

[Reprinted from the 'Journal of the Society for British Entomology,' Vol. 1, Part 8. Date of publication, 31 March, 1938.]

British Ephemeroptera, Plecoptera and Trichoptera in 1936.

This list is based upon material sent to Mr. M. E. Mosely or myself for determination, or for the purpose of recording. For the sake of brevity, initials have been used to indicate collectors' names, as follows:—H.D., Mr. H. Donisthorpe; L.W.G., Rev. Prof. L. W. Grensted; A.D.G., Master A. D. Grensted; O.G., Mrs. O. Grey; J.H.H., Prof. J. Heslop Harrison; D.E.K., Mr. D. E. Kimmins; M.E.M., Mr. M. E. Mosely; O.W.R., Dr. O. W. Richards; J.S., Dr. J. Smart; and A.R.W., Mr. A. R. Waterston.

Specimens are recorded from the following localities:—DEVON, N.: Bampton. SOMERSET, S.: Bicknoller, Carhampton, Dulverton, Dunster, Kilve, Luccombe, Monksilver, Norton Fitzwarren, Roadwater, Simonsbath, Washford, Wheddon Cross, Williton, Withycombe. HANTS, N.: North Warnborough.

⁴ These figures include abnormal catches on October 6th of 4 ♂♂, 8 ♀♀ during period 8, and on October 11th of 44 ♀♀ during period 1.

SUSSEX, E.: Nutley. KENT, W.: Edenbridge. SURREY: Dry Hill. HERTS: Hitchin. BERKS: Gayford, Swallowfield, Windsor. OXFORD: Burford, Charlbury, Deddington, Eynsham, Oxford, Thame, Woodstock. SUFFOLK, E.: Fritton. CAMBRIDGE: Barrington, Cambridge, Grantchester, Shepreth Mill. NORTHAMPTON: Towcester. WARWICK: Marton, Stonebridge. STAFFORD: Lichfield. SALOP: Leebotwood, Ludlow. BRECKNOCK: Talybont-on-Usk. LINCOLN, S.: Stamford. NOTTS: Southwell. DERBY: Repton, Swanwick. CHESHIRE: Astbury, Chelford, Wilmslow. LANCS, N.: Wray Castle. YORKS, N.E.: Glasshouses Dam. YORKS, MID-W.: Bolton Abbey, Harrogate, Ingleton, Wetherby. YORKS, N.W.: Bainbridge, Semmerwater, Swaledale. DURHAM: Durham, Seaton Carew, Team Valley. NORTHUMBERLAND: Alnwick, Chesterholm, Chollerford, Corbridge, Greenhead, Haltwhistle Burn, Hexham, Little Houghton, Riding Mill, Ross Links. WESTMORLAND: Shap, Ulleswater. CUMBERLAND: Banks, Gilsland, Lanercost. ISLE OF MAN: Archallagan, Douglas. PEBBLES: Gameshope Loch. SELKIRK: Aker Moor Loch. EDINBURGH: Balerno, Currie, Stow. PERTH, S.: Dunning, Glen Farg, L. of Menteith. PERTH, MID: Allt Leathan, Fortingall, L. Tay, White Bridge. EASTERNNESS: L. Garten, Granish. ARGYLE: L. Awe. O. HEBRIDES: Barra. DONEGAL: L. Gartan.

EPHEMERIDAE.

EPHEMEROPTERA.

Ephemera vulgata L.—Marton, 1.vi. (L.W.G.).

E. danica Müll.—Lough Gartan, 12.vii.35 (Col. Maxtone Moore). Stow, 23.vi. (A.R.W.). Glasshouses Dam, 27.vi. (A. H. Ingleby). Bainbridge, 28.vi. (O.W.R.).

LEPTOPHLEBIIDAE.

Leptophlebia marginata (L.).—Aker Moor Loch, 1,000 ft., 31.v.; Lake of Menteith, 26.iv. (A.R.W.).

Paraleptophlebia submarginata (Steph.).—Alnwick, 23.v.; Riding Mill, 19.vi. (A. H. Ingleby).

P. cincta (Retz.).—Bainbridge, 28.vi. (O.W.R.). Harrogate, 3.vii. (A. H. Ingleby). Talybont-on-Usk, 24.vii-12.viii. (J. Henderson). Monksilver, 4.viii.; Dunster, 9.viii. (A.D.G.).

Habrophlebia fusca (Curt.).—Deddington, 1-12.vi. (L.W.G.). Thame, 14.vi.; Chesterholm, 1.ix. (A.D.G.). Riding Mill, 12.viii. (A. H. Ingleby).

EPHEMERELLIDAE.

Ephemerella ignita (Poda).—Balerno, 7.vii, 5.viii. (A.R.W.). Bainbridge, 10.vii. (O.W.R.). Riding Mill, 12.viii. (A. H. Ingleby). Washford, 6.viii. (L.W.G.). Kilve, 10.viii. (L.W.G., A.D.G.). Williton, 14.viii. (A.D.G.). Gilsland, 2.ix. (L.W.G.).

CAENIDÆ.

Caenis macrura Steph.—Stamford, in cobweb, 17.vii. (L.W.G.).

C. rivulorum Etn.—Bolton Abbey, vi. (F. Napier Sutton).

BAËTIDÆ.

Baëtis pumilus (Burm.).—Kilve, 10.viii.; Chollerford, 30.viii.; Gilsland, 2.ix. (A.D.G.). Corbridge, 28.viii. (L.W.G.). Haltwhistle Burn, 1.ix. (L.W.G., A.D.G.).

B. niger (L.).—Monksilver, 4.viii. (A.D.G.).

B. scambus Etn.—Bolton Abbey, vi. (F. Napier Sutton). Monksilver, Carhampton, 4.viii.; Chesterholm, 1.ix. (A.D.G.). Washford, 6.viii.; Hexham, 30.viii. (L.W.G.). Bainbridge, 28.vi. (O.W.R.).

B. rhodani (Pict.).—Edenbridge, 10.iv. (D.E.K.). Gameshope Loch, 1,800 ft., 17.v.; Currie, 18.v.; Stow, 21.v. (A.R.W.). Little Houghton, 23.v. (A. H. Ingleby).

B. bioculatus (L.).—Wilmslow, 27.viii.; Woodstock, 1.ix. (A.D.G.). Stonebridge, 5.ix. (L.W.G., A.D.G.). Riding Mill, 12.x. (A. H. Ingleby).

B. tenax Etn.—Currie, 17.vi. (A.R.W.).

Centroptilum luteolum (Müll.).—Barra, 17-28.viii. (A.R.W.). Haltwhistle Burn, 1.ix. (A.D.G.). Oxford, 10.ix. (L.W.G.).

Cloëon simile Etn.—Barra, 17-28.viii. (A.R.W.).

C. rufulum Müll.—Lough Gartan, 12.vi.35 (Col. Maxtone Moore).

SIPHONURIDÆ.

Siphonurus lacustris Etn.—Balerno, 7.vii.; Gairloch, 16-24.vii. (A.R.W.).

S. linneanus Etn.—Lough Gartan, vii. (Commander Wyndham Forbes).

ECDYONURIDÆ.

Heptagenia sulphurea (Müll.).—Lough Gartan, 12.vii.35 (Col. Maxtone Moore). Hexham, 12.vi.; Wetherby, 26.vi. (A. H. Ingleby). Corbridge, 28.viii. (L.W.G.). Chollerford, 30.viii. (A.D.G.).

Ecdyonurus insignis (Etn.).—Bainbridge, 28.viii. (O.W.R.).

E. lateralis (Curt.).—Buttertyles, 26.vi.; Bainbridge, 2.vii. (O.W.R.). Balerno, 7.vii. (A.R.W.).

E. longicauda (Steph.).—Luccombe, 8.viii.; Chollerford, 29.viii. (L.W.G.). Riding Mill, 23.viii. (A. H. Ingleby).

E. venosus (Fabr.).—Riding Mill, 19.v. (A. H. Ingleby). Stow, 21.vi. (A.R.W.).

Rhithrogena semicolorata (Curt.).—Bolton Abbey, vi. (F. Napier Sutton). Stow, 21.v.; Balerno, 26.v. (A.R.W.). Riding Mill, 25.v.; Hexham, 12.vi. (A. H. Ingleby). Swaledale, 26.vi.; Bainbridge, 3.vii. (O.W.R.). Monksilver, 4.viii.; Washford, 5.viii. (A.D.G.).

PERLIDAE.

PLECOPTERA.

Isoptera grammatica (Scop.).—Fortingal, 18.vi.35 (J.S.).
Dunning, vii.; Glen Farg, viii. (O.G.). Bicknoller, 5.viii.
(L.W.G.).

Chloroptera torrentium (Pict.).—Loch Garten, 28.v.34
(W. H. T. Tams). Semmerwater, 22.vi.; Ulleswater,
24.vi. (O.W.R.). Fortingal, 17.vi.35; Loch Tay, Fear-
nan, and White Bridge, 18.vi.35; Wray Castle, Watbarrow
Point, 17.vi. (J.S.). Dunning, vi. (O.G.). Washford,
5.viii. (L.W.G.).

C. tripunctata (Scop.).—Swaledale, 28.vi. (O.W.R.).

CAPNIIDAE.

Capnia nigra (Pict.).—Nutley, 27.iii. (L.W.G.).

C. atra Morton.—Loch Awe, v. (M.E.M.).

TAENIOPTERYGIDAE.

Taeniopteryx risi Morton.—Granish, 27.v.34 (W. H. T.
Tams). N.W. Yorks, 25.vi. (O.W.R.).

Nephelopteryx nebulosa (L.).—Oxford, 16.iii. (L.W.G.).

LEUCTRIDAE.

Leuctra geniculata Steph.—Williton, 18.viii.; Chollerford,
30.viii. (A.D.G.). Haltwhistle Burn, 1.ix. (L.W.G.).

L. fusciventris Steph.—Washford, 5.viii.; Dunster, 8.viii.;
Simonsbath, 13.viii.; Hexham, 30.viii.; Chesterholm,
Lanercost, 1.ix.; Gilsland, 2.ix.; Banks, 3.ix.; Wood-
stock, 13.ix. (A.D.G.). Carhampton, 9.viii.; Dulverton,
19.viii.; Corbridge, 28.viii.; Haltwhistle Burn, 1.ix.;
Greenhead, 2.ix. (L.W.G.). Dunning, vii. (O.G.).

L. hippopus Kempny.—Nutley, 28.iii. (L.W.G.). L. Awe, v.
(M.E.M.).

L. inermis Kempny.—White Bridge, 18.vi.35; Allt Leathan,
19.vi.35 (J.S.). Swaledale, 28.vi. (O.W.R.). Dunning
and Ochie Hills, Glen Farg, vii. (O.G.).

NEMOURIDAE.

Protonemura meyeri (Pict.).—N.W. Yorks, 25.vi. (O.W.R.).

Amphinemura cinerea (Ol.).—Fortingal, 17.vi.35; White
Bridge, 18.vi.35 (J.S.). Shap, 24.vi.; Swaledale, 26.vi.;
Ingleton, 1.vii.; Bainbridge, 10.vii. (O.W.R.). Dunning
and Glen Farg, vii. (O.G.).

A. standfussi Ris.—Deddington, 1.vi. (L.W.G.).

Nemoura variegata Ol.—Nutley, 28.iii. (L.W.G.). Dry Hill,
10.iv. (D.E.K.). Towcester, 10.v. (L.W.G.). Thame,
14.vi. (A.D.G.). Dunning, vii. (O.G.).

N. dubitans Mort.—Fritton, iv. (C. Morley).

N. avicularis Mort.—L. Awe, v. (M.E.M.).

Nemurella inconspicua (Pict.).—Granish, 27.v.34 (W. H. T.
Tams). Simonsbath, 13.viii. (A.D.G.).

PHRYGANEIDAE.

TRICHOPTERA.

Phryganea varia Fabr.—Archallagan, 9.vii.34 (W. S. Cowin).

LIMNOPHILIDAE.

Colpotaulius incisus (Curt.).—Ross Links, ix. ; Seaton Carew (J.H.H.).

Limnophilus rhombicus (L.).—Team Valley (per J.H.H.).

L. marmoratus Curt.—Woodstock, 1.xi. (A.D.G.).

L. lunatus Curt.—Thame, 14.vi. ; Chelford, 26.viii. ; Hitchin, 6.x. (A.D.G.). Cambridge, 22.ix. (L.W.G.). Corbridge, ix. (J.H.H.).

L. elegans Curt.—Seaton Carew (J.H.H.).

L. politus McL.—Cambridge, 22.ix. ; N. Warnborough, Basingstoke Canal, 28.ix. (L.W.G.).

L. vittatus (Fabr.).—Ross Links and Corbridge, ix. ; Durham, x. (J.H.H.).

L. auricula Curt.—Ross Links and Corbridge, ix. (J.H.H.).

L. griseus (L.).—Ross Links, ix. (J.H.H.).

L. bipunctatus Curt.—Team Valley (per J.H.H.).

L. extricatus McL.—Hitchin, 20.vi. (A.D.G.).

L. hirsutus (Pict.).—Seaton Carew (J.H.H.).

L. sparsus Curt.—Douglas, 23.vi.35 (W. S. Cowin). Seaton Carew (J.H.H.).

L. fuscicornis Ramb.—Oxford, 31.vii. (L.W.G.).

Anobolia nervosa (Curt.).—Corbridge, 28.viii. ; Cambridge, 22.ix. ; Swallowfield, R. Loddon, 28.ix. ; Stonebridge, 30.ix. (L.W.G.). Chollerford, 30.viii. ; Eynsham, 17.ix. (A.D.G.).

Stenophylax stellatus (Curt.).—Corbridge, ix. (J.H.H.). Charlbury, 9.ix. (H. Scott).

S. rotundipennis (Brauer).—Eynsham, 17.ix. (A.D.G.).

S. latipennis (Curt.).—Simonsbath, 13.viii. (L. W. G.). Chesterholm, 1.ix. (A.D.G.).

S. permistus McL.—Seaton Carew (J.H.H.).

Micropterna sequax McL.—Team Valley (per J.H.H.).

Halesia radiatus (Curt.).—Eynsham, 17.ix. (A.D.G.). Cambridge, 24.ix. (L.W.G.). Team Valley (per J.H.H.).

H. auricollis (Pict.).—Corbridge, ix. ; Durham, x. (J.H.H.).

Drusus annulatus (Steph.).—Hitchin, 20.vi. ; Simonsbath, 13.viii. ; Carhampton, 18.viii. ; Gilsland, 3.ix. (A.D.G.).

Chaetopteryx villosa (Fabr.).—Oxford, 1.xi. (A.D.G.).

SERICOSTOMATIDAE.

Sericostoma personatum (Spence).—Shepreth Mill, 13.vii. ; Wheddon Cross, 13.viii. ; Dulverton, 19.viii. ; Norton Fitzwarren, 19.viii. ; Bampton, 19.viii. (L.W.G.). Dunster, 16.viii. (A.D.G.).

Notidobia ciliaris (L.).—Oxford, 16.v. (L.W.G.).

- Goëra pilosa* (Fabr.).—Burford, 16.vi. (A.D.G.). Southwell, 17.vii. (L.W.G.).
Silo pallipes (Fabr.).—Williton, 18.viii. (A.D.G.). Dulverton, 19.viii. (L.W.G.).
Crunoecia irrorata (Curt.).—Windsor, 14.vi. (H.D.).
Lepidostoma hirtum (Fabr.).—Chollerford, 30.viii. (A.D.G.). Hexham, 30.viii. (L.W.G.).

MOLANNIDAE.

- Molanna angustata* Curt.—Stamford, 17.vii. (L.W.G.).

BERAEIDAE.

- Beraea pullata* Curt.—Windsor, 14.vi. (H.D.).
B. maurus Curt.—Bicknoller, 11.viii. (A.D.G.).

ODONTOCERIDAE.

- Odontocerum albicorne* (Scop.).—Bicknoller, 6.viii.; Withycombe, 9.viii.; Bishops Lydeard, 16.viii.; Dunster, 16.viii.; Luccombe, 20.viii.; Greenhead, 2.ix. (A.D.G.).

LEPTOCERIDAE.

- Leptocerus alboguttatus* Hag.—Dunning, vii. (O.G.).
L. aterrimus Steph.—Shepreth Mill, 13.vii.; Cambridge, 16.vii.; Astbury, 5.ix. (L.W.G.).
L. cinereus Curt.—Repton, 21.vii. (L.W.G.). Corbridge, 28.viii. (A.D.G.).
L. albifrons (L.).—Washford, 5.viii.; Williton, 14.viii.; Dunster, 16.viii.; Roadwater, 19.viii. (A.D.G.). Dulverton, 19.viii.; Corbridge, 28.viii.; Hexham, 30.viii. (L.W.G.).
L. commutatus Rost.—Chollerford, 30.viii. (A.D.G.). Donning, vii. (O.G.).
L. bilineatus (L.).—Kilve, 10.viii. (A.D.G.). Leebotswood, 23.viii. (A.D.G., L.W.G.).
L. dissimilis Steph.—Chollerford, 30.viii. (A.D.G.). Corbridge, 28.viii. (L.W.G.). Hexham, 30.viii. (A.D.G., L.W.G.).
Mystacides nigra (L.).—Grantchester, 15.vii.; Cambridge, 22.ix. (L.W.G.). Bishops Lydeard, 16.viii. (A.D.G.).
M. azurea (L.).—Deddington, 21.vii.; Corbridge, 28.viii. (L.W.G.). Chollerford, 30.vii.; Eynsham, 17.ix. (A.D.G.).
M. azurea var. *albicornis* Mosely.—Chollerford, 30.viii.; Corbridge, 28.viii. (A.D.G.). Hexham, 30.viii. (A.D.G., L.W.G.). Stonebridge, 5.ix. (L.W.G.).
M. longicornis (L.).—Swanwick, 19.vii. (L.W.G.).
Setodes tineiformis (Curt.).—Woodstock, 15.ix. (L.W.G.).
Adicella reducta (McL.).—Withycombe, 2.viii.; Bicknoller, 6.viii.; Kilve, 10.viii. (A.D.G.).

HYDROPSYCHIDAE.

- Hydropsyche fulvipes* (Curt.).—Bicknoller, 11.viii. (A.D.G.).
H. instabilis (Curt.).—Kilve, 10.viii. (L.W.G.). Williton,

14.viii.; Chollerford, 30.viii. (A.D.G.). Dunning, vii. (O.G.).

H. angustipennis (Curt.).—Marton, 1.vi.; Cambridge, 22.ix. (L.W.G.). Wilmslow, 27.viii. (A.D.G.).

Diplectrona felix McL.—Bicknoller, 6.viii.; Luccombe, 8.viii. (A.D.G.).

PHILOPOTAMIDAE.

Philopotamus montanus (Don.).—Bicknoller, 6.viii. (A.D.G.). Luccombe, 20.viii. (L.W.G.).

Wormaldia occipitalis (Pict.).—Bicknoller, 11.viii.; Chesterholm, 1.ix. (A.D.G.). Luccombe, 20.viii. (L.W.G.).

W. subnigra McL.—Simonsbath, 13.viii.; Dunster, 14.viii.; Greenhead, 2.ix. (A.D.G.). Banks, 3.ix. (L.W.G.).

POLYCENTROPIDAE.

Neureclipsis bimaculata (L.).—Eynsham, 17.ix. (A.D.G.).

Plectrocnemia conspersa (Curt.).—Dunster, 16.viii.; Chesterholm, 1.ix.; Greenhead, 2.ix. (A.D.G.).

Polycentropus flavomaculatus (Pict.).—Monksilver, 4.viii.; Kilve, 10.viii.; Simonsbath, 13.viii.; Dunster, 11.viii.; Bishops Lydeard, 16.viii.; Williton, 18.viii.; Roadwater, 19.viii.; Ludlow and Leebotswood, 23.viii.; Corbridge, 28.viii.; Woodstock, 13.ix.; Gayford, 14.ix. (A.D.G.). Cutthorne, 13.viii.; Dulverton, 19.viii.; Cambridge, 22.ix. (L.W.G.).

P. multiguttatus Curt.—Dunster, 16.viii. (A.D.G.).

P. kingi McL.—Simonsbath, 13.viii. (Peter Grensted).

Holocentropus stagnalis (Albda.).—Seaton Carew (J.H.H.).

Cyrnus trimaculatus (Curt.).—Lichfield, 3.vi.; Stamford, 17.vii.; Deddington, 21.vii.; Kilve, 10.viii.; Dulverton, 19.viii.; Bampton, 19.viii. (L.W.G.). Burford, 16.vi.; Dunster, 11.viii.; Williton, 14.viii. (A.D.G.).

PSYCHOMYIIDAE.

Tinodes waeneri (L.).—Southwell, 17.vii.; Bampton, 19.viii.; Cambridge, 22.ix. (L.W.G.). Bishops Lydeard, 16.viii.; Chollerford, 30.viii.; Stonebridge, 5.ix.; Eynsham, 7.ix. (A.D.G.).

T. aureola (Zett.).—Williton, 14, 18.viii. (A.D.G.).

T. unicolor (Pict.).—Deddington, 21, 27.vii. (L.W.G.).

Psychomyia pusilla (Fabr.).—Dunster, 11.viii.; Williton, 18.viii.; Chollerford, 30.viii.; Stonebridge, 5.ix. (A.D.G.). Corbridge, 28.viii.; Hexham, 30.viii. (L.W.G.).

Lype phaeopa Steph.—Washford, 5.viii.; Luccombe, 8.viii.; Kilve, 10.viii.; Williton, 18.viii.; Chelford, 26.viii.; Woodstock, 13.ix.; Gayford, 14.ix. (A.D.G.).

L. reducta Hag.—Leebotswood, 23.viii. (A.D.G., L.W.G.). Luccombe, 20.viii.; Williton, 18.viii.; Carhampton, 2-4.viii. (A.D.G.).

RHYACOPHILIDAE.

- Rhyacophila dorsalis* Curt.—Washford, 5.viii.; Williton, 14.viii.; Ludlow, 23.viii.; Chollerford, 30.viii.; Chesterholm, 1.ix.; Gilsland, 3.ix. (A.D.G.). Dulverton, 19.viii.; Corbridge, 28.viii. (L.W.G.). Corbridge, ix. (J.H.H.). Charlbury, 15.xi. (H. Scott).
- R. obliterated* McL.—Chesterholm, 1.ix. (A.D.G.). Corbridge, ix. (J.H.H.).
- Glossosoma vernale* (Pict.).—Dunster, 11.viii.; Roadwater, 19.viii.; Hexham, 30.viii. (A.D.G.). Bampton, 19.viii. (L.W.G.).
- Agapetus fuscipes* Curt.—Hitchin, 20.vi.; Withycombe, 2, 9.viii.; Williton, 18.viii.; Roadwater, 19.viii. (A.D.G.). Bicknoller, 6.viii.; Luccombe, 20.viii. (L.W.G.).
- A. comatus* (Pict.).—Dunster, 16.viii.; Leebotswood, 23.viii. (L.W.G.).
- A. delicatulus* McL.—Washford, 2, 5.viii.; Simonsbath, 13.viii. (L.W.G.). Dunster, 7.viii.; Cutthorne, 13.viii.; Ludlow, 23.viii. (A.D.G.). Dunning, vii. (O.G.).

HYDROPTILIDAE.

- Agraylea multipunctata* Curt.—Woodstock, 13.ix. (A.D.G.).
- Hydroptila sparsa* Curt.—Deddington, 1.vi.; Stonebridge, 5.ix.; Oxford, 17.ix.; Barrington, 24.ix. (L.W.G.). Thame, 31.v.; Burford, 15.vi.; Chollerford, 30.viii.; Woodstock, 13.ix. (A.D.G.).
- H. maclachlani* Klap.—Southwell, 17.vii.; Oxford, 17.ix. (L.W.G.).
- H. forcipata* Etn.—Chollerford, 30.viii. (A.D.G.).
- H. angulata* Mosely.—Chollerford and Hexham, 30.viii. (A.D.G.).
- Oxyethira costalis* (Curt.).—Woodstock, 13.ix. (A.D.G.).
- O. falcata* Mort.—Barrington, 21.ix. (L.W.G.).
- Ithytrichia lamellaris* Etn.—Burford, 15.vi.; Chollerford, 30.viii. (A.D.G.). Hexham, 30.viii. (L.W.G., A.D.G.).
- Orthotrichia tetensii* Kolbe.—Woodstock, 15.ix. (A.D.G.).

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