

INDEX TO THE BIOLOGICAL SUPPLEMENTS AND RECORDS OF THE CAVE RESEARCH GROUP OF GREAT BRITAIN, 1-9, 1955-1965

by

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ABSTRACT

The systematic collection of biological specimens from British caves began in the 1930s, and increased in scope through the 1940s and 1950s. The results appeared as supplements or records of the Cave Research Group of Great Britain between 1955 and 1965, covering the years 1938 to 1963. However, no index was produced for sitenames or taxonomic groups (or non-cave sites) located within this primary source. This index is intended to overcome that omission, and to explain some of the changes in nomenclature that have occurred in the intervening years.

INTRODUCTION

The Cave Research Group of Great Britain (CRG) was formed in 1947 and merged with the British Speleological Association in 1974 to become the British Cave Research Association. By that time the publication of separate biological supplements and records had ceased, as those interested in underground life had moved their publications to within the group's *Transactions* and elsewhere.

Recording the group's collections and identifications fell mainly to one person: Mary Hazelton. She was the Hon. Biological Recorder for the group, which entailed the maintenance of the records and production of detailed lists of fauna, together with the name of the collector, taxonomy, identification and who determined this, plus a reference number for the specimen – a gigantic task which deserves recognition. The first two issues were jointly produced with her uncle, E.A. (Aubrey) Glennie, one of the earliest driving forces of the CRG collectors whose own records began in the 1930s.

The *Biological Supplement* series first appeared in 1955, being distributed with issue 52 of the *CRG Newsletter*. The first five supplements (with supplement 2 in two parts, labelled as 2a and 2b in this index) appeared under this title. Issues 6 to 8 bore the title *Biological Records* and appeared in their own right rather than being published with the *Newsletter*. The final edition appeared in 1965, the *British Hypogean Fauna and Biological Records*, which was listed as issue 1 of a series that never continued. The title page noted that it formed part 9 of the *Biological Records*, and it appears in this index under that number.

One difficulty for cave biologists using the supplements and records may be the manner in which they are presented, depending on the nature of the information sought. For determining the species collected in any one period of time, or the material collected by any one individual member of the CRG, they are ideal. However, determining which sites have been studied, or what orders or species have been located, entails a time-consuming search of entries.

There is one exception to this in issue 9, with regard to Devon. Here, the entries were amalgamated and listed under site names to species level, an invaluable piece of work. The collation of information for some other areas of Britain was later achieved in such volumes as *The Science of Speleology* (Jefferson, 1976) and *British Caving* (Hazelton, 1977). Another valuable resource is the *Limestones and Caves* series. However, these also have limitations as they record sites by species rather than cave name.

It should be stressed that the CRG supplements and records are a primary resource which was used to aid the compilation of these and other works. As such, this index to the supplements attempts to

overcome the difficulties in searching for data concerning specific sites, based on the original collections.

APPENDICES

Entries in the index are given to the level of class or order; the taxonomy used is given in Appendix 1. This will enable users to locate sites and basic data without the use of a cumbersome index. However, indexing to class or order does present some limitations as, in some cases, changes in nomenclature (due to a continual process of updating names and groups by biologists) have occurred since the *Supplements* and *Records* were published.

Appendix 2 indicates the dates of publication of the *Supplement* and *Records*. The names of the collectors and the issues in which their work is recorded appears as Appendix 3.

The original publications located the cave sites according to name and, usually, the vice-county; not all are identified with a grid reference. The vice-county was a system which did not use normal county boundaries, but followed natural topographical areas more suited to floral and faunal demarcations. Today, the original letter combination used as a key to vice-counties may not seem obvious and, as not all are listed in the introduction to individual issues of the *Record* or *Supplement*, a full list is given in Appendix 4.

TAXONOMY

The taxonomy used in this index primarily follows that of the *Biological Records* themselves, outmoded as it is. Some group names (phyla and order) have been updated to their modern equivalents, where such a change will not unduly affect the use of the index; to totally update all names would increase the difficulty of using the index to locate the same group under a different name in the publications by non-specialists.

However, some changes have been made. For example, modern nomenclature does not use the term Chelonethida (now the Pseudoscorpiones), or Myriopoda (now an unused term which included the Diplopoda). Changes to taxonomic names within the index should not be difficult to identify with the use of the table in Appendix 1.

It should be noted that in some areas the names given in the index are outmoded. In particular, the Diplopoda (millipedes) have been revised several times, creating confusion even during the period that the records were compiled, something recognised by those concerned at the time.

For example, the Oniscomorpha (pill millipedes) were considered to be a suborder of the order of Pentazonia in 1958, while species listed within the Opisthospermophora (snake millipedes) were included in the order of Iuliformia and the members of the Proterospermophora (flat-backed millipedes) were in the order of Nematophora, according to the Linnean Society of London (Blower, 1958). By 1968 a principle work by J.L. Cloudsley-Thompson placed the Oniscomorpha as an order (rather than suborder) alongside the Opisthospermophora and Proterospermophora. If a further illustration of the difficulties in taxonomic changes is required, the Oniscomorpha order was then renamed as the Glomerida.

Additionally, the *Records* occasionally and ambiguously use names such as the Craspedosomidae, which is the family for the commonly found *Polymicrodon polydesmoides* (the Flat-backed Millipede), within the Proterospermophora. To make matters worse, this species has sometimes been included within the Oniscomorpha within the *Records* and, to totally confuse an already confused area of taxonomy, the species had a name change to *Nanogona polydesmoides* in 1980. In older texts still, the same species was named *Craspedosoma polydesmoides*. Cloudsley-Thompson

classified it within the order AscospERMophora, another group mentioned within the *Records* and used in issue (9).

Modern nomenclature (Blower, 1985) places *N. polydesmoides* within the order Chordeumatida. *Blaniulus guttulatus* (the Spotted Snake Millipede) is placed within the order Julida rather than the now defunct Opisthospermatophora, and *Brachydesmus superus* now lies within the order Polydesmida rather than the obsolete Proterospermatophora.

It is not the intention of this index to the *Biological Records* to update all group names, let alone the taxonomy and names of individual species; the above examples indicate the difficulties of such a project. The user must be aware of taxonomic changes over the period of time in question and take these into account, far more than with ordinary indexes. To avoid confusion when using the original documents, Diplopoda classification has been retained in its original format using the groups Oniscomorpha, Opisthospermatophora and Proterospermatophora. Owing to some mistakes in recording the original classifications of species, and changes since the publication of the records, it is recommended that cave biologists interested in any species within the Diplopoda check all orders within this class for accuracy of recording in the *Records* and for taxonomic changes.

FURTHER INFORMATION

A few other books will prove useful to those working in this field. As well as, in particular, Blower (1985) and Rothschild (1961), the CRG's publication *British Caving* possesses a valuable chapter on cave fauna and flora by Mary Hazelton and E.A. Glennie (1953). The second edition carried a supplement on cave flora by Ann Mason-Williams (1962). In this connection, it is worth consulting her work (with that of Kathryn Benson-Evans) in the CRG publication on the bacteria and flora of South Wales (1958).

A remarkable cave biologist, G.T. 'Jeff' Jefferson, wrote extensively on the subject, in particular in *The Science of Speleology* (1976) and *Limestones and Caves of Wales* (1989). The first gives a good account of cave fauna, with flora being covered by B.D. Cubbon. The second contains the background to early collecting in Britain, and provides a detailed and invaluable classified list of invertebrates recorded in Welsh caves and mines. J.M. Dixon constructed a similar list, also using modern nomenclature, covering north-west England (1974), while Mary Hazelton dealt with Mendip (1975) and the Peak District (1977). The Mendip volume, in particular, included some excellent general information. All, however, are indexed by species rather than site.

The most recent publication of note, and eminently readable for the non-specialist, is Philip Chapman's *Caves and Cave Life* (1993). For information on other published works on cave biology, this and the *Limestones and Caves* series are the best sources. For other references to specific groups of organisms, Kerrich, Hawksworth & Sims (1978) give details of key works to consult, although now out of date with respect to recent changes in nomenclature. Lawrence (1989) was used as the basis for the taxonomic nomenclature in Appendix 1 and the main index.

USING THE INDEX

The index is in four sections. The first two cover caves of Great Britain & Ireland, and international sites. The third section includes all mines and man-made tunnels. Each contains site names listed alphabetically.

Organisms commonly regarded as belonging solely in caves may not be as truly limited as was once thought. Any species may not only be found within cavities that man can penetrate, but also in groundwater or minute interstitial cavities. It is reasonable that species inhabiting mines might also exist in such places as man-made wells, something recognised by the CRG collectors. A large number of

wells and springs were therefore examined, together with samples from water-bearing gravels; an index to these sites forms the fourth section.

Cave names used in this index have been updated, where necessary, to conform to the spelling and name used in current caving guidebooks. Each site has also been identified with its geographical area (eg. Gower) or modern county, rather than the vice-county. In the case of geographical areas, these have been used in the same manner as current guidebooks. For example, sites normally associated with a region are included under that heading; caves linked with the Mendip region are therefore listed as such, even though they may lie off the Mendip plateau. Forest of Dean sites are listed as such, while an entry for Gloucestershire indicates the region to the north-east of Cheltenham. An entry for Devon includes caves within the region, although some may lie in adjoining counties. Yorkshire entries encompass the modern counties. Sites outside Great Britain and Ireland are indexed under country. Sites listed in Section 4 (wells, springs and gravels) are more widespread and are listed under county names.

For each site, identified organisms are given to the level of order, followed by the issue and page numbers where one or more entries may be found. Where the order is not given, the classification used in the publications appears in the index. To aid the use of the index by non-specialists, an alphabetical taxonomic listing has been used within each cave site.

To reduce the space requirement for each listing, page numbers have been elided wherever possible. However, this should not be taken to indicate a continuous entry; it is far more usual to find sites scattered over several consecutive pages. Care must therefore be taken to check each indexed page thoroughly, especially as there may be more than one entry for a site or species and some species (especially within the Diplopoda) may appear under different classes or orders.

Some editions carried corrections to previous issues, which should be checked for possible changes to species. Where these corrections apply to entries within this index, they have been incorporated.

The first number given is the issue number, separated from the page numbers by a colon. Issues follow the numbers ascribed to them on the cover (originally in Roman numerals), with the exception of the two separate sections of part 2, referred to as 2a and 2b, and part 9, originally issue 1 of a new series (see Appendix 2). Non-consecutive page numbers within a single issue are separated by a comma.

CONCLUSION

This index will facilitate the location of sites where collections took place during this formative era of cave faunal collection, from 1938 to 1963. In turn, this can provide a stepping stone for more detailed research in specific areas. Cave biology is still in its infancy compared with other fields of the scientific discipline. It is hoped that interest amongst cavers, especially given an increasing recognition of the importance of cave conservation, will strengthen in the future.

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AGE-BIC

SECTION 1: CAVES, GREAT BRITAIN & IRELAND

Agen Allwedd (South Wales)

- Annelida Oligochaeta, 5:7, 7:7, 8:20
 Arachnida Acari, 8:35, 9:10
 Araneae, 8:35
 Crustacea Amphipoda, 5:7, 7:7,31, 8:19-20,35
 Isopoda, 5:7, 7:7
 Insecta Coleoptera, 7:7,56, 8:3,20,23,35-6, 9:8,10
 Collembola, 7:7,55-6
 Diptera, 7:7,55, 8:4,20-1,23,35-6, 9:10
 Lepidoptera, 9:10
 Plecoptera, 8:35
 Trichoptera, 7:31, 8:21,36

Agen Fawr, Ogor (South Wales)

- Insecta Diptera, 7:32

Allt nan Uamh Stream Cave (Assynt)

- Arachnida Acari, 7:52
 Insecta Collembola, 7:51-3
 Diptera, 7:52

Alum Pot (Yorkshire)

- Insecta Ephemeroptera, 1:11

Ashberry Windypits (Yorkshire)

- Arachnida Araneae, 6:29,30
 Crustacea Isopoda, 6:29
 Insecta Coleoptera, 6:30
 Diptera, 6:30
 Lepidoptera, 6:30

Attermire Cave (Yorkshire)

- Arachnida Araneae, 2b:2
 Insecta Diptera, 2b:3

August Hole (Mendip)

- Arachnida Araneae, 8:6
 Crustacea Amphipoda, 6:13-14
 Insecta Trichoptera, 7:14, 8:35
 see also Longwood Swallet

Aveline's Hole (Mendip)

- Platyhelminthes Rhabdocoela, 1:11

Axbridge Ochre Mine [Cave] (Mendip)

- Arachnida Araneae, 6:4
 Insecta Collembola, 6:4

Ayleburn Cave (Cumbria)

- Crustacea Amphipoda, 6:15
 Insecta Diptera, 6:15

Bagshawe Cavern (Peak District)

- Annelida Oligochaeta, 3:16

- Arachnida Acari, 1:6, 3:16, 4:8, 5:21
 Araneae, 5:21
 Crustacea Amphipoda, 4:4, 5:21
 Cyclopoida, 1:8
 Diplopoda Oniscomorpha, 3:16, 4:7
 Proterospemphora, 1:7, 4:7
 Insecta Coleoptera, 1:1, 4:4,7-8, 5:21
 Collembola, 1:4-5, 4:8, 5:21
 Diptera, 1:2

Baker's Pit Cave (Devon)

- Annelida Oligochaeta, 4:6,13,15, 8:16
 Arachnida Acari, 4:12-13,17, 8:33
 Araneae, 8:34
 Opiliones, 8:33
 Chilopoda Lithobiomorpha, 4:16
 Crustacea Amphipoda, 6:22,24
 Diplopoda Oniscomorpha, 4:11-12
 Insecta Coleoptera, 4:11, 8:33
 Collembola, 1:9-10, 4:2-3,6,11-12,15-16,
 5:20, 6:22,24, 8:13,16,21,33
 Diptera, 4:5,11-12,16
 Trichoptera, 8:34
 Mollusca Pulmonata, 8:13
 Nematomorpha Gordioidea, 4:13
 Platyhelminthes Tricladida, 8:16

Banwell Bone Cave (Mendip)

- Arachnida Araneae, 3:10
 Crustacea Isopoda, 3:10
 Insecta Hymenoptera, 7:18

Banwell Ochre Cave (Mendip)

- Annelida Oligochaeta, 5:11
 Insecta Diptera, 7:18

Barlands Sink Hole (Gower)

- Crustacea Isopoda, 8:19

Bat Cave (Peak District)

- Crustacea Isopoda, 6:12

Beeston Tor Cave (Peak District)

- Arachnida Araneae, 6:2

Bickington Pot/Cave (Devon)

- Annelida Oligochaeta, 8:14,16
 Arachnida Acari, 8:14-17
 Araneae, 8:14-15
 Insecta Coleoptera, 8:15-17
 Collembola, 8:14-17
 Diptera, 8:14-17
 Trichoptera, 8:16
 Mollusca Pulmonata, 8:15-16

SECTION 1: CAVES, GREAT BRITAIN & IRELAND

BIS-CUI

Bishopley Quarry Cave (Durham)

Insecta Diptera, 6:21

Bladders Hole (Gloucestershire)

Arachnida Araneae, 7:49,55

Blue John Caverns (Peak District)

Diplopoda Proterospermophora, 1:7

Insecta Collembola, 1:4-5

Bradwell Cave (Peak District)

Insecta Diptera, 3:18

Browne's Hole (Mendip)

Insecta Collembola, 8:18

Buckfastleigh (Devon)

Arachnida Acari, 4:16, 5:9

see also named caves**Bull Pot of the Witches (Cumbria)**

Annelida Oligochaeta, 6:28

Insecta Coleoptera, 7:59

Collembola, 7:59

Bunker's Hole (Devon)

Insecta Collembola, 5:20

Symphyla Scolopendrella, 5:20

Calesdale, unnamed cave (Peak District)

Insecta Diptera, 7:61

Carlswark Cavern (Peak District)

Arachnida Acari, 8:24

Crustacea Amphipoda, 4:1, 7:14, 8:6

Diplopoda Proterospermophora, 8:5,7

Insecta Coleoptera, 4:1, 7:14, 8:2,6,24

Collembola, 8:2,5,7-8,24

Diptera, 8:5,7-8

Mollusca Pulmonata, 8:24

Platyhelminthes Rhabdocoela, 8:7

Tricladida, 8:6

Ceiriog Cave (North Wales)

Arachnida Acari, 7:60

Diplopoda Proterospermophora, 7:60

Insecta Coleoptera, 7:60

Collembola, 7:60-1

Chelm's Combe Quarry Cave (Mendip)

Insecta Diptera, 6:4

Chudleigh Cavern (Devon)

Arachnida Acari, 4:9-10,17

Insecta Collembola, 4:9

Churn Holes (Peak District)

Arachnida Araneae, 7:34

Cil yr Ychen, Ogof (South Wales)

Crustacea Isopoda, 8:41

Insecta Diptera, 8:41

Clapham Cave (Yorkshire)*see* Ingleborough Cave**Cleeve Hill Cave (Gloucestershire)**

Arachnida Araneae, 7:54

Clifford's Cave (Devon)

Arachnida Araneae, 8:13

Crustacea Isopoda, 7:63, 8:13,17

Mollusca Pulmonata, 8:13

Cnoc nan Uamh (Assynt)

Annelida Oligochaeta, 7:48

Arachnida Acari, 7:52

Crustacea Amphipoda, 7:30

Insecta Collembola, 7:52

Diptera, 7:30

Trichoptera, 7:53

Combs Cave (Yorkshire)

Insecta Diptera, 8:38

Cook's Wood Hole (Mendip)

Insecta Trichoptera, 6:29

Corner Cave (Gloucestershire)

Arachnida Araneae, 7:54,55

County Pot (Cumbria)*see* Ease Gill Caverns**Cranham Caves (Forest of Dean)**

Insecta Collembola, 8:4

Cuckoo Cleaves (Mendip)

Crustacea Amphipoda, 3:9,18

Isopoda, 6:14

Cuddy Gill Cave (Yorkshire)

Arachnida Araneae, 4:8

Insecta Coleoptera, 7:59

Trichoptera, 7:59

Cuil Dubh Sink [Wild Cat Hole] (Assynt)

Insecta Plecoptera, 7:48

Mollusca Pulmonata, 7:49

CUI-ELP

SECTION 1: CAVES, GREAT BRITAIN & IRELAND

Cuil Dubh Sink (Wild Cat Hole), hole near (Assynt)

Insecta Siphonaptera, 7:46

Cumberland Cavern (Peak District)

Arachnida Acari, 6:19,25
Araneae, 6:28
Crustacea Isopoda, 6:6,16,25,28
Diplopoda Opisthospermophora, 6:25
Proterospermophora, 6:16,19
Insecta Collembola, 6:17-19,29

Cwm Dwr Quarry Cave (South Wales)

Crustacea Amphipoda, 8:4
Isopoda, 8:4
Insecta Collembola, 8:4
Symphyla Scolopendrella, 8:5

Dale Barn Cave (Yorkshire)

Insecta Collembola, 7:59

Dan yr Ogof (South Wales)

Annelida Oligochaeta, 4:6
Arachnida Araneae, 4:7
Crustacea Amphipoda, 2a:8, 3:14
Isopoda, 1:9, 3:14,17, 4:7
Insecta Coleoptera, 2a:8
Collembola, 3:11
Diptera, 2b:8
Ephemeroptera, 3:17

Dart Garage Cave (Devon)

Crustacea Isopoda, 4:17
Diplopoda Oniscomorpha, 4:17

Denny's Hole (Mendip)

Arachnida Araneae, 3:17
Crustacea Amphipoda, 3:8
Isopoda, 3:8,17
Insecta Collembola, 3:8
Diptera, 3:17

Dido's Cave (Peak District)

Chilopoda Lithobiomorpha, 9:7
Insecta Diptera, 9:7

Diggins Hole Cave (Forest of Dean)

Diplopoda Opisthospermophora, 7:8

Dog Hole (Devon)

Arachnida Araneae, 4:5,10
Mollusca Pulmonata, 8:32

Dog Holes (Lancashire)

Arachnida Araneae, 8:40

Doolin Cave (Co. Clare)

Annelida Oligochaeta, 6:26
Crustacea Amphipoda, 6:26
Isopoda, 6:26
Insecta Hemiptera, 6:26
Trichoptera, 6:25

Dow Cave (Yorkshire)

Insecta Neuroptera, 8:26

Downey's Cave (South Wales)

Insecta Coleoptera, 5:2
Diptera, 5:2

Drunkard's Hole (Mendip)

Arachnida Araneae, 8:9

Ease Gill Caverns (Cumbria)

Annelida Oligochaeta, 9:19
Crustacea Amphipoda, 6:12
Insecta Coleoptera, 3:17, 8:39
Collembola, 6:12
Diptera, 8:39
Plecoptera, 9:19
Trichoptera, 8:40
Platyhelminthes Tricladida, 6:12

Easter Cave (South Wales)

see Pasg, Ogof

Eastwater Cavern (Mendip)

Annelida Oligochaeta, 2a:2,5
Crustacea Amphipoda, 3:19
Cyclopoida, 5:10
Insecta Coleoptera, 1:10, 3:19, 5:10
Collembola, 1:9, 2a:2, 3:19
Diptera, 1:2,10, 3:19, 5:10
Trichoptera, 3:19
Platyhelminthes Tricladida, 5:10, 8:39

Eglin's Hole (Yorkshire)

Crustacea Amphipoda, 8:26
Insecta Ephemeroptera, 8:27
Trichoptera, 8:27

Elderbush Cave (Peak District)

Insecta Diptera, 7:20
Lepidoptera, 7:20

Elpha Green Cave (Northumberland)

Arachnida Araneae, 6:16,21
Crustacea Isopoda, 6:16
Insecta Coleoptera, 6:21
Diptera, 6:16
Lepidoptera, 6:16
Mollusca Pulmonata, 6:16,21

SECTION 1: CAVES, GREAT BRITAIN & IRELAND

ESG-GLE

Esgyrn, Ogof yr (South Wales)

Crustacea Amphipoda, 7:45

Fairy Cave (Cumbria)

Crustacea Amphipoda, 5:18

Fairy Cave (Mendip)

Diplopoda Proterospermophora, 1:7

Insecta Collembola, 1:3-4

Platyhelminthes Tricladida, 1:6

Fairy Holes (Durham)

Annelida Oligochaeta, 6:9,10

Arachnida Araneae, 6:9, 7:49

Crustacea Amphipoda, 6:10, 7:50

Insecta Collembola, 6:11, 7:50

Diptera, 6:6,9-10,15-16, 7:46,50-1

Ephemeroptera, 7:46,50

Plecoptera, 7:45,50

Trichoptera, 6:9

Pisces Trout, 6:8

Platyhelminthes Tricladida, 7:51

Faunarooska Cave (Co. Clare)

Crustacea Amphipoda, 5:16

Insecta Trichoptera, 5:16

Festival Hole (Devon)*see* Hawk's Hole**Ffynnon Ddu, Ogof (South Wales)**

Arachnida Araneae, 8:19

Crustacea Amphipoda, 2b:4, 3:14, 4:3-6,14-15,
5:4,7-9, 6:25, 7:8,64, 8:19

Cyclopoida, 5:8

Isopoda, 3:8,14,16, 4:3,5, 5:1,7, 8:5,19

Diplopoda Opisthospermophora, 4:14

Insecta Coleoptera, 2b:12, 3:14-15, 4:3,5,14-15,
5:7, 7:10, 8:19, 9:17

Collembola, 2b:12, 3:15, 4:14-15,

5:7,14, 7:10,40,64, 8:10, 9:15

Diptera, 3:11, 4:4,14, 5:7-8, 7:10-11,
8:19, 9:17

Hymenoptera, 9:9

Trichoptera, 3:16, 9:17

Mammalia Shrew, 3:20

Fox Hole Cave (Peak District)

Insecta Diptera, 6:2

Fox Holes (Peak District)

Annelida Oligochaeta, 5:6

Arachnida Acari, 5:5

Fox Holes (Peak District) (cont)

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- Annelida Oligochaeta, 8:14
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Rock House Cave (Devon)

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- Arachnida Acari, 8:10
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- Crustacea Amphipoda, 7:58
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- Crustacea Amphipoda, 6:20, 7:2
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- Arachnida Araneae, 7:49
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- Annelida Oligochaeta, 5:10
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- Diplopoda Opisthospermophora, 9:8
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- Arachnida Acari, 4:17

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Snelslow Swallet [Snelslow Lead Mine] (Peak District)

- Insecta Diptera, 6:18

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- Arachnida Araneae, 6:15
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- Crustacea Amphipoda, 7:45

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Storrs Cave (Yorkshire)

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Stump Cross Caverns (Yorkshire)

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	Collembola, 6:19,27, 8:26,28
	Diptera, 6:18,27, 8:27

Swildon's Hole (Mendip)

Amphibia	Frog, 2a:4
Annelida	Oligochaeta, 1:6, 2b:7, 7:31, 8:12
Arachnida	Acari, 1:6, 2a:11, 6:4, 7:32
	Araneae, 2a:5
Crustacea	Amphipoda, 2a:5,7, 2b:2, 6:4, 8:18
	Cyclopoida, 1:8
	Isopoda, 3:15, 5:12,15, 6:4,6, 8:9
Diplopoda	Oniscomorpha, 2a:4-5,11
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	2b:14, 8:12
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	Collembola, 1:3,11, 2a:2,11, 2b:7, 7:31,
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	Plecoptera, 3:17
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Mollusca	Pulmonata, 2a:1,11
Platyhelminthes	Tricladida, 2b:8
	Unnamed, 6:4
Protozoa	Unnamed, 5:19
Rotifera	Unnamed, 5:19

Swinhopeburn Cave (Durham)

Arachnida	Araneae, 6:20
Crustacea	Amphipoda, 6:15
	Isopoda, 6:20
Insecta	Diptera, 6:15,21
	Lepidoptera, 6:15,21

Symonds Yat Caves (Forest of Dean)

Insecta	Coleoptera, 8:4
	Collembola, 8:4, 9:15
	Diptera, 9:14-15
	Trichoptera, 9:14

Thirst House Cave (Peak District)

Arachnida	Acari, 6:1
Diplopoda	Oniscomorpha, 6:1
Insecta	Collembola, 5:14
	Diptera, 5:14, 6:2, 7:34
	Trichoptera, 6:2

Tooth Cave (Gower)

Mollusca	Pulmonata, 8:40
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Tornewton Cave (Devon)

Arachnida	Acari, 8:13
Crustacea	Cyclopoida, 8:13

Town Drain (South Wales)

Insecta	Coleoptera, 8:4
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Traligill Rising (Assynt)

Annelida	Oligochaeta, 4:48
Insecta	Diptera, 7:47
	Ephemeroptera, 7:47
	Plecoptera, 7:47-8
	Trichoptera, 7:47
Platyhelminthes	Tricladida, 7:46

Treak Cliff Cavern (Peak District)

Annelida	Oligochaeta, 2b:14
Arachnida	Araneae, 2b:7
Insecta	Coleoptera, 2b:13, 4:14
	Collembola, 1:4-5
	Diptera, 2b:13-14
Platyhelminthes	Tricladida, 1:6

Tremeirchion Caves (North Wales)

Insecta	Diptera, 6:3
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Trollers Gill New Cave (Yorkshire)

Arachnida	Araneae, 8:27
Insecta	Trichoptera, 8:27

Tunnel Cave (South Wales)

Arachnida	Araneae, 2b:3
Crustacea	Amphipoda, 6:24, 7:4
Diplopoda	Opisthospermophora, 2b:3
Insecta	Collembola, 6:13,17-18
	Diptera, 6:13,23, 7:10

Turn Dub (Yorkshire)

Crustacea	Harpacticoida, 9:14
	Ostracoda, 9:14

Twin Bottom Scar Cave (Yorkshire)

Insecta	Diptera, 8:11
Platyhelminthes	Tricladida, 8:11

Uahm nan Caluman (Assynt)

Arachnida	Araneae, 7:49,52-4
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Uamh an Tartair (Knockan, Assynt)

Annelida	Oligochaeta, 7:53
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SECTION 1: CAVES, GREAT BRITAIN & IRELAND

UPP-YOR

Upper Long Churn Cave (Yorkshire)

- Crustacea Amphipoda, 7:62
Isopoda, 7:62
Insecta Diptera, 7:62
Ephemeroptera, 7:62
Trichoptera, 7:62

see also Lower Long Churn Cave**Walker's Grotto [Cave] (Peak District)**

- Insecta Collembola, 5:1

Walkers' Cave (Peak District)*see* Walker's Grotto**Waterfall Cave (Durham)***see* Widley Caves**West Ogwell Cave (Devon)**

- Arachnida Acari, 4:11
Araneae, 4:11
Diplopoda Proterospermophora, 7:60
Insecta Collembola, 4:11, 7:60
Diptera, 4:11, 7:60

White Lady Cave (South Wales)

- Insecta Collembola, 7:9

White Scar Cave (Yorkshire)

- Annelida Oligochaeta, 8:30, 9:12-13
Arachnida Acari, 7:32, 9:12
Unnamed, 7:59, 8:12
Crustacea Amphipoda, 7:32, 57-8, 8:29-30
Cyclopoida, 8:29, 9:13
Syncarida, 9:12-13

White Scar Cave (Yorkshire) (ctd)

- Insecta Coleoptera, 8:12, 30
Collembola, 7:32-3, 57, 8:12, 28-30
Diptera, 7:58, 8:29
Trichoptera, 7:58, 8:29

Widley Caves [Waterfall Cave] (Durham)

- Crustacea Amphipoda, 6:7
Platyhelminthes Tricladida, 6:21
Unnamed, 6:7

Wild Cat Hole (Assynt)*see* Cuil Dubh Sink**Will's Hole (South Wales)**

- Insecta Diptera, 1:10

Wise Eel Cave (Durham)

- Arachnida Araneae, 6:7
Crustacea Isopoda, 6:7
Insecta Diptera, 6:7

Wookey Hole (Mendip)

- Diplopoda Oniscomorpha, 4:13
Proterospermophora, 1:6-7
Insecta Collembola, 1:3-4, 4:13

Yordas Cave (Yorkshire)

- Arachnida Araneae, 7:5
Insecta Collembola, 7:5
Diptera, 7:5
Lepidoptera, 8:12

AUS-POR

SECTION 2: CAVES, INTERNATIONAL

AUSTRIA

Mammuthöhle
Insecta Diptera, 8:22

FRANCE

Chourum de la Parza
Insecta Trichoptera, 9:18

Guiers Vif, Grotte du

Arachnida Acari, 8:20
Crustacea Amphipoda, 8:20
Diplopoda Oniscomorpha, 8:20

Petit Chourum Clot

Insecta Diptera, 9:18
Trichoptera, 9:19
Mammalia Bat, 9:19

GIBRALTAR

Boat Hoist Cave
Arachnida Araneae, 7:25

Devil's Fall Cave

Arachnida Araneae, 7:25

Glen Rocky Caves (East & West)

Arachnida Araneae, 7:25-7
Crustacea Isopoda, 7:25
Insecta Coleoptera, 7:26
Mollusca Pulmonata, 7:25

Gorham's Cave

Arachnida Acari, 7:27
Insecta Lepidoptera, 7:27

Judges Cave

Annelida Unnamed, 7:24
Arachnida Araneae, 7:24
Unnamed, 7:24-5
Crustacea Isopoda, 7:24-5,27
Insecta Collembola, 7:24
Mollusca Pulmonata, 7:24

Leonora Cave

Arachnida Araneae, 7:22,39
Crustacea Cyclopoida, 7:22
Isopoda, 7:22,39
Diplopoda Unspecified, 7:22,40
Insecta Diptera, 7:26
Platyhelminthes Cestoda, 7:22
Rhabdozoela, 7:23
Tricladida, 7:26

GIBRALTAR (cont)

Martin's Cave
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Arachnida Araneae, 7:23,27
Crustacea Isopoda, 7:23,25
Diplopoda Unnamed, 7:23
Insecta Diptera, 7:23

New St Michael's Cave

Arachnida Acari, 7:27
Araneae, 7:20-1,40
Crustacea Isopoda, 7:21,27
Insecta Collembola, 7:21,26
Diptera, 7:21-2,40
Platyhelminthes Tricladida, 7:26

Old St Michael's Cave

Arachnida Araneae, 7:26
Opiliones, 5:12
Crustacea Isopoda, 5:13

Spider Cave

Arachnida Araneae, 7:40

LEBANON

Afqa, mgharet

Insecta Lepidoptera, 6:12
Trichoptera, 6:11

Jeita, Grotte de (Dog River Cave)

Crustacea Isopoda, 6:11

MALTA & GOZO

Calypto's Cave (Gozo)

Crustacea Isopoda, 5:12

Hassan, Ghar (Malta)

Arachnida Acari, 5:4,12
Araneae, 5:4
Crustacea Isopoda, 5:4

Ta Navo Cave (Gozo)

Arachnida Araneae, 5:12

PORTUGAL

Contenda

Crustacea Amphipoda, 7:12
Isopoda, 7:11

Mindhinu

Crustacea Isopoda, 7:11
Mollusca Pulmonata, 7:11

Moinhos Velhos, Gruta dos

Crustacea Isopoda, 7:11
Fungi Unnamed, 7:12
Insecta Collembola, 7:12-13
Hymenoptera, 7:12

SECTION 3: MINES & TUNNELS

AXB–HIL

Axbridge Ochre Mine (Mendip)*see section 1***Ball Eye Mines (Peak District)**Arachnida Acari, 5:6, 7:36
Araneae, 7:35Insecta Collembola, 5:6, 7:35
Diptera, 5:6, 7:36**Barrow Scout Mine (Lancashire)**Insecta Coleoptera, 9:18
Diptera, 9:18**Beck Level & Shaft (Peak District)***see section 3, Great Masson Cavern***Becksley [Bexley?], dene hole (Kent)**Arachnida Araneae, 3:12
Diplopoda Proterospemphora, 3:12**Biddlecombe Mine (Somerset)**Crustacea Isopoda, 8:34
Insecta Diptera, 8:34
Lepidoptera, 8:34**Bincliffe Mine (Peak District)**Annelida Oligochaeta, 6:17
Insecta Diptera, 6:17-18**Blind Gill Level (Yorkshire)**Annelida Oligochaeta, 8:38
Insecta Diptera, 8:38**Bowler Combe (Forest of Dean)**

Insecta Diptera, 9:8

British Iron Mine (Forest of Dean)*see section 3, Clearwell Caves***Chipping Campden, stone mine (Gloucestershire)**Diplopoda Oniscomorpha, 3:12
Insecta Collembola, 3:12**Clearwell Caves [British Iron Mine] (Forest of Dean)**

Insecta Collembola, 9:15

*see also New Dunn Iron Mine and Old Bow Iron Mine***Combe Tunnel Slate Works (Devon)***see section 3, Penn Recca Quarry Cave***Cwmystwyth Lead Mines (Mid Wales)**

Annelida Oligochaeta, 7:31

Ecton Copper Mines (Peak District)Annelida Oligochaeta, 2b:6
Arachnida Acari, 2b:6
Insecta Coleoptera, 2b:5
Collembola, 2b:6
Diptera, 2b:14-15**Firestone mine, Bath (Avon)**

Crustacea Isopoda, 5:9

Gillfield Level (Yorkshire)Insecta Coleoptera, 8:25
Collembola, 8:26
Diptera, 8:25-7**Godstone Mine (Surrey)**Annelida Oligochaeta, 3:9
Arachnida Acari, 3:6,9
Araneae, 3:10
Crustacea Isopoda, 3:7,9
Diplopoda Oniscomorpha, 3:6,10
Proterospemphora, 3:9
Insecta Diptera, 3:9**Gorton Level (Yorkshire)**Arachnida Araneae, 8:25
Insecta Diptera, 8:25**Grays, dene hole (Essex)**Arachnida Araneae, 5:18
Insecta Diptera, 5:18**Great Masson Cavern: Beck Level & Shaft (Peak District)**Annelida Oligochaeta, 7:37
Arachnida Acari, 7:37-8
Crustacea Amphipoda, 7:15
Isopoda, 7:15
Diplopoda Opisthospermophora, 7:15
Insecta Collembola, 7:37
Diptera, 7:36-7
Mollusca Pulmonata, 7:15*see also King Mine and Knowles Mine***Greenstone mine, Caterham (Surrey)**Annelida Oligochaeta, 5:19
Diplopoda Proterospemphora, 5:19
Platyhelminthes Tricladida, 5:19**Groves Mine, Long Wet (Yorkshire)**

Insecta Trichoptera, 9:18

Hillocks Mine (Peak District)Insecta Coleoptera, 8:7
Collembola, 8:7,25
Diptera, 8:7,25

HOP-SAN

SECTION 3: MINES & TUNNELS

Hopping Mine (Peak District)

Annelida	Oligochaeta, 7:35
Arachnida	Acari, 7:35
Insecta	Coleoptera, 7:35
	Diptera, 7:35

Hyde Mine (Forest of Dean)

Arachnida	Acari, 9:8
Insecta	Diptera, 9:8

King Mine (Peak District)

Annelida	Oligochaeta, 7:17
Arachnida	Acari, 7:17
Insecta	Coleoptera, 7:38
	Collembola, 7:18
	Diptera, 7:17,37

see also section 3, Great Masson Cavern

Knotlow Cavern (Peak District)

Crustacea	Amphipoda, 7:31
Insecta	Collembola, 8:7

Knowles Mine (Peak District)

Annelida	Oligochaeta, 2b:14
Diplopoda	Oniscomorpha, 2b:14
Insecta	Collembola, 2b:6
	Diptera, 2b:13

see also section 3, Great Masson Cavern

Lady Park Wood Iron Mine (Forest of Dean)

Arachnida	Acari, 7:8
Insecta	Collembola, 7:8
Symphyla	Scolopendrella, 7:8

Levelgate Top Mine (Durham)

Insecta	Diptera, 6:7
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Long Wet (Yorkshire)

see Groves Mine

Mandale Rake (Peak District)

Crustacea	Amphipoda, 8:25
Insecta	Diptera, 8:25

Masson Mine (Peak District)

see section 3, Great Masson Cavern

Merlin's Mine (Peak District)

Insecta	Collembola, 5:13
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Moss House Mine (Lancashire)

Annelida	Oligochaeta, 8:39-40
Crustacea	Isopoda, 8:40
Insecta	Coleoptera, 9:18
	Diptera, 8:39

New Dunn Iron Mine (Forest of Dean)

Annelida	Oligochaeta, 7:51
Arachnida	Acari, 9:16
Crustacea	Amphipoda, 7:51
Diplopoda	Opisthospermophora, 9:16
	Proterospermophora, 7:51
Insecta	Coleoptera, 9:16
	Collembola, 7:51, 9:15-17
Pauropoda	Unspecified, 9:17
	<i>see also section 3, Clearwell Caves</i>

Newmarket, stone mine (Gloucestershire)

Crustacea	Isopoda, 7:55
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Nickergrove Mine (Peak District)

Insecta	Trichoptera, 5:3
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Ochre Mine, Axbridge (Somerset)

see section 1, Axbridge Ochre Mine

Old Bow Iron Mine (Forest of Dean)

Insecta	Collembola, 9:15
	Diptera, 9:9

see also section 3, Clearwell Caves

Old Tor Mine (Peak District)

Insecta	Diptera, 7:20
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Penn Recca Quarry Cave/Combe Tunnel (Devon)

Arachnida	Acari, 4:16,18
	Araneae, 4:17
Insecta	Collembola, 4:16-17
	Trichoptera, 4:18

Priscilla Level (Yorkshire)

Arachnida	Araneae, 8:38
Insecta	Diptera, 8:38
	Trichoptera, 8:38

Pylon Pot (Cumbria)

Insecta	Collembola, 8:40
	Diptera, 8:40

Roman Hole, iron mine (Forest of Dean)

Diplopoda	Myriapoda, 7:55
Insecta	Collembola, 7:55

Sam Oon Level (Yorkshire)

Insecta	Diptera, 8:26
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Sandford Levvy (Mendip)

Arachnida	Araneae, 7:5
Insecta	Coleoptera, 7:18
	Collembola, 7:5
	Diptera, 7:5

SECTION 3: MINES & TUNNELS**SEV-YST****Seven Sisters Coal Mine (South Wales)**

Arachnida Araneae, 3:15

Sir Francis Level (Yorkshire)

Arachnida Acari, 8:39

Insecta Collembola, 8:39

Smye Trial Level (Yorkshire)

Crustacea Amphipoda, 8:39

Swinnergill Mine (Yorkshire)

Insecta Trichoptera, 8:27

Temple Mine (Peak District)

Annelida Oligochaeta, 7:17

Arachnida Acari, 7:17

Crustacea Isopoda, 7:16

Insecta Collembola, 7:17

Diptera, 7:16

Platyhelminthes Tricladida, 7:17

Wapping Mine (Peak District)

Diplopoda Oniscomorpha, 6:28

Opisthospermophora, 7:15

Proterospermophora, 7:15

Insecta Collembola, 7:15

Diptera, 6:29

Welbeck Colliery (Nottinghamshire)

Insecta Coleoptera, 7:13

West Shoreston Hall Colliery (Northumberland)

Crustacea Cyclopoida, 7:42

Ystone Mine (Gloucestershire)

Arachnida Acari, 8:5

Diplopoda Opisthospermophora, 8:5

Insecta Collembola, 8:5-6

SECTION 4: WELLS, SPRINGS & GRAVELS**ABB-BUC****Abbots Langley, well (Herts)**

Crustacea Amphipoda, 7:44

Cyclopoida, 7:44

Aldbury, Old Bakehouse Well (Herts)

Crustacea Amphipoda, 6:19

Aldbury, Toms Hill Well (Herts)

Crustacea Cyclopoida, 7:44

Insecta Hemiptera, 7:44

Asthall Leigh, Box Cottage Well (Oxon)

Crustacea Isopoda, 9:13

Ostracoda, 9:13

Asthall Leigh, The Paddock Well (Oxon)

Crustacea Cyclopoida, 9:14

Bamburgh Castle, well (Northumb)

Crustacea Cyclopoida, 7:42-3

Banham, Garden House Well (Norfolk)

Crustacea Amphipoda, 5:17

Platyhelminthes Tricladida, 5:17

Beadnell, well (Northumb)

Crustacea Cyclopoida, 7:42

Berkhamsted, spring (Herts)

Annelida Oligochaeta, 5:6

Berkhamsted, Rosway House Icehouse (Bucks)

Arachnida Araneae, 3:12

Berkhamsted, Rosway House Well (Bucks)

Annelida Oligochaeta, 4:2

Crustacea Amphipoda, 3:7, 5:15

Cyclopoida, 3:13, 5:15

Bourne End, pump well (Herts)

Crustacea Amphipoda, 8:1

Insecta Hemiptera, 8:1

Bourne End, Cole Hill Well (Herts)

Crustacea Amphipoda, 8:1

Bourne End, Lower Farm Well (Herts)

Crustacea Amphipoda, 7:4-5

Cyclopoida, 7:5

Bristol, Hanham, well (Avon)

Crustacea Amphipoda, 4:1-2

Cladocera, 4:1-2

Cyclopoida, 4:2

Brockenhurst, well (Hants)

Crustacea Amphipoda, 5:17

Buckfastleigh, Rock House Barn (Devon)

Insecta Coleoptera, 4:18

see also Rock House Cave

CAD-LYD

SECTION 4: WELLS, SPRINGS & GRAVELS

Cadover Bridge, River Plym, gravel (Devon)

Crustacea Amphipoda, 8:18
 Sycarida, 8:18

Cheddington, spring (Bucks)

Insecta Coleoptera, 7:42
 Plecoptera, 7:41

Chesham Bourne, well (Bucks)

Crustacea Amphipoda, 8:36
 Cyclopoida, 8:22,36

Chinnor, Pixies Nest Well (Oxon)

Crustacea Amphipoda, 8:1

Deuze Beach, gravel (Kent)

Crustacea Cladocera, 8:23
 Insecta Ephemeroptera, 8:23
 Isopoda, 8:23

Ditchling, Aveys' Well (East Sussex)

Crustacea Amphipoda, 6:3

Flamstead, well (Herts)

Diplopoda Opisthospermophora, 8:2
 Proterospermophora, 8:2
 Fungi Basidiomycetes, 8:2
 Insecta Collembola, 8:2
 Diplura, 8:2

Flamstead, Delmer End, well (Herts)

Crustacea Amphipoda, 8:1

Flamstead, Delmer End Farm Well (Herts)

Arachnida Acari, 7:43
 Crustacea Amphipoda, 7:43

Flamstead, Trowley Bottom Well (Herts)

Annelida Unnamed, 7:41
 Arachnida Pseudoscorpiones, 7:44
 Crustacea Amphipoda, 7:44
 Cyclopoida, 7:43-4

Frithsden, Hollybush Farm Well (Herts)

Crustacea Amphipoda, 5:13,16

Fulbourn Mill, well (Cambs)

Crustacea Cyclopoida, 8:37

Great Warley, Goldings Estate, well (Essex)

Crustacea Cyclopoida, 5:15

Harefield AID Labs, well (Greater London)

Crustacea Cyclopoida, 7:44

Harefield Grove Well (Greater London)

Annelida Pharyngobdellida, 8:1
 Crustacea Amphipoda, 8:1
 Cyclopoida, 8:1
 Isopoda, 8:1

Herts Bourne, spring (Herts)

Crustacea Cyclopoida, 8:21

Herts Bourne, Banks Rise, spring (Herts)

Annelida Oligochaeta, 7:41
 Unnamed, 7:41, 8:21
 Chilopoda Lithobiomorpha, 7:40
 Crustacea Cyclopoida, 7:41, 8:21
 Diplopoda Opisthospermophora, 7:41
 Insecta Coleoptera, 7:41
 Diptera, 7:41

Herts Bourne, Banks Rise, well (Herts)

Crustacea Amphipoda, 8:3
 Cyclopoida, 8:3
 Diplopoda Proterospermophora, 8:3

Herts Bourne, Culvert Rise (Herts)

Annelida Unnamed, 8:3

Herts Bourne, Mounts Rise, spring (Herts)

Crustacea Cladocera, 8:21
 Cyclopoida, 7:41, 8:3,22
 Ostracoda, 8:22
 Insecta Coleoptera, 8:22

Horton-in-Ribblesdale, Foredale Cottage, water supply (North Yorkshire)

Insecta Plecoptera, 9:18

Horton-in-Ribblesdale, Sherwood House Farm, water supply (North Yorkshire)

Crustacea Amphipoda, 8:11

Lindesfarne Abbey, well (Northumbs)

Crustacea Cyclopoida, 7:43

Litcham, well (Norfolk)

Crustacea Amphipoda, 6:19

Lydd, Denge Marsh, dyke (Kent)

Arachnida Acari, 8:23,37
 Crustacea Cladocera, 8:22
 Cyclopoida, 8:23
 Isopoda, 8:23,37
 Insecta Hemiptera, 8:22
 Platyhelminthes Tricladida, 8:23

SECTION 4: WELLS, SPRINGS & GRAVELS

LYD-WIN

Lydd, Walland Marsh, dyke (Kent)

Crustacea Amphipoda, 8:37

Markyate, borehole (Herts)

Crustacea Amphipoda, 7:42

Markyate, Beechwood Park Well (Herts)

Annelida Unnamed, 7:43

Crustacea Amphipoda, 7:43

Insecta Coleoptera, 7:43

Marnhull, Caraway Cottage Well (Dorset)

Crustacea Cyclopoida, 8:1

Matlock Bath, waterhole (Derby)

Annelida Oligochaeta, 7:16

Arachnida Acari, 7:16

Crustacea Isopoda, 7:16

Diplopoda Proterospermophora, 7:16

Insecta Coleoptera, 7:16

Mollusca Pulmonata, 7:16

Milborne St Andrew, well (Dorset)

Crustacea Amphipoda, 6:3

Minster Lovell, well (Oxon)

Crustacea Cyclopoida, 9:13

Mitcheldean, tunnel (Glos)

Insecta Hemiptera, 7:55

Moortown, spring (Devon)

Crustacea Amphipoda, 8:18

Syncarida, 8:18

New Buckenham, The Grange Well (Norfolk)

Platyhelminthes Tricladida, 5:17

Norwich Castle, well (Norfolk)

Crustacea Cyclopoida, 5:14,17

Nursery Well (Gibraltar)

Crustacea Cyclopoida, 7:26

Platyhelminthes Tricladida, 7:26

Oakley Well (Hants)

Crustacea Amphipoda, 8:1

Redbourn, Vicarage Garden Well (Herts)

Arachnida Acari, 7:3

Crustacea Cyclopoida, 7:3, 8:1

Ruthin Castle Tunnel (Clwyd)

Arachnida Acari, 5:3

South Brent, well (Devon)

Crustacea Amphipoda, 8:18

Ston Easton Well (Som)

Crustacea Amphipoda, 8:2

Street, passage (Som)

Arachnida Acari, 5:11

Araneae, 5:11

Crustacea Amphipoda, 5:11

Isopoda, 5:11

Studham, well (Beds)

Crustacea Amphipoda, 5:14

Surlingham, Wheatfen Broad, well (Norfolk)

Arachnida Acari, 7:3

Platyhelminthes Tricladida, 7:3

Swaffham Prior, well (Cambs)

Crustacea Amphipoda, 8:37

Tring Canal, culvert (Herts)

Arachnida Araneae, 2b:11

Tyla Farm Well (Gwent)

Crustacea Cyclopoida, 8:37

Westwood Hay House Well (Herts)

Crustacea Amphipoda, 8:38

Whelpley Hill, Spencers Farm Well (Bucks)

Crustacea Cyclopoida, 8:38

Whitchurch, well (Oxon)

Crustacea Amphipoda, 8:17

Syncarida, 8:17

Wilton Lodge Well (Herts)

Crustacea Amphipoda, 8:22

Cyclopoida, 8:22

Winkwell, gravel (Herts)

Crustacea Amphipoda, 8:37

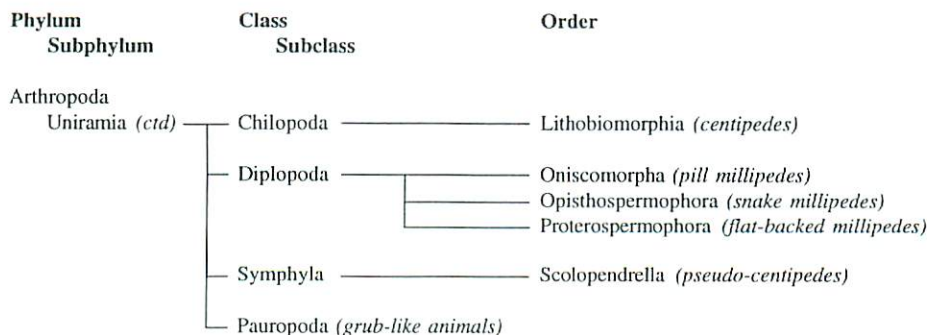
Cyclopoida, 8:37

Isopoda, 8:36, 9:14

APPENDIX 1: INVERTEBRATE TAXONOMY

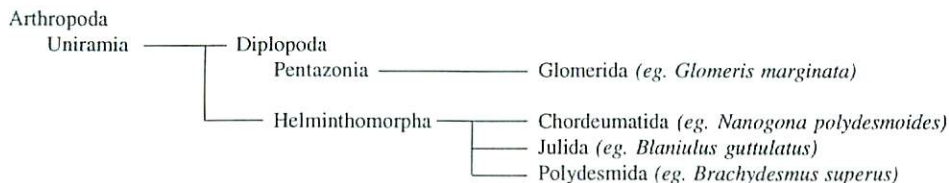
Phylum Subphylum	Class Subclass	Order
Protozoa (<i>unicellular organisms</i>)		
Platyhelminthes	Turbellaria	Rhabdozoa (<i>flatworms</i>)
		Tricladida (<i>planarian worms</i>)
	Cestoda (<i>tapeworms</i>)	
Rotifera (<i>wheel animalcules</i>)		
Nematomorpha		Gordioidea (<i>hairworms</i>)
Mollusca	Gastropoda	
	Pulmonata	Stylommatophora (<i>snails & slugs</i>)
	Bivalvia (<i>clams</i>)	
Annelida	Oligochaeta (<i>annelid worms</i>)	
	Hirudinea	Pharyngobdellida (<i>leeches</i>)
Arthropoda		
Chelicerata	Arachnida	Opiliones (<i>harvestmen spiders</i>)
		Araneae (<i>spiders</i>)
		Acari (<i>mites & ticks</i>)
		Pseudoscorpiones (<i>pseudoscorpions</i>)
<i>NB: Chelonethida, an outmoded name for the pseudoscorpions, is used in the biological records</i>		
Crustacea	Branchiopoda	Cladocera (<i>water fleas</i>)
	Ostracoda	Podocopa (<i>mussel or seed shrimps</i>)
	Copepoda	Harpacticoida (<i>benthic crustacea</i>)
		Cyclopoida (<i>benthic & planktonic crustacea</i>)
	Malacostraca	Syncarida (<i>freshwater crustacea</i>)
Isopoda (<i>woodlice</i>)		
Amphipoda (<i>sandhoppers</i>)		
Uniramia	Insecta	Thysanura (<i>silverfish</i>)
		Collembola (<i>springtails</i>)
		Ephemeroptera (<i>mayflies</i>)
		Plecoptera (<i>stoneflies</i>)
		Hemiptera (<i>bugs</i>)
		Neuroptera (<i>lacewings</i>)
		Trichoptera (<i>caddis flies</i>)
		Lepidoptera (<i>butterflies & moths</i>)
		Colcoptera (<i>beetles</i>)
		Diptera (<i>one-winged flies</i>)
		Siphonaptera (<i>fleas</i>)
		Hymenoptera (<i>ants, bees & wasps</i>)

APPENDIX 1: INVERTEBRATE TAXONOMY



NB: Chilopoda, Diplopoda, Pauropoda and Symphyla were once classified as subclasses or orders of the now unused class Myriapoda; the term Myriapoda thus included all centipedes and millipedes

Modern Diplopod taxonomy



NB: The Glomerida order name replaced that of Oniscomorpha. The genus Nanogona replaced that of Polymicrodon, thereby renaming *P. polydesmoides*, in 1980; it was previously placed in the Proterospermophora, as was *Brachydesmus superus*. *Blaniulus guttulatus* was previously within the Opisthospermophora

APPENDIX 2: PUBLICATION DATES

Issue	Pages	Years covered	Pub date	Issued with newsletter
(1)	12pp	1938–9	Dec 1955	(52)
(2a)	13pp	1940–6, 1945–6	July 1956	(58–9)
(2b)	15pp	1940–6, 1945–6	Oct 1956	(60–1)
(3)	20pp	1947	Oct 1958	(72–7)
(4)	18pp	1948–9	Jan 1959	(79–80)
(5)	21pp	1950–3	Feb 1960	(81)
(6)	31pp	1954–6	Sept 1960	–
(7)	64pp	1957–9	Dec 1961	–
(8)	41pp	1960–2	Sept 1963	–
(9)	40pp	1963	1965	–

APPENDIX 3: COLLECTORS

Collector	Issue	Collector	Issue
Alexander, J.M.	6	Martin, R.W.	8
Ashwell, Alan	8	Matthews, John	7
Birrell, S.A.	9	Maxwell, Bill	8-9
Bradley, W.K.	6-7	Moorland, T.E.	6
Burgess, H.	3	Moray, Neville	5
Butcher, A.L.	4	Morrison, George	3
Clarke, Owen	7-8	Moseley, C.M.	8
Clarke, W.E.	6	Moseley, G.M.	9
Coase, Don A.	2a, 7	Nash, D.A.	5-6
Cole, Graham	8	Newrick, Jack N.	6-8
Collins, D.R.	9	Pain, John	2b
Collins, Michael D.H.	8-9	Parker, H.	6
Colver, C.N.	6	Platt, D.H.	8
Dale, Mike	6	Platt, M.D.	8
Davies, Harold	2a, 3-4	Pratchett, Nicholas	7
Dilly, Noel	6	Railton, Lewis	2b, 3, 6-7
Douglas, N.	6	Railton, Marjorie	2b, 3-7
Driver, D.B.	9	Reynolds, Chris	7-8
Glennie, E.A.	1, 2b, 3-9	Richardson, D.T.	6
Gormley, J.W.	5	Ridyard, G.W.	4
Hawes, L.A.	8	Schofield, J.N.S.	7
Hawes, L.E.S.	6-8	Schofield, P.S.	7-8
Hawes, R.S.	4	Sellers, R.T.	5
Hazelton, G.K.	2b	Shaw, Trevor	4-6
Hazelton, Mary	1, 2b, 3-9	Shevelan, Joseph	6-9
Hesketh, G.E.	5	Simons, J.W.	7-8
Hind Smith, J.	6	Smith, Roger	6
Hooper, John	4-5	Spooner, G.M.	8
Humphries, David	7-9	Stanbury, T.H.	4
Iles, A.	9	Stewart, Peter A.E.	3, 7
Jarvis, E.J.	7	Stott, Peter	3
Jefferies, Martin	7	Strachan, J.N.	1
Jefferson, G.T.	7	Sutcliffe, A.	9
Jenkins, David	6-7	Swallow, F.	5
Jenkins, R.L.	6-7	Sweeney, Tom	7
Kenny, Peter	7	Tanner, L.J.	6
King, C.R.	5	Tapley, Robert	3
Knibbs, Anthony J.	8	Temple-West, P.	7
Leakey, Bob	4	Tucker, J.H.	6, 8
Leyman, C.	6	Turner, Derick	5-6
Lloyd, Oliver C.	5-7	Ward, A.L.	7
Lynn, Bruce	8	Weber, du Jardin	3
		Wild, Theo	3-4
		Williams, C.J.	8
		Woodford, J.A.C.	7-8
		Woodford, J.W.	7
		Workman, G.H.	6, 9
		Wynn, M.A.	6

APPENDIX 4: THE VICE-COUNTIES OF GREAT BRITAIN & IRELAND

ENGLAND & WALES

1	West Cornwall with Scilly	WC	53	South Lincoln	LS	100	Clyde Isles	B
2	East Cornwall	EC	54	North Lincoln	LN	101	Cantyre	CT
3	South Devon	SD	55	Leicester with Rutland	LR	102	South Ebudes (Islay)	I
4	North Devon	ND	56	Nottingham	NM	103	Mid Ebudes (Mull)	M
5	South Somerset	SS	57	Derby	DY	104	North Ebudes (Skye)	S
6	North Somerset	NS	58	Cheshire	CH	105	West Ross	RW
7	North Wiltshire	NW	59	South Lancashire	SL	106	East Ross	RE
8	South Wiltshire	SW	60	West Lancashire	ML	107	East Sutherland	SS
9	Dorset	DT	61	South-east Yorkshire	SY	108	West Sutherland	NS
10	Isle of Wight	IW	62	North-east Yorkshire	EY	109	Caithness	CA
11	South Hants	SH	63	South-west Yorkshire	WY	110	Outer Hebrides	HB
12	North Hants	NH	64	Mid-west Yorks	MY	111	Orkneys	OI
13	West Sussex	WX	65	North-west Yorkshire	NY	112	Shetlands	SI
14	East Sussex	EX	66	Durham	DM	IRELAND		
15	East Kent	EK	67	South Northumb	SN	113	South Kerry	SK
16	West Kent	WK	68	North Northumb	NN	114	North Kerry	NK
17	Surrey	SR	69	Westmorland with North Lanes	WL	115	West Cork	WC
18	South Essex	SE	70	Cumberland	CU	116	Mid Cork	MC
19	North Essex	NE	71	Isle of Man	IM	117	East Cork	EC
20	Hertford	HT	–	Lundy	L	118	Waterford	WA
21	Middlesex	MX	SCOTLAND			119	South Tipperary	ST
22	Berkshire	BK	72	Dumfries	DF	120	Limerick	LK
23	Oxford	OX	73	Kirkcudbright	KB	121	Clare with Aran Isles	CL
24	Buckingham	BX	74	Wigtown	WT	122	North Tipperary	NT
25	East Suffolk	ES	75	Ayr	AY	123	Kilkenny	KK
26	West Suffolk	WS	76	Renfrew	RF	124	Wexford	WX
27	East Norfolk	EN	77	Lanark	LA	125	Carlow	CW
28	West Norfolk	WN	78	Peebles	PE	126	Queen's County	QC
29	Cambridge	CB	79	Selkirk	SK	127	South-east Galway	SG
30	Bedford	BD	80	Roxburgh	RX	128	West Galway	WG
31	Huntingdon	HU	81	Berwick	BW	129	North-east Galway	NG
32	Northampton	NO	82	Haddington	HD	130	King's County	KC
33	East Gloucester	GE	83	Edinburgh	ED	131	Kildare	KI
34	West Gloucester	GW	84	Linlithgow	LL	132	Wicklow	WI
35	Monmouth	MM	85	Fife with Kinross	KF	133	Dublin	DU
36	Hereford	HF	86	Stirling	SG	134	Meath	ME
37	Worcester	WO	87	West Perth with Clackmannon	PC	135	Westmeath	WH
38	Warwick	WW	88	Mid Perth	PM	136	Longford	LF
39	Stafford	ST	89	E. Perth/N. Perth	PN	137	Roscommon	RO
40	Shropshire	SP	90	Forfar or Angus	FF	138	East Mayo	EM
41	Glamorgan	GM	91	Kincardine	KI	139	West Mayo	WM
42	Brecon	BR	92	South Aberdeen	AS	140	Sligo	SL
43	Radnor	RA	93	North Aberdeen	AN	141	Leitrim	LE
44	Carmarthen	CM	94	Banff	BF	142	Cavan	CV
45	Pembroke	PB	95	Elgin or Moray	EL	143	Louth	LH
46	Cardigan	CD	96	Easternness (East Inverness with Nairn)	EI	144	Monaghan	MO
47	Montgomery	MG	97	Westernness (West Inverness)	WI	145	Fermanagh	FE
48	Merioneth	MN	98	Mainland Argyll	AM	146	East Donegal	ED
49	Carnarvon	CR	99	Dumbarton	DN	147	West Donegal	WD
50	Denbigh and parts of Flint	DB				148	Tyrone	TY
51	Flint	FT				149	Armagh	AR
52	Anglesey	A				150	Down	DO
						151	Antrim	AN
						152	Derry	LD