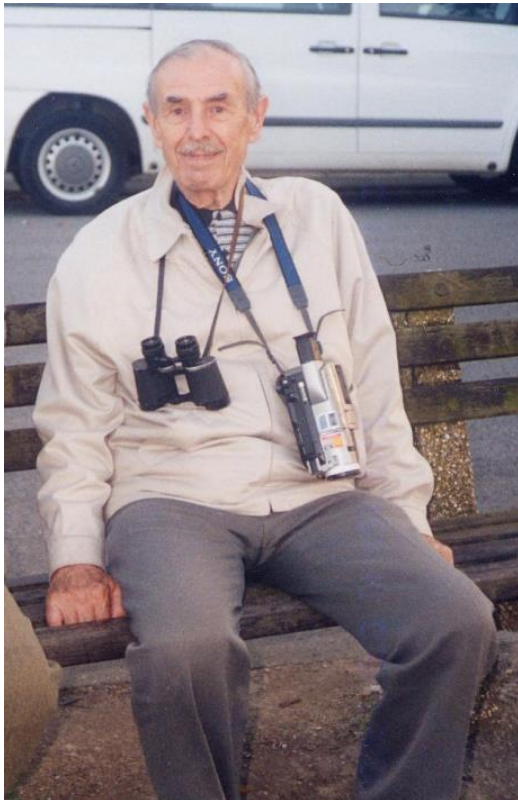
The Elgee Lecture was very successful and attracted a good number of people from the interested societies and the general public. Potential exists for joint working with the archaeological and historical societies in the future if members are interested. Thanks to Dr Robert Woods the Director of the Industry and Nature Conservation Association (INCA) on Teesside for delivering the lecture. The Club Secretary with officers of East Hampshire District Council also carried out an excellent project on the renovation of his grave in Alton Hampshire. All involved with this project deserve our thanks.

It is very important to realise that the Club is the members, and all the achievements of the Club are achievements of all the members. We can congratulate ourselves on another successful year and let us look forward to a stimulating and active 2017.

In Memoriam

The Club was sad to hear of the passing of Maurice Hallam during the year. He was a long standing member of the Club and regularly attended meetings. When I first joined the Club in the early 1980's Maurice was one of the first members I came to know. At field meetings he often guided me with basic instruction on botany and ornithology in particular. He was one of the small tribe of bird specialists who use their ears to find birds through their songs and calls. Maurice was also a skilled photographer and amateur artist who had mastery over black and white photography and painting of birds in particular. In his latter years his attendance at meetings became more infrequent but he kept in contact with the Club. Maurice died on May 18th 2016 aged 91.

M. Birtle



Maurice at Charltons (for Margrove Park) July 2001

ERRATA

Proceedings 2016

Page 29, line 6 the article about Castle Eden Dene by Tony Wardaugh, should read:

"just west of Garden of Eden Bridge (NZ438398)."

T. Wardaugh

Highlights of 2016 Field Meetings

Sunday, 17th April, 10:30 am, leader Colin Chatto, GR NZ572036, Greenhow Plantation

On a fairly pleasant day, which started cool but was quite warm in the sunny spells, seven members walked from Clay Bank Car Park along a forest track to Ingleby Incline. We then walked up the Incline and came back along the top encountering some snow on the ground (we were overtaken by a unicyclist at one point!). There were very few flowers to be seen, Coltsfoot (*Tussilago farfara*) and Goat Willow (*Salix caprea*) being the only ones I noted. There weren't many insects either - White-tailed Bumblebee (*Bombus lucorum*), Common Wasp (*Vespula vulgaris*), some small hoverflies (unidentified), Whirligig Beetles (*Gyrinus natator*) and Pondskaters (*Gerris lacustris*).

We were shown Garlic Snail (*Oxychilus alliarius*) and Copse Snail (*Arianta arbustorum*) and there were tadpoles (*Rana temporaria*) in a "puddle" on the moor top.

Birds seen or heard were - Swallow (*Hirundo rustica*), Blue Tit (*Parus caeruleus*), Coal Tit (*P. ater*), Chaffinch (*Fringilla coelebs*), Pheasant (*Phasianus colchicus*), Red Grouse (*Lagopus lagopus*), Buzzard (*Buteo buteo*), Chiff Chaff (*Phylloscopus collybita*), Willow Warbler (*P. trochilus*), Meadow Pipit (*Anthus pratensis*), Curlew (*Numenius arquata*), and a Great Spotted Woodpecker (*Dendrocopus major*) was drumming.

Saturday, 23rd April, 10:30 am, Hart to Haswell Walkway, GR NZ483363, leader Daphne Aplin

It was a clear cold day with a northerly breeze when the party walked from Ocean Road to the top of the rising gradient on the old line. There was little exceptional bird activity except for Little Grebe.. Some dead specimens of *Vallonia excentrica* (Eccentric Grass Snail) were found in the grassy cuttings. *Sarcoscypha austriaca* (Scarlet Elf Cups) and *Primula x polyantha* (False Oxlips) were also noted. A good assemblage of Bumble Bee species were encountered-

<i>Bombus pascuorum</i>	Common Carder Bee
<i>Bombus lapidarius</i>	Red Tailed Bumblebee
<i>Bombus terrestris</i>	Buff Tailed Bumblebee
<i>Bombus hypnorum</i>	Tree Bumblebee
<i>Bombus lucorum</i>	White Tailed Bumblebee

Vallonia excentrica



Sarcoscypha austriaca (Scarlet Elfcup)



Primula x polyantha (False Oxlips)



Wednesday, 27th April, 1:30 pm, Redcar Stray, GR NZ613249, leader Ian Lawrence

The party explored the remnant dune habitat along the seaward margin of the Stray. Notably, some dead specimens of *Vallonia costata* (Ribbed Grass Snail) and *Trochulus hispidus* (Hairy Snail) were found.

Vallonia costata (Ribbed Grass Snail)



Wednesday, 4th May, 6:30 pm, Seaton Carew, GR NZ518316, leader Malcolm Birtle

The meeting took place on a breezy, clear, warm, sunny evening. One of the first Swifts was noted at Saltholme. The party walked on the landscaped waste heaps behind the A178 at Newburn Bridge. The margin of the road was seeded with wildflowers in 2015, which made a colourful display. However, at the time of this visit the margin was very bare. However, the display has since appeared again, in addition to many other similar sites in Hartlepool. On this visit nothing notable was found but there was a good mix of species on the site. The tip has been covered in *Hirschfeldia incana* (Hoary Mustard) in the recent past and many seed heads remained..

Sunday, 8th May, 10:30 am, Roseberry Topping, GR NZ570128, leader Andy Ferguson

It was a hot, misty, sunny day and the party walked from Newton-under-Roseberry to Cliff Rigg. It was a good day for insects and the following were noted- *Nomada goodeniana* (Goodens Nomad), *Geotrupes stercorarius* (Dor Beetle), *Bombus lapidarius* (Red Tailed Bumblebee), *Bombus terrestris* (Buff Tailed Bumblebee), *Bombus pascuorum* (Common Carder Bee), *Bombus lucorum* (White Tailed Bumblebee), *Anthocharis cardamines* (Orange Tip), *Aglais io* (Peacock), *Phytomyza ilicis* (Holly Leaf Miner), and *Bombylius major* (Bee Fly). Birds were engaged in their Spring activities including *Dendrocopos major* (Great Spotted Woodpecker), *Erithacus rubecula* (Robin), *Fringilla coelebs* (Chaffinch), *Turdus philomelos* (Song Thrush), *Parus major* (Great Tit) and *Cuculus canorus* (Cuckoo)

Geotrupes stercorarius (Dor Beetle)



Wednesday, 11th May, 10:30 am, Swainby, GR NZ477020, leader Vincent Jones

The following were noted-*Ophioglossum vulgatum* (Adder's Tongue Fern) in a pasture field (NZ489003), *Passer montanus* (Tree Sparrow) in hedgerow near Millfield House (NZ484013), *Phoenicurus phoenicurus* (Redstart) in the Whorlton House area (NZ489018), *Vanellus vanellus* (Lapwing), 3 adults, 5 young; *Numenius arquata* (Curlew) in the Whorlton Lane area (NZ488020), and *Scaphidium quadrimaculatum* (Boat-shaped Fungus Beetle).

Ophioglossum vulgatum (Adder's Tongue Fern)



Scaphidium quadrimaculatum (Boat-shaped Fungus Beetle)



Saturday, 14th May, Jervaulx Abbey, 10:30 am, GR SE168857, leader Colin Chatto

On a pleasant dry day, which got warmer as the walk progressed, eight members visited Jervaulx Abbey and then walked west along the south side of the rivers Ure and Cover to Cover Banks, returning the same way.

PLANTS seen were - Cowslip (*Primula veris*), Primrose (*P vulgaris*), False Oxslip (*P veris* x *P vulgaris* - in Abbey grounds), Water Avons (*Geum rivale*), Woodruff (*Galium odoratum*), Butterbur (*Petasites hybridus* - including many female plants), Early Purple Orchid (*Orchis mascula*), Common Dog Violet (*Viola riviniana*), Wallflower (*Cheiranthus cheiri* - on Abbey walls), Sweet Cicely (*Myrrhis odorata*), Bulbous Buttercup (*Ranunculus bulbosus*), Meadow Buttercup (*R acris*), Goldilocks (*R auricomus*) and Meadow Saxifrage (*Saxifraga granulata*). BIRDS seen included - Grey Wagtail (*Motacilla cinerea*), Yellow Wagtail (*M flava*), Dipper (*Cinclus cinclus*), Goosander (*Mergus merganser* - with young), Shellduck (*Tadorna tadorna*), Common Sandpiper (*Actitis hypoleucos*), Redshank (*Tringa totanus*), Greenshank (*T nebularia*), Willow Warbler (*Phylloscopus trochilus*), Nuthatch (*Sitta europaea*), Great Spotted Woodpecker (*Dendrocopus major*), Mallard (*Anas platyrhynchos* - with young), Grey Heron (*Ardea cinerea*), Mute Swan (*Cygnus olor*) - one of them on a nest, Blackcap (*Sylvia atricapilla* - female), Curlew (*Neminius arquata*), Oystercatcher (*Haematopus ostralegus*) and Lapwing (*Vanellus vanellus*).

INSECTS - Peacock Butterfly (*Inachis io*), Red Admiral (*Vanessa atalanta*), Green-veined White (*Pieris napi*), Tawny Mining Bee (*Andrena fulva*), other mining bees (unidentified), Bee-fly (*Bombilius major*), solitary wasps (unidentified), mayfly (unidentified) and various Bumble Bees (also unidentified!).

Wednesday, 18th May, 6:30 pm, Maze Park, GR NZ463189, leader Ian Lawrence

A circuit from Barrage through Maze Park to Newport Bridge and back through Portrack Marsh. It was hot, sunny and clear with a slight breeze. A small number of interesting insects were found- *Dolycoris baccarum* (Hairy Shieldbug), *Polyommatus icarus* (Common Blue), *Lasiommata megera* (Wall), *Aglais io* (Peacock), *Anthophila fabriciana* (Nettle-tap). A good stand of *Conium maculatum* (Hemlock) was also present.

Dolycoris baccarum (Hairy Shieldbug)



Saturday, 21st May, 10:30 am, Hawnby Hill and Easterside, GR SE537897, leader Andy Astbury

Wednesday, 25th May, 10:30 am, Beadale Wood, GR SE769861, leader Vic Fairbrother

Despite a most discouraging weather forecast six members met Mags, Nicky the owner and her brother in Wrelton village in order to explore the private woodland which we surveyed 5 years ago. We were looking forward to seeing how the conservation management which was taking place during our last visit had affected the limestone flora in the woodland. The predicted rain came at 11.15 a.m. and curtailed the walk which we confined to the wood. We recorded 75 woodland plants from the previous visit in 2011. The most significant new find was *Trollius europaeus* (Globe Flower) which had re-established itself in 2013 after a long absence. This year we found two small patches.

We also found one patch of *Polygonatum multiflorum* (Solomon's-seal) in full flower and occasional groups of *Paris quadrifolia* (Herb Paris). *Convallaria majalis* (Lily of the Valley) was present in leaf only but there were numerous *Orchis mascula* (Early Purple Orchid) in full bloom. At least six *Dactylorhiza fuchsii* (Common Spotted Orchid) spikes were found along one path but not yet in flower and just one *Platanthera chlorantha* (Greater Butterfly Orchid) in bud. Numerous *Listera ovata* (Common Twayblade) were in flower throughout the wood.

Sylvia atricapilla (Blackcap) and *Phylloscopus collybita* (Chiffchaff) were among the common resident woodland birds and there were brief glimpses of two *Capreolus capreolus* (Roe Deer).

Several patches of *Calocybe gambosa* (St.George's Mushroom) were of interest to the mycologists and gourmets.

The attached list includes plants found on the first visit in May 2011 and those on this visit in May 2016. As noted above the 2016 visit only included the wooded area and not the arable field and roadside verge completed in 2011. The asterisk identifies plants found outside the wooded area. New plants found on the most recent visit are highlighted in bold.

Beadale Wood		2011	2016
Wild Angelica	<i>Angelica sylvestris</i>		
Ash	<i>Fraxinus excelsior</i>	1	1
Avens, hybrid	<i>Geum x intermedium</i>		1
Water Avens	<i>Geum rivale</i>	1	1
Wood Avens	<i>Geum urbanum</i>	1	1

Beech	<i>Fagus sylvatica</i>		1
Birch	<i>Betula sp.</i>		1
Wavy Bittercress	<i>Cardamine flexuosa ?</i>		1
Black Bryony	<i>Tamus communis</i>	1	
Blackthorn	<i>Prunus spinosa</i>		1
Bluebell	<i>Hyacinthoides non-scripta</i>	1	1
Bramble	<i>Rubus fruticosus</i>	1	1
Bugle	<i>Ajuga reptans</i>	1	1
Burdock	<i>Arctium minus agg.</i>	1	1
Creeping Buttercup	<i>Ranunculus repens</i>	1	1
Goldilocks Buttercup	<i>Ranunculus auricomus</i>	1	1
Meadow Buttercup	<i>Ranunculus acris</i>		
Lesser Celandine	<i>Ficaria verna.Ranunculus ficaria?</i>	1	1
Horse Chestnut	<i>Aesculus hippocastanum</i>	1	1
Creeping Cinquefoil	<i>Potentilla reptans</i>	*	
Cleavers	<i>Galium aparine</i>	1	1
Coltsfoot	<i>Tussilago farfara</i>	1	1
Cow Parsley	<i>Anthriscus sylvestris</i>	1	1
Cowslip	<i>Primula veris</i>	1	1
Crosswort	<i>Cruciata laevipes</i>	1	1
Red Currant	<i>Ribes rubrum</i>	1	1
Dandelion	<i>Taraxacum sp.</i>	1	1
White Dead-nettle	<i>Lamium album</i>	*	
Dewberry	<i>Rubus caesius</i>	1	1
Broad-leaved Dock	<i>Rumex obtusifolius</i>	1	1
Dog's Mercury	<i>Mercurialis perennis</i>	1	1
Dogwood	<i>Cornus sanguinea</i>	1	
Elder	<i>Sambucus nigra</i>	1	1
Enchanter's Nightshade	<i>Circaea lutetiana</i>	1	1
False Oxlip	<i>Primula x polyantha</i>	1	1
Common Buckler Fern,	<i>Dryopteris dilatata</i>	1	1
Golden-scaled Male Fern,	<i>Dryopteris affinis</i>	1	
Hard Shield Fern,	<i>Polystichum aculeatum</i>	1	
Male Fern	<i>Dryopteris filix-mas</i>	1	1
Common Figwort	<i>Scrophularia nodosa</i>		1
Giant Bellflower	<i>Campanula latifolia</i>	1	1
Globe Flower	<i>Trollius europaeus</i>		1
Gooseberry	<i>Ribes uva-crispa</i>	1	1
	<i>Deschampsia caespitose cespitosa</i>	1	1
Tufted Hair-grass			
Meadow Foxtail	<i>Alopecurus pratensis</i>		
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>		
Gorse	<i>Ulex europaeus</i>	1	1
Ground Elder	<i>Aegopodium podagraria</i>	1	1
Ground Ivy	<i>Glechoma hederacea</i>	1	1
Guelder Rose	<i>Viburnum opulus</i>	1	

Marsh Hawksbeard	<i>Crepis paludosa</i>		
Hawthorn	<i>Crataegus monogyna</i>	1	1
Hazel	<i>Corylus avellana</i>	1	1
Garlic Mustard ?	<i>Alliaria petiolata</i>	1	1
Herb Paris	<i>Paris quadrifolia</i>	1	1
Herb Robert	<i>Geranium robertianum</i>	1	1
Hogweed	<i>Heracleum sphondylium</i>	1	1
Honeysuckle	<i>Lonicera periclymenum</i>	1	1
Ivy	<i>Hedera helix</i>	1	1
Lady's Mantle	<i>Alchemilla xanthochlora</i>	1	1
Lily of the valley	<i>Convallaria majalis</i>	1	1
Lords and ladies	<i>Arum maculatum</i>	1	1
Field Maple	<i>Acer campestre</i>	1	1
Meadowsweet	<i>Filipendula ulmaria</i>	1	1
Wood Melick	<i>Melica uniflora</i>	1	1
Moschatel	<i>Adoxa moschatellina</i>	1	
Common Nettle	<i>Urtica dioica</i>	1	1
Oak	<i>Quercus sp.</i>	1	1
Common Spotted Orchid	<i>Dactylorhiza fuchsii</i>	1	1
Early Purple Orchid,	<i>Orchis mascula</i>	1	1
Greater Butterfly Orchid	<i>Platanthera chlorantha</i>	1	1
Parsley Piert	<i>Aphanes arvensis</i>		
Pignut	<i>Conopodium majus</i>	1	1
Yellow Pimpernel	<i>Anagallis nemorum</i> <i>Lysimachia?</i>	1	1
Greater Plantain	<i>Plantago major</i>	1	1
Ribwort Plantain	<i>Plantago lanceolata</i>	1	1
Welsh Poppy	<i>Meconopsis cambrica</i>	1	1
Common Primrose	<i>Primula vulgaris</i>	1	1
Ramsons	<i>Allium ursinum</i>	1	1
Raspberry	<i>Rubus idaeus</i>	1	1
Field Rose	<i>Rosa arvensis</i>	1	1
Rowan	<i>Sorbus aucuparia</i>	1	1
Three-nerved Sandwort	<i>Moehringia trinerva trinervia?</i>	1	
Wood Sedge	<i>Carex sylvatica</i>	1	1
Silverweed	<i>Potentilla anserina</i>	*	
Solomon's seal	<i>Polygonatum multiflorum</i>	1	1
Common Sorrel	<i>Rumex acetosa</i>	1	
Blue Sowthistle	<i>Cicerbita macrophylla</i>		
Germander Speedwell	<i>Veronica chamaedrys</i>	1	1
Ivy-leaved Speedwell	<i>Veronica hederifolia</i>	1*	
Hairy St John's Wort	<i>Hypericum hirsutum</i>	1	1
Square-stalked St John's Wort,	<i>Hypericum tetrapterum</i>	*	
Greater Stitchwort	<i>Stellaria holostea</i>	1	1
Barren Strawberry	<i>Potentilla sterilis</i>	1	1
Wild Strawberry	<i>Fragaria vesca</i>		1
Sycamore	<i>Acer pseudoplatanus</i>	1	1

Creeping Thistle	<i>Cirsium arvense</i>		1
Common Twayblade	<i>Neottia cordata</i> <i>Listera ovata</i> ?	1	1
Bush Vetch	<i>Vicia sepium</i>	1	1
Tufted Vetch	<i>Vicia cracca</i>	*	
Common Dog Violet	<i>Viola riviniana</i>	1	1
Early Dog Violet	<i>Viola reichenbachiana</i>	1	
Hairy Violet	<i>Viola hirta</i>	1	
Sweet Violet	<i>Viola odorata</i>	*	
Goat Willow	<i>Salix sp.</i>		
Great Willowherb	<i>Epilobium hirsutum</i>		1
Rosebay Willowherb	<i>Chamaenerion angustifolium</i>		1
Wood Anemone	<i>Anemone nemorosa</i>	1	1
Wood Sage	<i>Teucrium scorodonia</i>	1	
Wood Sorrel	<i>Oxalis acetosella</i>	1	1
Woodruff	<i>Galium odoratum</i>	1	1
Field Woodrush	<i>Luzula campestris</i>		
Great Woodrush	<i>Luzula sylvatica</i>	1	

Sunday, 29th May, 10:30 am, Ledsham Vale, GR SE461300, leader Eric Gendle

A preliminary check showed that the planned visit to Ledsham Vale was unwise, since the route was blocked by roadworks and the site was very poor. The members therefore visited Ledston Luck, a nearby YWT reserve instead. This proved a very varied site with a lake, several smaller ponds and extensive woodland and scrub, together with limestone grassland. Butterflies seen included *Polyommatus icarus* (Common Blue) and *Pararge aegeria* (Speckled Wood).

Trees-*Acer campestre* (Field Maple), *Acer pseudoplatanus* (Sycamore), *Alnus glutinosa* (Alder), *Betula pendula* (Silver Birch), *Pendula pubescens* (Downy Birch), *Coryllus avenella* (Hazel), *Crataegus monogynas* (Hawthorn), *Larix sp* (Larch), *Pinus sylvestris* (Scots Pine), *Prunus avium* (Wild Cherry), *Prunus spinosa* (Blackthorn), *Quercus petraea* (Sessile Oak), *Quercus rubra* (Pendunculate Oak), *Viburnum opulus* (Guelder Rose).

The visit was rather too early in the season, but many typical limestone plants were seen including *Dactylorhiza fuchsii* and *purpurella* (Common Spotted and Northern Marsh Orchid) and their hybrids. *Achillea millefolium* (Yarrow), *Agrimonia eupatoria* (Agrimony), *Centaurea nigra* (Common Knapweed), *Centaureum rythraea* (Common Centaury), *Chamaenerion angustifolium* (Rosebay Willowherb), *Geum rivale* (Water Aven), *Geum urbanum* (Wood Aven), *Geum x intermedium* (WA x WA Hybrid), *Blackstonia perfoliata* (Yellowwort), *Iris pseudocornis* (Yellow Iris), *Hypericum perforatum* (Perforated St John's Wort), *Lotus corniculatus* (Birds Foot Trefoil), *Potentilla anserina* (Silverweed), *Rhinanthus minor* (Yellow Rattle), *Rosa arvensis* (Field Rose), *Rosa canina* (Dog Rose), *Rubus fruticosus* agg (Bramble), *Silene dioica* (Red Campion), *Lycnis flos-cuculi* (Ragged Robin), *Stachys sylvatica* (Hedge Woundwort), *Urtica dioica* (Common Nettle).

Wednesday, 1st June, 10:30 am, Gowerdale, GR SE535882, leaders Peter and Ruth Waterton

Wednesday, 8th June, 11:00 am, South Gare, GR NZ556276, leader Jo Scott

It was a very calm day so the water was clear. A good number of species were recorded including some very large sea mats (*Membranipora membranacea*) on Laminaria, a beautiful hydroid (*Campanularia volubilis*) attached to the red seaweed (*Membranoptera alata*) and a

Bluefire Jellyfish (*Cyanea lamarckii*). A selection of shells were also collected. The density of *Lanice conchilega* (Sand Mason worm casts) was amazing so a count was undertaken. 10 x 1m transect squares were marked out on the foreshore from GR NZ5584327931 at 5m intervals in a South Easterly direction. An area of foreshore of 50 x 250m is estimated to hold 1145000 individuals. The transect results are tabled below:

Sample	Count
S1	100
S2	185
S3	136
S4	75
S5	43
S6	2
S7	152
S8	87
S9	89
S10	47
Total	916
Mean	91.6 casts/sq m



Bluefire Jellyfish - *Cyanea lamarckii*



Hydroid - *Campanularia volubilis*

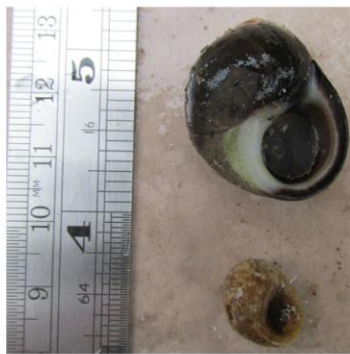
A collection of shelled molluscs was taken.
Molluscs from South Gare Spit.



Ensis siliqua (Pod Razor Shell)



Mytilus edulis (Common Mussel)



Littorina littorea
(Edible Winkle)

Littorina obtusata
(Flat Winkle)



Buccinum undatum (Common Whelk)



Nucella lapillus (Dog Whelk)



Cerastoderma edule (Cockle)



Spisula solida [Thick Trough Shell]



Clausinella fasciata (Banded Venus)



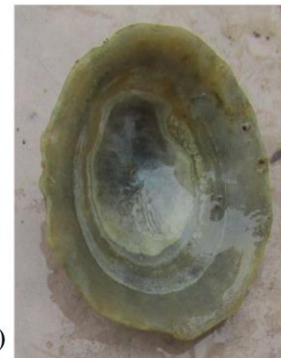
Gibbula cineraria
(Grey Top Shell)



Nassarius reticulatus
(Netted dog whelk)



Trivia monacha
(Spotted Cowrie)



Patella vulgata (Limpet)

Bladder Wrack	<i>Fucus vesiculosus</i> (a)
Serrated Wrack	<i>Fucus serratus</i> (a)
Sugar Kelp	<i>Laminaria saccharina</i> (a)

Oarweed	<i>Laminaria digitata (a)</i>
Pincer weed	<i>Ceramium rubrum (a)</i>
Sea Lettuce	<i>Ulva lactuca (a)</i>
Lava bread	<i>Porphyra sp (a)</i>
	<i>Dumontia contorta (a)</i>
Stackhouse frond	<i>Membranoptera alata (f)</i>
Sea beech	<i>Delesseria sanguinea (f)</i>
Bluefire Jellyfish	<i>Cyanea lamarckii</i>
Chiton	
Breadcrumb sponge	<i>Halichondria panicea</i>
	<i>Ptilota plumosa</i>
	<i>Polysides rotundas</i>
Sand Mason Worm	<i>Lanice conchilega</i>
Tube Worm	
Barnacles	
Mussels	
Limpet	
	<i>Dynamena pumila</i>
	<i>Obelia geniculata</i>
Sea Hare	<i>Aplysia punctata</i>
Spider Crab	
Longclawed Porcelain crab	<i>Pisidia longicarnis</i>
Velvet Swimming Crab	<i>Necora puber</i>
Shore Crab	<i>Carcinus maenas</i>
Edible Crab	<i>Cancer pagurus</i>
Squat lobster	<i>Galathea squamifera</i>
Solitary Sea Squirt	<i>Corella eumyota</i>
Sea Mat	<i>Membranipora membranacea</i>
Sea Mat	<i>Electra pilosa</i>
Pipefish	
Butterfish	
Hooded shrimp	
Hydroid	<i>Campanularia volubilis (a)</i>

(a) = attached

(b) = floating

A short walk around the back dunes was carried out in the afternoon and a good colony of *Ophrys apifera* (Bee Orchid) was found.

Ophrys apifera (Bee Orchid)



Wednesday, 15th June, 6:30 pm, Little Ayton, GR NZ563107, leader Eric Gendle

The weather proved to be very uncertain, so the small party drove to Little Ayton and walked the short distance through field and woodland to emerge to see the magnificent display of *Dactylorhiza praetermissa* (Southern Marsh Orchid) at the field edge. This change of plan gave the photographers ample time to take many images in the early evening light, both close ups and wider shots of the whole assemblage of several hundred plants. These plants are almost the most northerly ones known, except for some near Shap which are few miles further to the north on the far side of the Peninnes. *Cinclus cinclus* (Dipper) was seen downstream of the iron bridge at NZ570102.

Wednesday, 22nd June, 1:30 pm, Cowpen Bewley Woodland Park, GR NZ479254, leader Daphne Aplin

A wonderfully hot afternoon with just enough breeze to make it comfortable. We started off looking at larval webs of *Yponomeuta evonymella* (Bird-cherry Ermine) on trees in the car park. There was *Iris pseudacorus* (Yellow Flag) in the ponds. The meadows looked stunning with the crimson-pink heads of *Lathyrus nissolia* (Grass Vetchling) showing among the variety of grassland plants listed below. In the car park *Sylvia communis* (Whitethroat) was singing lustily: We watched *Apus apus* (Swifts) flying high: Apart from *Pica pica* (Magpie) we only saw one *Gallinula chloropus* (Moorhen). Majestic on the lake was a pair of *Cygnus olor* (Mute Swan) with their 3 cygnets.

Disappointingly there were not many insects in evidence apart from a few *Pararge aegeria* (Speckled Wood) and a couple of *Ochlodes venata* (Large Skipper). A *Chrysoperla carnea* (Lacewing) and a *Bombus pascuorum* (Common Carder-bee) were noted with pairing *Ischnura elegans* (Blue-tailed Damselflies), *Enallagma cyathigerum* (Common Blue Damselflies), *Pyrrhosoma nymphula* (Large Red Damselflies) and a *Libellula quadrimaculata* (Four-spotted Chaser Dragonfly).

Other insects noted on reconnaissance on 20th June were *Nemophora degeerella* (Degeer's Longhorn), *Agapanthia villosa viridescens* (Golden-bloomed Grey Longhorn) and *Pyrochroa serraticornis* (Red-headed Cardinal), *Cercopis vulnerata* (Froghopper) and a Ladybird larva. There were also three Picture-wing flies perhaps *Ceroxys urticae*?

<i>Lathyrus</i>	<i>nissolia</i>	Grass Vetchling	NZ479254
<i>Rhinanthus</i>	<i>minor</i>	Yellow Rattle	NZ479254

<i>Ranunculus</i>	<i>acris</i>	Buttercup	NZ479254
<i>Anthriscus</i>	<i>sylvestris</i>	Cow Parsley	NZ479254
<i>Tragopogon</i>	<i>pratensis</i>	Goat's-beard	NZ479254
<i>Trifolium</i>	<i>pratense</i>	Red Clover	NZ479254
<i>Trifolium</i>	<i>repens</i>	White Clover	NZ479254
<i>Melilotus</i>	<i>officinalis</i>	Common Melilot	NZ479254
<i>Lotus</i>	<i>corniculatus</i>	Birdsfoot-trefoil	NZ479254
<i>Vicia</i>	<i>cracca</i>	Tufted Vetch	NZ479254
<i>Lathyrus</i>	<i>pratensis</i>	Meadow Vetchling	NZ479254
<i>Prunella</i>	<i>vulgaris</i>	Self-heal	NZ479254
<i>Vicia</i>	<i>sepium</i>	Bush Vetch	NZ479254
<i>Veronica</i>	<i>chamaedrys</i>	Germander Speedwell	NZ479254
<i>Alchemilla</i>	<i>filicaulis</i>	Lady's Mantle	NZ479254
<i>Medicago</i>	<i>lupulina</i>	Black Medick	NZ479254
<i>Glechoma</i>	<i>hederacea</i>	Ground Ivy	NZ479254
<i>Bellis</i>	<i>perennis</i>	Daisy)	NZ479254
<i>Cirsium</i>	<i>arvense</i>	Creeping Thistle	NZ479254
<i>Leucanthemum</i>	<i>vulgare</i>	Ox-eye Daisy	NZ479254
<i>Geranium</i>	<i>robertianum</i>	Herb Robert	NZ479254
<i>Lamium</i>	<i>album</i>	White Deadnettle	NZ479254
<i>Cirsium</i>	<i>vulgare</i>	Spear Thistle	NZ479254
<i>Dipsacus</i>	<i>fullonum</i>	Teasel	NZ479254
<i>Silene</i>	<i>dioica</i>	Red Campion	NZ479254
<i>Lychnis</i>	<i>flos-cuculi</i>	Ragged Robin	NZ479254
<i>Sonchus</i>	<i>asper</i>	Prickly Sowthistle	NZ479254
<i>Epilobium</i>	<i>angustifolium</i>	Rosebay Willowherb	NZ479254
<i>Myosotis</i>	<i>arvensis</i>	Common Forget-me-not	NZ479254
<i>Centaurea</i>	<i>nigra</i>	Lesser Knapweed	NZ479254
<i>Rubus</i>	<i>fruticosus</i>	Bramble	NZ479254
<i>Dactylorhiza</i>	<i>purpurella</i>	Northern Marsh Orchid	NZ479254
<i>Dactylorhiza</i>	<i>fuchsii</i>	Common Spotted Orchid	NZ479254
<i>Rosa</i>	<i>canina</i>	Dog Rose	NZ479254
<i>Cytisus</i>	<i>scoparius</i>	Broom	NZ479254
<i>Acer</i>	<i>campestre</i>	Field Maple	NZ479254

Saturday, 25th June, 11:00 am, Teesdale Railway, GR NY968233, leaders Maggie and Graeme Boyd

It was a cool clear day with patchy dark clouds when the party met on the Tees Railway Path at Mickleton, to walk westwards to the viaduct and back. There were large numbers of bees and other insects foraging amongst Raspberries. *Arianta arbustorum* (Copse Snail), *Bombus pascuorum* (Common Carder Bee), *Bombus hypnorum* (Tree Bumblebee), *Apis mellifera* (Honey Bee), *Pieris napi* (Green-veined White), *Odezia atrata* (Chimney Sweeper) and *Rhogogaster viridis* were noticeable.

Rhogogaster viridis



Wednesday, 29th June, 10:30 am, Bishop Middleham Quarry, GR NZ332337, leaders Mark & Hazel Stokeld

This was a cool, wet, overcast day threatening heavy rain which eventually arrived. The *Epipactis atrorubens* (Dark Red Helleborine) were not quite in flower. There were some possible bee burrows at the North end of the quarry in low banks.

Carduus nutans (Musk Thistle)



Sunday, 3rd July, 10:30 am, Brocadale, GR SE514173, leader Eric Gendle

A party of 10 enjoyed a rewarding day in Brocadale Nature Reserve. Walking from the car park many *Anacamptis pyramidalis* (Pyramidal orchid) and *Campanula glomerata* (Clustered Bellflower) were in the adjoining field. Entering the reserve and following the gentle descent revealed many *Melanargia galathea* (Marbled White) amongst the meadow. At the foot of the hill *Dactylorhiza fuchsii* (Common Spotted Orchid) and a few *Ophrys apifera* (Bee Orchid) were present. The party crossed the narrow stream and explored the north facing meadow revealing more Bee Orchids and a few *Argynnis aglaja* (Dark Green Fritillary), and had lunch there. After lunch the party returned to and crossed the stream, before climbing steadily through the woodland to an unexpected glade which offered the photographers ample opportunities for photographing the many Dark Green Fritillaries and *Ochlodes venata* (Large Skipper) nectaring on the thistles. Further on another large meadow with large stands

of brambles gave further photo opportunities. From the wood, the party returned to the streamside looking for *Agrion splendens* (Banded Demoiselle). The first stopping point proved difficult since the Demoiselles were mainly beyond the stream. A short woodland walk emerged into a field with ample perching points for the Demoiselles before the stream and many images were caught. On the opposite bank an eroded limestone cliff had provided a nesting site for a Kestrel and a chick could be clearly seen. The party returned, satisfied, to the cars, the weather having been mainly sunny throughout the exploration of a superb site.

Plants of Note *Helianthemum nummularium* (Rockrose), *Rosa arvensis* (Field Rose), *Dact. fuchsia* (Common Spotted Orchid), *Anacamptis pyramidalis* (Pyramidal Orchid), *Ophrys apifera* (Bee Orchid), *Neottia ovata* (Common Twayblade), *Centaureum erythraea* (Common Centaury), *Scrophularia nodosa* (Water Figwort), *Campanula glomerata* (Clustered Bellflower), *Aconitum napellus* (Monkshood), *Symphytum officinale* (Common Comfrey), *Bryonia dioica* (White Briony), *Anagallis arvensis* (Scarlet Pimpernel), *Lithospermum officinale* (Common Gromwell), *Solanum dulcamara* (Woody Nightshade), *Buxus sempervirens* (Box), *Ligustrum vulgare* (Privet), *Taxus baccata* (Yew), *Quercus cerris* (Turkey Oak).

Insects of Note *Melanargia galathes* (Marbled White), *Argynnis aglaja* (Dark Green Fritillary), *Ochlodes veneta* (Large Skipper), *Thymelicus sylvestris* (Small Skipper), *Aphantopus hyperantus* (Ringlet), *Aglais urticae* (Small Tortoiseshell), *Pararge aegeria* (Speckled Wood), *Maniola jurtina* (Meadow Brown), *Gonepteryx rhamni* (Brimstone), *Cynthia cardui* (Painted Lady), *Odezia atrata* (Chimney Sweeper), *Lestes sponsa* (Emerald Damselfly), *Agrion splendens* (Banded Demoiselle), Mirid Bug

. Some time was spent observing basking common Lizards.

Melanargia galathea (Marbled White)



Anacamptis pyramidalis (Pyramidal Orchid)



Lithospermum officinale (Common Gromwell)



Saturday, 9th July, 10:30 am, Ashberry, GR SE571844, leader Tony Wardhaugh

This was the YNU VC 62 meeting and will be reported in YNU publications in due course.

Sunday, 10th July, 10:30 am, Balder Valley, GR NY966192, leader Malcolm Birtle

This meeting took place on a cool overcast day with successive rain showers blowing in from the West. We walked West along the public road past Blackton, to Birk Hat and Hannahs Meadow, returning along the road on the North side, and across the dam. Some Bumblebees were active and there were some potential solitary bee burrows in a meadow adjacent to the South road. It was too cool and wet for any significant bee activity. Nevertheless the following bees and other species were encountered-*Haematopus ostralegus* (Oystercatcher), *Bombus lucorum* (White Tailed Bumblebee), *Bombus hortorum* (Garden Bumblebee), *Cepaea hortensis* (White-lipped Banded Snail), *Arion ater* (Large Black Slug), *Bombus pascuorum* (Common Carder Bee), *Gallinago gallinago* (Snipe), *Xanthorhoe montanata montanata* (Silver Ground Carpet), *Dolichovespula sylvestris* (Tree Wasp), *Puccinia caricina* (Nettle Clustercup Rust), *Odezia atrata* (Chimney Sweeper), *Aphantopus hyperantus*

(Ringlet), *Bufo bufo* (Common Toad), *Leptopterna dolabrata* (Meadow Plant Bug), *Artogeia napi* (Green-veined White), *Haematopota pluvialis* (Cleg), *Coenonympha pamphilus* (Small Heath), *Maniola jurtina* (Meadow Brown), *Bombus terrestris* (Buff Tailed Bumblebee), *Trochulus striolatus* (Strawberry Snail) ,

Between West Briscoe and Willoughby Hall



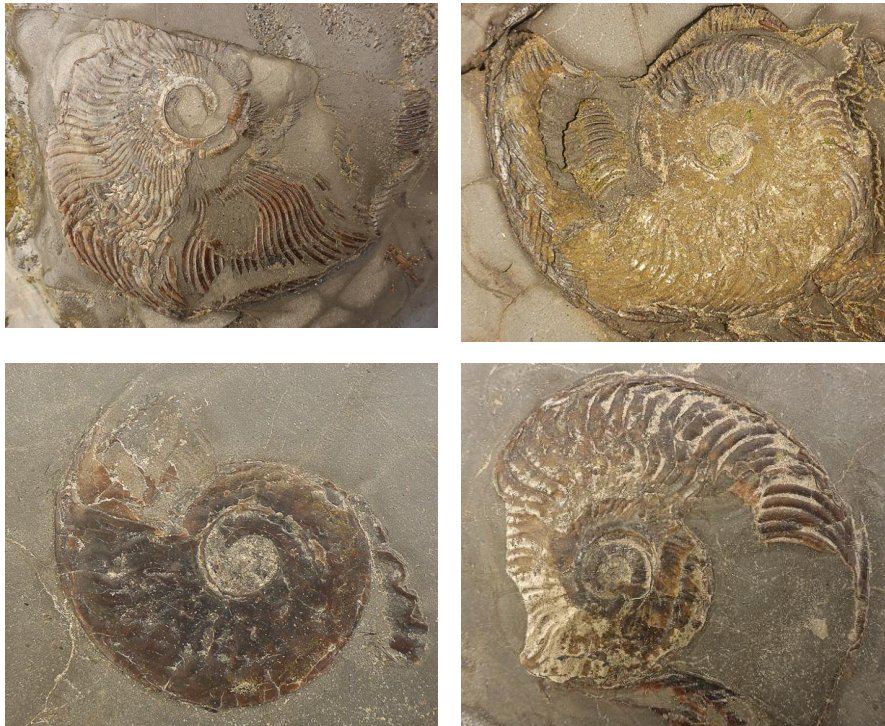
Sunday, 17th July, 10:30 am, Five Pikes, GR NY966306, leader Malcolm Birtle

The party met on a cool, windy, clear day with thin cloud at the head of Sharnberry Gill on the Eggleston-Stanhope road. We walked west down the gill for about 400 yards, returned for lunch and then walked across to the reservoir on White Hill. A raptor, probably Red Kite, was watched quartering the fell side in Little Egglestone. Some remarkable examples of fasciated *Cirsium palustre* (Marsh Thistle) were found in Little Egglestone. Species noted-

Arion ater (Large Black Slug), *Drosera rotundifolia* (Round-leaved Sundew), *Epilobium brunnesens* (New Zealand Willow-herb), *Narthecium ossifragum* (Bog Asphodel), *Artogeia napi* (Green-veined White), *Coenonympha pamphilus* (Small Heath), *Bombus monticola* (Bilberry Bumblebee), *Dolichovespula sylvestris* (Tree Wasp), *Volucella bombylans* (), *Ranunculus hederaceus* (Ivy-leaved Crowfoot), *Cinclus cinclus* (Dipper), *Pluvialis apricaria* (Golden Plover), *Oenanthe oenanthe* (Wheatear), *Cirsium palustre* (Marsh Thistle), *Tachina grossa*, *Lasiocampa quercus callunae* (Northern Eggar), *Cirsium palustre* (Marsh Thistle), *Lycophotia porphyrea* (True Lovers Knot),

Saturday, 23rd July, 11:00 am, Runswick Bay, GR NZ810160, leader Jo Scott

We had another successful day searching the rock pools, recording all the marine life that is usually recorded here. We also spent some time looking at the geology of the cliffs working out the different levels based on the fossil ammonites found.



Some of the different fossils found in the geological layers

Wednesday, 27th July, 6:30 pm, Scaling Dam, GR NZ740125, leader Vic Fairbrother

Thirteen members met in the car park at the west end of Scaling Dam for a moorland edge walk on a pleasant summer evening. The path led through a small conifer plantation, along a grassy lane, through an extensive marshy area and out on to the open moor. The route and a description of interesting plants was one of several provided by club members for *Wildflower Walks in the Lower Tees Valley*, published by The Wildflower Ark with the support of the Heritage Lottery Fund in 2007.

We were interested to see whether there had been any changes in the decade since the walk was described.

The tall frothy displays of almond scented *Filipendula ulmaria* (Meadowsweet) were still prominent as were the spiny *Cirsium palustre* (Marsh Thistles). As we descended the grassy lane splashes of yellow revealed *Ranunculus flammula* (Lesser Spearwort) but we did not locate any *Anagallis tenella* (Bog Pimpernel) until we entered the path through the nature reserve. *Achillea ptarmica* (Sneezewort) and the aromatic *Mentha aquatica* (Water Mint) were conspicuous here but not so *Listera ovata* (Common Twayblade) and any spikes were well hidden in the rather lush vegetation away from the path.

On the open moor *Erica cinerea* (Bell Heather) and *Erica tetralix* (Cross-leaved Heath) provided contrasting purple and rose pink splashes of colour whilst the much more abundant *Calluna vulgaris* (Ling) was close to blooming.

We were delighted to find the uncommon *Potentilla palustris* (Marsh Cinquefoil) still in flower in the reserve. This was not mentioned in the booklet but was recorded by the club in 2005. *Dactylorhiza fuchsii* (Common Spotted Orchid) was also present in good numbers. *Pedicularis palustris* (Marsh Lousewort) which had been previously recorded in 2003 was also noted.

Despite sunny spells a rather cool evening restricted Lepidoptera sightings to *Maniola jurtina* (Meadow Brown) and *Polyommatus icarus* (Common Blue) butterflies and one *Noctua pronuba* (Large Yellow Underwing) Moth.

We were surprised to meet *Erinaceus europaeus* (Hedgehog) on the grassy lane and a pair of *Saxicola torquatus* (Stonechat) were feeding fledged young on the edge of the moor.

Potentilla palustris (Marsh Cinquefoil)



Wednesday, 3rd August, 10:30 am, Coatham Stob, GR NZ398152, leaders Mark and Hazel Stokeld

A very quiet cool day with little activity. Notable species recorded were-*Gillmeria pallidactyla* (Yarrow Plume), *Lestes sponsa* (Emerald Damselfly), and *Ranunculus lingua* (Greater Spearwort),

Gillmeria pallidactyla (Yarrow Plume)



Ranunculus lingua (Greater Spearwort)



Saturday, 6th August, 10:30 am, Bowesfield, GR NZ444167, leader Jo Scott

A Joint Outing with Cleveland Naturalists Field Club and Darlington Naturalists.



Dactylorhiza fuchsii
(Common spotted Orchid)

We had a very enjoyable day with several members of Darlington Naturalists, firstly looking around Bowesfield Ponds then walking along the riverside to Preston Park. After having a picnic lunch we followed a slightly different route back. In all over 200 species of plants, butterflies, birds and insects were recorded – a very successful day! Active burrows of *Colletes daviesanus* were found in the riverbank (NZ 44361 15607). The temperature was recorded as 20C.

Colletes daviesanus



Nesting site of *Colletes daviesanus*



Wednesday, 10th August, 10:30 am, Skinningrove, GR NZ711196, leaders Dave and Jackie Barlow

This was a warm, sunny, clear day. The group walked from St Hildas Church to the Slag Cliff Tops, then down to the sand dunes, returning up the ironworks incline from the pier. *Erodium moschatum* (Musk Storksbill) was examined in the church car park, *Catapodium maritimum* (Sea Fern Grass) on the cliff top and *Sagina maritima* (Sea Pearlwort) on the Eastern breakwater. In addition, the following were seen *Pimpinella saxifraga* (Burnet-saxifrage), *Bromus inermis* (Hungarian brome), *Rubus caesius* (Dewberry), *Bombus lapidarius* (Red Tailed Bumblebee), *Bombus lucorum* (White Tailed Bumblebee), *Bombus pascuorum* (Common Carder Bee), *Maniola jurtina* (Meadow Brown), *Hipparchia semele* (Grayling), *Thymelicus flavus* (Small Skipper), *Coenonympha pamphilus* (Small Heath), *Lasiommata megera* (Wall), *Polyommatus icarus* (Common Blue), *Tyria jacobaeae* (The Cinnabar), *Ischnura elegans* (Blue-tailed Damselfly), and *Saxicola rubicola* (Stonechat).

Hipparchia semele (Grayling)



Saturday, 13th August, 10:30 am, Strensall Common, GR SE648611, leader Bill Hall
Cleveland Naturalists Field Club / Yorkshire Dragonfly Group Joint Field Meeting

This joint meeting was attended by 7 Cleveland Naturalists Field Club members, with a further 15 participants made up of Yorkshire Dragonfly Group members and others who had seen notices of the meeting on the YDG Facebook page, making a very good grand total of 22! The weather was sunny throughout the day.

Starting from the car park on Lords Moor Lane the group checked a nearby pond before heading across the common to World's End. This latter area was very productive and included sightings of *Erythromma viridulum* (Small Red-eyed Damselfly), a potential new coloniser of the site. A total of 14 species were seen including:-

Emerald Damselfly (*Lestes sponsa*)
Large Red Damselfly (*Pyrrhosoma nymphula*)
Azure Damselfly (*Coenagrion puella*)
Common Blue Damselfly (*Enallagma cyathigerum*)
Blue-tailed Damselfly (*Ischnura elegans*)
Small Red-eyed Damselfly (*Erythromma viridulum*)
Common Hawker (*Aeshna juncea*)
Southern Hawker (*Aeshna cyanea*)
Brown Hawker (*Aeshna grandis*)
Four-spotted Chaser (*Libellula quadrimaculata*)
Black-tailed Skimmer (*Orthetrum cancellatum*)
Black Darter (*Sympetrum danae*)
Common Darter (*Sympetrum striolatum*)
Ruddy Darter (*Sympetrum sanguineum*)

There was plenty of opportunity for photographs. It was very noticeable that in many areas of World's End birch was encroaching and scrub clearance was needed and probably overdue. Of botanical interest were the striking blue Marsh Gentian (*Gentiana pneumonanthe*) and the diminutive Lesser Skullcap (*Scutellaria minor*), showing its tiny foxglove like flowers.

Wednesday, 17th August, 6:30 pm, Tilery and Brierley Woods, GR NZ403284, leader Malcolm Birtle

The evening was sunny, warm and clear. We walked from the car park on the A689 and examined newly felled areas of the wood, and the track margins where we found at least 25 spikes of *Epipactis helleborine* (Broad Leaved Helleborine). (NZ3927). Other species noted were *Philaenus spumarius* (Froghopper), adult (NZ3927), *Aeshna juncea* (Common Hawker), *Bombus lapidarius* (Red Tailed Bumblebee), *Bombus pascuorum* (Common Carder Bee), *Garrulus glandarius* (Jay), *Hypericum humifusum* (Trailing St. Johns-wort), *Dryopteris dilatata* (Broad Buckler-fern / Common Buckler-fern), *Rubus idaeus* (Raspberry), *Veronica beccabunga* (Brooklime), *Capreolus capreolus* (Roe deer), *Arion intermedius* (Hedgehog Slug), *Limax maximus* (Great Grey Slug), *Cepaea nemoralis* (Brown-lipped Banded Snail), and *Arion ater* (Large Black Slug).

Epipactis helleborine (Broad-leaved Helleborine)



Wednesday, 24th August, 1:30 pm, Eston Moor, GR NZ551168, leader Tony Wardhaugh

The party walked from Flatts Lane to Moordale Bog and Eston Nab on a nice warm day and saw *Pavonia pavonia* (Emperor), *Epistrophe nitidicollis*, *Autographa gamma* (Silver Y), *Sympetrum striolatum* (Common Darter), *Accipiter nisus* (Sparrowhawk), *Rana temporaria* (Frog), *Aeshna cyanea* (Southern Hawker), *Sympetrum striolatum* (Common Darter), *Enallagma cyathigerum* (Common Blue Damselfly), *Pararge aegeria* (Speckled Wood), *Coenonympha pamphilus* (Small Heath), *Aglais io* (Peacock), *Maniola jurtina* (Meadow Brown), *Autographa gamma* (Silver Y), *Haemopsis sanguisuga* (Horse Leech) at Carr Pond, *Potentilla palustris* (Marsh Cinqfoil) at Carr Pond and Basin Mire, *Hydrocotyle vulgaris* (Marsh Pennywort) at Carr Pond, *Drosera rotundifolia* at Basin Mire (Round-leaved Sundew), *Angelica sylvestris* (Wild Angelica), *Odontites vernus* (Red Bartsia), Also, recorded by Daphne Aplin: nymph of the plant bug *Megaloceroea relicticornis* and *Piezodorus lituratus* (Gorse Shieldbug), *Pavonia pavonia* (Emperor),



Sunday, 4th September, 10:30 am, Commondale Moorland, GR NZ663105, leader Andy Astbury

The day did not set fair. Low cloud, drizzle and rain greeted us at the church car park in Commondale. We set off through the village, squelching the wet ground to Hob Hill. We then followed the Quakers Causeway to Brown Hill and downhill to our starting point. The rain ceased at Brown Hill and the Bumble bees *Bombus lucorum* and *Bombus terrestris* were active on the remaining heather flowers. A larva of *Lasiocampa quercus* (Northern Eggar) was noted.

Wet weather, Rabbit Hills



Quakers Causeway



Saturday, 10th September, 10:30 am, Eggleston to Cotherstone, GR NY999237, leader Neil Baker

Wednesday, 14th September, 11:00 am, Margrove and Boosbeck, GR NZ653157, leader Alan Simkins

This was a joint meeting with the Tees Valley RIGS Group.

Wednesday, 12th October, 10:30 am, Cowpen Bewley Woodland Park, GR NZ479254, leader Neil Baker

Saturday, 22nd October, 11:00 am, Flatts Lane Country Park, GR NZ551168, leader Alan Simkins

This was a joint fungus foray with the NEFSG.

Bitten by Bugs
A Personal Encounter with the Hemiptera of Cowpen Bewley Woodland Park.
By Daphne Aplin.



Witnessing a swarm of black and red 5mm *Ischnodemus sabuleti* (European Cinchbug) nymphs and adults erupting from the reed beds of the Cowpen Bewley Woodland Park carpark ponds on 11/7/2014 (Grid Ref NZ479253) sparked my interest in this fascinating order of insects. Interestingly, none were seen this year (2016). European Cinchbugs belong to the Groundbug family Lygaeidae and are classed as True Bugs. I have found the British Bugs website –

www.britishbugs.org.uk/gallery.html a brilliant starting point in my search for information. I appreciate that a lot of bugs are very similar in appearance and habitat and can only be determined by dissection but host plant, location and time of year are also good indicators to identification.

The order Hemiptera (bugs) is divided into two sub-orders: Homoptera covering all plant and leaf hoppers, white flies, scale insects, aphids and jumping plant lice and the Heteroptera covering the True Bugs, both terrestrial and aquatic. Homoptera are all plant feeders, whereas True Bugs have evolved to exploit a more varied diet. This ranges from taking blood meals (like bed bugs and bat bugs), to feeding on a wide range of other invertebrates (mostly soft-bodied such as caterpillars and other insect larvae, as well as other True Bugs such as aphids etc.) and plant materials like sap, fruit and seeds. What these two sub-orders do have in common however is a sucking mouth part called a rostrum through which they feed. This ‘beak-like’ structure cannot be retracted but is held under the body when not in use. The insects in these two sub-orders differ widely in body shape as well as size, which can be anything from about 2mm to 15mm. They can be found, in one form or another, throughout the year.

Some other things I have learned about True Bugs are that, as with some species of hoppers, their wings can be short (micropterous), long (macropterous) or of intermediate length (brachypterous) and that they differ from many other insects because they do not undergo a pupal stage. They are therefore referred to as hemimetabolous insects (undergoing incomplete metamorphosis). Nymphs usually develop in five stages called instars. At each stage they moult and become progressively larger until by the final moult they are a similar size to the adult. The nymphs of most bugs do resemble adults but are different in one main respect – they do not have developed wings. Instead they have wing buds that lie flat on each side of the abdominal dorsum which grow slightly longer upon each moult. Although very few species of bugs “bite” I have actually been “bitten” on occasion, probably by plant bugs. Though, technically, bugs do not have any biting mouth parts as such – the rostrum is needle like and sharp and can (and does) draw blood when the skin is pierced. It doesn’t particularly hurt and I feel it is a small price to pay for pleasure I get out of searching for them



The Park itself covers around 250 acres and the part that I usually frequent sounds a bit unprepossessing. It is edged on one side by a railway track, on the other by a Water Treatment works and bisected by the A1185 Seal Sands road. National Grid pylons also cross it. It started life as agricultural land, became a brick works and then a Council refuse tip. It achieved local nature reserve status in 1996 and is managed by Stockton Borough Council. There is a lake, three becks crossed by wooden bridges, several ponds with good numbers of Newts and flower rich meadows which are cut annually. The woodland is a good mix of trees of varying ages. Grass rides criss-cross the site, so there is an abundance of different types of habitats and plants that support a wide range of insects, particularly bugs. It is a superb site for bird watchers. There are 23 recorded species of Butterflies as well as 16 species of Damselflies and Dragonflies. A wide range of wildlife including deer, fox, stoats and weasels are regularly seen.

I was rather surprised to learn from the Environmental Records Information Centre that up to July 2016, apart from records of 23 Aquatic bugs, there was only 1 record of a True bug on the site. That was of the very common red and black froghopper *Cercopis vulnerata* by Ian Bond in 2007. My only record of the Aquatic bug *Notonecta glauca* (Backswimmer) was at one of the Newt ponds on 2/8/2014 where I saw one swimming erratically. As I took a photograph of it a parasite emerged from one of its eyes!.



Up to the end of December, 2016 the small area marked on the map Grid Ref:NZ481255 is where I recorded 48 Terrestrial bugs. The one Aquatic bug was found at one of the newt ponds Grid Ref:483256, so there is still plenty of park to search and potentially a lot of bugs to find!!

An examination of records on the National Biodiversity Network Gateway (data.nbn.org.uk) was carried out in January 2017. This revealed that the database contains very few, if any,

records in Co. Durham for seven species found at Cowpen Bewley. These are

Compsidolon salicellum

Eupterycyba jucunda

Linnavuoriana sexmaculata

Megaloceroea recticornis





Metidiocerus rutilans






Populicerus albicans






Tingis ampliati








Acknowledgements





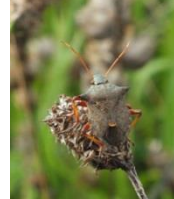


I have had invaluable help and support from the National Heteroptera recorder, Jim Flanagan, whose patience and expertise has been endless, and the Environmental Records Centre North East (ERIC), Jim Flanagan, Dr. A.J.A. Stewart, Dr. T. Bantock, Malcolm Birtle and Stockton Borough Council. To the best of my knowledge the other identifications are correct.








Genus	Species	Authority	Vernacular	No.	Life Stage	Habitat	Date	Recorder	Verifier	Figure
SUB-ORDER HOMOPTERA SUPERFAMILY: Psylloidea SUBFAMILY: Spondylaspidia										
<i>Psylla</i>	<i>alni</i>	(Linnaeus, 1758)		1	Adult	Alder	14/7/16	D.Aplin		
FAMILY: Cercopidae (Froghoppers)										
<i>Cercopis</i>	<i>vulnerata</i>	(Illiger in Rossi, 1807)		1	Adult		10/6/12	I.Bond		
				1	Adult	Vegetation	25/5/14	D.Aplin	A.Stewart	
FAMILY: Aphrophidae (Froghoppers)										
<i>Aphrophora</i>	<i>alni</i>	(Fallen, 1805)		3	Adult	Alder	9/7/16	D.Aplin	A.Stewart	
<i>Philaenus</i>	<i>spumarius</i>	(Linnaeus, 1758)	Common Froghopper	1	Adult	Birch	1/8/16	D.Aplin	A.Stewart	

FAMILY: Cicadellidae (Leafhoppers)										
SUBFAMILY: Idiocerinae										
<i>Idiocerus</i>	<i>sp.</i>			1	Nymph	Poplar	12/8/16	D.Aplin	A.Stewart	
<i>Metidiocerus</i>	<i>rutilans</i>	(Kirschbaum, 1868)		1	Adult	Oak	29/11/16	D.Aplin	A.Stewart	
<i>Populicerus</i>	<i>albicans</i>	(Kirschbaum, 1868)		2	Breeding pair	Poplar	16/8/16	D.Aplin	A.Stewart	
SUBFAMILY: Macropsinae										
<i>Oncopsis</i>	<i>sp.</i>			1	Nymph	Birch	1/8/16	D.Aplin	A.Stewart	
SUBFAMILY: Aphrodinae										
<i>Aphrodes</i>	<i>makarovi</i>	(Zakhvatkin, 1948)		1	Adult	Nettle	5/7/16	D.Aplin	A.Stewart	

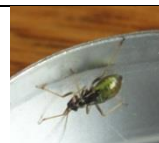






SUBFAMILY: Typhlocybinae										
TRIBE: Typhlocybini										
<i>Kybos</i>	<i>sp.</i>			1	Adult Female	Poplar	25/11/16	D.Aplin	A.Stewart	
<i>Eupterycyba</i>	<i>jucunda</i>	(Herrich-Schaffer, 1837)		1	Adult	Alder	22/7/16	D.Aplin	A.Stewart	
<i>Linnavuoriana</i>	<i>sexmaculata</i>	(Edwards, 1850)		1	Adult	Alder	26/11/16	D.Aplin	A.Stewart	
TRIBE: Erythroneurini										
<i>Zygina</i>	<i>sp</i>			1	Adult	Hawthorn	25/11/16	D.Aplin	A.Stewart	
SUBFAMILY: Cixiidae (Lacehoppers)										
<i>Cixius</i>	<i>nervosus</i>	(Linnaeus, 1758)		1	Adult	Alder	5/7/16	D.Aplin	A.Stewart	




SUB-ORDER HETEROPTERA SUBFAMILY: Acanthosomatidae										
<i>Acanthosoma</i>	<i>haemorrhoidale</i>	(Linnaeus, 1758)	Hawthorn Shieldbug	1	Adult Autumn colour	Hawthorn	5/11/15	D.Aplin	J.Flanagan	
				1	Adult Spring colour	Hawthorn	16/6/16	D.Aplin	T.Bantock	
				1	Final instar	Hawthorn	6/9/16	D.Aplin	T.Bantock	
<i>Elasmotethus</i>	<i>interstinctus</i>	(Linnaeus, 1758)	Birch Shieldbug	1	Adult	Birch	18/8/16	D.Aplin	T.Bantock	
				1	Final instar	Birch	5/9/16	D.Aplin	T.Bantock	
<i>Elasmucha</i>	<i>grisea</i>	(Linnaeus, 1758)	Parent Bug	1	Final instar	Vegetation	17/8/15	D.Aplin	T.Bantock	
				1	Adult Male	Blackthorn	13/6/16	D.Aplin	T.Bantock	






				1	Adult Female and early instars	Birch	18/8/16	D.Aplin	T.Bantock		
SUBFAMILY: Pentatomidae											
<i>Palomena</i>	<i>prasina</i>	(Linnaeus, 1761)	Common Green Shieldbug	1	Adult Winter colour	Hazel	16/11/16	D.Aplin	T.Bantock		
<i>Pentatoma</i>	<i>rufipes</i>	(Linnaeus, 1758)	Red-legged Shieldbug	1	Mid instar	Vegetation	1/6/16	D.Aplin	T.Bantock		
<i>Picromerus</i>	<i>bidens</i>	(Linnaeus, 1758)	Spiked Shieldbug	1	First instars	Vegetation	10/6/14	D.Aplin	T.Bantock		
				1	Adult	Vegetation	3/8/14	D.Aplin	T.Bantock		
<i>Troilus</i>	<i>luridus</i>	(Fabricius, 1775)	Bronze Shieldbug		Eggs and first instars	Birch	14/7/16	D.Aplin	T.Bantock		
				1	Final instar	Birch	6/9/16	D.Aplin	T.Bantock		



				1	Adult	Birch	14/10/16	D.Aplin	T.Bantock		
FAMILY: Coreidae											
<i>Leptoglossus</i>	<i>occidentalis</i>	(Heidemann, 1910)	Western Conifer Seed Bug	1	Adult	Grass	21/1/11	D.Aplin	J.Flanagan		
SUBFAMILY: Anthocoridae											
<i>Anthocoris</i>	<i>nemorum</i>	(Linnaeus, 1761)		1	Adult	Grass	5/11/15	D.Aplin	J.Flanagan		
SUBFAMILY: Lygaeidae (Groundbugs)											
SUBFAMILY: Blissinae											
<i>Ischnodemus</i>	<i>sabuleti</i>	(Fallen, 1807)	European Cinchbugs		Nymphs and Adults	Reeds	11/7/14	D.Aplin	J.Flanagan		
SUBFAMILY: Artheneinae											
<i>Chilacis</i>	<i>typhae</i>	(Perris, 1857)		2	Adult	Reedmace	24/12/16	D.Aplin	J.Flanagan		
SUBFAMILY: Ischnorhynchinae											
<i>Kleidocerys</i>	<i>resedae</i>	(Panzer, 1797)	Birch Catkin Bug	1	Adult	Birch	14/11/15	D.Aplin	J.Flanagan		
				1	Nymph	Birch	16/9/16	D.Aplin	J.Flanagan		
SUBFAMILY: Miridae (Plantbugs)											
<i>Blepharidopterus</i>	<i>angulatus</i>	(Fallen, 1807)	Black Knead Capsid	1	Adult	Alder	4/8/16	D.Aplin	J.Flanagan		

				1	Nymph	Alder	5/8/16	D.Aplin	J.Flanagan		
<i>Campyloneura</i>	<i>virgula</i>	(Herrich-Schaffer, 1835)		1	Adult	Lime	26/7/16	D.Aplin	J.Flanagan		
<i>Capsus</i>	<i>ater</i>	(Linnaeus, 1758)		1	Adult	Grass	26/6/16	D.Aplin	J.Flanagan		
<i>Compsidolon</i>	<i>salicellum</i>	(Herrich-Schaffer, 1841)		1	Adult	Hazel	23/8/16	D.Aplin	J.Flanagan		
<i>Deraeocoris</i>	<i>flavilinea</i>	(A. Costa, 1862)		1	Adult	Hazel	7/7/15	D.Aplin	J.Flanagan		
<i>Deraeocoris</i>	<i>lutescens</i>	(Schilling, 1837)		1	Adult	Hazel	21/8/16	D.Aplin	J.Flanagan		
				1	Nymph	Hazel	21/8/16	D.Aplin	J.Flanagan		
<i>Dicyphus</i>	<i>epilobii</i>	(Reuter, 1883)		1	Adult	Hairy Willowherb	13/8/15	D.Aplin	J.Flanagan		

<i>Grypocoris</i>	<i>stysi</i>	(Wagner, 1968)		1	Nymph	Nettle	19/6/15	D.Aplin	J.Flanagan		
				1	Adult	Nettle	6/7/15	D.Aplin	J.Flanagan		
<i>Heterotoma</i>	<i>planicornis</i>	(Pallas, 1772)		1	Adult	Hazel	25/7/16	D.Aplin	J.Flanagan		
<i>Leptopterna</i>	<i>dolabrata</i>	(Linnaeus, 1758)		1	Adult Female	Grass	19/6/15	D.Aplin	J.Flanagan		
				1	Nymph	Grass	26/6/16	D.Aplin	J.Flanagan		
				1	Adult Male	Grass	27/6/16	D.Aplin	J.Flanagan		
<i>Liocoris</i>	<i>tripustulatus</i>	(Fabricius, 1781)		1	Adult	Nettle	27/6/16	D.Aplin	J.Flanagan		

				1	Nymph	Nettle	18/8/16	D.Aplin	J.Flanagan		
<i>Malacocoris</i>	<i>chlorizans</i>	(Panzer, 1794)	Delicate Apple Capsid	1	Adult	Hazel	21/8/16	D.Aplin	J.Flanagan		
<i>Megaloceroea</i>	<i>recticornis</i>	(Geoffroy, 1785)		1	Nymph	Grass	26/6/16	D.Aplin	J.Flanagan		
<i>Orthotylus</i>	<i>marginalis</i>	(Reuter, 1883)	Dark Green Apple Capsid	1	Adult	Hazel	9/7/16	D.Aplin	J.Flanagan		
<i>Pantilius</i>	<i>tunicatus</i>	(Fabricius, 1781)		1	Adult	Alder	7/9/16	D.Aplin	J.Flanagan		
				1	Nymph	Alder	7/9/16	D.Aplin	J.Flanagan		
<i>Phylus</i>	<i>coryli</i>	(Linnaeus, 1758)		1	Adult	Hazel	16/8/16	D.Aplin	J.Flanagan		

<i>Plagiognathus</i>	<i>arbustorum</i>	(Fabricius, 1794)		1	Adult	Hazel	31/7/16	D.Aplin	J.Flanagan		
				1	Nymph	Hazel	6/8/16	D.Aplin	J.Flanagan		
<i>Psallus</i>	<i>ambiguus</i>	(Fallen, 1807)		1	Adult Female	Alder	15/7/16	D.Aplin	J.Flanagan		
<i>Rhabdomiris</i>	<i>striatellus</i>	(Fabricius, 1794)		1	Adult	Vegetation	15/6/15	D.Aplin	J.Flanagan		
<i>Stenodema</i>	<i>laevigata</i>	(Linnaeus, 1758)		1	Nymph	Grass	13/8/15	D.Aplin	J.Flanagan		
				1	Adult	Grass	26/6/16	D.Aplin	J.Flanagan		

SUBFAMILY: Nabidae (Damselfbugs)										
<i>Nabis</i>	<i>flavomarginatus</i>	(Scholtz, 1847)	Broad Damselfbug	1	Nymph	Grass	27/6/16	D.Aplin	J.Flanagan	
SUBFAMILY: Tingidae (Lacebugs)										
<i>Tingis</i>	<i>ampliati</i>	(Linnaeus, 1758)	Creeping Thistle Lacebug	2	Adult	Nettle	30/4/15	D.Aplin	J.Flanagan	
WATERBUGS										
SUBFAMILY: Notonectidae										
<i>Notonecta</i>	<i>glaucia</i>	(Linnaeus, 1758)	Backswimmer	1	Adult	Newt pond	2/8/14	D.Aplin		

LED Moth Trapping

Eric Gendle

PLEASE NOTE THAT THE UV LED, THOUGH NOT APPEARING VERY BRIGHT, EMITS UV LIGHT WHICH WILL CAUSE SERIOUS EYE DAMAGE. SUITABLE PROTECTIVE GLASSES SHOULD BE WORN AND CAN BE PURCHASED FROM PAUL BATTY AND PROBABLY ELSEWHERE.

INTRODUCTION

I have been trapping in a YWT wood north of Helmsley for several years, using the usual system of a 125watt MV bulb suspended below a tripod over a large white sheet and identifying the moths as they arrive and settle on the sheet. The wood is a semi natural wood on a hillside with a little used rough public footpath through it. I have a rather heavy generator and using a simple sack barrow, manage to drag it about 100 yards into the wood where I trap for about 3 hours before bed calls. As a result most of the wood and most of the night is un-trapped and later flyers are not found. Seeing the Moonlander trap in use in Spain on holiday pointed to a solution, but the price of £250 coupled with poor reports on its use in England was discouraging.

A POSSIBLE SOLUTION

Searching the web I came across an encouraging blog by Peter Mobbs on LEDs. From his comments regarding the response of moth eyes to different light wavelengths and his comments on LEDs it seemed possible to create a light source of 3 LEDs, a green, a blue and a UV emitter which cost under £5.00 in total, and power it by a small 7 amp hour 12volt lead acid battery that could be bought at SCREWFIX. This simple system lacks the sophistication of the Moonlander which uses 8 rechargeable AA cells and turns on and off at dusk and dawn, but my simpler system is perfectly satisfactory.

BUILDING THE LIGHT SYSTEM

The LEDS must be mounted on an aluminium heat sink about 6 x 3 inches or a similar convenient size (I obtained several suitable pieces of 1/8 inch thick aluminium off-cuts from my local aluminium fabricators free of charge.) The LEDs are bolted to the plate using 6BA bolts with a smear of heat conducting paste on their bases to dissipate their heat. Care is necessary to ensure that the bolts are insulated from the LEDs with simple plastic washers. I feel that it is probably better to not link the LEDs directly together but to solder separate connecting wires to each one and then complete the circuit using the small connecting blocks in common use, ensuring the correct linkage of plus to minus. This gives more flexibility to try different LEDs. Soldering of the relatively small LEDs requires a small electric soldering iron such as those sold by Maplins and used in electrical and electronic hobbies, and a small degree of soldering skill. I also added a small 2ohm wire wound resistor obtainable from Maplins to the circuit following guidance from the LED Center web site. They are connected in series. 12 volts supply to Led1 + terminal, Led1- to Led2+, and so on. The small wire wound resistor can be inserted at any convenient point in the circuit. My initial circuit attempt did not light because of a soldering fault. I created a simple tester out of 3 AAA cells so that a voltage could be applied to each of the LEDs separately and the faulty connection repaired. To charge the 7amp hour battery I used a redundant power supply from a scanner (or printer). To check currents I bought a simple 0-2 amp ammeter from Amazon. I find the trap takes about 0.3amp and I recharge the battery at about 0.5 amps. I note that Paul Batty now sells the same battery with a suitable charger at a reasonable price.

THE COMPLETE TRAP

Using the system I felt that as the LEDs emit a somewhat directional light which points upwards I would enclose the LEDs in a net curtain bag as the Moonlander does, so as to give a more widespread light. I initially tried to stop moths getting inside the bag where they were difficult to retrieve, so in my later "design" I accepted that the moths would be outside the bag and also inside but with easy access for both them and me via the detachable lid. I have mounted my whole traplight on a simple Skinner trap, to get the best of both worlds. The construction of the trap containing the lights is shown in FIG 1 and is made out of an old plastic fat balls container with most of the sides cut away, as well as having large holes in the base to allow access for moths. The LED plate is fastened to but above the container base. This arrangement allows the lid to be used as an access point. A large hole and a smaller inner lid with a small 1inch diameter hole allows adequate access for moths. The net bag is fastened at the base and pulled up to be trapped by the lid, but can be dropped down for easy removal of trapped or dead flies and other detritus. I soon realised that my battery would supply power for 2 nights nothing, so I added a second set of 3 LEDs running the two sets in parallel to increase the light intensity, as can be seen in the slightly messy and complex wiring arrangement shown in FIG 2. For a single set of LEDs a 4amp hour battery, also from Screwfix would be adequate and be lighter and cheaper.

RESULTS SO FAR

My results so far have been most encouraging in spite of a poor season for moths with cool north east winds. See FIG 3. What has been noticeable is the number of moths of a single species. Using the "old" methods moths come and go without an idea of their frequency but with this trap I have had up to twenty of a single species trapped.

I regard this note simply as a means of encouraging others to try LEDs and hopefully improve on my "design" which has simply been created "Blue Peter" style. I am happy to be contacted by phone or email to discuss any points arising from this note.

USEFUL REFERENCES

- petermobbs.wordpress.com/2015/05/09.a-better-moth-trap-using-leds/ After "Page not Found" input "Moth traps" into the search box. For useful discussion on moths and traps though be aware that he uses a different (and to me more complex) power system
- Paul Batty website www.pwbelg.clara.net/mercury for general mothlighting supplies especially the 7 amp hour 12volt battery complete with a suitable charger, and also ESSENTIAL UV PROTECTION GLASSES
- <https://Futureeden.co.uk> for "3watt with PCB" LEDs" ordering (as Peter Mobbs suggests) Emerald Green (520-530) Royal Blue (440-450) and UV 385. Also Thermal heat transfer compound and 3amp terminal block strips
- For general useful information on LEDs, Google "LED Center" (US spelling) and click on <http://led.linear1.org>. The LED circuit calculation link is on the right hand side in the blue block.

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Fig 1.



Fig.2

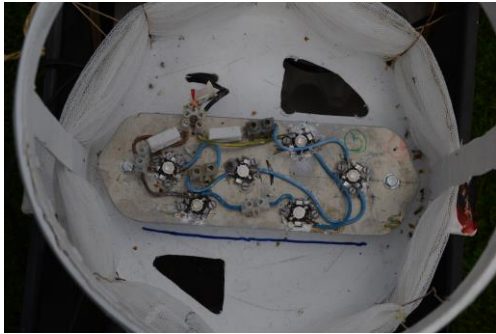


Fig 3



Some Moth Records 2016

Paul.W.Forster

Tudor croft Guisborough

Code	Taxon	Vernacular	Site	Gridref	Vice County	Quantity	Date	Recorder	Method
69.007	<i>Sphinx pinastri</i>	Pine Hawk-moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.001	<i>Abrostola tripartita</i>	Spectacle	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.332	<i>Diarsia brunnea</i>	Purple Clay	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
18.001	<i>Plutella xylostella</i>	Diamond-back Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.141	<i>Gymnoscelis rufifasciata</i>	Double-striped Pug	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.1	<i>Colostygia pectinataria</i>	Green Carpet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.237	<i>Selenia dentaria</i>	Early Thorn	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.133	<i>Perizoma alchemillata</i>	Small Rivulet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.205	<i>Abraxas grossulariata</i>	Magpie Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
49.295	<i>Notocelia roborana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
72.045	<i>Eilema lurideola</i>	Common Footman	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
63.025	<i>Anania hortulata</i>	Small Magpie	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.011	<i>Idaea dimidiata</i>	Single-dotted Wave	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
49.029	<i>Lozotaenia forsterana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
65.009	<i>Habrosyne pyritoides</i>	Buff Arches	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.325	<i>Agrotis puta</i>	Shuttle-shaped Dart	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.277	<i>Cabera pusaria</i>	Common White Wave	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.085	<i>Cidaria fulvata</i>	Barred Yellow	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.357	<i>Xestia xanthographa</i>	Square-spot Rustic	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.016	<i>Autographa pulchrina</i>	Beautiful Golden Y	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.207	<i>Lomaspilis marginata</i>	Clouded Border	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.156	<i>Apamea crenata</i>	Clouded-bordered Brindle	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
49.051	<i>Cnephasia asseclana</i>	Flax Tortrix	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.329	<i>Ochroleuca plecta</i>	Flame Shoulder	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
49.091	<i>Pseudargyrotoza conwagana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
70.252	<i>Biston betularia</i>	Peppered Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
41.003	<i>Blastobasis lacticolella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping
73.293	<i>Mythimna impura</i>	Smoky Wainscot	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16	P.W.Forster	Light Trapping

66.01	<i>Euthrix potatoria</i>	Drinker	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
20.012	<i>Argyresthia goedartella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.026	<i>Pandemis heparana</i>	Dark Fruit-tree Tortrix	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
	<i>Oligia strigilis</i> agg.	Marbled Minor agg.	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.016	<i>Idaea aversata</i>	Riband Wave	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.243	<i>Ourapteryx sambucaria</i>	Swallow-tailed Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.089	<i>Agriphila tristella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
3.005	<i>Hepialus humuli</i>	Ghost Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
16.015	<i>Swammerdamia caesiella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
72.053	<i>Herminia tarsipennalis</i>	Fan-foot	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
45.012	<i>Stenoptilia pterodactyla</i>	Brown Plume	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.323	<i>Dichrorampha montanana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.084	<i>Plemyria rubiginata</i>	Blue-bordered Carpet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.298	<i>Notocelia trimaculana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
72.043	<i>Eilema depressa</i>	Buff Footman	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.013	<i>Idaea biselata</i>	Small Fan-footed Wave	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.038	<i>Clepsia consimilana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.132	<i>Perizoma affinitata</i>	Rivulet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.361	<i>Xestia triangulum</i>	Double Square-spot	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.093	<i>Agriphila straminella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.174	<i>Oligia latruncula</i>	Tawny Marbled Minor	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.062	<i>Acleris forsskaeana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.226	<i>Opisthograptis luteolata</i>	Brimstone Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
69.003	<i>Laothoe populi</i>	Poplar Hawk-moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
72.002	<i>Rivula sericealis</i>	Straw Dot	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.157	<i>Hedya pruniana</i>	Plum Tortrix	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.144	<i>Pasiphila rectangulata</i>	Green Pug	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
62.001	<i>Aphomia sociella</i>	Bee Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.039	<i>Epiphyas postvittana</i>	Light Brown Apple Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.067	<i>Eudonia lacustrata</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.166	<i>Celypha lacunana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.089	<i>Eulithis prunata</i>	Phoenix	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.338	<i>Lycophotia porphyrea</i>	True Lover's Knot	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping

70.265	<i>Alcis repandata</i>	Mottled Beauty	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.305	<i>Hemithea aestivaria</i>	Common Emerald	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.016	<i>Idaea aversata</i> ab. <i>remutata</i>	Riband Wave [non-banded form]	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
31.001	<i>Carcina quercana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.162	<i>Eupithecia tantillaria</i>	Dwarf Pug	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.375	<i>Pammene regiana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.183	<i>Eupithecia vulgata</i>	Common Pug	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.092	<i>Caradrina morpheus</i>	Mottled Rustic	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.052	<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-spot Carpet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.054	<i>Xanthorhoe montanata</i>	Silver-ground Carpet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.128	<i>Aethes rubigana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.084	<i>Bryophila domestica</i>	Marbled Beauty	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
72.026	<i>Arctia caja</i>	Garden Tiger	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.348	<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.283	<i>Campaea margaritaria</i>	Light Emerald	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.216	<i>Cosmia trapezina</i>	Dun-bar	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.115	<i>Acentria ephemerella</i>	Water Veneer	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.102	<i>Catoptria falsella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.081	<i>Thera obeliscata</i>	Grey Pine Carpet	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
74.003	<i>Nola cucullatella</i>	Short-cloaked Moth	Tudor croft Guisborough .	NZ602157	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.093	<i>Agriphila straminella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	8	13-Aug-16 P.W.Forster	Light Trapping
63.038	<i>Pleuroptya ruralis</i>	Mother of Pearl	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
70.241	<i>Crocallis elinguaris</i>	Scalloped Oak	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
74.007	<i>Bena bicolorana</i>	Scarce Silver-lines	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
63.089	<i>Agriphila tristella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	2	13-Aug-16 P.W.Forster	Light Trapping
49.157	<i>Hedya pruniana</i>	Plum Tortrix	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
73.293	<i>Mythimna impura</i>	Smoky Wainscot	Tudor croft Guisborough .	NZ602157	62	2	13-Aug-16 P.W.Forster	Light Trapping
73.096	<i>Hoplodrina octogenaria</i>	Uncertain	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
3.001	<i>Triodia sylvina</i>	Orange Swift	Tudor croft Guisborough .	NZ602157	62	2	13-Aug-16 P.W.Forster	Light Trapping
45.01	<i>Amblyptilia acanthadactyla</i>	Beautiful Plume	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
63.067	<i>Eudonia lacustrata</i>	a moth	Tudor croft Guisborough .	NZ602157	62	2	13-Aug-16 P.W.Forster	Light Trapping

73.216	<i>Cosmia trapezina</i>	Dun-bar	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
	<i>Mesapamea secalis</i> agg.	Common Rustic agg.	Tudor croft Guisborough .	NZ602157	62	2	13-Aug-16 P.W.Forster	Light Trapping
41.003	<i>Blastobasis lacticolella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	6	13-Aug-16 P.W.Forster	Light Trapping
70.013	<i>Idaea biselata</i>	Small Fan-footed Wave	Tudor croft Guisborough .	NZ602157	62	2	13-Aug-16 P.W.Forster	Light Trapping
73.123	<i>Hydraecia micacea</i>	Rosy Rustic	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
73.147	<i>Photodes minima</i>	Small Dotted Buff	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
73.345	<i>Noctua comes</i>	Lesser Yellow Underwing	Tudor croft Guisborough .	NZ602157	62	1	13-Aug-16 P.W.Forster	Light Trapping
73.342	<i>Noctua pronuba</i>	Large Yellow Underwing	Tudor croft Guisborough .	NZ602157	62	6	13-Aug-16 P.W.Forster	Light Trapping
41.003	<i>Blastobasis lacticolella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	8	05-Aug-16 P.W.Forster	Light Trapping
63.025	<i>Anania hortulata</i>	Small Magpie	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
70.1	<i>Colostygia pectinataria</i>	Green Carpet	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.368	<i>Naenia typica</i>	Gothic	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.162	<i>Apamea monoglypha</i>	Dark Arches	Tudor croft Guisborough .	NZ602157	62	2	05-Aug-16 P.W.Forster	Light Trapping
70.19	<i>Eupithecia subfuscata</i>	Grey Pug	Tudor croft Guisborough .	NZ602157	62	2	05-Aug-16 P.W.Forster	Light Trapping
70.061	<i>Epirrhoe alternata</i>	Common Carpet	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
3.001	<i>Triodia sylvina</i>	Orange Swift	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.216	<i>Cosmia trapezina</i>	Dun-bar	Tudor croft Guisborough .	NZ602157	62	2	05-Aug-16 P.W.Forster	Light Trapping
73.012	<i>Diachrysia chrysis</i>	Burnished Brass	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.097	<i>Hoplodrina blanda</i>	Rustic	Tudor croft Guisborough .	NZ602157	62	6	05-Aug-16 P.W.Forster	Light Trapping
72.002	<i>Rivula sericealis</i>	Straw Dot	Tudor croft Guisborough .	NZ602157	62	4	05-Aug-16 P.W.Forster	Light Trapping
72.045	<i>Eilema lurideola</i>	Common Footman	Tudor croft Guisborough .	NZ602157	62	8	05-Aug-16 P.W.Forster	Light Trapping
	<i>Mesapamea secalis</i> agg.	Common Rustic agg.	Tudor croft Guisborough .	NZ602157	62	10	05-Aug-16 P.W.Forster	Light Trapping
72.009	<i>Leucoma salicis</i>	White Satin	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.348	<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	Tudor croft Guisborough .	NZ602157	62	10	05-Aug-16 P.W.Forster	Light Trapping
70.147	<i>Eupithecia tenuiata</i>	Slender Pug	Tudor croft Guisborough .	NZ602157	62	2	05-Aug-16 P.W.Forster	Light Trapping
72.013	<i>Euproctis similis</i>	Yellow-tail	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
20.012	<i>Argyresthia goedartella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	10	05-Aug-16 P.W.Forster	Light Trapping
70.226	<i>Opisthograptis luteolata</i>	Brimstone Moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.267	<i>Lacanobia oleracea</i>	Bright-line Brown-eye	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
49.166	<i>Celypha lacunana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	2	05-Aug-16 P.W.Forster	Light Trapping
73.358	<i>Xestia sexstrigata</i>	Six-striped Rustic	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
16.015	<i>Swammerdamia caesiella</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
49.062	<i>Accleris forsskaeana</i>	a moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping

73.346	Noctua interjecta	Least Yellow Underwing	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
31.001	Carcina quercana	a moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
72.003	Hypena proboscidalis	Snout	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.32	Agrotis clavis	Heart and Club	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
18.001	Plutella maculipennis	Diamond-back Moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.361	Xestia triangulum	Double Square-spot	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
20.011	Argyresthia brockeella	a moth	Tudor croft Guisborough .	NZ602157	62	5	05-Aug-16 P.W.Forster	Light Trapping
70.277	Cabera pusaria	Common White Wave	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.017	Autographa jota	Plain Golden Y	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
63.067	Eudonia lacustrata	a moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
63.089	Agriphila tristella	a moth	Tudor croft Guisborough .	NZ602157	62	2	05-Aug-16 P.W.Forster	Light Trapping
70.141	Gymnoscelis rufifasciata	Double-striped Pug	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
	Acronicta tridens/psi	Dark Dagger / Grey Dagger	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.342	Noctua pronuba	Large Yellow Underwing	Tudor croft Guisborough .	NZ602157	62	30	05-Aug-16 P.W.Forster	Light Trapping
65.009	Habrosyne pyritoides	Buff Arches	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.293	Mythimna impura	Smoky Wainscot	Tudor croft Guisborough .	NZ602157	62	13	05-Aug-16 P.W.Forster	Light Trapping
63.093	Agriphila straminella	a moth	Tudor croft Guisborough .	NZ602157	62	16	05-Aug-16 P.W.Forster	Light Trapping
70.013	Idaea biselata	Small Fan-footed Wave	Tudor croft Guisborough .	NZ602157	62	6	05-Aug-16 P.W.Forster	Light Trapping
63.102	Catoptria falsella	a moth	Tudor croft Guisborough .	NZ602157	62	1	05-Aug-16 P.W.Forster	Light Trapping

Hutton Rudby

73.096	Hoplodrina octogenaria	Uncertain	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping
70.283	Campaea margaritaria	Light Emerald	Hutton Rudby	NZ463065	62	3	30-Jul-16 P.W.Forster	Light Trapping
70.016	Idaea aversata ab. remutata	Riband Wave [non-banded form]	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping
63.067	Eudonia lacustrata	a moth	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping
63.038	Pleuroptya ruralis	Mother of Pearl	Hutton Rudby	NZ463065	62	5	30-Jul-16 P.W.Forster	Light Trapping
63.093	Agriphila straminella	a moth	Hutton Rudby	NZ463065	62	6	30-Jul-16 P.W.Forster	Light Trapping
70.258	Peribatodes rhomboidaria	Willow Beauty	Hutton Rudby	NZ463065	62	1	30-Jul-16 P.W.Forster	Light Trapping
72.045	Eilema lurideola	Common Footman	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping

Mesapamea secalis agg.	Common Rustic agg.	Hutton Rudby	NZ463065	62	10	30-Jul-16 P.W.Forster	Light Trapping
73.001 Abrostola tripartita	Spectacle	Hutton Rudby	NZ463065	62	1	30-Jul-16 P.W.Forster	Light Trapping
73.359 Xestia c-nigrum	Setaceous Hebrew Character	Hutton Rudby	NZ463065	62	1	30-Jul-16 P.W.Forster	Light Trapping
73.353 Xestia baja	Dotted Clay	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping
70.252 Biston betularia	Peppered Moth	Hutton Rudby	NZ463065	62	1	30-Jul-16 P.W.Forster	Light Trapping
73.343 Noctua fimbriata	Broad-bordered Yellow Underwing	Hutton Rudby	NZ463065	62	4	30-Jul-16 P.W.Forster	Light Trapping
73.27 Melanchra persicariae	Dot Moth	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping
73.154 Apamea remissa	Dusky Brocade	Hutton Rudby	NZ463065	62	2	30-Jul-16 P.W.Forster	Light Trapping
41.003 Blastobasis lacticolella	a moth	Hutton Rudby	NZ463065	62	5	30-Jul-16 P.W.Forster	Light Trapping
73.342 Noctua pronuba	Large Yellow Underwing	Hutton Rudby	NZ463065	62	5	30-Jul-16 P.W.Forster	Light Trapping
73.012 Diachrysia chrysitis	Burnished Brass	Hutton Rudby	NZ463065	62	1	30-Jul-16 P.W.Forster	Light Trapping

Newton Mulgrave Castle

73.162 Apamea monoglypha	Dark Arches	Newton Mulgrave Castle	NZ8412	62	5	22-Jul-16 P.W.Forster	Light Trapping
Acronicta tridens/psi	Dark Dagger / Grey Dagger	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.096 Hoplodrina octogenaria	Uncertain	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.037 Udea olivalis	a moth	Newton Mulgrave Castle	NZ8412	62	4	22-Jul-16 P.W.Forster	Light Trapping
73.114 Euplexia lucipara	Small Angle Shades	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.361 Xestia triangulum	Double Square-spot	Newton Mulgrave Castle	NZ8412	62	2	22-Jul-16 P.W.Forster	Light Trapping
73.012 Diachrysia chrysitis	Burnished Brass	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
72.003 Hypena proboscidalis	Snout	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.243 Ourapteryx sambucaria	Swallow-tailed Moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
72.002 Rivula sericealis	Straw Dot	Newton Mulgrave Castle	NZ8412	62	2	22-Jul-16 P.W.Forster	Light Trapping
49.11 Agapeta zoegana	a moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.132 Perizoma affinitata	Rivulet	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.057 Evergestis forficalis	Garden Pebble	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.026 Pandemis heparana	Dark Fruit-tree Tortrix	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.097 Hoplodrina blanda	Rustic	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.074 Eudonia mercurella	a moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
15.046 Phyllonorycter blancardella	a moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.08 Chrysoteuchia culmella	Garden Grass-veneer	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.089 Agriphila tristella	a moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
28.01 Hofmannophila pseudospretella	Brown House-moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping

49.037	<i>Clepsia spectrana</i>	Cyclamen Tortrix	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.015	<i>Autographa gamma</i>	Silver Y	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
41.003	<i>Blastobasis lacticolella</i>	a moth	Newton Mulgrave Castle	NZ8412	62	5	22-Jul-16 P.W.Forster	Light Trapping
73.317	<i>Agrotis exclamatoris</i>	Heart and Dart	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.013	<i>Idaea biselata</i>	Small Fan-footed Wave	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
	<i>Oligia strigilis</i> agg.	Marbled Minor agg.	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.151	<i>Eupithecia pulchellata</i>	Foxglove Pug	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.081	<i>Thera obeliscata</i>	Grey Pine Carpet	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.166	<i>Celypha lacunana</i>	a moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
69.003	<i>Laethoe populi</i>	Poplar Hawk-moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
49.157	<i>Hedya pruniana</i>	Plum Tortrix	Newton Mulgrave Castle	NZ8412	62	2	22-Jul-16 P.W.Forster	Light Trapping
73.338	<i>Lycophotia porphyrea</i>	True Lover's Knot	Newton Mulgrave Castle	NZ8412	62	6	22-Jul-16 P.W.Forster	Light Trapping
70.141	<i>Gymnoscelis rufifasciata</i>	Double-striped Pug	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
18.001	<i>Plutella xylostella</i>	Diamond-back Moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
73.342	<i>Noctua pronuba</i>	Large Yellow Underwing	Newton Mulgrave Castle	NZ8412	62	7	22-Jul-16 P.W.Forster	Light Trapping
63.093	<i>Agriphila straminella</i>	a moth	Newton Mulgrave Castle	NZ8412	62	2	22-Jul-16 P.W.Forster	Light Trapping
70.226	<i>Opisthograptis luteolata</i>	Brimstone Moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
65.009	<i>Habrosyne pyritoides</i>	Buff Arches	Newton Mulgrave Castle	NZ8412	62	2	22-Jul-16 P.W.Forster	Light Trapping
70.283	<i>Campaea margaritaria</i>	Light Emerald	Newton Mulgrave Castle	NZ8412	62	4	22-Jul-16 P.W.Forster	Light Trapping
31.001	<i>Carcina quercana</i>	a moth	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
63.115	<i>Acentria ephemerella</i>	Water Veneer	Newton Mulgrave Castle	NZ8412	62	1	22-Jul-16 P.W.Forster	Light Trapping
70.016	<i>Idaea aversata</i> ab. <i>remutata</i>	Riband Wave [non-banded form]	Newton Mulgrave Castle	NZ8412	62	3	22-Jul-16 P.W.Forster	Light Trapping

Guisborough Middleton Drive

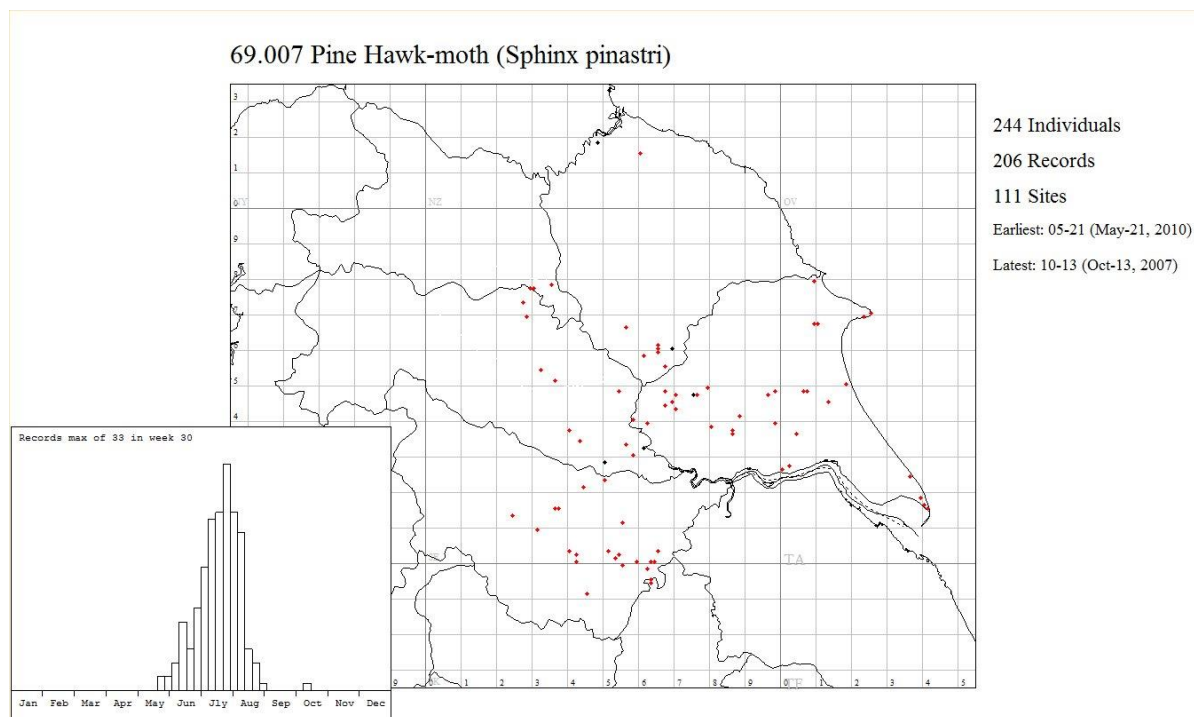
73.342	<i>Noctua pronuba</i>	Large Yellow Underwing	Guisborough Middleton drive	NZ617153	62	1	05-Aug-16 P.W.Forster	Light Trapping
49.038	<i>Clepsia consimilana</i>	a moth	Guisborough Middleton drive	NZ617153	62	1	05-Aug-16 P.W.Forster	Light Trapping
73.348	<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	Guisborough Middleton drive	NZ617153	62	1	05-Aug-16 P.W.Forster	Light Trapping
18.001	<i>Plutella xylostella</i>	Diamond-back Moth	Guisborough Middleton drive	NZ617153	62	1	05-Aug-16 P.W.Forster	Light Trapping
63.067	<i>Eudonia lacustrata</i>	a moth	Guisborough Middleton drive	NZ617153	62	2	29-Jul-16 P.W.Forster	Light Trapping
70.258	<i>Peribatodes rhomboidaria</i>	Willow Beauty	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
49.026	<i>Pandemis heparana</i>	Dark Fruit-tree Tortrix	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping

73.342	Noctua pronuba	Large Yellow Underwing	Guisborough Middleton drive	NZ617153	62	6	29-Jul-16 P.W.Forster	Light Trapping
41.003	Blastobasis lacticolella	a moth	Guisborough Middleton drive	NZ617153	62	2	29-Jul-16 P.W.Forster	Light Trapping
73.267	Lacanobia oleracea	Bright-line Brown-eye	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
73.352	Anaplectoides prasina	Green Arches	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
73.354	Xestia stigmatica	Square-spotted Clay	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
73.361	Xestia triangulum	Double Square-spot	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
18.001	Plutella xylostella	Diamond-back Moth	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
49.038	Clepsis consimilana	a moth	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
16.02	Paraswammerdamia nebulella	a moth	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
73.291	Mythimna pallens	Common Wainscot	Guisborough Middleton drive	NZ617153	62	1	29-Jul-16 P.W.Forster	Light Trapping
73.357	Xestia xanthographa	Square-spot Rustic	Guisborough Middleton drive	NZ617153	62	2	19-Jul-16 P.W.Forster	Light Trapping
73.317	Agrotis exclamationis	Heart and Dart	Guisborough Middleton drive	NZ617153	62	1	19-Jul-16 P.W.Forster	Light Trapping
73.114	Euplexia lucipara	Small Angle Shades	Guisborough Middleton drive	NZ617153	62	1	19-Jul-16 P.W.Forster	Light Trapping
73.162	Apamea monoglypha	Dark Arches	Guisborough Middleton drive	NZ617153	62	1	19-Jul-16 P.W.Forster	Light Trapping
63.08	Chrysoteuchia culmella	Garden Grass-veneer	Guisborough Middleton drive	NZ617153	62	2	19-Jul-16 P.W.Forster	Light Trapping
73.361	Xestia triangulum	Double Square-spot	Guisborough Middleton drive	NZ617153	62	1	19-Jul-16 P.W.Forster	Light Trapping
49.039	Epiphyas postvittana	Light Brown Apple Moth	Guisborough Middleton drive	NZ617153	62	1	19-Jul-16 P.W.Forster	Light Trapping
49.026	Pandemis heparana	Dark Fruit-tree Tortrix	Guisborough Middleton drive	NZ617153	62	1	19-Jul-16 P.W.Forster	Light Trapping
73.342	Noctua pronuba	Large Yellow Underwing	Guisborough Middleton drive	NZ617153	62	2	19-Jul-16 P.W.Forster	Light Trapping
49.037	Clepsis spectrana	Cyclamen Tortrix	Guisborough Middleton drive	NZ617153	62	5	18-Jul-16 P.W.Forster	Light Trapping
73.338	Lycophotia porphyrea	True Lover's Knot	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
73.162	Apamea monoglypha	Dark Arches	Guisborough Middleton drive	NZ617153	62	3	18-Jul-16 P.W.Forster	Light Trapping
70.132	Perizoma affinitata	Rivulet	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
71.012	Notodonta dromedarius	Iron Prominent	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
73.342	Noctua pronuba	Large Yellow Underwing	Guisborough Middleton drive	NZ617153	62	5	18-Jul-16 P.W.Forster	Light Trapping
70.085	Cidaria fulvata	Barred Yellow	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
73.114	Euplexia lucipara	Small Angle Shades	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
73.016	Autographa pulchrina	Beautiful Golden Y	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
70.013	Idaea biselata	Small Fan-footed Wave	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping

73.361	Xestia triangulum	Double Square-spot	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
63.018	Anania coronata	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
49.026	Pandemis heparana	Dark Fruit-tree Tortrix	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
70.276	Bupalus piniaria	Bordered White	Guisborough Middleton drive	NZ617153	62	8	18-Jul-16 P.W.Forster	Light Trapping
49.038	Clepsis consimilana	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
49.004	Ditula angustiorana	Red-barred Tortrix	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
49.166	Celypha lacunana	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
63.093	Agriphila straminella	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
63.067	Eudonia lacustrata	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
16.02	Paraswammerdamia lutarea	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
49.051	Cnephasia asseclana	Flax Tortrix	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
73.017	Autographa jota	Plain Golden Y	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
62.048	Euzophera pinguis	a moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
73.084	Bryophila domestica	Marbled Beauty	Guisborough Middleton drive	NZ617153	62	6	18-Jul-16 P.W.Forster	Light Trapping
	Oligia strigilis agg.	Marbled Minor agg.	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
28.01	Hofmannophila pseudospretella	Brown House-moth	Guisborough Middleton drive	NZ617153	62	6	18-Jul-16 P.W.Forster	Light Trapping
18.001	Plutella xylostella	Diamond-back Moth	Guisborough Middleton drive	NZ617153	62	5	18-Jul-16 P.W.Forster	Light Trapping
69.003	Laothoe populi	Poplar Hawk-moth	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
63.025	Anania hortulata	Small Magpie	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
73.012	Diachrysia chrysitis	Burnished Brass	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
49.338	Cydia pomonella	Codling Moth	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
65.009	Habrosyne pyritoides	Buff Arches	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
72.003	Hypena proboscidalis	Snout	Guisborough Middleton drive	NZ617153	62	2	18-Jul-16 P.W.Forster	Light Trapping
73.015	Autographa gamma	Silver Y	Guisborough Middleton drive	NZ617153	62	1	18-Jul-16 P.W.Forster	Light Trapping
49.039	Epiphyas postvittana	Light Brown Apple Moth	Guisborough Middleton drive	NZ617153	62	5	18-Jul-16 P.W.Forster	Light Trapping
73.162	Apamea monoglypha	Dark Arches	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.113	Phlogophora meticulosa	Angle Shades	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
28.01	Hofmannophila pseudospretella	Brown House-moth	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.154	Apamea remissa	Dusky Brocade	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.27	Melanchra persicariae	Dot Moth	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.329	Ochroleuca plecta	Flame Shoulder	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping

28.009	Endrosis sarcitrella	White-shouldered House-moth	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.342	Noctua pronuba	Large Yellow Underwing	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.317	Agrotis exclamationis	Heart and Dart	Guisborough Middleton drive	NZ617153	62	4	07-Jul-16 P.W.Forster	Light Trapping
69.003	Laothoe populi	Poplar Hawk-moth	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
69.016	Deilephila elpenor	Elephant Hawk-moth	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.001	Abrostola tripartita	Spectacle	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.016	Autographa pulchrina	Beautiful Golden Y	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.015	Autographa gamma	Silver Y	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
73.017	Autographa jota	Plain Golden Y	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
70.258	Peribatodes rhomboidaria	Willow Beauty	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
63.08	Chrysoteuchia culmella	Garden Grass-veneer	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
49.156	Hedya nubiferana	Marbled Orchard Tortrix	Guisborough Middleton drive	NZ617153	62	1	07-Jul-16 P.W.Forster	Light Trapping
	Plutella xylostella	Diamond-back Moth	Guisborough Middleton drive	NZ617153	62	300	30-May-16 P.W.Forster	Light Trapping
	Epiphyas postvittana	Light Brown Apple Moth	Guisborough Middleton drive	NZ617153	62	20	21-May-16 P.W.Forster	Light Trapping
	Eupithecia vulgata	Common Pug	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
	Deilephila elpenor	Elephant Hawk-moth	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
	Xanthorhoe montanata	Silver-ground Carpet	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
	Noctua pronuba	Large Yellow Underwing	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
18.001	Spilosoma lutea	Buff Ermine	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
	Agrotis exclamationis	Heart and Dart	Guisborough Middleton drive	NZ617153	62	6	21-May-16 P.W.Forster	Light Trapping
49.039	Spilosoma lubricipeda	White Ermine	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
70.183	Notodonta dromedarius	Iron Prominent	Guisborough Middleton drive	NZ617153	62	1	21-May-16 P.W.Forster	Light Trapping
73.342	Plutella xylostella	Diamond-back Moth	Guisborough Middleton drive	NZ617153	62	20	10-May-16 P.W.Forster	Light Trapping
73.317	Orthosia incerta	Clouded Drab	Guisborough Middleton drive	NZ617153	62	1	10-May-16 P.W.Forster	Light Trapping
71.012	Agrotis exclamationis	Heart and Dart	Guisborough Middleton drive	NZ617153	62	4	10-May-16 P.W.Forster	Light Trapping
	Phlogophora meticulosa	Angle Shades	Guisborough Middleton drive	NZ617153	62	2	10-May-16 P.W.Forster	Light Trapping
32.024	Opisthograptis luteolata	Brimstone Moth	Guisborough Middleton drive	NZ617153	62	1	07-May-16 P.W.Forster	Light Trapping

73.242 <i>Plutella maculipennis</i>	Diamond-back Moth	Guisborough Middleton drive	NZ617153	62	1000	07-May-16 P.W.Forster	Light Trapping
<i>Cydia pomonella</i>	Codling Moth	Guisborough Middleton drive	NZ617153	62	1	07-May-16 P.W.Forster	Light Trapping
73.317 <i>Abrostola tripartita</i>	Spectacle	Guisborough Middleton drive	NZ617153	62	1	07-May-16 P.W.Forster	Light Trapping
73.113 <i>Epirrhoe alternata</i>	Common Carpet	Guisborough Middleton drive	NZ617153	62	1	07-May-16 P.W.Forster	Light Trapping



Elgee Memorial Lecture

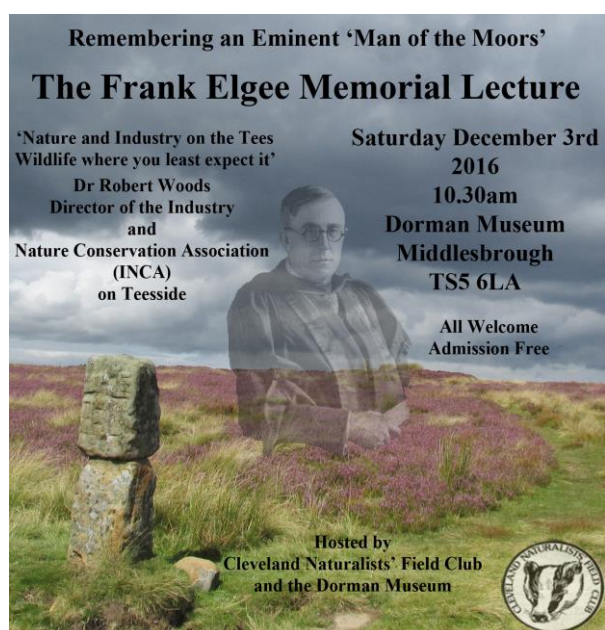
On Saturday 3rd December the Club was pleased to host the Frank Elgee Memorial Lecture in partnership with the Dorman Museum. The Museum provided an excellent venue and approximately 70 people attended. There were representatives from all the societies that host the event in rotation namely Cleveland Industrial Archaeology Society, Cleveland & Teesside Local History Society, and Teesside Archaeological Society. Valuable help with publicity was received from these groups and the Council for British Archaeology North.

The lecture was given by Dr Robert Woods the Director of the Industry and Nature Conservation Association (INCA) on Teesside. Dr Woods outlined the nature conservation work of INCA in association with local industries on their sites across the Tees Valley. This work has produced some remarkable results both in the public gaze and away from it behind the secure boundaries of industrial sites. Perhaps the most visible are the re-establishment and continuing breeding success of seals, and the sympathetic management of the remaining estuarine habitats in the Tees Estuary. However, significant successes have also been achieved out-of-sight particularly with grass and wet land conservation.

Dr Woods addressed questions from the audience and was thanked by chairs Phil Philo Curator of the Dorman Museum and Malcolm Birtle President of Cleveland Naturalists' Field Club.

Before closing the meeting the President informed the audience that The Club Secretary and officers of East Hampshire District Council had carried out an excellent project on the renovation of the Elgee grave in Alton Hampshire. All involved with this project deserve our thanks.

The Club was very pleased to help organise the Lecture which is a joint enterprise. The Club recognises the importance of studying the archaeology and history of sites in order to fully understand how habitats and the species they contain come to exist. We would be pleased to be involved in any joint enterprises planned for the future.



Renovated Gravestone, Plot H218, New Cemetery, Old Odiham Road, Alton, Hampshire

Field Meetings 2017

Unscheduled Adhoc Events

Please note that, in addition to the scheduled walks included in this programme, our intention is to also have several adhoc events which are best organised at short notice because they are highly dependent on suitable weather conditions. These include moth trapping with Paul Forster, and possibly some bat walks and recording meetings. If you are interested in events such as these, please let either Eric Gendle or Neil Baker have your contact details (an email address if possible) and we will ensure you are kept informed about them as and when they are arranged.

Mobile Phone

The walk leader on the day carries the Club's mobile phone (☎ 07826 787650) that members may ring if necessary (to find the group if late arriving, for example).

I hope that you will find outings to your taste from this varied programme. Any suggestions for future outings are always welcomed by the committee. It is hoped that members will share transport, where possible, to ease any parking problems and be prepared to offer lifts to members without cars.

If you require further details about a walk, or in case of bad weather and possible cancellation, please contact the leader of the walk. Please bring suitable refreshment with you! This will be necessary for the walks that start on a morning and it may well be appropriate to take tea on an afternoon walk.

I should like to welcome any prospective members to join some of our outings. I am sure that you will find our members both friendly and helpful. I have found the field trips an excellent way of learning more about the natural history of the areas we visit.

Malcolm Birtle (President)

Saturday, 22nd April, 10:30 am, leader Colin Chatto ☎ 01642 599616

GR SE111905. **Leyburn Shawl**. Meet at the west end of Leyburn market place. An easy walk of about 7 miles along Leyburn Shawl, west to Preston-under-Scar and return.

Sunday, 23rd April, 12:00 pm, leader Darlington Nats ☎ 01325 361547 (Neil Baker)

GR NZ049162. **Barnard Castle to Egglestone Abbey circular**. Meet at the foot of the bank in Barnard Castle. A walk to Egglestone Abbey and then over Abbey Bridge to the wood on the north bank of the river Tees for the spring flowers. A walk of about 4 miles, which is not strenuous.

Wednesday, 3rd May, 1:30 pm, leader Ian Lawrence ☎ 01642 828858

GR NZ613249. **Redcar Stray**. Meet on Redcar Stray opposite Zetland Park close to the roundabout. An easy walk along Redcar Stray to examine the flora.

Wednesday, 10th May, 10:30 am, leaders Mark & Hazel Stokeld ☎ 01642 783819

GR TA198739. **Bempton Cliffs**. Meet in the RSPB car park. A gentle walk to look at the variety of breeding birds found on the cliffs.

Saturday, 20th May, 10:30 am, leader Andy Astbury ☎ 01642 823114

GR SE670796. **Stonegrave and Caulkleys Bank**. Meet in the National Trust car park at Nunnington Hall. A comfortable walk of about 7 miles on fairly level terrain. There is an easy escape route back to Nunnington about half way round this circular walk if required.

Wednesday, 24th May, 6:30 pm, leader Malcolm Birtle ☎ 01642 649938

GR NZ489316. **Summerhill Country Park, Hartlepool.** Meet in the visitor centre car park. The Park can be found at the end of Summerhill Road, which joins Catcote Road north of English Martyrs school.

Sunday, 28th May, 10:30 am, leader Colin Chatto ☎ 01642 599616

GR SE117482. **Ilkley.** Meet in Ilkley Rugby Club car park. We will explore Hudson and Middleton woods and then continue east along the river Wharfe to Denton Bridge. We will then head south towards Cow and Calf Rocks and cross Ilkley Moor back to Ilkley. A walk of about 7 miles with some moderate climbing.

Wednesday, 31st May, 6:30 pm, leader Neil Baker ☎ 01325 361547

GR NZ463189. **Tees Barrage to Newport Bridge circular.** Meet by the short lane on the south side of the river Tees, immediately east of the bridge over the barrage. An easy walk of about 3 miles. We will set out on one side of the river Tees and return on the other.

Wednesday, 7th June, 6:30 pm, leader Eric Gendle ☎ 01642 281235

GR SE569920. **Birch Wood, Bilsdale.** Meet by the roadside where there is limited parking for only 5 to 6 cars. An easy exploration of an unimproved mixed woodland now managed by the YWT.

Saturday, 10th June, 10:30 am, leader Daphne Aplin ☎ 01642 884719

GR NZ454228. **Billingham Beck Valley Country Park.** Meet in the visitor centre car park. A leisurely full day to explore this interesting wetland area.

Wednesday, 14th June, 10:30 am, leaders Peter & Ruth Waterton ☎ 01642 724270

GR SE427974. **Ellerbeck area.** Park on the grass verge on Feather Bed Lane. A rarely visited area with mixed habitat.

Wednesday, 21st June, 6:30 pm, leader Vic Fairbrother ☎ 01287 633744

GR NZ593253. **Coatham Dunes.** Meet in the Majuba Road car park at the west end of Redcar. This 2 mile walk was part of our Club contribution to *Wildflower Walks in the Lower Tees Valley* published by the Wildflower Ark in 2007. It will be interesting to record a decade of change.

Wednesday, 28th June, 1:30 pm, leader Maggie and Graeme Boyd ☎ 01287 634707

GR NZ444228. **Gravel Hole Nature Reserve.** Park in Shearwater Lane, Norton. A short walk to explore Gravel Hole Nature Reserve.

Sunday, 2nd July, 10:30 am, leader Eric Gendle ☎ 01642 281235

GR SE430307. **Ledston Luck.** Meet in the car park before the village. An extensive YWT reserve of mixed habitats with a rich flora and fauna. We visited this site last year but much earlier in the season.

Wednesday, 5th July, 6:30 pm, leader Jo Scott ☎ 01642 897843

GR SE468993. **Cod Beck Reservoir.** Meet in the Sheepwash car park. A leisurely stroll to look at the flora and fauna alongside the reservoir and in the surrounding woodland.

Sunday, 9th July, 11:00 am, leader Malcolm Birtle ☎ 01642 649938
GR NZ470387. **Blackhall.** Meet in the car park. An expedition to explore the cliff top and denes.

Wednesday, 12th July, 10:30 am, leader Daphne Aplin ☎ 01642 884719
GR NZ586250. **Coatham Marsh.** Meet in the reserve car park. An easy walk around Coatham Marsh. Wellingtons may be advisable.

Wednesday, 19th July, 10:30 am, leader Andrew Ferguson ☎ 01642 311831
GR NZ672165. **Lingdale Meadows.** Meet near Saint Chad's church on Lingdale High Street. An easy walk around an area of reclaimed land that is a good local wildlife site.

Saturday, 22nd July, 10:30 am, contact Tony Wardhaugh ☎ 01642 322935
GR NZ668216. **Saltburn-by-the-Sea.** This is the YNU VC 62 meeting. Meet in the Cat Nab car park. There are several sites nearby which could be visited during the course of the day. Please see the YNU website events page for further details.

Wednesday, 26th July, 10:30 am, leader Neil Baker ☎ 01325 361547
GR NY968234. **Mickelton to Middleton circular.** Meet in the old Mickleton station car park. A circular walk of about 6 miles, with some ups and downs. We will follow the Tees Railway Walk to Middleton, where we will stop for lunch. We will then follow the Teesdale Way before crossing over the Beckstones Wath Bridge to return to Mickleton.

Saturday, 29th July, 8:00 pm, leader Paul Forster ☎ 01287 201794
GR SE769861. **Beadale Wood.** Meet near the east end of Wrelton village for moth trapping in a private woodland that we have previously visited several times. This event is subject to good weather conditions so please check first if in any doubt. This is a joint meeting with the Ryedale Nats.

Wednesday, 2nd August, 10:30 am, leaders Mark & Hazel Stokeld ☎ 01642 783819
GR NY825431. **Killhope lead mining area.** Meet in the Killhope Lead Mining Museum car park. A moderate walk in this interesting area.

Saturday, 5th August, 11:30 am, leader Malcolm Birtle ☎ 01642 649938
GR NY989249. **Eggleston Burn.** Meet on the bridge across the burn. Park on the roadside on the byroad between the B6278 and B6282. This is a joint meeting with Darlington Nats.

Wednesday, 9th August, 10:30am, leader Jo Scott ☎ 01642 897843
GR NZ668216. **Saltburn Rockpools.** Meet in the Cat Nab car park. A chance to explore the rockpool life on this interesting stretch of shore. Wellingtons are advisable and please bring a bucket and small net if you can. This is a joint meeting with Darlington Nats.

Sunday, 13th August, 10:30 am, leader Bill Hall ☎ 01642 823170 or 07753 663589
GR NZ945002. **Jugger Howe, Fylingdales Moor.** Meet in the layby off the A171 at the grid reference. We will walk across the moor to Jugger Howe Beck. If time permits, we will also visit Harwood Dale ponds. The aims of the walk are to find Golden-ringed Dragonfly and Keeled Skimmer. A joint meeting with the Yorkshire Dragonfly Group.

Wednesday, 16th August, 1:30 pm, leader Tony Wardhaugh ☎ 01642 322935
GR NZ617201. **Errington Woods.** Meet in the car park at Errington Woods near New Marske. An easy walk with an emphasis on snails.

Sunday, 27th August, 10:30 am, leader Andy Astbury ☎ 01642 823114
GR SE451933. **Kepwick and Cowesby.** Meet in Over Silton where there is roadside parking adjacent to the old Manor House. A walk of about 6 miles on fairly level terrain. There is an easy escape route to shorten this circular walk if desired.

Wednesday, 6th September, 10:30am, leader Jo Scott ☎ 01642 897843
GR NY908282. **Bowlees Woods and Riverside.** Meet in the Bowlees Visitor Centre car park. Learn to identify the most commonly seen lichens and search for more unusual ones in this very lichen rich woodland, followed by a look at some of the more specialised lichens along the riverside.

Wednesday, 20th September, 10:30am, leader Alan Simkins ☎ 01642 477484
GR NZ900112. **Whitby to Saltwick Bay.** Meet at the foot of the Abbey Steps. This is a joint meeting with the Tees Valley RIGS Group. We will walk along the beach viewing the rocks and looking for dinosaur footprints which are reputed to be quite common among the fallen boulders.

Wednesday, 27th September, 10:30 am, leader Eric Gendle ☎ 01642 281235
GR NZ047167. **Deepdale Woods.** Meet in Raby Avenue (accessed by turning right off the A67 when you reach the Barnard Castle Methodist Church), where there is adequate free parking overlooking the river. A there and back walk of about 5 miles through the wooded valley of Deepdale looking for fungi.

Sunday, 22nd October, 11:00 am, leader Alan Simkins ☎ 01642 477484
GR NZ237149. **High Coniscliffe.** Meet in the layby off the A67 just before the village. This is a joint fungus foray with the North Eastern Fungus Study Group.

DATES FOR WINTER MEETINGS 2017-2018

Sep 25. Oct 16, 30. Nov 20. Dec 18. Jan 22. Feb 19, 26. Mar 19, 26.

Websites

Members with internet access will find the following sites of interest:
These sites contain excellent material and links to many other sites with a natural history theme.
Fresh material for inclusion on our Club website is always welcomed.

Websites

<http://www.clevelandnats.org.uk>

www.the-vasculum.com

<http://www.davebarlow.co.uk>

<http://www.ynu.org.uk>

<http://www.nhsn.ncl.ac.uk/>

<http://www.dtnfc.org/>