

RECORDS OF TRICHOPTERA COLLECTED FOR THE BIOMONITORING OF IRELAND'S LAKE NETWORK 2022-2024

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Abstract

Records of Trichoptera are reported from Irish lakes collected as part of the EU Water Framework Directive monitoring programme. Larval material was collected during 2022-2024. Only new monad, hectad and county records are noted.

Key words: Trichoptera, caddisflies, larvae, Ireland, new records, distribution, lakes.

Introduction

The Environmental Protection Agency conducts the national Water Framework Directive monitoring programme in Ireland (e.g. EPA 2021, 2023) by which river and lake water quality and trends are assessed with respect to ecological criteria and to physico-chemical water quality standards. This work includes the sampling of aquatic invertebrates in 117 lakes under the Acid Lakes and Surveillance Lake Monitoring Programme. Fourteen acid lakes are sampled annually and the remaining lakes are sampled once every three years.

The Trichoptera data, reported here, are from 2022-2024. Data from 2013-2021 will be found in Little and O'Connor (2024). Only new monad (1km²), hectad (10km²) and county records from these data are noted in this paper. Four figure (1km²) Irish grid references are given for each new record.

Ruth Little identified the larvae using Edington and Hildrew (1995) and Wallace *et al.* (2003). Identifications to species level are only included. It was often not possible to identify many immature larval stages as they were very small and the key characteristics had not yet developed. In addition, only *Tinodes waeneri* (Linnaeus, 1758) is included as the larval key for the other species of *Tinodes* is unreliable. *Polycentropus* was also not speciated due to problems with the claw angle and other characteristics.

Addendum 12

The records in this paper will be included in Addendum 12 for the dataset "Caddisflies (Trichoptera) of Ireland" of the National Biodiversity Data Centre <<https://maps.biodiversityireland.ie/Dataset/250>>. The data will also be provided to CEDaR.

Records

GLOSSOSOMATIDAE

Agapetus fuscipes Curtis, 1834

GALWAY: Lough Corrib Lower, Annagh Point (M2531), 2 larvae 12 April 2024. Lough Corrib Upper, Inismicatreeer (M1749), larva 12 April 2024.

LEITRIM: Lough Melvin, Breffni Pier (G8853), larva 4 April 2023.

Glossosoma boltoni Curtis, 1834

MAYO: Lough Acorrymore (F5705), larva 18 April 2023, the specimen may have originated in the outflowing Mill Stream.

ECNOMIDAE

Ecnomus tenellus (Rambur, 1842)

CLARE: Lough Alewnaghta (R7691), larva 24 April 2024. Lough Cullaun (R3190), larva 24 April 2024.

CORK: Lough Glenbeg (V7053), 3 larvae 18 April 2023. Lough Allua (W1865), larva 17 April 2023.

DONEGAL: Lough Kindrum (C1943), 2 larvae 16 April 2024.

GALWAY: Lough Corrib Lower, Curra (M2534), larva 16 April 2024.

ROSCOMMON: Lough Cavetown (M8397), larva 12 April 2022. Lough O'Flynn (M5879), 2 larvae 11 April 2022.

TIPPERARY: Lough Derg, Gortmore Point (M8401), 2 larva 24 April 2023.

POLYCENTROPODIDAE

Cyrrnus flavidus McLachlan, 1864

KERRY: Lough Cam (Q5907), 14 larvae 25 April 2022.

Cyrrnus trimaculatus (Curtis, 1834)

CAVAN: Lough Mushlin (H6201), 6 larvae 29 April 2022.

DONEGAL: Lough Kindrum (C1943), larva 16 April 2024. Lough Anure (B8116), 2 larvae 15 April 2024. Lough Barra (B9212), larva 18 April 2024. Lough Mourne (H0790), 10 larvae 25 April 2024.

GALWAY: Lough Nahasleam (L9744), larva 20 April 2023.

MAYO: Lough Aille (M0780), 5 larvae 20 April 2023. Lough Moher (L9777), larva 20 April 2023.

ROSCOMMON: Lough O'Flynn (M5879), 15 larvae 11 April 2022.

WESTMEATH: Lough Lene (N5368), larva 11 April 2022.

***Holocentropus dubius* (Rambur, 1842)**

CLARE: Lough Atedaun (R2988), larva 25 April 2024.

DONEGAL: Lough Barra (B9212), larva 29 March 2023.

SLIGO: Templehouse Lake (G6118), larva 26 April 2022.

***Holocentropus picicornis* (Stephens, 1836)**

CLARE: Lough Dromore (R3485), larva 23 April 2024. Lough Atedaun (R2988), 3 larvae 25 April 2024.

***Plectrocnemia conspersa* (Curtis, 1834)**

DONEGAL: Lough Kiltorris (G6797), 3 larvae 15 April 2024. Lough Nasnanida (B8507), larva 15 April 2024. Lough Beagh (Veagh) (C0221), larva 14 April 2022 & larva 29 March 2023.

GALWAY: Ballynahinch Lake (L7847), larva 19 April 2022.

WICKLOW: Upper Lake, Glendalough (T0996), larva 5 April 2022 & larva 21 April 2023.

***Plectrocnemia geniculata* McLachlan, 1871**

WICKLOW: Upper Lake, Glendalough (T1096), larva 17 April 2024.

PSYCHOMYIIDAE

***Lype phaeopa* (Stephens, 1836)**

CAVAN: Lough Macnean Upper (H0238), larva 27 April 2022.

***Lype reducta* (Hagen, 1868) New to County Galway**

GALWAY: Lough Ballynakill (L6457), 3 larvae 29 April 2022. Lough Illauntrasna (L8825), larva 12 April 2022.

***Psychomyia fragilis* (Pictet, 1834)**

GALWAY: Lough Corrib Upper, Inismicatreer (M1749), 28 larvae 12 April 2024.

***Tinodes waeneri* (Linnaeus, 1758)**

CLARE: Doo Lough (R1172), larva 19 April 2023.

DONEGAL: Lough Derg (H0973), larva 24 April 2024. Lough Mourne (H0790), larva 25 April 2024.

GALWAY: Ardderry Lough (L9845), larva 13 April 2022. Ballynahinch Lake (L7847), 2 larvae 19 April 2022. Pollacappul Lough (L7558), 2 larvae 28 April 2022.

PHRYGANEIDAE

***Agrypnia obsoleta* (Hagen, 1864)**

WICKLOW: Lough Dan (O1502), larva 17 April 2023.

***Agrypnia varia* (Fabricius, 1793)**

MAYO: Lough Moher (L9777), 3 larvae 20 April 2023.

***Phryganea bipunctata* Retzius, 1783**

ROSCOMMON: Lough Annaghmore (M9083), larva 12 April 2022.

WESTMEATH: Annagh (White) Lake (N5172), larva 11 April 2022.

GOERIDAE

***Goera pilosa* (Fabricius, 1775)**

DONEGAL: Lough Akibbon (C0719), larva 17 April 2024.

FERMANAGH: Lough Erne Upper, Derryvore Jetty (H3423), larva 5 April 2023.

ROSCOMMON: Lough Meelagh (G9011), larva 12 April 2022.

LEPIDOSTOMATIDAE

***Lepidostoma hirtum* (Fabricius, 1775)**

CAVAN: Lough Derrybrick (H3511), 4 larvae 4 April 2023.

CLARE: Lough Lickeen (R1690), 6 larvae 17 April 2024.

GALWAY: Lough Aughrusbeg (L5558), 7 larvae 29 April 2022.

KERRY: Lough Brin (V7877), 5 larvae 20 April 2023.

APATANIIDAE

***Apatania muliebris* McLachlan, 1866**

KERRY: Lough Brin (V7877), larva 20 April 2023.

LIMNEPHILIDAE

***Chaetopteryx villosa* (Fabricius, 1798)**

WICKLOW: Lough Tay (O1607), 5 larvae 26 April 2024

***Anabolia nervosa* (Curtis, 1834)**

CAVAN: Lough Derrybrick (H3511), larva 4 April 2023.

DONEGAL: Lough Glen (C0928), 5 larvae 16 April 2024.

FERMANAGH: Lough Erne Upper, Cornaleck slip (H2931), larva 5 April 2023. Lough Macnean Lower (H0938), 8 larvae 27 April 2022.

***Limnephilus auricula* Curtis, 1834**

TIPPERARY: Lough Derg, Gortmore Point (M8401), larva 24 April 2023.

***Limnephilus centralis* Curtis, 1834**

ROSCOMMON: Lough Meelagh (G9011), larva 12 April 2022.

***Limnephilus lunatus* Curtis, 1834**

CAVAN: Lough Derrybrick (H3511), larva 4 April 2023. Lough Skeagh Upper (H6500), larva 26 April 2024.

CLARE: Lough Cullaun (R3190), larva 24 April 2024. Lough Naminna (R1871), larva 11

April 2022.

DONEGAL: Lough Glen (C0928), 2 larvae 16 April 2024. Lough Kindrum (C1943), larva 16 April 2024. Lough Anure (B8116), larva 15 April 2024. Lough Derg (H0973), larva 24 April 2024. Lough Gartan (C0616), 2 larvae 17 April 2024.

FERMANAGH: Lough Erne Upper, Derryvore Jetty (H3423), 2 larvae 5 April 2023.

GALWAY: Lough Nahasleam (L9744), larva 14 April 2022.

KERRY: Lough Brin (V7877), larva 20 April 2023.

ROSCOMMON: Lough Annaghmore (M9083), 6 larvae 12 April 2022.

SLIGO: Lough Arrow, East shore (G7913), 2 larvae 10 April 2024.

WESTMEATH: Annagh (White) Lough (N5172), 18 larvae 11 April 2022.

***Limnephilus vittatus* (Fabricius, 1798)**

CAVAN: Lough Derrybrick (H3511), 68 larvae 4 April 2023.

FERMANAGH: Lough Erne Upper, Druguiff Cross (H3430), larva 5 April 2023, Upper Cornaleck slip (H2931), larva 5 April 2023.

***Halesus radiatus* (Curtis, 1834)**

CLARE: Lough Inchicronan (R3985), larva 23 April 2024.

DONEGAL: Lough Derg (H0973), larva 24 April 2024. Lough Glen (C0928), larva 16 April 2024.

GALWAY: Lough Corrib Upper, Cappacorloge (M1353), larva 16 April 2024. **MAYO:** Carrowmore Lake (F8328), larva 26 April 2023. Lough Moher (L9777), larva 20 April 2023.

SLIGO: Lough Easky (G4423), larva 19 April 2023.

WESTMEATH: Lough Lene (N5368), larva 11 April 2022.

***Mesophylax impunctatus* McLachlan, 1884**

SLIGO: Lough Arrow, Castlebaldwin (G7811), larva 10 April 2024.

***Potamophylax cingulatus* (Stephens, 1837)**

CLARE: Lough Naminna (R1871), larva 11 April 2022 & larva 19 April 2023.

SERICOSTOMATIDAE

***Sericostoma personatum* (Spence, 1826)**

DONEGAL: Lough Beagh (Veagh) (C0221), larva 29 March 2023.

FERMANAGH: Lough Melvin, Fishing Club (G9353), larva 4 April 2023.

KERRY: Lough Caragh (V7290), larva 26 April 2023. Upper Lake, Newfoundland Bay (V9282), larva 25 April 2022 & 2 larvae 20 April 2023.

WICKLOW: Upper Lake, Glendalough (T0996), 2 larvae 5 April 2022.

MOLANNIDAE

***Molanna albicans* (Zetterstedt, 1840)**

CAVAN: Lough Macnean Upper (H0238), larva 27 April 2022.

LEPTOCERIDAE

***Adicella reducta* (McLachlan, 1865)**

GALWAY: Lough Ballynakill (L6457), 3 larvae 29 April 2022. Illauntrasna Lough (L8825), larva 12 April 2022.

***Athripsodes aterrimus* (Stephens, 1836) New to County Limerick**

CLARE: Lough Atedaun (R2988), larva 25 April 2024.

LIMERICK: Lough Gur (R6441), larva 22 April 2024.

SLIGO: Templehouse Lake (G6118), larva 26 April 2022.

***Athripsodes cinereus* (Curtis, 1834)**

DONEGAL: Lough Veagh (Beagh) (C0221), larva 29 March 2023.

SLIGO: Lough Arrow, east shore (G7913), larva 10 April 2024. Lough Easky (G4423), larva 26 April 2022.

TIPPERARY: Lough Derg, Gortmore Point (M8401), 5 larvae 24 April 2023.

***Ceraclea albimacula* (Rambur, 1842)**

GALWAY: Lough Corrib Lower, Curra (M2534), larva 16 April 2024.

***Ceraclea annulicornis* (Stephens, 1836)**

GALWAY: Lough Corrib Lower, Annagh Point (M2531), larva 12 April 2024.

***Ceraclea fulva* (Rambur, 1842)**

GALWAY: Lough Ballynakill (L6457), larva 29 April 2022.

***Ceraclea nigronevosa* (Retzius, 1783)**

GALWAY: Lough Corrib Upper, Cappacorroe (M1353), larva 16 April 2024.

***Ceraclea senilis* (Burmeister, 1839)**

MONAGHAN: Annagh (White) Lake, Rockcorry (H6719), larva 26 April 2022.

***Leptocerus tineiformis* Curtis, 1834**

CAVAN: Lough Corglass (H3409), 2 larvae 5 April 2023.

***Mystacides azurea* (Linnaeus, 1761)**

CLARE: Lough Cullaun (R3190), larva 24 April 2024.

DONEGAL: Lough Kiltorris (G6797), larva 15 April 2024.

GALWAY: Ballynakill Lough (L6457), larva 29 April 2022.

SLIGO: Lough Arrow, Hollybrook (G7811), larva 10 April 2024. Lough Arrow, East shore (G7913), larva 10 April 2024. Lough Gill, Sligo Anglers Pontoon (G7132), larva 10 April 2024.

WICKLOW: Lough Tay (O1607), 3 larvae 26 April 2024. Upper Lake, Glendalough (T0996),

2 larvae 5 April 2022.

***Mystacides longicornis* (Linnaeus, 1758)**

GALWAY: Lough Corrib Upper, Coosaun (M0648), larva 16 April 2024. Loughanillaun, Maam Cross (L9746), 2 larvae 13 April 2022.

KERRY: Lough Acoose (V7585), larva 26 April 2023. Lough Brin (V7877) larva 20 April 2023. Lough Cam (Q5907), 2 larvae 25 April 2022. Lough Caragh (V7290), 2 larvae 26 April 2023.

MONAGHAN: Lough Muckno (H8319), 2 larvae 26 April 2022.

ROSCOMMON: Lough Meelagh (G9011), larva 12 April 2022.

SLIGO: Lough Arrow, Holybrook (G7811), 3 larvae 10 April 2024.

WICKLOW: Lough Tay (O1607), 3 larva 26 April 2024. Upper Lake, Glendalough (T0996), 6 larvae 5 April 2022.

***Oecetis furva* (Rambur, 1842)**

CLARE: Lough Cullaun (R3190), 1 larva 24 April 2024.

***Oecetis ochracea* (Curtis, 1825)**

CLARE: Lough Muckanagh (R3792), 2 larvae 24 April 2024.

***Oecetis testacea* (Curtis, 1834)**

CLARE: Lough Dromore (R3485), larva 23 April 2024.

GALWAY: Lough Beaghcauneen (L6847), larva 20 April 2022.

***Triaenodes bicolor* (Curtis, 1834)**

FERMANAGH: Lough Erne Upper, Cornaleck slip (H2931), larva 5 April 2023.

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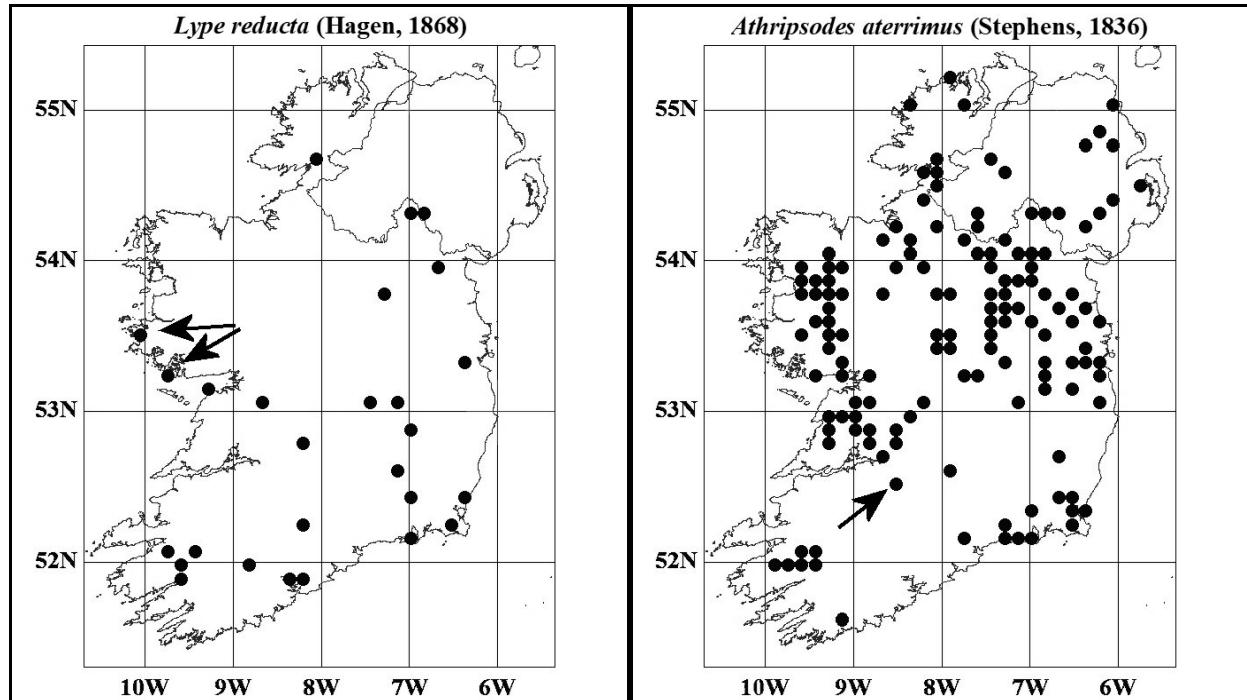
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FIGURES 1-2. The known Irish distributions of *Lype reducta* and *Athripsodes aterrimus*. The new county records are indicated by arrows.