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RECORDS OF IRISH CADDISFLIES (TRICHOPTERA) INCLUDING A COUNTY LIST

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Abstract

The presence of *Hagenella clathrata* (Kolenati, 1848) in Ireland has been confirmed bringing the number of species reliably recorded to 152. The brackish water species *Ylodes reuteri* (McLachlan, 1880) was reported from County Waterford - the third Irish record. *Hydroptila simulans* Mosely, 1920 and *Holocentropus dubius* (Rambur, 1842) were recorded as new to Northern Ireland. New distributional data for other Irish Trichoptera are provided based on recently collected material and older specimens including historical ones. Updated distribution maps are included for most of the listed species. A county list is provided for the Irish species.
Key words: Trichoptera, caddisflies, Ireland, review, distribution, flight-periods, *Hydroptila simulans, Holocentropus dubius*, *Hagenella clathrata*, *Ylodes reuteri*, county list.

Introduction

The opportunity is taken here to provide new distributional data for the Irish Trichoptera based on recently collected material, older specimens including historical ones and papers published in the last twelve months. Four figure (1km) Irish grid references are given for each record and these can be easily located on the Discovery series of maps from the Ordnance Survey of Ireland. However as these maps are generally unavailable outside Ireland, the sites are also mapped as 10km squares on longitude and latitude maps using DMAP. Updated maps are included for most of the listed species with significant records indicated by arrows. Unless otherwise stated, specimens were identified by the senior author. The specimens were determined using Edington and Hildrew (1995), Wallace, Wallace and Philipson (2003), Malicky (2004), Barnard and Ross (2012), and Waringer and Graf (2011). Voucher material of the rarer species has been retained in the O'Connor collection.

The presence in Ireland of *Hagenella clathrata* (Kolenati, 1848) has been confirmed bringing the present number of Irish species that are reliably recorded to 152 (Gammell *et al*., 2018). However, another species is soon to be added to the Irish list which will bring the total to 153 species. The two other species added to the Irish list since O'Connor (2015) are *Trichostegia minor* and *Limnephilus borealis* (O'Connor and McNaughton, 2017a, b, 2018). *Hydroptila simulans* Mosely, 1920 and *Holocentropus dubius* (Rambur, 1842) were reported as new to Northern Ireland (O'Connor and Bond, 2018; O'Connor, O'Connor and McNaughton, 2018).

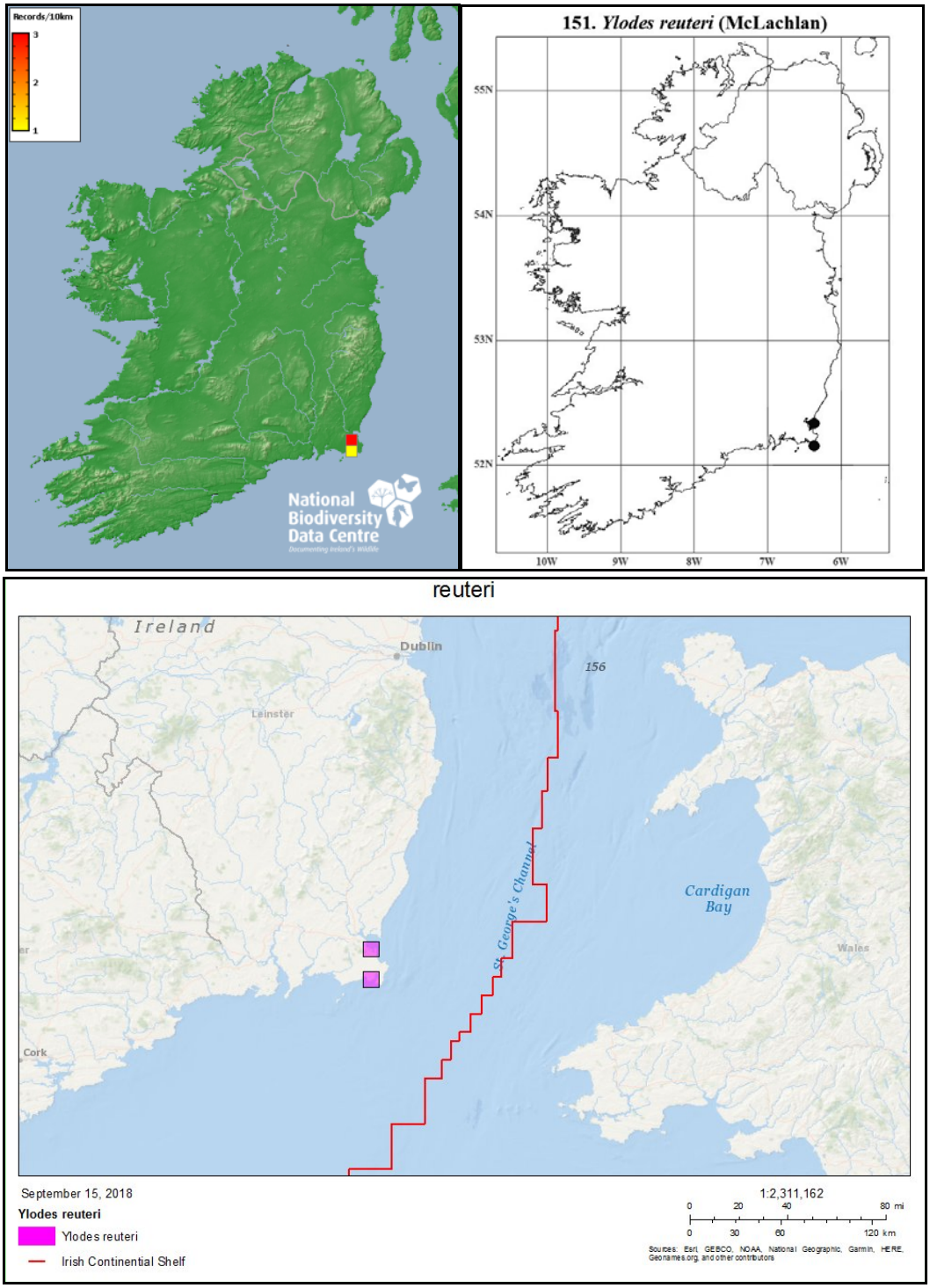
Biodiversity maps, National Biodiversity Data Centre

Records cited in this paper will be included in "Addendum 2" and forwarded in due course to the National Biodiversity Data Centre for incorporation into the data set "Caddisflies (Trichoptera) of Ireland" <https://maps.biodiversityireland.ie/ Dataset/250> (O'Connor, 2018). The set already includes the data from O'Connor (2015) and, recently, another 549 records were added as "Addendum 1". For each species on the site, the four figure grid references (1km) can be read either on the Irish grid option of the Terrestrial Map or on the longitude and latitude option of the Marine Map. By using the live map selection, you can zoom from 10km (Terrestrial Map) or 50km (Marine Map) to the appropriate 1km square. On the Marine maps, you can also view 10km squares on longitude and latitude similar to the DMAP maps in this paper. This feature is available for all data sets. Examples for *Ylodes reuteri* (McLachlan, 1880) are shown here (Fig. 1-3). Other features which can be shown on the system include counties, biological vice-counties and the Northern Ireland Border. The National Biodiversity Data Centre deserves great praise and recognition for their development of such a superb mapping system (Biodiversity Maps) which will be of inestimable value to anyone interested in Irish Trichoptera.

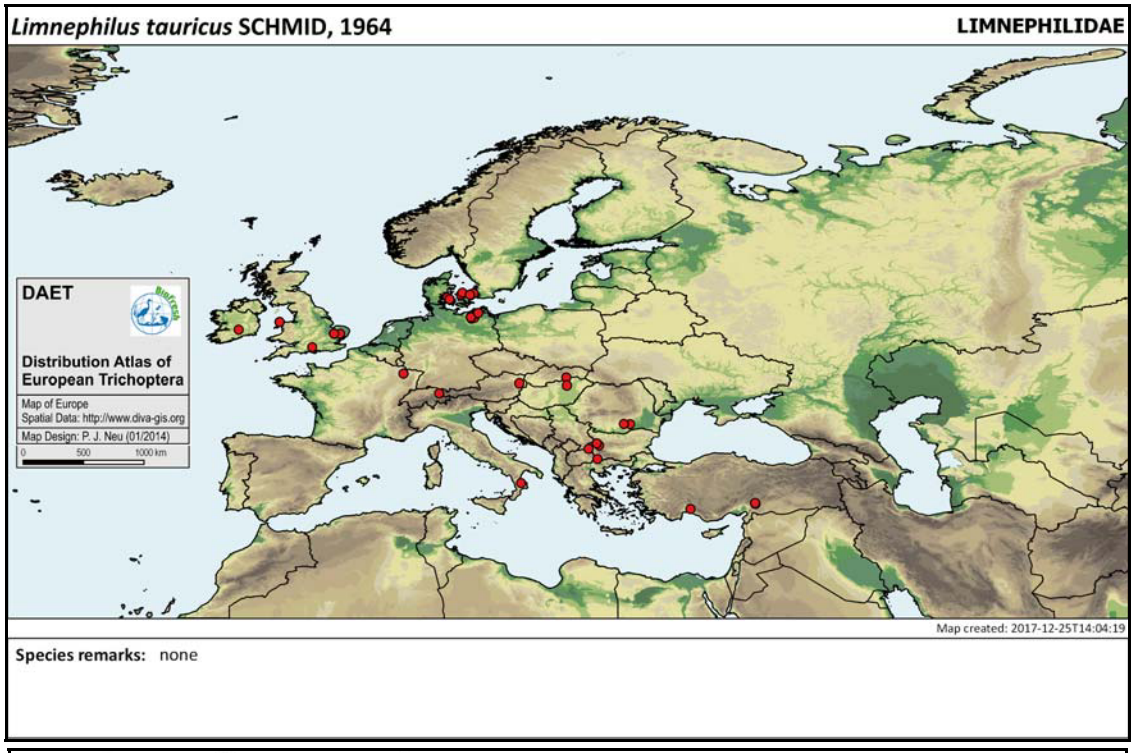
European distributions, DAET

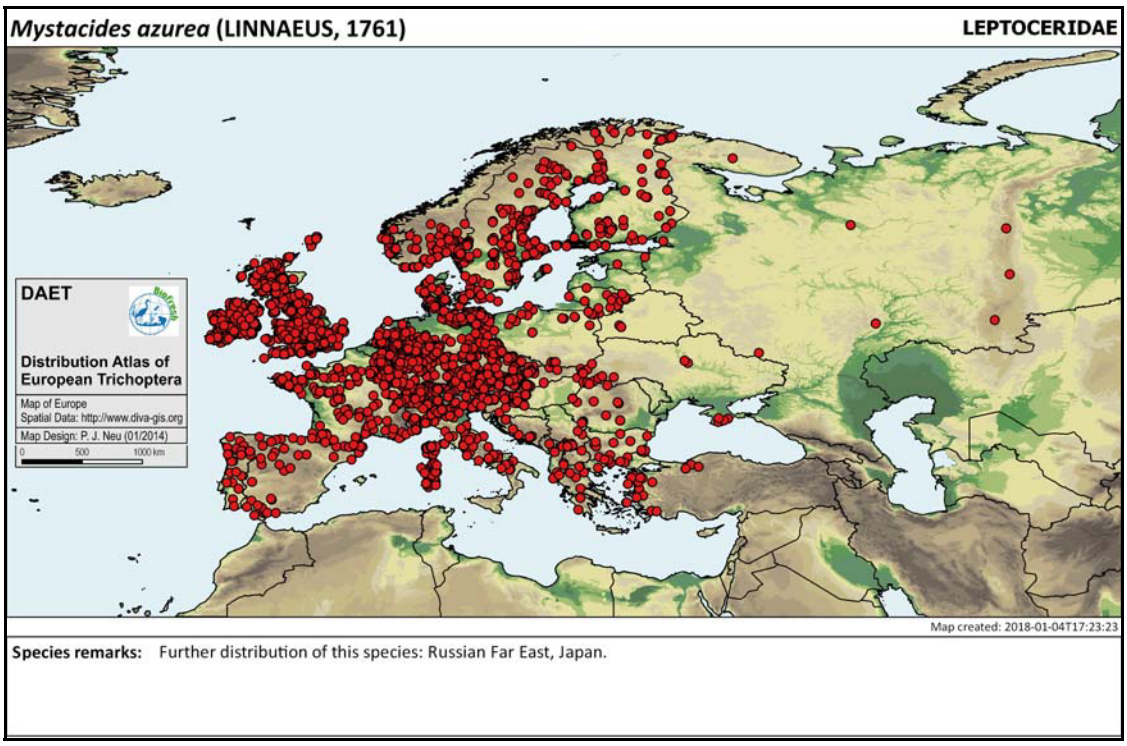
All the distribution data from O'Connor (2015) were incorporated into the *Distribution Atlas of European Trichoptera* (DAET) (Neu *et al.*, 2018). It was also possible to include some subsequent important Irish records before the closing date for the receipt of data. The foundation for the *Distribution Atlas of European Trichoptera* was laid within the BioFresh research project, funded by the EU from 2010 to 2014. Since 2011, more than 630,000 occurrence records (about 450,000 adult data) of European caddisflies contributed by 83 Trichoptera experts and the authors of the *Atlas* (DAET Consortium) have been compiled. The volume contains 1,583 distribution maps, a systematic list and a species index which is also a table of map contents. Point records of caddisflies, plotted on longitude and latitude, are illustrated on the maps in the *Atlas*. For the first time, a comprehensive overview of the distribution patterns of European Trichoptera families, species and sub-species is provided. The data were collected at more than 55,000 different sites in 50 countries covering the European continent. The temporal range is from 1793 to 2017. These maps will serve as a valuable base for future analyses, conservation and management priorities.

Because of this spendid volume, it is now possible to precisely place the Irish caddisfly fauna in a pan-European context. It can be easily ascertained from the relevant distribution map of a particular Irish species, whether that caddisfly is rare or common in the rest of Europe. Examples are shown in Figs 4-5.



FIGURES 1-3. The Irish distribution of *Ylodes reuteri* (10km). 1 (Top left): Terrestrial map (National Grid) from The National Biodiversity Data Centre; 2 (Top right): DMAP (longitude and latitude) from O'Connor (2015) and 3 (Bottom): Marine map (longitude and latitude) from The National Biodiversity Data Centre (which shows precise longitude and latitude coordinates when using the zoom facility). *Y. reuteri* has since been found in County Waterford.





FIGURES 4-5. The distributions of *Limnephilus tauricus* Schmid, 1964 and *Mystacides azurea* (Linnaeus, 1761) as shown in the *Distribution Atlas of European Trichoptera* (DAET) (Neu *et al*., 2018). The records are mapped using longitude and latitude coordinates.

The new records

RHYACOPHILIDAE

***Rhyacophila dorsalis* (Curtis, 1834) (Fig. 6)**

Recorded as adults from several localities in County Antrim (D1819, D1821, D1917, D2020, D2117, D2232, D2321, D2322, D2327, D2421) by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 1♂ 6-7 June 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

DUBLIN: River Liffey, Lucan Demesne (O0235), 1♂ 10 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

WEXFORD: J. F. Kennedy Park (S7219), 1 larva 6 August 2018, stream, H. O'Connor and D. de Rosa; Maudlins Stream, New Ross (S7328), 1♂1♀ 11-12 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

WICKLOW: Glenagvore Brook, Knocknadroose (O0101), 1 larva 27 March 1983, M. J. Costello.

Rhyacophila dorsalis is now known from 257 10km squares.

***Rhyacophila munda* McLachlan, 1862 First record for County Donegal (Fig. 7)**

Recorded from the River Braid, Ballymena, Grange Road (D1002), County Antrim by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Bredagh River, Moglass Bridge (C6038), 1 larva 1-2 June 2006 and 1km upstream of Moville (C6138), 3 larvae, 1-2 June 2006, collected and identified by Richard Nairn (EPA, 2013).

Rhyacophila munda is now known from 101 10km squares.

GLOSSOSOMATIDAE

***Agapetus fuscipes* Curtis, 1834 New to County Offaly (Fig. 8)**

Recorded as new to County Fermanagh from the River Erne at Bellanaleck Quay (H2339) by O'Connor, O'Connor and McNaughton (2018).

CORK: Lough Ine (Hyne) (W0929), 1 larva 27 January 1983, inlet stream, M. J. Costello.

DONEGAL: Lough Eske (G9683), 22♂♂11♀♀ 6 June 2018, swept from vegetation, J. P. O'Connor & M. A. O'Connor; Sessiagh Lough, Portnablagh (C0436), 2♂♂2♀♀ 6 May 2018, gathered in daylight on lakeside rocks, C. McNaughton.

OFFALY: canal supply stream near Killaranny (N2224), 2♂♂ 26 June 2018, swept from vegetation beside a regulatory lock-gate, M. A. O'Connor.

WATERFORD: Dunhill (S5304), 2♂♂1♀ 29 June 1988, stream, J. P. O'Connor; Tramore (S5701), 1♀ 3 July 2018, light-trap, T. Bryant.

WEXFORD: Maudlins Stream, New Ross (S7328), 1♂ 9 August 2018, swept from vegetation, 2♂♂ 11-12 August 2018 and 1♀ 16-17 August 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Agapetus fuscipes is now known from 142 10km squares.

***Agapetus ochripes* Curtis, 1834 (Fig. 9)**

CORK: Fermoy [R. Blackwater] (W8198), 1♀ 2 June 1983, K. G. M. Bond.

TIPPERARY: River Suir, Kilsheelan (S2823), 57♂♂20♀♀ 16 August 2018, swept from vegetation, J. P. O'Connor & M. A. O'Connor.

Agapetus ochripes is now known from the 61 10km squares.

***Glossosoma boltoni* Curtis, 1834 (Fig. 10)**

Recorded as new to County Antrim by O'Connor and McNaughton (2017c) from the River Dall (D2327).

CORK: Castleblagh (W7058), 1♂ 19 February 2018, light-trap, stream nearby, K. G. M. Bond; Kilpatrick, River Bandon nearby (W5257), 1♂ 9 March 2017, light-trap, K. G. M. Bond.

The flight period of *Glossosoma boltoni* in O'Connor (2015) was given as "1 April - 26 October (unspecified date in March Kennedy)". The above records provide a definite date in March as well as the earlier date of 19 February.

DONEGAL: River Clady, near Lough Eske (G9684), ♀ 7 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WEXFORD: Maudlins Stream, New Ross (S7328), 1♀ 16-17 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

The species is now known from 106 10km squares.

***Glossosoma conformis* Neboiss, 1963 (Fig. 11)**

Although the record of *Glossosoma conformis* from the Owengarve River (F9101), County Mayo (Ryder *et al*., 2011) is given in the text of O'Connor (2015) but the 10km square is missing from the relevant maps. This record is indicated in Fig 11. The species is known from 18 10km squares.

HYDROPTILIDAE

***Agraylea multipunctata* Curtis, 1834 (Fig. 12)**

The species was reported as new to County Antrim by O'Connor, O'Connor and McNaughton (2018) from Lough Garve (D2117) and Lough na Trosk (D2719).

DONEGAL: Lough Eske (G9683), 1♀ 6 June 2018, swept, 1♂1♀ 6-7 June 2018, light-traps, & M. A. O'Connor; Sessiagh Lough, Portnablagh (C0436), 5♂♂ 6 May 2018, gathered in daylight on bankside rocks, C. McNaughton.

DUBLIN: River Liffey, Lucan Demesne (O0235), 1♂ 27 September 2018, M. A. O'Connor.

KERRY: Muckross Lake, Killarney (V9484), 1♂ 26 October 1994, J. P. O'Connor.

The previous latest record was 17 October. *Agraylea multipunctata* is now known from 73 10km squares.

***Agraylea sexmaculata* Curtis, 1834 (Fig. 13)**

Recorded as new to County Fermanagh from the Mill Lough (H2438) by O'Connor, O'Connor and McNaughton (2018). *Agraylea sexmaculata* is now known from 11 10km squares.

***Hydroptila angulata* Mosely, 1922 New to County Waterford (Fig. 14)**

O'Connor, O'Connor and McNaughton (2018) reported the species from the River Erne, Cloonatrig (H2637), County Fermanagh.

DONEGAL: Kilmacrennan [Leannan R.] (C1420), 1♀ 16 July 1891, J. J. F. X. King; Lough Eske (G9683), 2♂♂4♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

These are the second and third records from County Donegal.

WATERFORD: Tramore (S5701), 1♀ 10 June 2018 and 2♀♀ 28 June 2018, light-trap, T. Bryant.

Hydroptila angulata is now known from 30 10km squares.

***Hydroptila cornuta* Mosley, 1922 (Fig. 15)**

Reported from the River Erne, Bellanaleck Quay (H2339), County Fermanagh by O'Connor, O'Connor and McNaughton (2018).

TIPPERARY: River Suir, Kilsheelan (S2823), 4♀♀ 16 August 2018, swept from vegetation, J. P. O'Connor & M. A. O'Connor.

Previously taken on the River Suir at Carrick-on-Suir.

WEXFORD: Craywell, New Ross (S7228), 1♀ 6-7 August 2018, light-trap, in a suburban garden, J. P. O'Connor & M. A. O'Connor.

Hydroptila cornuta is now known from 18 10km squares.

***Hydroptila forcipata* (Eaton, 1873) (Fig. 16)**

CORK: Fermoy [River Blackwater] (W8198), 1♂ 2 June 1983, K. G. M. Bond.

DONEGAL: Kilmacrennan [Leannan River] (C1420), 1♂1♀ 9 July 1891, J. J. F. X. King; Lough Eske (G9683), 2♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

These are the second and third records from County Donegal.

DUBLIN: River Liffey, Lucan Demesne (O0235), 9♂♂3♀♀ 10 May 2018 and 1♂ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor; River Liffey, Strawberry Beds (O0735), 1♂ 25 August 2016, swept, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: River Suir, Kilsheelan (S2823), 1♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Hydroptila forcipata is now known from 63 10km squares.

***Hydroptila martini* Marshall, 1977 New to County Donegal (Fig. 17)**

DONEGAL: Kilmacrennan [Leannan River] (C1420), 1♀ 27 July 1891, J. J. F. X. King.

WESTMEATH: Athlone [River Shannon] (N0243), ♂ 19 July 1888 and 1♂ 5 August 1888, J. J. F. X. King.

Hydroptila martini is now known from 12 10km squares.

***Hydroptila pulchricornis* Pictet, 1834 New to County Meath (Fig. 18)**

MEATH: Lough Brackan near Drumconrath (N8788), 1♂ 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.

*Hydroptila pulchricorn**is*** is now known from 11 10km squares.

***Hydroptila simulans* Mosely, 1920 (Fig. 19)**

O'Connor and Bond (2018) reported *Hydroptila simulans* new to Northern Ireland. A male was taken on the 14 April 2017 by Edward Rolston at Lisburn, County Antrim (J2565). The River Lagan is some 3km distant from the site.

DUBLIN: Lucan [River Liffey] (O0235) , 1♀ 29 August 1888, J. J. F. X. King.

TIPPERARY: River Suir, Kilsheelan (S2823), 6♂♂1♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Previously known from the River Suir at Carrick-on-Suir. *Hydroptila simulans* is now known from 15 10km squares.

***Hydroptila sparsa* Mosely, 1920 (Fig. 20)**

TIPPERARY River Suir, Carrick-on-Suir (S3921), 1♂3♀♀ 17 August 2017 and Kilsheelan (S2823), 30♂♂10♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Hydroptila sparsa is new to the River Suir.

WEXFORD: Craywell, New Ross (S7228), 1♀ 6-7 August 2018, light-trap in suburban garden, J. P. O'Connor & M. A. O'Connor.

Hydroptila sparsa is now known from 55 10km squares.

***Hydroptila tineoides* Dalman, 1819 (Fig. 21)**

DONEGAL: Lough Eske (G9683), 5♂♂4♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Hydroptila tineoides is now known from 43 10km squares.

***Ithytrichia lamellaris* Eaton, 1873 New to County Donegal (Fig. 22)**

DONEGAL: Kilmacrennan [Leannan River] (C1420), 4♂♂8♀♀ 25 June-10 July 1891, J. J. F. X. King.

DUBLIN: River Liffey, Lucan Demesne (O0235), 1♂ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: River Suir, Kilsheelan (S2823), 2♂♂1♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Ithytrichia lamellaris is now known from 33 10km squares.

***Orthotrichia angustella* (McLachlan, 1865) New to Counties Waterford and Westmeath (Fig. 23)**

WATERFORD: Tramore (S5701), 1♀ 10 June 2018, light-trap, T. Bryant.

WESTMEATH: Athlone [River Shannon] (N0341), 3♀♀ 10 August 1888, J. J. F. X. King.

Orthotrichia angustella is now known from nine 10km squares.

***Orthotrichia costalis* (Curtis, 1834) New to County Dublin (Fig. 24)**

DUBLIN: Glen Pond, Phoenix Park (O0935), 1♀ 22 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Carrickavrantry Reservoir (S5502), 1♂1♀ 13 July 2018, swept, T. Bryant.

Orthotrichia costalis is now known from five 10km squares.

***Oxyethira falcata* Morton, 1893 New to Counties Donegal and Kildare (Fig. 25)**

DONEGAL: Kilmacrennan [Leannan River] (C1420), 2♀♀ 23 June 1891, 1♀ 1 August 1891, J. J. F. X. King.

KILDARE: Louisa Bridge (N9936), 1♂ 22 August 1982, swept in a marshy area beside the River Camac, J. P. O'Connor & M. A. O'Connor.

MAYO: Mayo National Park (F8607), 1♀ 30 May-20 June 1997, Malaise trap on cutover blanket bog near the Owenduff River, M. C. D. Speight.

Oxyethira falcata is now known from 16 10km squares.

***Oxyethira flavicornis* (Pictet, 1834) New to Counties Meath and Offaly (Fig. 26)**

Reported new to County Antrim from Lough Garve (D2117), Lough na Bric (D2519) and Lough na Trosk (D2719) by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 24♂♂58♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

MEATH: Lough Brackan near Drumconrath (N8788), 1♂ 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.

OFFALY: Lough Boora (N1818), 1♂ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Upper Finnamore Lake, Boora Discovery Park (N2120), 3♂♂1♀ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Belle Lake (S6604), 2♂♂ 28-29 July 2017, 1♀ 9-10 June 2018 and 1♂ 21 August 2018, A. Walshe; Ballyscanlan Lake (S5402), 1♂1♀ 15 May 2018, 1♂ 13 July 2018, swept, T. Bryant.

WEXFORD: Oaklands Lake, New Ross (S7125), 2♀♀ 14-15 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

Oxyethira flavicornis is now known from 50 10km squares.

***Oxyethira sagittifera* Ris, 1897 New to County Donegal (Fig. 27)**

DONEGAL: Kilmacrennan [Leannan River] (C1420), 1♀ 26 June 1891, J. J. F. X. King.

Oxyethira sagittifera is now known from five 10km squares.

PHILOPOTAMIDAE

***Philopotamus montanus* (Donovan, 1813) (Fig. 28)**

Recorded from a stream near Aghalum (D2618), County Antrim by O'Connor, O'Connor and McNaughton (2018).

CORK: Ardarou, River Bride (W7189), 1♀ 19 March 2017, K. G. M. Bond.

DONEGAL: River Clady, near Lough Eske (G9684), 4♂♂ & 1 larva 7 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WEXFORD: side stream/waterfall, River Sow, Edenvale (T0327), 2♂♂ 14 August 2018 and 1 larva 15 August 2018, J. P. O'Connor & M. A. O'Connor; Stoneyford stream (T1009), 1♂ 13 June 1986, J. P. O'Connor & M. A. O'Connor.

Philopotamus montanus is new to the Edenvale Nature Reserve and is now known from 99 10km squares.

***Wormaldia occipitalis* (Pictet, 1834) (Fig. 29)**

DONEGAL: River Clady, near Lough Eske (G9684), 2♂♂1♀ 7 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WICKLOW: Clonkeen Mine, Glenmalure (T0792), 2 larvae 12-13 August 2017, <20m from the surface in the mine around a 90 degree bend in the adit (first seen 9 August 2017), Edward Hick per Paolo Viscardi.

Wormaldia occipitalis is now known from 46 10km squares.

ECNOMIDAE

***Ecnomus tenellus* (Rambur, 1842) new to County Offaly (Fig. 30)**

OFFALY: Loch an Dochais, Lough Boora Discovery Park (N1819), 5♂♂ 26 June 2018, swept, J. P .O'Connor & M. A. O'Connor; Lough Boora (N1818), 1♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Upper Finnamore Lake, Lough Boora Discovery Park (N2120), 3♂♂2♀♀ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Belle Lake (S6604), 1♂ 21 August 2018, A. Walshe.

Previously, only a female had been collected at the lake. *Ecnomus tenellus* is now known from 59 10km squares.

POLYCENTROPODIDAE

***Cyrnus flavidus* McLachlan, 1864 (Fig. 31)**

Recorded from the River Erne, Cloonatrig (H2637), County Fermanagh and new to County Antrim from Lough Garve (D2117) by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 13♂♂2♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Cyrnus flavidus is now known from 60 10km squares.

***Cyrnus trimaculatus* (Curtis, 1834) New to County Offaly (Fig. 32)**

MEATH: Lough Brackan near Drumconrath (N8788), 3♂♂1♀ 5 September 2018, swept, J. P.O'Connor & M. A. O'Connor.

OFFALY: Lough Boora (N1818), 1♂ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

Cyrnus trimaculatus is now known from 143 10km squares.

***Holocentropus dubius* (Rambur, 1842) (Fig. 33)**

Reported as new to Northern Ireland by O'Connor, O'Connor and McNaughton (2018) from the Mill Lough near Bellanaleck (H2438), County Fermanagh.

Holocentropus dubius is now known from 44 10km squares.

***Holocentropus picicornis* (Stephens, 1836) (Fig. 34)**

Recorded as new to County Antrim from Lough na Trosk (D2719) by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 1♂ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Holocentropus picicornis is now known from 87 10km squares.

***Neureclipsis bimaculata* (Linnaeus, 1758) (Fig. 35)**

Recorded from Coleraine Marina (C8433), County Derry (Londonderry) (O'Connor and McNaughton, 2017c) and from the Mill Lough near Bellanaleck (H2438), County Fermanagh (O'Connor, O'Connor and McNaughton, 2018).

KERRY: Long Range (V9384), 1♂ 5 June 1983, light-trap, K. G. M. Bond.

Neureclipsis bimaculata is now known from 59 10km squares.

***Plectrocnemia conspersa* (Curtis, 1834) (Fig. 36)**

WATERFORD: Tramore (S5701), 1♀ 4 June 2018, light-trap, T. Bryant.

Plectrocnemia conspersa is now known from 158 10km squares.

***Plectrocnemia geniculata* McLachlan, 1871 (Fig. 37)**

Recorded from Lough Garve (D2117), County Antrim by O'Connor, O'Connor and McNaughton (2018).

WEXFORD: side stream, River Sow, Edenvale (T0427), 1♂ pupa with larval remains 15 August, 2018, J. P. O'Connor & M. A. O'Connor.

Plectrocnemia geniculata is new to the Edenvale Nature Reserve and is now known from 50 10km squares.

***Polycentropus flavomaculatus* (Pictet, 1834) (Fig. 38)**

Reported from the Ballycastle Marina (D1241), County Antrim and the River Erne, Cloonatrig (H2637), County Fermanagh by O'Connor, O'Connor and McNaughton (2018).

WATERFORD: Belle Lake (S6604), 2♂♂ 28-29 July 2017, 2♀♀ 15 May 2018, 2♀♀ 9-10 June 2018 and 2♂♂1♀ 21 August 2018 , A. Walshe; Tramore (S5701), 1♂ 18 June 2018, light-trap, T. Bryant.

WEXFORD: River Sow, Edenvale (T0427), 2♂♂ 14 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

First record at Edenvale since King and Halbert (1910). *Polycentropus flavomaculatus* is now known from 330 10km squares.

***Polycentropus irroratus* (Curtis, 1835) (Fig. 39)**

Reported from the Upper Lough Erne, Knockninny Marina (H2731), County Fermanagh by O'Connor, O'Connor and McNaughton (2018).

Polycentropus irroratus is now known from 61 10km squares.

PSYCHOMYIIDAE

***Lype phaeopa* (Stephens, 1836) (Fig. 40)**

Recorded from the Lower Lough Erne, Castle Archdale (H1758), County Fermanagh by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9684), 1♂1♀ 7 June 2018, swept where the River Clady enters the lake, J. P. O'Connor & M. A. O'Connor, (G9683), 1♂1♀ 6 June 2018, swept and 1♂2♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Previously only known in County Donegal from larvae taken at Lough Anure.

DUBLIN: River Liffey, Lucan Demesne (O0235), 1♂ 10 May 2018, 2♀♀ 27 May 2018, ♂ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Belle Lake (S6605), 1♂ 7 May 2017, (S6604), 1♂ 15 May 2018 and 2♂♂ 9-10 June 2018, all had landed on boats on the lake, A. Walshe.

WEXFORD: River Sow (T0427), Edenvale, 2♀♀ 14 August 2018, swept, J. P. O'Connor & M. A. O'Connor; side stream, River Sow, Edenvale (T0427), 1♀ 15 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Lype phaeopa is new to the Edenvale Nature Reserve. The species is now known from 51 10km squares.

***Lype reducta* (Hagen, 1868) New to County Donegal (Fig. 41)**

DONEGAL: River Clady, near Lough Eske (G9684), 1♂ 7 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WEXFORD: Maudlins Stream, New Ross (S7328), 1♂2♀♀ 9 August 2018, swept from small trickle stream entering the main stream, J. P. O'Connor & M. A. O'Connor.

Lype reducta is now known from 12 10km squares.

***Psychomyia pusilla* (Pictet, 1834) (Fig. 42)**

TIPPERARY: River Suir, Carrick-on-Suir (S3921), 11♂♂4♀♀ 17 August 2017 and Kilsheelan (S2823), 35♂♂45♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Psychomyia pusilla is now known from 108 10km squares.

***Tinodes waeneri* (Linnaeus, 1758) (Fig. 43)**

Recorded from Lough na Bric (D2519), County Antrim by O'Connor, O'Connor and McNaughton (2018).

ANTRIM: Lough Fadden (D1842), 2♂♂2♀♀ 21 September 2017, C. McNaughton.

KERRY: Muckross Lake, Killarney (V9484), 1♀ 26 October 1994, swept, J. P. O'Connor.

KILDARE: Royal Canal, Kilcock (N8839), 1♂1♀ 21 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

MEATH: Lough Brackan near Drumconrath (N8788), 2♂♂2♀♀, 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Belle Lake (S6604), 1♂ 28-29 July 2017 and 3♂♂5♀♀ 20-21 August 2018, A. Walshe.

Tinodes waeneri is now known from 249 10km squares.

HYDROPSYCHIDAE

***Cheumatopsyche lepida* (Pictet, 1834) (Fig. 44)**

DUBLIN: River Liffey, Lucan Demesne (O0235), 7♂♂4♀♀ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: River Suir, Carrick-on-Suir (S3921), 3♂♂3♀♀ 17 August 2017 and Kilsheelan (S2823), 4♂♂13♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Tramore (S5701), 1♂ 18 July 2017, light-trap, T. Bryant.

Cheumatopsyche lepida is now known from 52 10km squares.

***Diplectrona felix* McLachlan, 1878 (Fig. 45)**

TIPPERARY: Kilmastulla River tributary (R7269), 1 larva 14 June 1976, coll. & det. M. A. O'Connor.

WEXFORD: Maudlins Stream, New Ross (S7328), 1 larva 9 August 2018, in a trickle entering a stream, J. P. O'Connor & M. A. O'Connor.

Diplectrona felix is now known from 39 10km squares.

***Hydropsyche contubernalis* McLachlan, 1865 (Fig. 46)**

DUBLIN: River Liffey, Lucan Demesne (O0235), 1♀ 27 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

Hydropsyche contubernalis was originally recorded (as *ornatula*) new to Ireland dowstream from the present site where it was extremely abundant (Beirne and Harris, 1946). In 1944, Poulaphouca Reservoir, located in the western foothills of the Wicklow Mountains, was created by damming of the River Liffey for the purpose of generating electricity from hydropower. Water is released frequently from the reservoir resulting in the volume of water in the river increasing significantly, with a consequent increase in the speed of the water flow. It is interesting that *H. contubernalis* has adapted to such conditions.

Hydropsyche contubernalis is known from 25 10km squares.

***Hydropsyche instabilis* (Curtis, 1834) New to Counties Donegal and Waterford (Fig. 47)**

DONEGAL: River Clady, near Lough Eske (G9684), 7 larvae 7 June 2018, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: Nenagh River, Millbrook (R9173), 1 larva 1 December 1975, M. A. O'Connor.

WATERFORD: Tramore (S5701), 1♀ 10 July 2018, light-trap, T. Bryant.

Hydropsyche instabilis is known from 48 10km squares.

***Hydropsyche pellucidula* (Curtis, 1834) (Fig. 48)**

TIPPERARY: Nenagh River, Millbrook (R9173), 1 larva 9 November 1975, coll. & det. M. A. O'Connor.

Hydropsyche pellucidula is known from 142 10km squares.

***Hydropsyche siltalai* Döhler, 1963 (Fig. 49)**

DONEGAL: Kilmacrenan [Kilmacrenann] (C1420), 1♀ 25 June 1891, J. J. F. X. King.

DUBLIN: Lucan Demesne [River Liffey] (O0235), 2♂♂1♀ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: River Suir, Kilsheelan (S2823), 2♂♂1♀ 16 August 2018, swept from vegetation, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Ballyscanlan Lake (S5402), 1♀ 7 June 2018 and 1♀ 12 June 2018, light-trap, T. Bryant; Dunhill stream (S5304), 1♂ 29 June 1988, swept, J. P. O'Connor; Tramore (S5701), 1 ♂ 17 July 2017, 1♂ 28 June 2018 and 1♀ 12 July 2018, light-trap, T. Bryant.

WEXFORD: Craywell, New Ross (S7228), 1♀ 4-5 August 2018, light-trap in suburban garden, J. P. O'Connor & M. A. O'Connor; Maudlins Stream, New Ross (S7328), 14♂♂18♀♀ 11-12 August 2018 and 27♂♂48♀♀ 16-17 August 2018, light-traps, J. P. O'Connor & M. A. O'Connor; Oaklands Lake, New Ross (S7125), 2♀♀ 14-15 August 2018, the light-trap was sited near several streams beside the lake, J. P. O'Connor & M. A. O'Connor.

Hydropsyche siltalai is known from 228 10km squares.

PHRYGANEIDAE

***Agrypnia obsoleta* (Hagen, 1864) New to County Tipperary (Fig. 50)**

MAYO: Carrigskeewaun (L7469), adult 26 July 2018, photographed at light-trap, K. G. M. Bond.

TIPPERARY: Cabragh Wetlands near Thurles (S1054), adult May 2010, reed-bed area, anon.

Identified from a photograph on <http://tipperarybiodiversity.blogspot.com /2010/10/this-was-photographed-in-reedbed-area.html> (accessed 13 July 2018).

Agrypnia obsoleta is now known from 56 10km squares.

***Agrypnia pagetana* Curtis, 1835 (Fig. 51)**

ROSCOMMON: Lough Ree, Rinnagan (M9956), 1♂1♀ 6 May 2018, J. T. Brophy, confirmed J. P. O'Connor.

This is the second record from County Roscommon. The species was previously known from Lough O'Flynn (M5878). *Agrypnia pagetana* is now known from 28 10km squares.

***Agrypnia varia* (Fabricius, 1793) New to County Laois (Fig. 52)**

DONEGAL: Lough Eske (G9683), 1♂ 6-7 June 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

LAOIS: Abbeyleix Bog (S4383), adult 1 July 2018, photographed on the boardwalk over the bog, L. Stenson (identified from photographs on twitter <https://twitter.com/irishflyfisher> (accessed 2 July 2018)).

MAYO: Gortnahurra Lower (G0720), adult 1 July 2018, from photograph at Skinner trap, K. G. M. Bond.

WATERFORD: Ballyscanlan Lough (S5402), 1♂1♀ 23 August 2017, 3♂♂ 26 August 2017, light-trap, T. Bryant; Tramore (S5701), 1♀ 9 September 2017, light-trap, T. Bryant.

Agrypnia varia is now known from 79 10km squares.

***Hagenella clathrata* (Kolenati, 1848) confirmed as an Irish species (Fig. 53) (Plates 1-2)**

O'Connor and O'Connor (2017) discussed the possible occurrence of *Hagenella clathrata* in Ireland based on Tina Claffey's photograph from Abbeyleix Bog, County Laois (S4383) (Plate 1). The slim possibility existed that it could have been a specimen of *Oligostomis reticulata* (Linnaeus, 1761) which has a similar distribution on mainland Europe (Neu *et al*., 2018). The Irish presence of the species has now been confirmed in County Galway by Martin Gammell and Caitriona Carlin at Ower (M2237), (M2138) and Callownamuck (M2139) (Gammell *et al*., 2018). *H. clathrata* is known from two 10km squares.

***Phryganea bipunctata* Retzius, 1783 (Fig. 54)**

Recorded as new to County Antrim from Lough Fad (D2419), Lough Garve (D2117), Lough na Bric (D2519) and Lough na Trosk (D2719) by O'Connor, O'Connor and McNaughton (2018).

CAVAN: Lough Ramor (N5987), 1♂ 11 May 2005, swept in lakeside woods, J. P. O'Connor.

DONEGAL: Lough Eske (G9683), 1♂1♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Ballyscanlan Lake (S5402), 1♀ 7 June 2018, light-trap, T. Bryant; Belle Lake (S6604), 5♂♂1♀ 15 May 2018, A. Walshe.

Phryganea bipunctata is now known from 66 10km squares.

***Phryganea grandis* Linnaeus, 1758 (Fig. 55)**

Recorded as new to County Fermanagh from the Upper Lough Erne, Knockninny Marina (H2731), by O'Connor, O'Connor and McNaughton (2018).

OFFALY: Upper Finnamore Lake, Lough Boora Discovery Park (N2120), 2♀♀ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

Phryganea grandis is now known from 42 10km squares.

GOERIDAE

***Goera pilosa* (Fabricius, 1775) (Fig. 56)**

WATERFORD: Ballyscanlan Lough (S5402), 1♀ 17 July 2017, light-trap, T. Bryant; Belle Lake (S6604), 1♂1♀ 28-29 July 2017 and 1♀ 20 August 2018, A. Walshe; Mahon River, Bunmahon (X4398), ♀ 13 June 2018, swept, A. Walshe.

Goera pilosa is now known from 110 10km squares.

***Silo nigricornis* (Pictet, 1834) (Fig. 57)**

WICKLOW: River Vartry near Ashford (T2797), 2♂♂ 22 May 1973, swept, J. P. O'Connor.

Silo nigricornis is now known from 54 10km squares.

***Silo pallipes* (Fabricius, 1781) New to County Carlow (Fig. 58)**

CARLOW: St Mullins (S7238), 1♂ 10 August 2018, swept from vegetation beside a stream, J. P. O'Connor & M. A. O'Connor.

Silo pallipes is now known from 128 10km squares.

LEPIDOSTOMATIDAE

***Cruenocia irrorata* (Curtis, 1834) (Fig. 59)**

Recorded from the Craigagh Wood, near the Glendun River, Cushendun (D2232), County Antrim by O'Connor and McNaughton (2017c).

WATERFORD: Tramore (S5701), 2♂♂ 10 June 2018 and ♀ 28 June 2018, light-trap, T. Bryant.
WEXFORD: J. F. Kennedy Park (S7219), 1♀ 25 August 2011, stream, J. P. O'Connor.

Cruenocia irrorata is now known from 41 10km squares.

***Lepidostoma hirtum* (Fabricius, 1775) (Fig. 60)**

DONEGAL: Lough Eske (G9683), 11♂♂42♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.
DUBLIN: Castleknock, suburban house (O0837), 1♂ 3 August 2018, on outside of lighted window, J. P. O'Connor; Lucan Demesne [River Liffey] (O0235), 7♂♂5♀♀ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor.
TIPPERARY: River Suir, Carrick-on-Suir (S3921), 1♂3♀♀ 17 August 2017 and Kilsheelan (S2823), 5♂♂10♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.
WATERFORD: Tramore (S5701), ♀ 18 June 2018, light-trap, T. Bryant.
WEXFORD: Maudlins Stream, New Ross (S7328), 4♀♀ 16-17 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor; Oaklands Lake, New Ross (S7125), 1♀ 14-15 August 2018, swept, J. P. O'Connor.

Lepidostoma hirtum is now known from 239 10km squares.

APATANIIDAE

***Apatania muliebris* McLachlan, 1866 (Fig. 61)**

A female new to County Antrim was taken on a stream tributary of the Cranny Water on the Garron Plateau (D2518), County Antrim (O'Connor, O'Connor and McNaughton, 2018). This is the second record for Northern Ireland.

Apatania muliebris is now known from seven 10km squares.

***Apatania wallengreni* McLachlan, 1871 (Fig. 62)**

DONEGAL: Sessiagh Lough, Portnablagh (C0436), 17♀♀ 4 May 2018, light-trap, C. McNaughton.

Apatania wallengreni is now known from 12 10km squares.

LIMNEPHILIDAE

***Drusus annulatus* (Stephens, 1837) (Fig. 63)**

Adults were also taken at the Coleraine Marina, River Bann (C8433), County Derry (Londonderry) and Lough Garve (D2117), County Antrim (O'Connor, O'Connor and McNaughton, 2018).

WICKLOW: Glenagvore Brook, Knocknadroose (O0101), 2 larvae 27 March 1983, M. J. Costello.

Drusus annulatus is now known from 72 10km squares.

***Ecclisopteryx dalecarlica* Kolenati, 1848**

WICKLOW: Glenagvore Brook, Knocknadroose (O0101), 1 larva 27 March 1983, M. J. Costello.

Ecclisopteryx dalecarlica is still only known from the 16 10km squares shown in O'Connor (2015).

***Chaetopteryx villosa* (Fabricius, 1798) (Fig. 64)**

Recorded from the Craigagh Wood, near the Glendun River, Cushendun (D2232), Lough Fadden (D1842), the River Braid (D1103) and the River Dall, Cushendall (D2327), County Antrim (O'Connor and McNaughton, 2017c; O'Connor, O'Connor and McNaughton, 2018).

Chaetopteryx villosa is now known from 37 10km squares.

***Anabolia nervosa* (Curtis, 1834) New to County Donegal (Fig. 65)**

Recorded from Lough Garve (D2117), Lough na Trosk (D2719), Lough na Tullig (D2420) and the River Braid, Ballymena, Grange Road (D1002), County Antrim (O'Connor and McNaughton, 2017c; O'Connor, O'Connor and McNaughton, 2018).

DONEGAL: Lough Eske (G9683), 2 larvae 6 June 2018, collected in a sheltered small inlet of the lake, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Wavin Lake (Knock Pond) (O1960), 1♂ 11 October 2017, swept, J. P. O'Connor & M. A. O'Connor.

Anabolia nervosa is now known from 101 10km squares.

***Glyphotaelius pellucidus* (Retzius, 1783) (Fig. 66)**

LOUTH: Rathescar Lake (O0286), 2♀♀ 31 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

This is the second record for County Louth.

WATERFORD: Ballyscanlan Lough (S5402), 1♀ 22 May 2017, 1♂ 5 June 2018 and 1♀ 11 June 2018, light-trap, T. Bryant, (S5302), 1♀ 7 June 2018 and 1♀ 21 June 2018, swept, T. Bryant; Tramore (S5701), 1♀ 27 May 2018 and 1♂ 2 June 2018, light-trap, T. Bryant.

WEXFORD: J. F. Kennedy Park (S7218), 1♂ 6 August 2018, swept near a pond and stream, J. P. O'Connor & M. A. O'Connor; Maudlins Stream, New Ross (S7328), 2♂♂1♀ 11-12 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

WICKLOW: "Tinode", The Lamb near Manor Kilbride (O0120), 1 ♂ 9 September 2018, dead in a spider's web, J. P. O'Connor & K. Killeen.

Glyphotaelius pellucidus is now known from 64 10km squares.

***Grammotaulius nigropunctatus* (Retzius, 1783) New to County Waterford (Fig. 67)**

WATERFORD: Tramore (S5701), 1♂ 14 September 2017, light-trap. T. Bryant.

This is the first record for south-east Ireland.

WICKLOW: Russelltown Park (N9610), Blessington Reservoir, ♀ 16 August 1981, swept, J. P. O'Connor & M. A. O'Connor.

Previously only known from a larval record at Russelltown Park, *Grammotaulius nigropunctatus* is now known from 30 10km squares.

***Limnephilus affinis* Curtis, 1834 New to Counties Louth and Meath (Fig. 68)**

LOUTH: Rathescar Lake (O0286), 2♀♀ 31 May 2018, swept from ivy *Hedera* overhanging a small stream bordered by an arable field, J. P. O'Connor & M. A. O'Connor.

The small stream was one of a network, some of which had been heavily contaminated by deposits of pig slurry after spraying on adjacent land.

MEATH: Corstown Lough near Drumconrath (N8991), 1♂ 5 September 2018, remains in a spider's web, J. P. O'Connor & M. A. O'Connor; Lough Brackan near Drumconrath (N8788), 1♂ 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: River Mahon, Bunmahon (X4398), 1♀ 23 April 2018, A. Walshe.

WEXFORD: Education Centre, Wexford Wildlife Reserve, North Slobs (T0723), 1♂1♀ 13 August 2018, remains in spiders' webs, J. P. O'Connor & M. A. O'Connor.

Limnephilus affinis is now known from 78 10km squares.

***Limnephilus auricula* Curtis, 1834 (Fig. 69)**

Recorded from Craigagh Wood, near Glendun River, Cushendun (D2232), County Antrim by O'Connor, O'Connor and McNaughton (2018).

KERRY: Muckross House Gardens (V9686), 1♂ 10 September 1981, found hiding inside a garden plant, J. P. O'Connor & M. A. O'Connor; Muckross Lake, Killarney (V9484), 1♀ 26 October 1994, swept, J. P. O'Connor.

The previous latest date was the 12 October. *Limnephilus auricula* is now known from 109 10km squares.

***Limnephilus binotatus* Curtis, 1834 (Fig. 70)**

CAVAN: Lough Sheelin, Mullaghboy (N4285), 2♀♀ 24 May 2018, light-trap, C. McNaughton.

This is the second record for County Cavan. *Limnephilus binotatus* is now known from 19 10km squares.

***Limnephilus borealis* (Zetterstedt, 1840) (Fig. 71)**

Adults of *Limnephilus borealis* were discovered new to Ireland at Lough Garve (D2117) on the Garron Plateau in County Antrim (O'Connor and McNaughton, 2017b). Subsequently, the species was collected at a second site *viz.* Lough Natullig (Loch na Tullig) (D2421), also in County Antrim (O'Connor and McNaughton, 2018).

Limnephilus borealis is now known from two 10km squares.

***Limnephilus centralis* Curtis, 1834 (Fig. 72)**

The species was recorded as new to County Fermanagh from the River Erne at Bellanaleck Quay (H2339) (O'Connor, O'Connor and McNaughton, 2018).

DONEGAL: River Clady, near Lough Eske (G9684), 3♂♂1♀ 7 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

Limnephilus centralis is now known from 59 10km squares.

***Limnephilus coenosus* Curtis, 1834 (Fig. 73)**

Recorded as new to County Antrim from Lough Garve (D2117) and Lough na Tullig (D2420) by O'Connor and McNaughton (2017c).

Limnephilus coenosus is now known from five 10km squares.

***Limnephilus decipiens* (Kolenati, 1848) New to Counties Meath, Offaly and Wexford (Fig. 74)**

CAVAN: Lough Sheelin, Mullaghboy (N4285), 1♀ 24 May 2018, light-trap, C. McNaughton.

This is the second record for County Cavan.

MEATH: Corstown Lough near Drumconrath (N8991), 1♀ 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.

OFFALY: Lough Boora (N1818), 5♂♂12♀♀ 10 October 2018, J. P.O'Connor & M. A. O'Connor.

WEXFORD: Oaklands Lake, New Ross (S7125), 2♀♀ 14-15 August 2018, light- trap, J. P. O'Connor & M. A. O'Connor.

Limnephilus decipiens is now known from 16 10km squares.

***Limnephilus elegans* Curtis, 1834 (Fig. 75) (Plate 8)**

Recorded from the north-eastern extremity of Dungonnell reservoir (D2018), County Antrim by O'Connor and McNaughton (2017c) and Lough na Trosk (D2719), County Antrim by O'Connor, O'Connor and McNaughton (2018).

Limnephilus elegans is now known from ten 10km squares.

***Limnephilus flavicornis* (Fabricius, 1787) New to Counties Donegal, Louth and Meath (Fig. 76)**

The species was also recorded from the River Erne, Cloonatrig (H2637), County Fermanagh (O'Connor, O'Connor and McNaughton, 2018).

DONEGAL: Lough Eske (G9683), 1♂1♀ 6 June 2018, swept, 2♂♂2♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Lucan Demesne [River Liffey] (O0235), 1♂ 15 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

LAOIS: Abbeyleix Bog (S4383), 1 larva 30 April 2018, in a bog pool, J. P. O'Connor & M. A. O'Connor.

LOUTH: Rathescar Lake (O0286), 3♂♂1♀ 31 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

MEATH: Corstown Lough near Drumconrath (N8991), 1♂2♀♀ 5 September 2018, swept from trees and bushes near the lake, J. P. O'Connor & M. A. O'Connor; Lough Brackan near Drumconrath (N8788), 3♀♀ 5 September 2018, J. P. O'Connor & M. A. O'Connor.

Limnephilus flavicornis is now known from 107 10km squares.

***Limnephilus hirsutus* (Pictet, 1834) New to County Wexford (Fig. 77)**

WEXFORD: Craywell, New Ross (S7228), 1♀ 18 August 2018, resting on the front door of a suburban house, M. A. O'Connor; Maudlins Stream, New Ross (S7328), 3♂♂3♀♀ 11-12 August 2018 and 1♂ 16-17 August 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

WICKLOW: "Tinode", The Lamb near Manor Kilbride (O0120), 1♀ 9 September 2018, dead in a spider's web on a window, J. P. O'Connor & K. Killeen and 1♀ 9 September 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

This site is only the second locality for the species in County Wicklow. *Limnephilus hirsutus* is now known from 32 10km squares.

***Limnephilus incisus* Curtis, 1834 (Fig. 78)**

Limnephilus incisus was recorded from beside Lough na Trosk (D2619), County Antrim by O'Connor, O'Connor and McNaughton (2018).

WESTMEATH: Coosan Lough (N0545), 1♀ 2 July 1980, swept, J. P. O'Connor.

Limnephilus incisus is now known from 37 10km squares.

***Limnephilus lunatus* Curtis, 1834 (Fig. 79)**

Recorded from Lough Fadden (D1842), Lough Garve (D2117) and Lough na Trosk (D2719), County Antrim by O'Connor and McNaughton (2017c) and Coleraine Marina, River Bann (C8433), County Derry (Londonderry) by O'Connor, O'Connor and McNaughton (2018).

CORK: Finnis (W4759), 1♀ 26 October 2017, K. G. M. Bond; Lough Hyne (Ine) (W0929), 2 larvae 27 January 1983, stream, M. J. Costello.

DERRY: Coleraine Marina, River Bann (C8433), ♀ 9 October 2017, light-trap, C. McNaughton.

DONEGAL: Lough Eske (G9683), 1♂ and 1 larva 6 June 2018, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Wavin Lake (Knock Pond) (O1960), 1♀ 11-12 October 2017, light-trap, J. P. O'Connor & M. A. O'Connor.

KERRY: Muckross Lake, Killarney (V9484), 3♀♀ 26 October 1994, swept, J. P. O'Connor.

WATERFORD: Ballyscanlan Lough (S5402), 1♀ 23 August 2017, swept, T. Bryant.

Limnephilus lunatus is now known from 173 10km squares.

***Limnephilus luridus* Curtis, 1834 (Fig. 80)**

WATERFORD: Tramore (S5701), 1♀ 10 June 2018, light-trap, T. Bryant.

This is the second locality for *Limnephilus luridus* in County Waterford. The species is now known from 38 10km squares.

***Limnephilus marmoratus* Curtis, 1834 (Fig. 81)**

Recorded from Lough Fadden (D1842), County Antrim, by O'Connor and McNaughton (2017c).

CORK: Lough Allua (W2065), 1 larva 27 April 1985, M. J. Costello; Lough Hyne (Ine) (W0929), 1 larva 27 January 1983, stream, M. J. Costello.

DONEGAL: Lough Eske (G9683), 1♂ 6 June 2018, swept from vegetation, 2♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Castleknock (O0837), 1♂ 2-3 September 2018, light-trap in a suburban garden, J. P. O'Connor.

KERRY: Muckross Lake, Killarney (V9484), 3♀♀ 26 October 1994, J. P. O'Connor; Torc Stream, Killarney (V9684), 1♀ 10 September 1981, swept, J. P. O'Connor.

MEATH: Corstown Lough near Drumconrath (N8991), 3♀♀ 5 September 2018, swept from trees and bushes near the lake, J. P. O'Connor & M. A. O'Connor.

OFFALY: Lough Boora (N1818), 1♂2♀♀ 25 July 2018, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Carrickvrantry Reservoir (S5502), 1♂ 24 August 2017, T. Bryant.

Limnephilus marmoratus is now known from 172 10km squares.

***Limnephilus nigriceps* (Zetterstedt, 1840) (Fig. 82)**

Recorded from Evish Lough (D1918), Lough Garve (D2117) and Lough na Tullig (D2420), County Antrim by O'Connor and McNaughton (2017c).

Limnephilus nigriceps is now known from 29 10km squares.

***Limnephilus rhombicus* (Linnaeus, 1758) New to County Cork (Fig. 83)**

CORK: Lough Allua (W2065), 1 larva 27 April 1985, M. J. Costello.

WEXFORD: Maudlins Stream, New Ross (S7328), 1♂1♀ 11-12 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

Limnephilus rhombicus is now known from 36 10km squares.

***Limnephilus sparsus* Curtis, 1834 (Fig. 84)**

DONEGAL: Lough Eske (G9683), 2♀♀ 6 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

FERMANAGH: Lower Lough Erne, Castle Archdale (H1758), 2♀♀ 5 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Ballyscanlan Lake (S5302), 1♂ 21 June 2018, swept, T. Bryant.

WEXFORD: Craywell, New Ross (S7228), 1♂ 12-13 August 2018, light-trap in suburban garden, J. P .O'Connor & M. A. O'Connor; Maudlins Stream, New Ross (S7328), 2♀♀ 9 August 2018, swept from vegetation, 1♀ 16-17 August 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

WICKLOW: "Tinode", The Lamb near Manor Kilbride (O0120), 1♂2♀♀ 9 September 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

Limnephilus sparsus is now known from 116 10km squares.

***Limnephilus stigma* Curtis, 1834 (Fig. 85)**

Recorded from Evish Lough (D1918) and Lough Garve (D2117), County Antrim by O'Connor and McNaughton (2017c).

Limnephilus stigma is now known from 26 10km squares.

***Halesus digitatus* (Schrank, 1781) (Fig. 86)**

Recorded from Craigagh Wood (near Glendun River) (D2232) and Waterfoot (D2325), County Antrim by O'Connor and McNaughton (2017c).

CORK: Lough Hyne (Ine) (W0929), 1 larva 27 January 1983, stream, M. J. Costello.

Halesus digitatus is now known from 28 10km squares.

***Halesus radiatus* (Curtis, 1834) (Fig. 87)**

Recorded from the Cranny Water (D2718), Lough Fadden (D1842), Lough Garve (D2117), Lough na Tullig (D2420) and the River Braid (D1102), County Antrim by O'Connor and McNaughton (2017c) and Coleraine Marina, River Bann (C8433), County Derry (Londonderry) by O'Connor, O'Connor and McNaughton (2018).

CORK: Dunbegly Cliffs (W7250) [small lake nearby], 1♀ 28 October 2017, K. G. M. Bond; Lough Hyne (Ine) (W0929), 20 larvae 27 January 1983, stream, M. J. Costello. **WATERFORD:** Ballyscanlan Lough (S5402), 1♀ 9 October 2017, light-trap, T. Bryant.

Halesus radiatus is now known from 123 10km squares.

***Micropterna lateralis* (Stephens, 1837) (Fig. 88)**

KERRY: River Cloghereen, Killarney (V9786) , 6 larvae 28 May 1995, J. P. O'Connor.

Micropterna lateralis is now known from 39 10km squares.

***Micropterna sequax* McLachlan, 1875 (Fig. 89)**

Recorded from Craigagh Wood near Glendun River (D2232), County Antrim by O'Connor, O'Connor and McNaughton (2018).

WATERFORD: Ballyscanlan Lake (S5402), 1♂ 28 May 2018, light-trap, T. Bryant; Tramore (S5701), 1♂ 9 September 2017 and 1♂ 30 September 2017, light-trap, T. Bryant.

Micropterna sequax is now known from 55 10km squares.

***Potamophylax cingulatus* (Stephens, 1837) New to County Carlow (Fig. 90)**

O'Connor, O'Connor and McNaughton (2018) record *Potamophylax cingulatus* from Craigagh Wood near Glendun River (D2232) and a tributary of the Cranny Water, Carnlough (D2718), both in County Antrim.

CARLOW: St Mullins (S7238), 1 larva 10 August 2018, stream, J. P. O'Connor & M. A. O'Connor.

WEXFORD: Maudlins Stream, New Ross (S7328), 1 larva 9 August 2018, in small trickle entering the stream, 2♂♂ 16-17 August 2018 and 1♂ 11-12 August 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

WICKLOW: "Tinode", The Lamb near Manor Kilbride (O0120), 1 ♂ 9 September 2018, dead in spider's web, J. P. O'Connor & K. Killeen.

Potamophylax cingulatus is now known from 46 10km squares.

***Potamophylax latipennis* (Curtis, 1834) (Fig. 91)**

Recorded from Craigagh Wood near the Glendun River (D2232), County Antrim by O'Connor, O'Connor and McNaughton (2018).

WATERFORD: Mahon River, Bunmahon (X4398), 1♂ 13 June 2018, A. Walshe.

Potamophylax latipennis is now known from 80 10km squares.

***Stenophylax permistus* McLachlan, 1895**

WATERFORD: Tramore (S5701), ♂ 3 April 2018, light-trap, T. Bryant.

This is the earliest record for an Irish specimen of *Stenophylax permistus*. The species is known from 53 10km squares.

SERICOSTOMATIDAE

***Sericostoma personatum* (Kirby & Spence, 1826) (Fig. 92)**

Recorded from Lough Garve (D2117) and Lough na Bric (D2519), County Antrim by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 27♂♂20♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

KILDARE: Royal Canal, Kilcock (N8839), 1♀ 21 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

MAYO: Lough Muck, near Foxford (G2002), 1♂ 9 June 2018, L. Stenson, det. J. Brophy, conf. J. P. O'Connor.

WEXFORD: Maudlins Stream, New Ross (S7328), 2♂♂ 11-12 August 2018 and 1♂ 16-17 August 2018 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Sericostoma personatum is now known from 245 10km squares.

BERAEIDAE

***Beraea pullata* (Curtis, 1834) New to County Donegal (Fig. 93)**

DONEGAL: at a stream in a gully entering the River Clady (G9684), 10♂♂6♀♀ 7 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

Beraea pullata is now known from 35 10km squares.

ODONTOCERIDAE

***Odontocerum albicorne* (Scopoli, 1763) (Fig. 94)**

WEXFORD: Maudlins Stream, New Ross (S7328), 2♂♂ 9 August 2018, swept from vegetation, 2♂♂ 11-12 August 2018 and 1♂ 16-17 August 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

Odontocerum albicorne is now known from 84 10km squares.

MOLANNIDAE

***Molanna albicans* (Zetterstedt, 1840) (Fig. 95)**

FERMANAGH: Lower Lough Erne, Castle Archdale (H1758), 8♂♂2♀♀ 5 June 2018, swept, J. P. O'Connor & M. A. O'Connor; River Erne, Cloonatrig (H2637), 1♀ 5-6 June 2018, light-trap, J. P. O'Connor & M. A. O'Connor.

Previously only known from Lower Lough Erne based on an adult taken in 1948. *Molanna albicans* is now known from 28 10km squares.

LEPTOCERIDAE

***Adicella reducta* (McLachlan, 1865) New to County Carlow (Fig. 96)**

CARLOW: St Mullins (S7238), 1♂ 10 August 2018, swept from vegetation beside a stream, J. P. O'Connor & M. A. O'Connor.

Adicella reducta is now known from 24 10km squares.

***Athripsodes albifrons* (Linnaeus, 1758) (Fig. 97)**

TIPPERARY: River Suir, Carrick-on-Suir (S3921), 17♂♂10♀♀ 17 August 2017 and Kilsheelan (S2823), 5♂♂10♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Athripsodes albifrons is now known from 96 10km squares.

***Athripsodes aterrimus* (Stephens, 1836) New to County Louth (Fig. 98)**

Recorded from Lough Fine (D2520), County Antrim by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 5♂♂3♀♀ 6 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

FERMANAGH: River Erne, Cloonatrig (H2637), 3♂♂ 5-6 June 2018, light-trap, J. P. O'Connor & M. A. O'Connor.
LOUTH: Rathescar Lake (O0286), 7♂♂2♀♀ 31 May 2018, swept from the lakeside vegetation and from numerous swarms on the lake, J. P. O'Connor & M. A. O'Connor.
OFFALY: Grand Canal, Pollagh (N1925), 1♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Loch an Dochais, Lough Boora Discovery Park (N1819), 7♂♂4♀♀ 26 June 2018, 2♂♂♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Upper Finnamore Lake, Lough Boora Discovery Park (N2120), 1♀ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.
WATERFORD: Ballyscanlan Lough (S5402), 1♂ 23 August 2017, T. Bryant; Belle Lake (S6604), 1♂ 14 June 2017, on a boat, 3♂♂ 9-10 June 2018, A. Walshe.

Athripsodes aterrimus is now known from 121 10km squares.

***Athripsodes bilineatus* (Linnaeus, 1758) (Fig. 99) New to County Kildare**

KILDARE: Louisa Bridge, beside River Camac (N9936), 1♀ 22 August 1982, swept in marshy area, J. P. O'Connor & M. A. O'Connor.

This is the first record of an Irish adult of this species since King and Halbert (1910). *Athripsodes bilineatus* is now known from 16 10km squares.

***Athripsodes cinereus* (Curtis, 1834) (Fig. 100)**

MEATH: River Boyne, Trim (N8056), 1 larva 5 September 1988, M. F. O'Grady.
OFFALY: Grand Canal, Pollagh (N1925), 2♀♀ 25 July 2018, J. P. O'Connor & M. A. O'Connor; Lough Boora (N1818), 3♂♂2♀♀ 25 July 2018, J. P. O'Connor & M. A. O'Connor; Upper Finnamore Lake, Lough Boora Discovery Park (N2120), 1♀ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.
TIPPERARY: River Suir, Carrick-on-Suir (S3921), 15♂♂6♀♀ 17 August 2017 and Kilsheelan (S2823), 35♂♂28♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.
WATERFORD: Belle Lake (S6604), 1♂ 28-29 July 2017, A. Walshe; Tramore (S5701), ♂♀ 1 July 2018, light-trap, T. Bryant.

Athripsodes cinereus is now known from 187 10km squares.

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

DONEGAL: Kilmacrenan [Kilmacrenann] (C1420), 2♂♂12♀♀ 3 July 1891 and 4♂♂4♀♀ 20 July 1891, J. J. F. X. King, confirmed J. P. O'Connor.

Although already recorded from the area [Lennan River], Irish adults are rarely taken. *Ceraclea annulicornis* is known from seven 10km squares.

***Ceraclea dissimilis* (Stephens, 1836) (Fig. 101)**

DONEGAL: Lough Eske (G9683), 1♂ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: River Suir, Kilsheelan (S2823), 1♂4♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Ceraclea dissimilis is now known from 60 10km squares.

***Ceraclea fulva* (Rambur, 1842) (Fig. 102)**

WATERFORD: Belle Lake (S6604), 1♂ 14 June 2017, on a boat, A. Walshe; Tramore (S5701), ♂ 2 July 2018, light-trap, T. Bryant.

Previously known from Belle Lake, Tramore is the second locality for both County Waterford and south-east Ireland. *Ceraclea fulva* is now known from 61 10km squares.

***Ceraclea nigronervosa* (Retzius, 1783) New to County Dublin (Fig. 103)**

DONEGAL: Lough Eske (G9683), 3♂♂2♀♀ 6-7 June 2018, light-traps and swept from vegetation, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Lucan Demesne [River Liffey] (O0235), 1♂ 27 May 2018, swept, J. P. O'Connor & M. A. O'Connor.

FERMANAGH: Upper Lough Erne, Knockninny Marina (H27311), 1♂ 8 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

MEATH: River Boyne, Dunmoe Castle (N9070), 1 pupal case 5 September 1988, M. F. O'Grady.

Ceraclea nigronervosa is now known from 56 10km squares.

***Ceraclea senilis* (Burmeister, 1839) (Fig. 104)**

DUBLIN: Royal Canal, 12th lock (O0838), 1♀ 17 July 2018, alive resting on a window inside a hotel, J. P. O'Connor.

In 1976, 3♂♂ were taken in same area which remains the only known Dublin locality. *Ceraclea senilis* is now known from 43 10km squares.

***Leptocerus tineiformis* Curtis, 1834 New to County Waterford (Fig. 105)**

WATERFORD: Tramore (S5701), 1♀ 30 June 2018 and ♀ 9 July 2018, light-trap, T. Bryant.

This species appears to be expanding its range in Ireland. *Leptocerus tineiformis* is now known from six 10km squares.

***Mystacides azurea* (Linnaeus, 1761) (Fig. 106)**

DONEGAL: Lough Eske (G9683), 24♂♂7♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Castleknock (O0837), 1♀ 2-3 September 2018, light-trap in a suburban garden, J. P. O'Connor; River Dodder (O1529), 1♀ 12 September 2018, on a riverside walkway, coll. and det. M. Nolan, conf. J. P. O'Connor.

KERRY: Muckross Lake, Killarney (V9484), 1♂ 26 October 1994, J. P. O'Connor.

The 26 October is the latest flight date for Ireland.

MEATH: Corstown Lough near Drumconrath (N8991), 1♀ 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.
OFFALY: Grand Canal, Pollagh (N1925), 1♂ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Lough Boora (N1818), 3♂♂3♀♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor.
TIPPERARY: River Suir, Carrick-on-Suir (S3921), 5♂♂4♀♀ 17 August 2017 and Kilsheelan (S2823), 3♂♂2♀♀ 16 August 2018, swept, J. P. O'Connor & M. A. O'Connor.

Mystacides azurea is now known from 163 10km squares.

***Mystacides longicornis* (Linnaeus, 1758) (Fig. 107)**

DUBLIN: Glen Pond, Phoenix Park (O0935), 1♀ 22 July 2018, swept, J. P. O'Connor & M. A. O'Connor; River Liffey, Strawberry Beds (O0735), 1♀ 30 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

Although *Mystacides longicornis* is a widespread Irish species, these are the first records from the River Liffey in County Dublin and also the Phoenix Park. The species has been found in the Farmleigh Estate which adjoins the Park.

MEATH: Lough Brackan near Drumconrath (N8788), 6♂♂ 5 September 2018, swept, J. P. O'Connor & M. A. O'Connor.
OFFALY: Loch an Dochais, Boora Park (N1819), 1♂ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Lough Boora (N1818), 2♂♂5♀♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Upper Finnamore Lake, Lough Boora Discovery Park (N2120), ♂ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.
WATERFORD: Ballyscanlan Lough (S5402), 1♀ 24 July 2017, T. Bryant; Belle Lake (S6604), 1♀ 9-10 June 2018, A. Walshe; Tramore (S5701), 1♀ 11 June 2018, light-trap, T. Bryant.

Mystacides longicornis is now known from 105 10km squares.

***Oecetis furva* (Rambur, 1842) New to CountyWaterford (Fig. 108)**

Recorded from Lough na Trosk (D2719), County Antrim by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 1♂ 6-7 June 2018, light-trap, J. P. O'Connor & M. A. O'Connor.
OFFALY: Loch an Dochais, Boora Park (N1819), 1♂ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Lough Boora (N1818), 2♂♂1♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor.
WATERFORD: Carrickavrantry Reservoir (S5502), 1♂ 30 June 2018, swept, T. Bryant.

Oecetis furva is now known from 50 10km squares.

***Oecetis ochracea* (Curtis, 1825) New to County Offaly (Fig. 109)**

Recorded from Lough Garve (D2117), County Antrim by O'Connor, O'Connor and McNaughton (2018).

DONEGAL: Lough Eske (G9683), 1♂ 6 June 2018, swept, 5♂♂3♀♀ 6-7 June 2018, light-traps, J. P. O'Connor & M. A. O'Connor.

OFFALY: Lough Boora (N1818), 1♀ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Ballyscanlan Lake (S5402), 1♂ 4 June 2018, swept, T. Bryant.

Oecetis ochracea is now known from 67 10km squares.

***Triaenodes bicolor* (Curtis, 1834) (Fig. 110)**

CORK: Lough Allua (W2065), 1 larva 27 April 1985, M. J. Costello.

This is the second record from County Cork.

OFFALY: Loch an Dochais, Lough Boora Discovery Park (N1819), 1♂ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor; Lough Boora (N1818), 2♂♂ 25 July 2018, swept, J. P. O'Connor & M. A. O'Connor; Upper Finnamore Lake, Lough Boora Discovery Park (N2120), 1♂ 26 June 2018, swept, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Carrickvrantry Reservoir (S5502), 1♂ 29 August 2017, T. Bryant.

Triaenodes bicolor is now known from 81 10km squares.

***Ylodes reuteri* (McLachlan, 1880) (Fig. 111)**

Tony Bryant light-trapped three females of *Ylodes reuteri* in Tramore, County Waterford (S5701) during June and July 2018 (O'Connor and Bryant, 2018). This is the third Irish record of this brackish water species. *Ylodes reuteri* is now known from three 10km squares.

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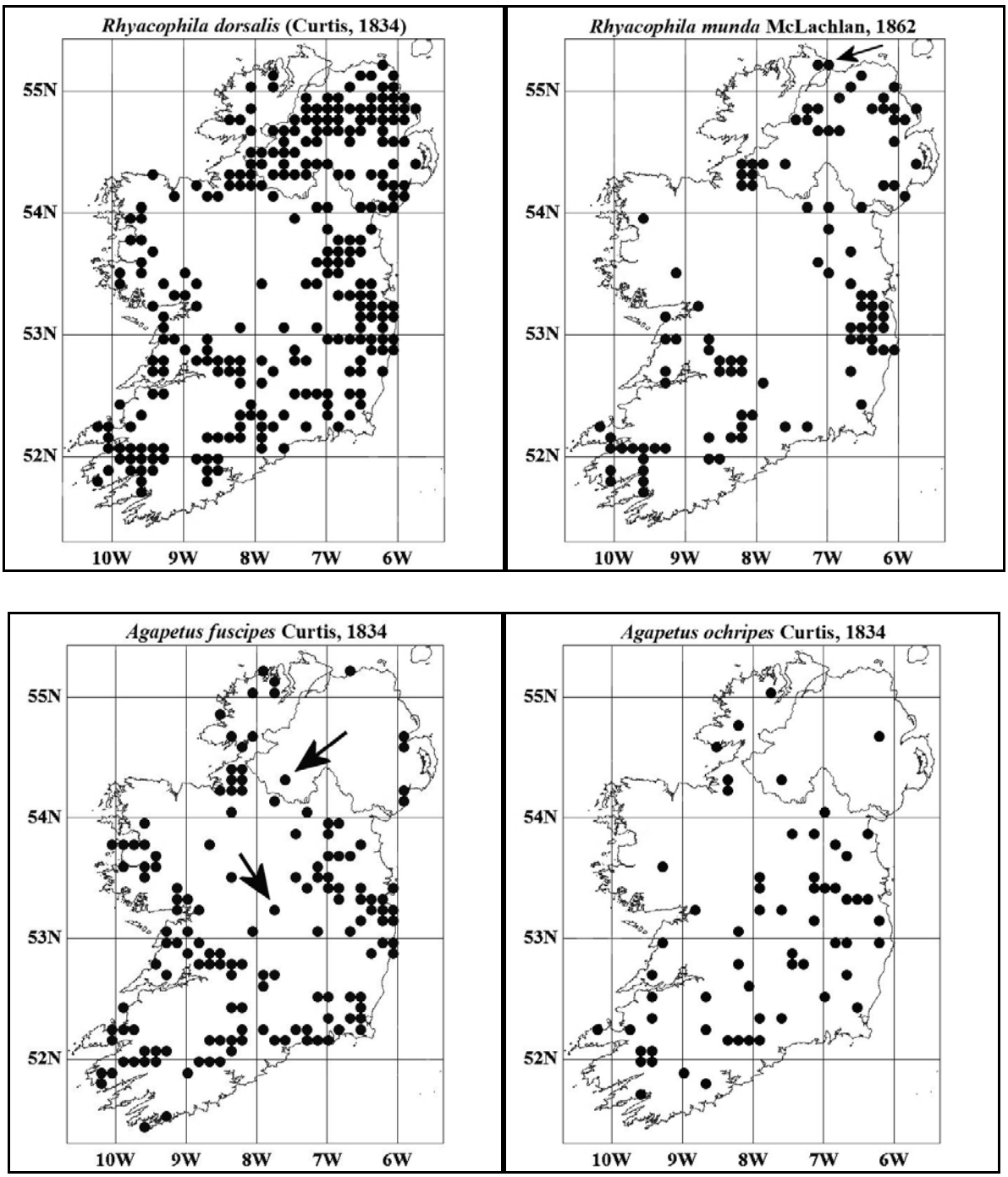
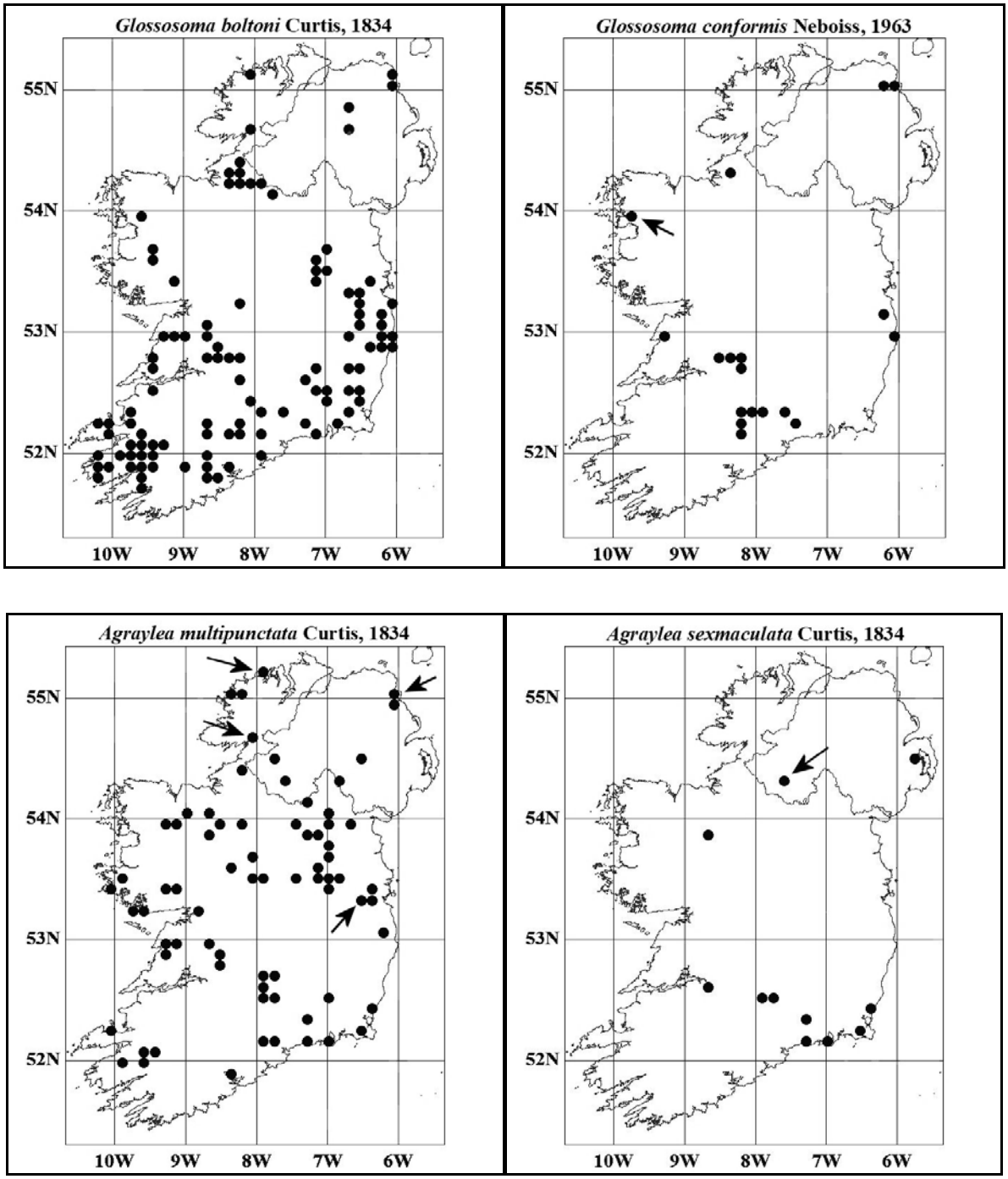
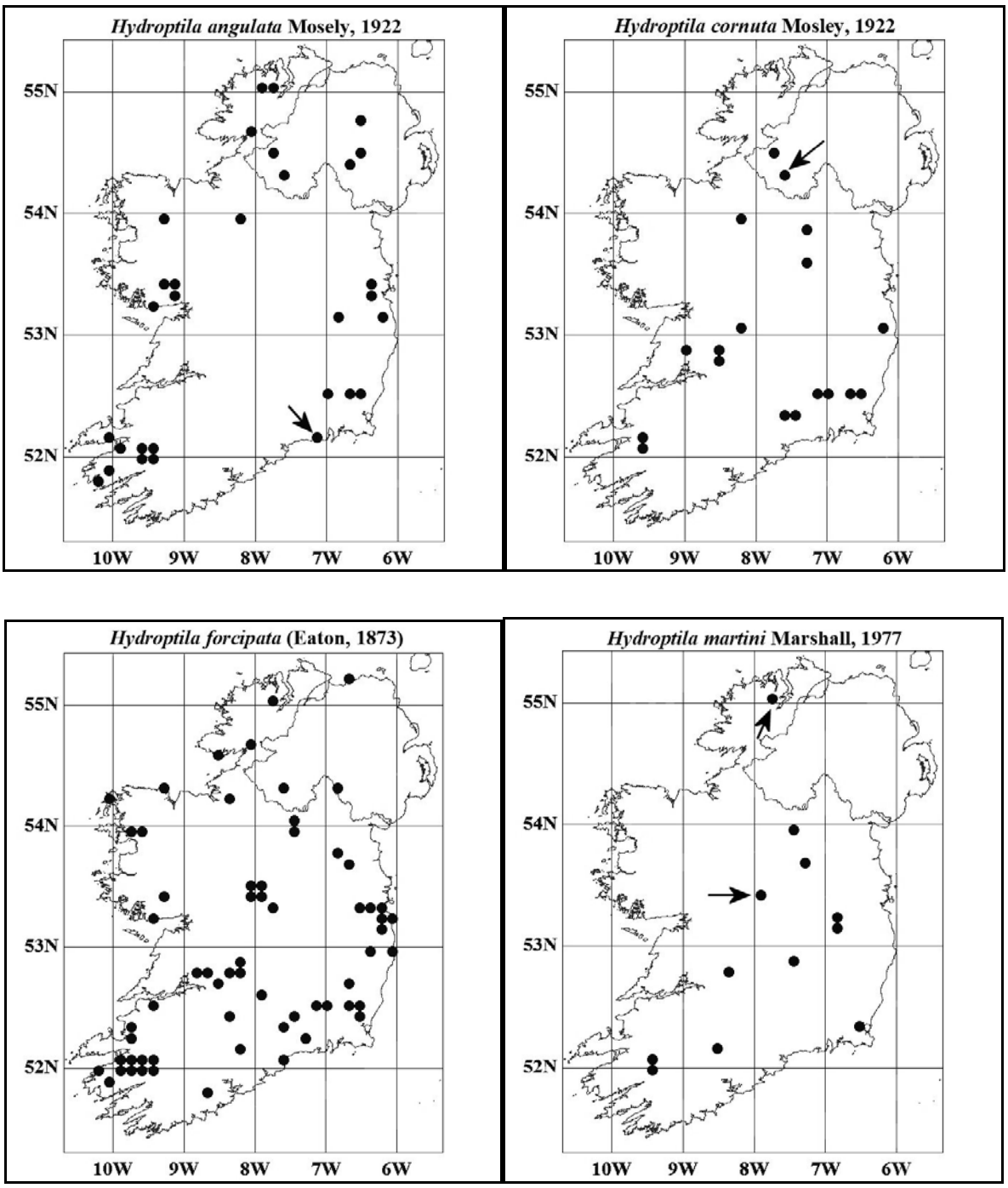


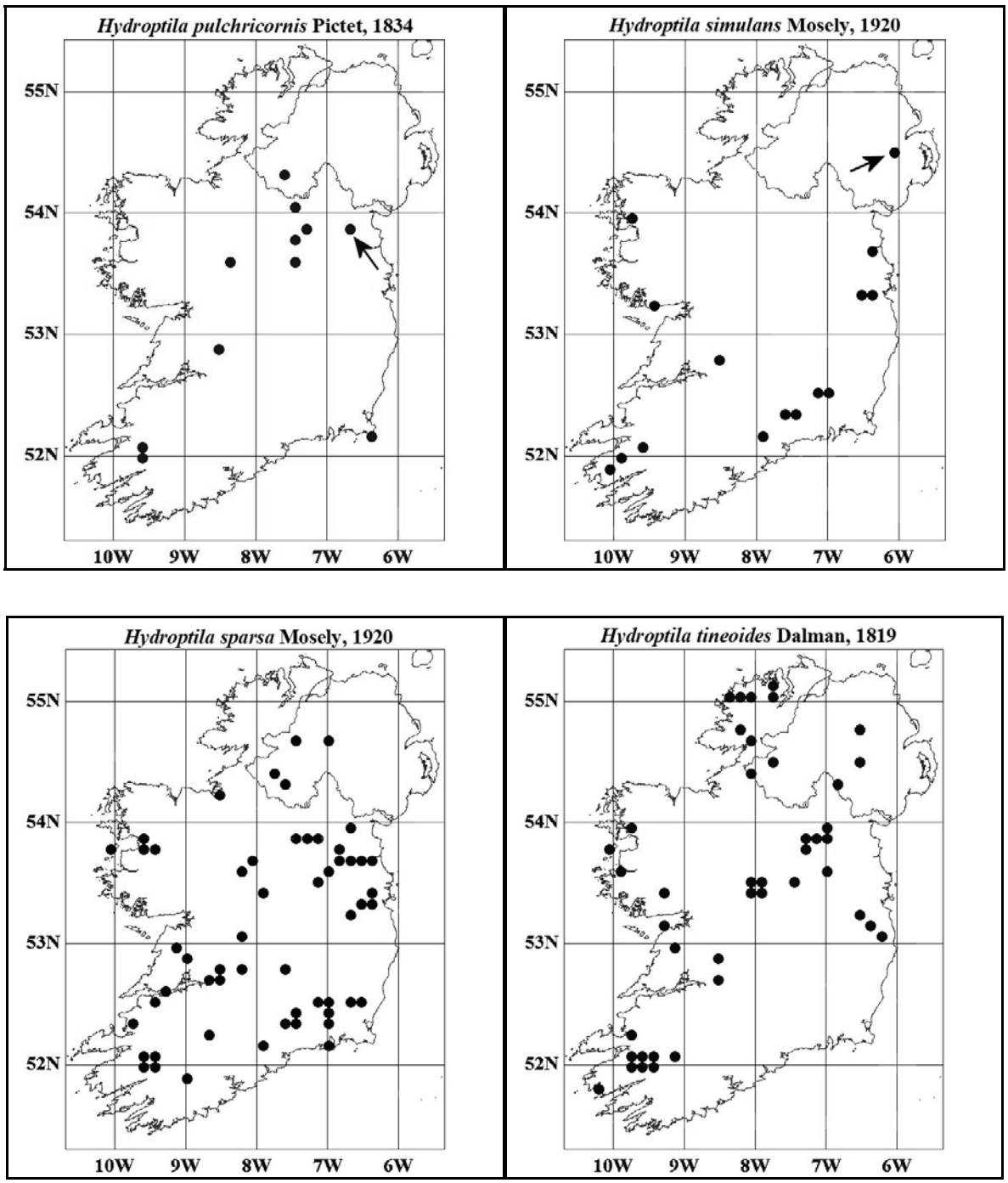
FIGURES 6-9. The known Irish distributions of *Rhyacophila dorsalis* (Curtis, 1834), *Rhyacophila munda* McLachlan, 1862, *Agapetus fuscipes* Curtis, 1834 and *Agapetus ochripes* Curtis, 1834. Significant records are indicated by arrows.



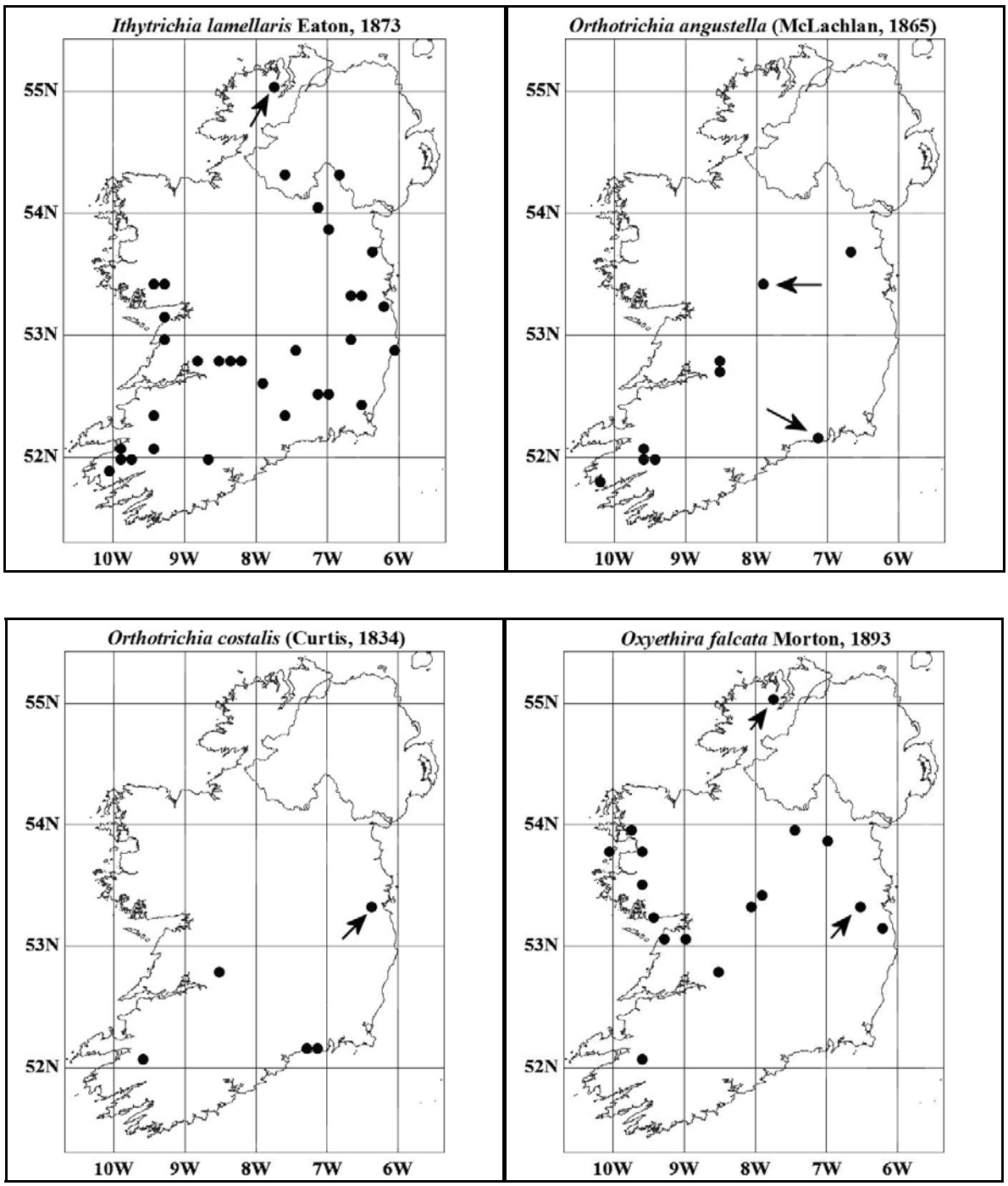
FIGURES 10-13. The known Irish distributions of *Glossosoma boltoni* Curtis, 1834, *Glossosoma conformis* Neboiss, 1963, *Agraylea multipunctata* Curtis, 1834 and *Agraylea sexmaculata* Curtis, 1834. Significant records are indicated by arrows.



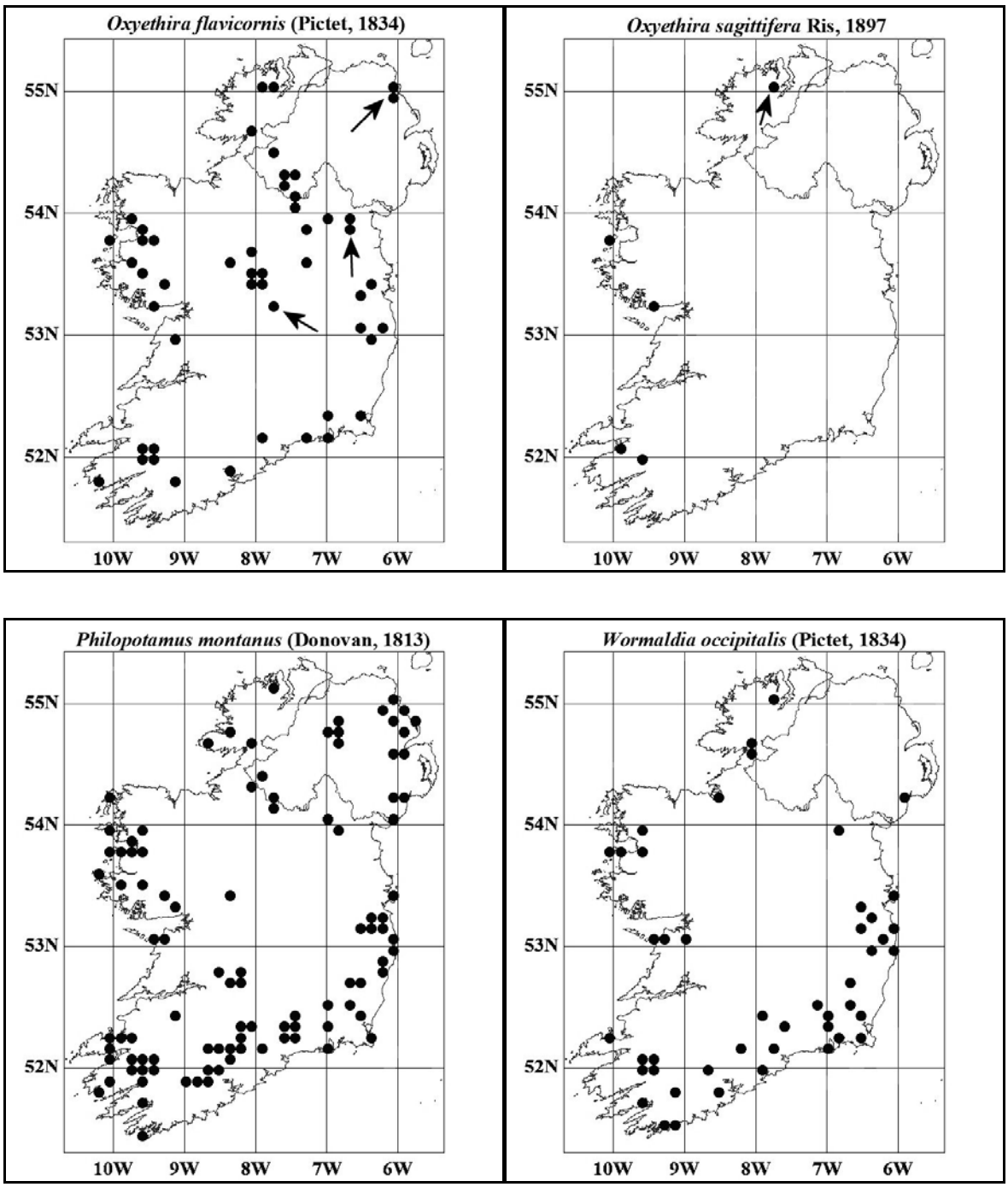
FIGURES 14-17. The known Irish distributions of *Hydroptila angulata* Mosely, 1922, *Hydroptila cornuta* Mosley, 1922, *Hydroptila forcipata* (Eaton, 1873) and *Hydroptila martini* Marshall, 1977. Significant records are indicated by arrows.



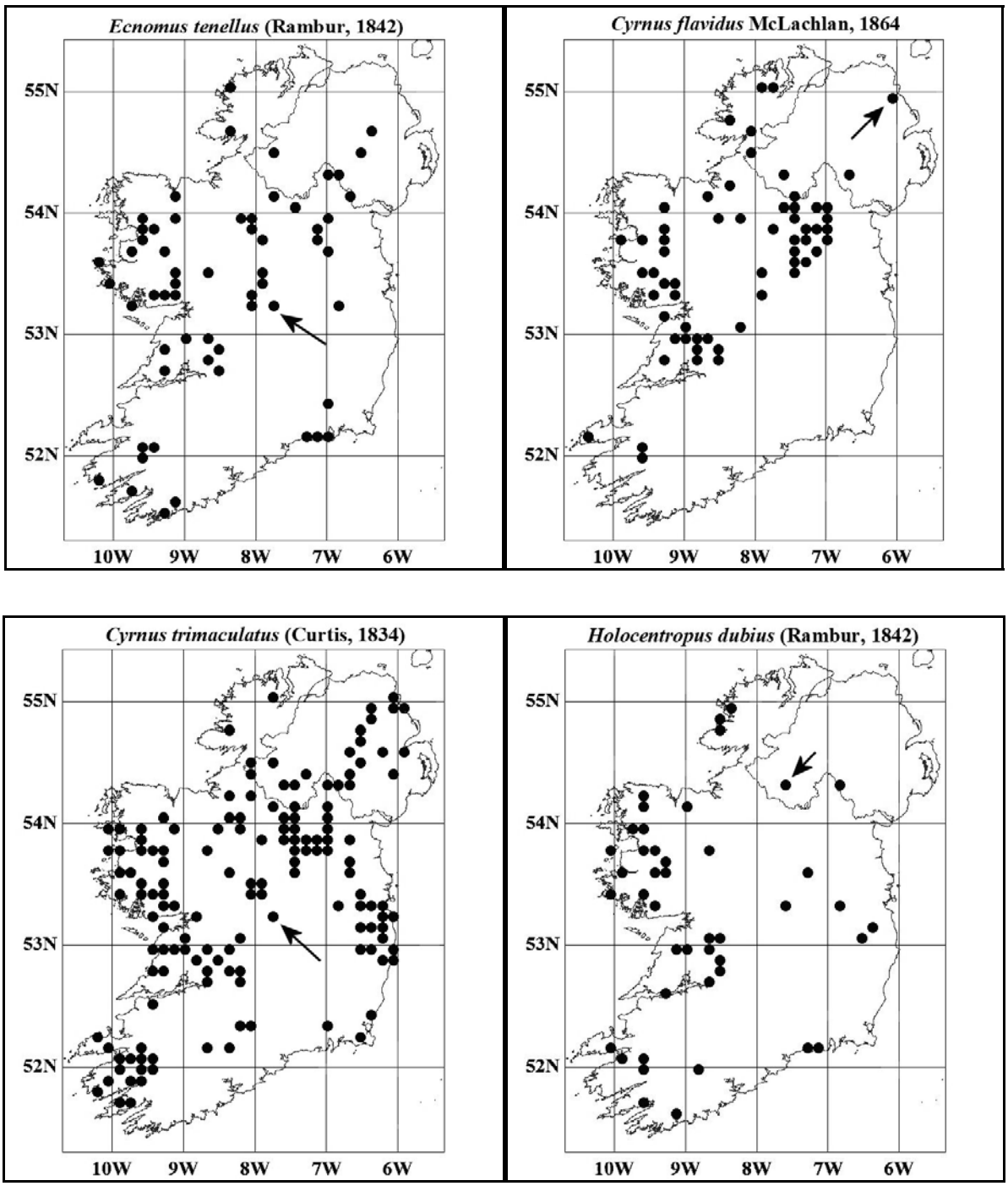
FIGURES 18-21. The known Irish distributions of *Hydroptila pulchricornis* Pictet, 1834, *Hydroptila simulans* Mosely, 1920, *Hydroptila sparsa* Mosely, 1920 and *Hydroptila tineoides* Dalman, 1819. Significant records are indicated by arrows.



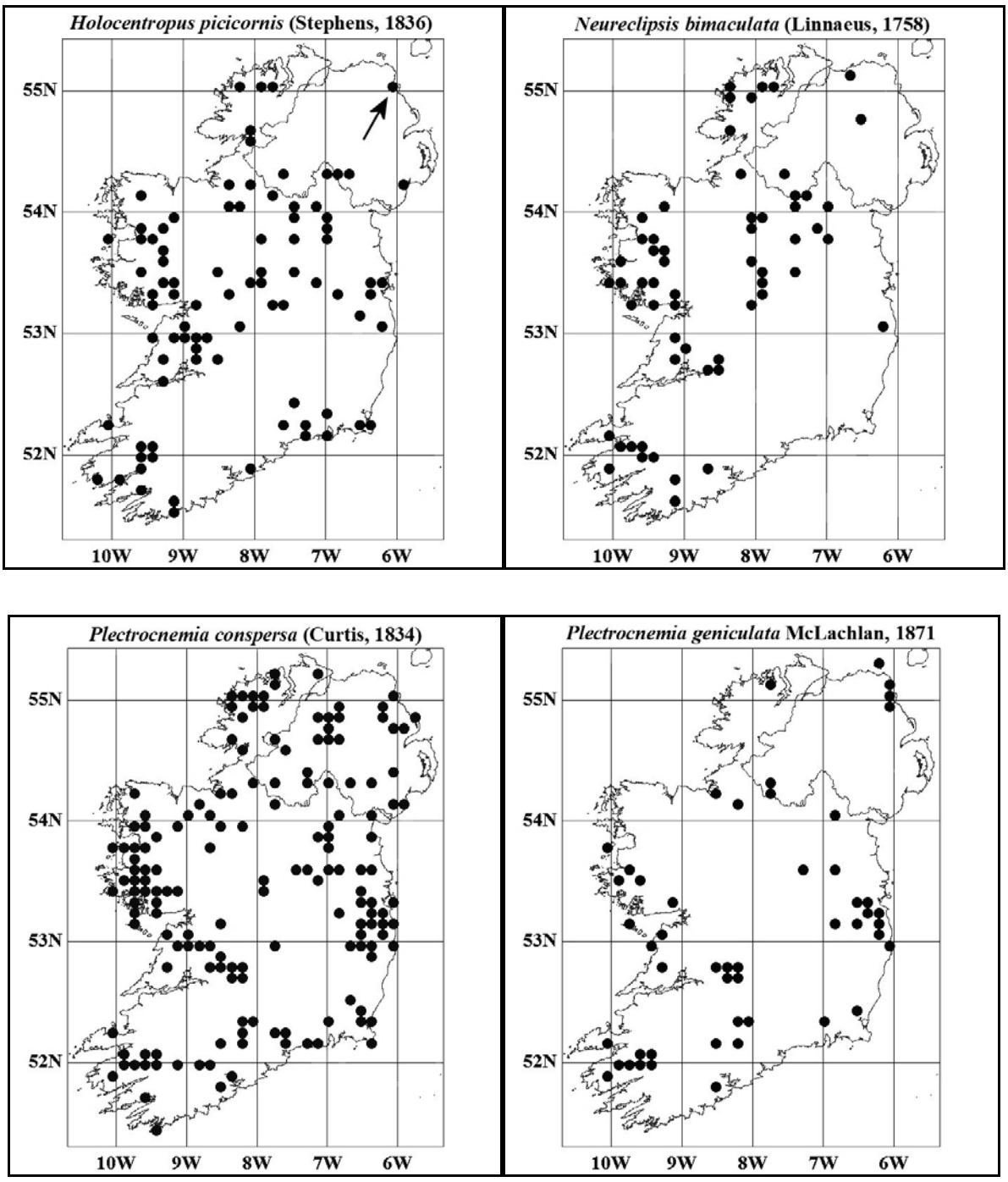
FIGURES 22-25. The known Irish distributions of *Ithytrichia lamellaris* Eaton, 1873, *Orthotrichia angustella* (McLachlan, 1865), *Orthotrichia costalis* (Curtis, 1834) and *Oxyethira falcata* Morton, 1893. Significant records are indicated by arrows.



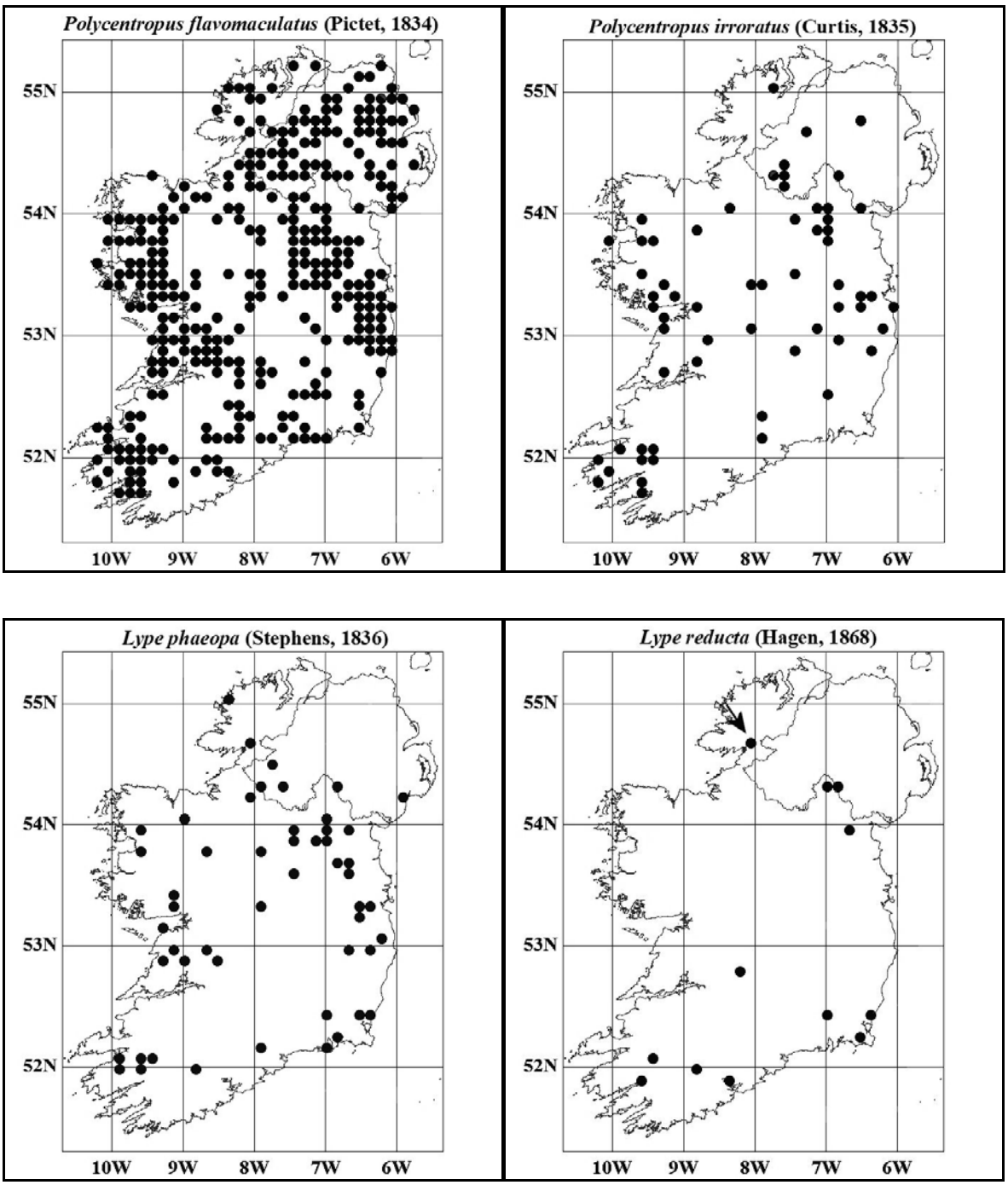
FIGURES 26-29. The known Irish distributions of *Oxyethira flavicornis* (Pictet, 1834), *Oxyethira sagittifera* Ris, 1897, *Philopotamus montanus* (Donovan, 1813) and *Wormaldia occipitalis* (Pictet, 1834). Significant records are indicated by arrows.



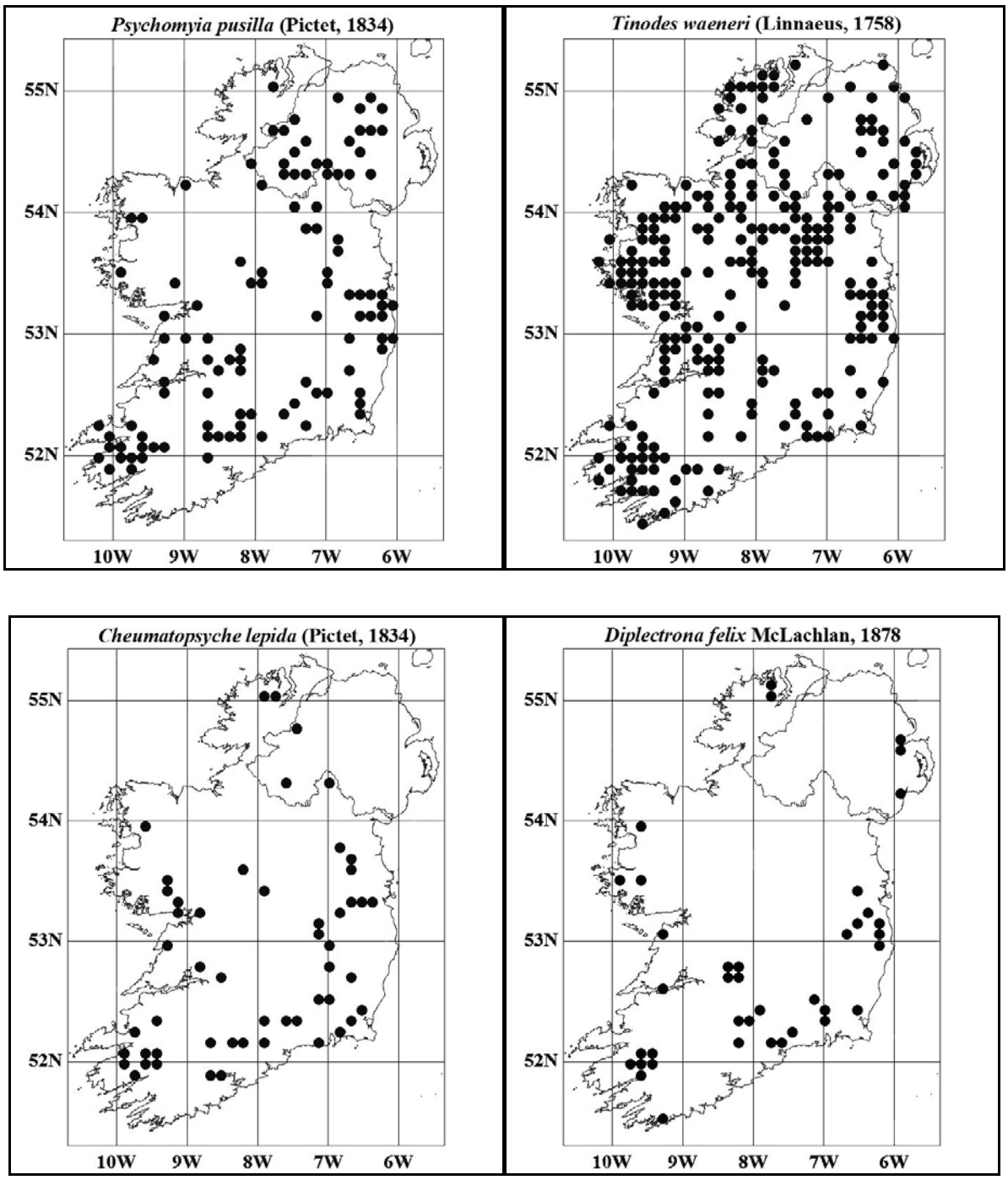
FIGURES 30-33. The known Irish distributions of *Ecnomus tenellus* (Rambur, 1842), *Cyrnus flavidus* McLachlan, 1864, *Cyrnus trimaculatus* (Curtis, 1834) and *Holocentropus dubius* (Rambur, 1842). Significant records are indicated by arrows.



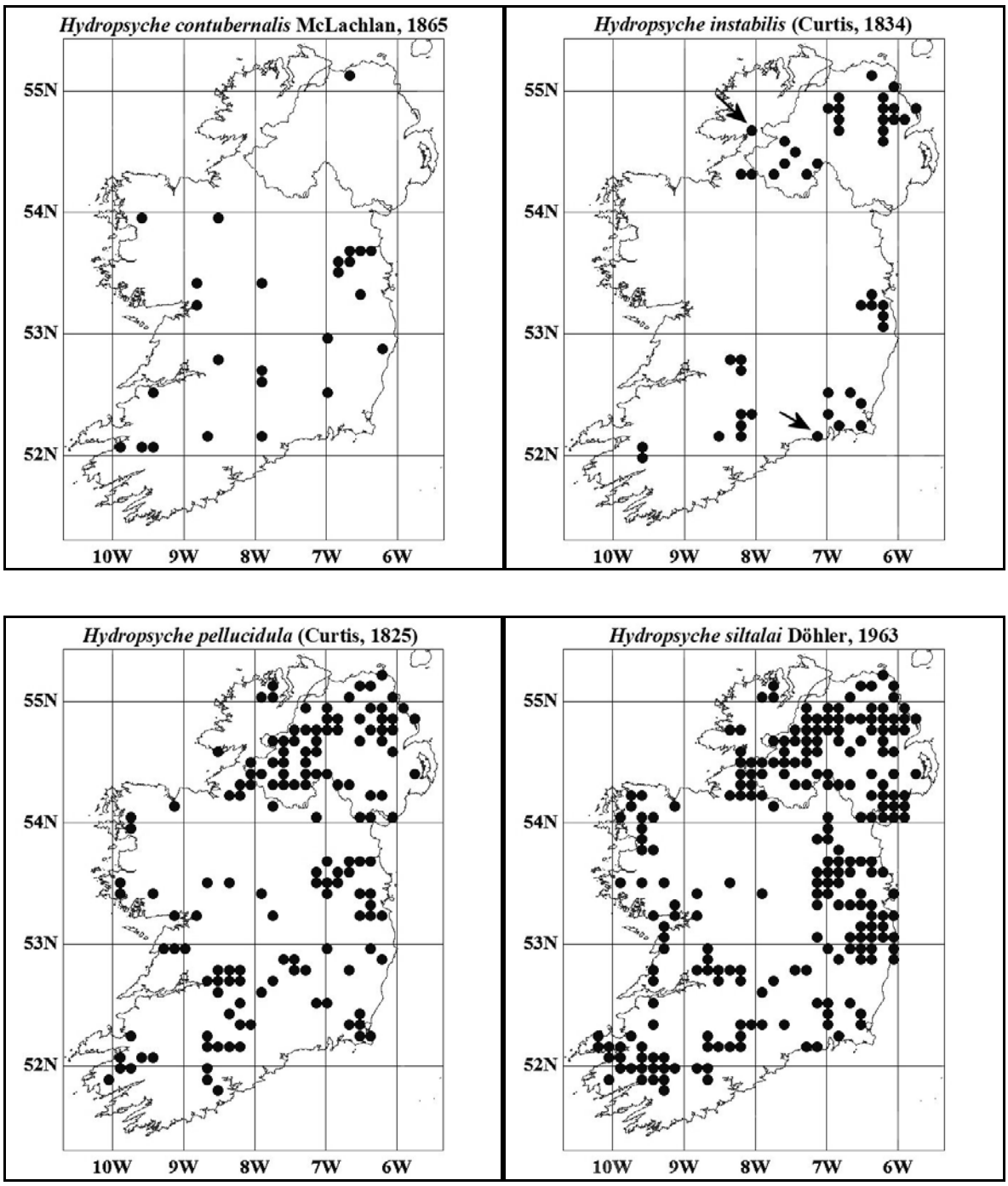
FIGURES 34-37. The known Irish distributions of *Holocentropus picicornis* (Stephens, 1836), *Neureclipsis bimaculata* (Linnaeus, 1758), *Plectrocnemia conspersa* (Curtis, 1834) and *Plectrocnemia geniculata* McLachlan, 1871. Significant records are indicated by arrows.



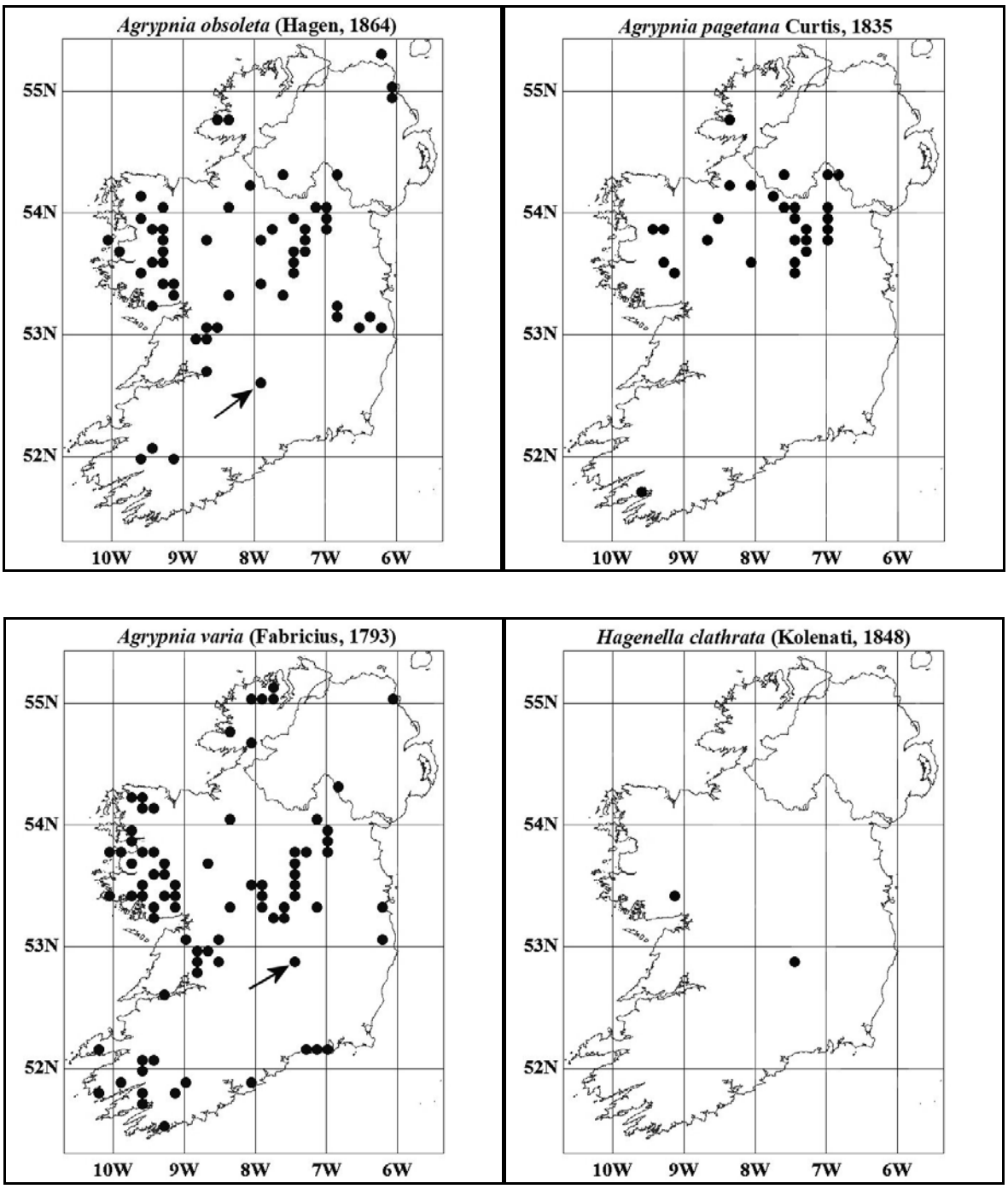
FIGURES 38-41. The known Irish distributions of *Polycentropus flavomaculatus* (Pictet, 1834), *Polycentropus irroratus* (Curtis, 1835), *Lype phaeopa* (Stephens, 1836) and *Lype reducta* (Hagen, 1868). Significant records are indicated by arrows.



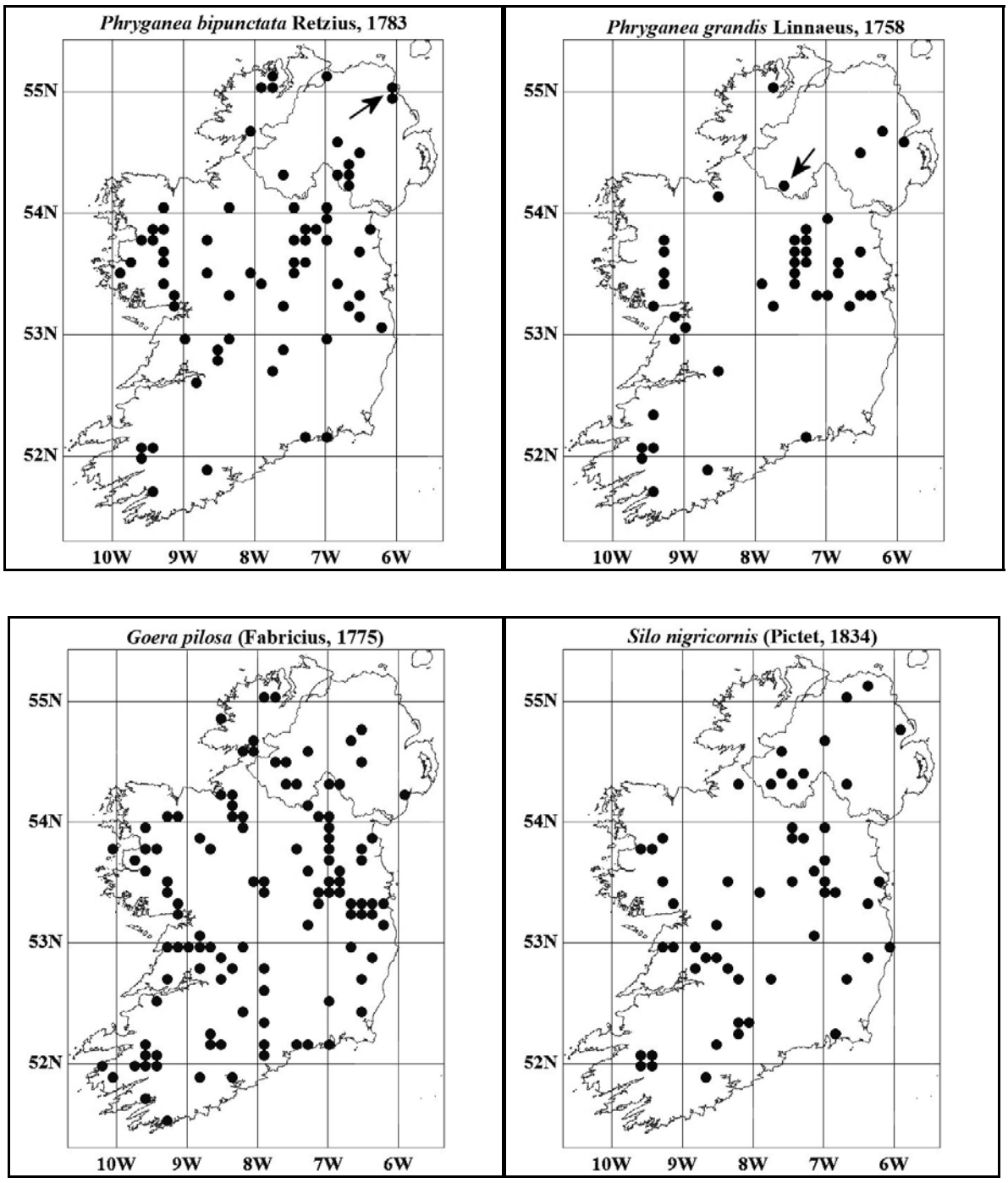
FIGURES 42-45. The known Irish distributions of *Psychomyia pusilla* (Pictet, 1834), *Tinodes waeneri* (Linnaeus, 1758), *Cheumatopsyche lepida* (Pictet, 1834) and *Diplectrona felix* McLachlan, 1878. Significant records are indicated by arrows.



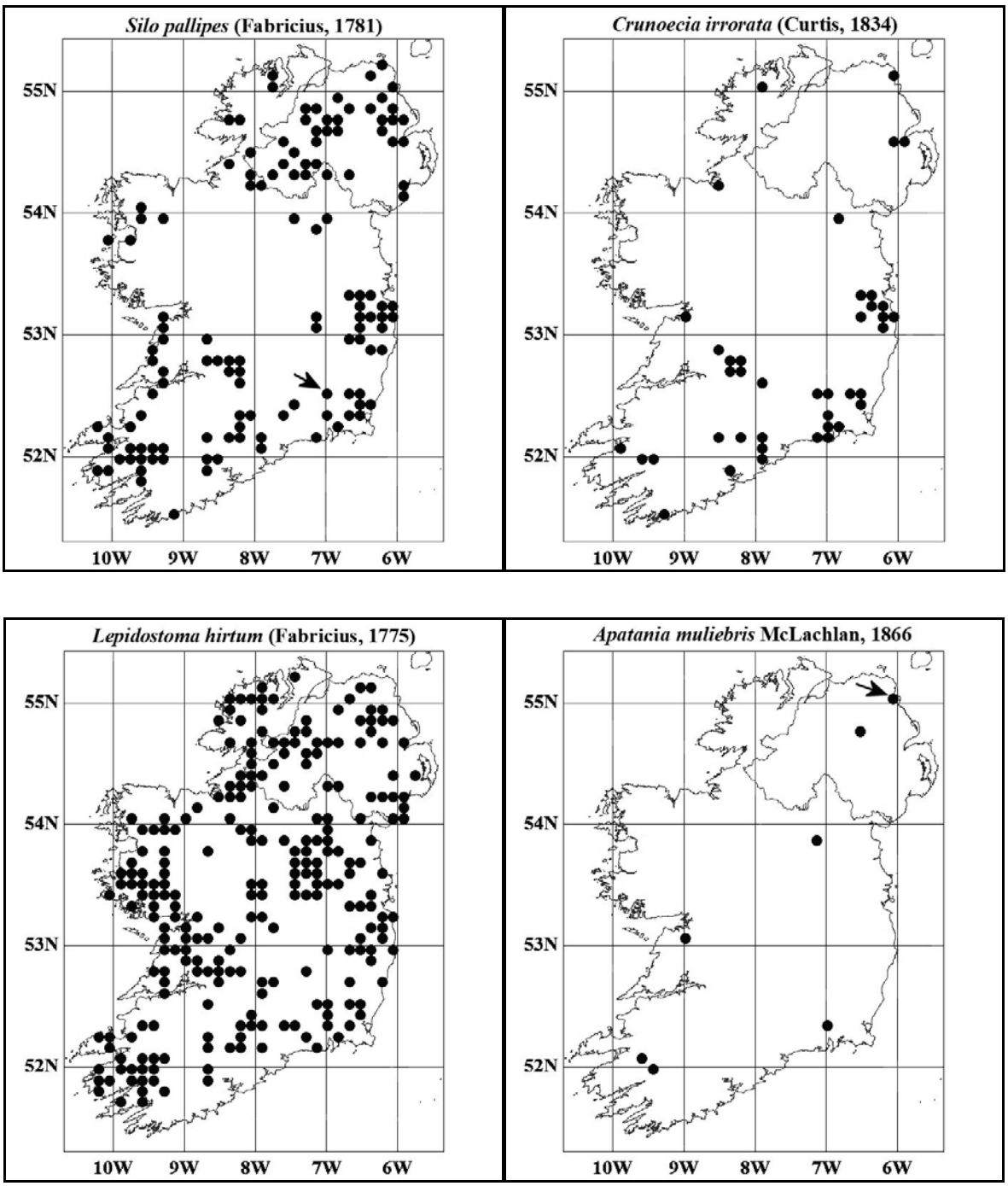
FIGURES 46-49. The known Irish distributions of *Hydropsyche contubernalis* McLachlan, 1865, *Hydropsyche instabilis* (Curtis, 1834), *Hydropsyche pellucidula* (Curtis, 1834) and *Hydropsyche siltalai* Döhler, 1963. Significant records are indicated by arrows.



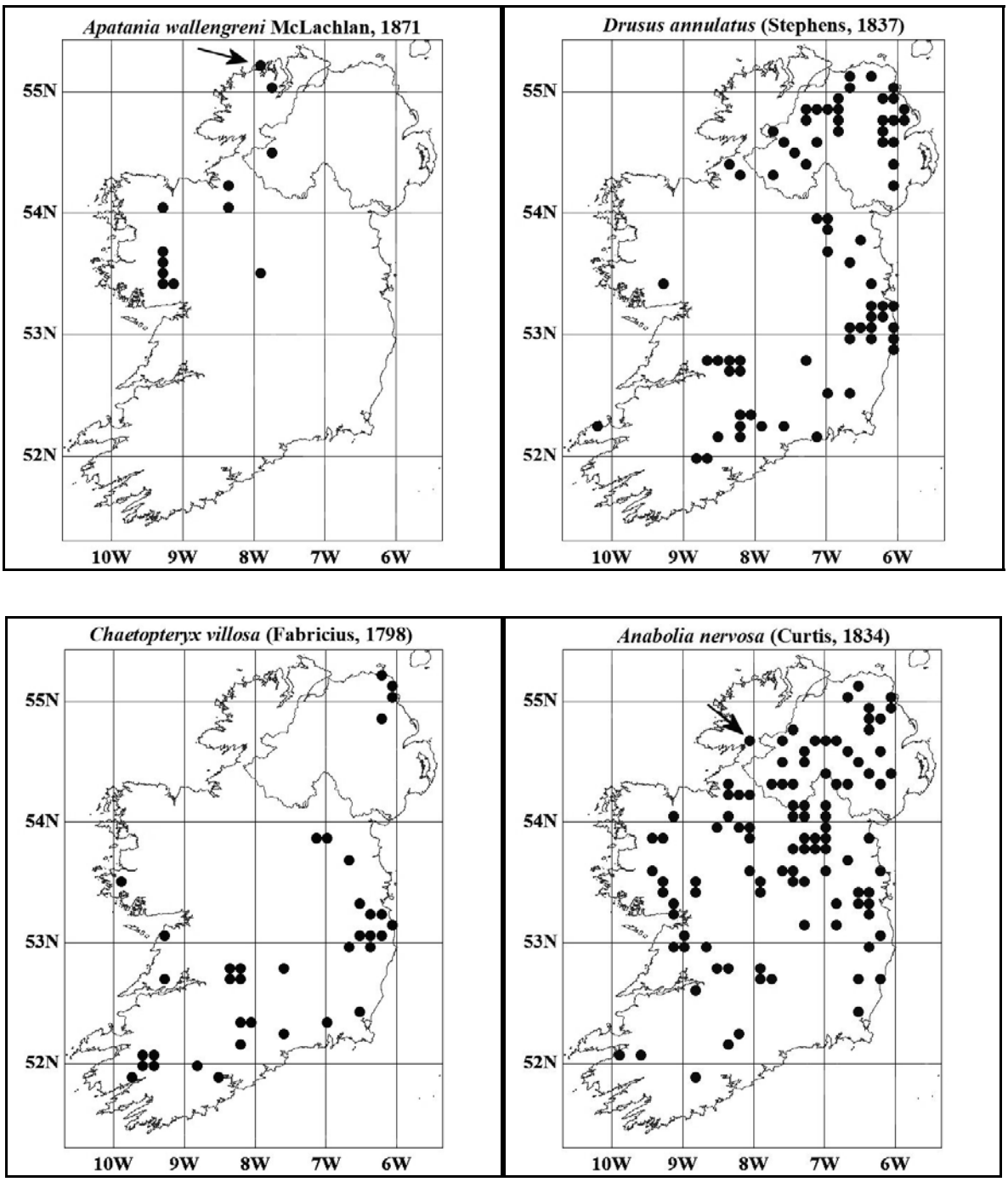
FIGURES 50-53. The known Irish distributions of *Agrypnia obsoleta* (Hagen, 1864), *Agrypnia pagetana* Curtis, 1835, *Agrypnia varia* (Fabricius, 1793) and *Hagenella clathrata* (Kolenati, 1848). Significant records are indicated by arrows.



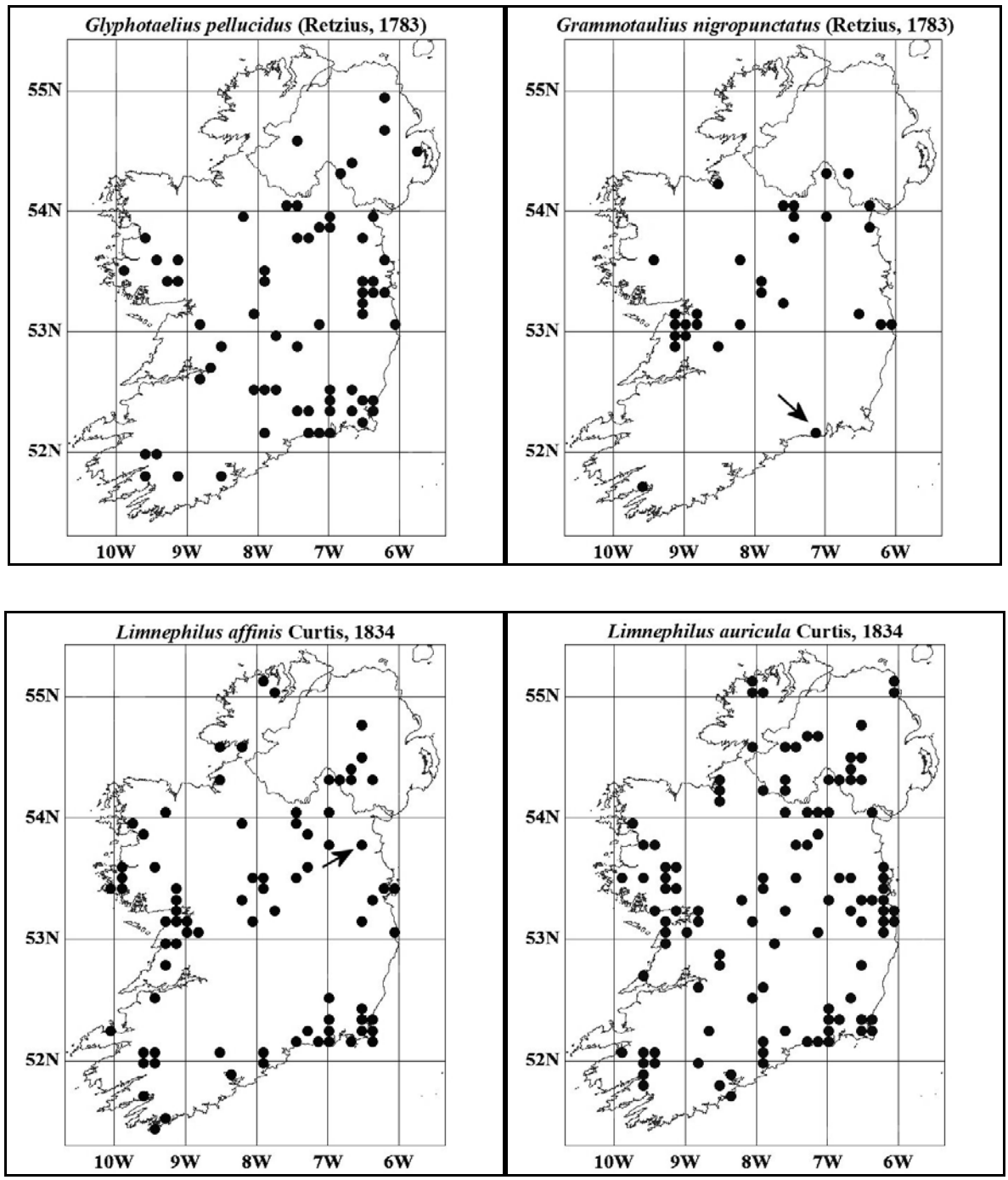
FIGURES 54-57. The known Irish distributions of *Phryganea bipunctata* Retzius, 1783, *Phryganea grandis* Linnaeus, 1758, *Goera pilosa* (Fabricius, 1775) and *Silo nigricornis* (Pictet, 1834). Significant records are indicated by arrows.



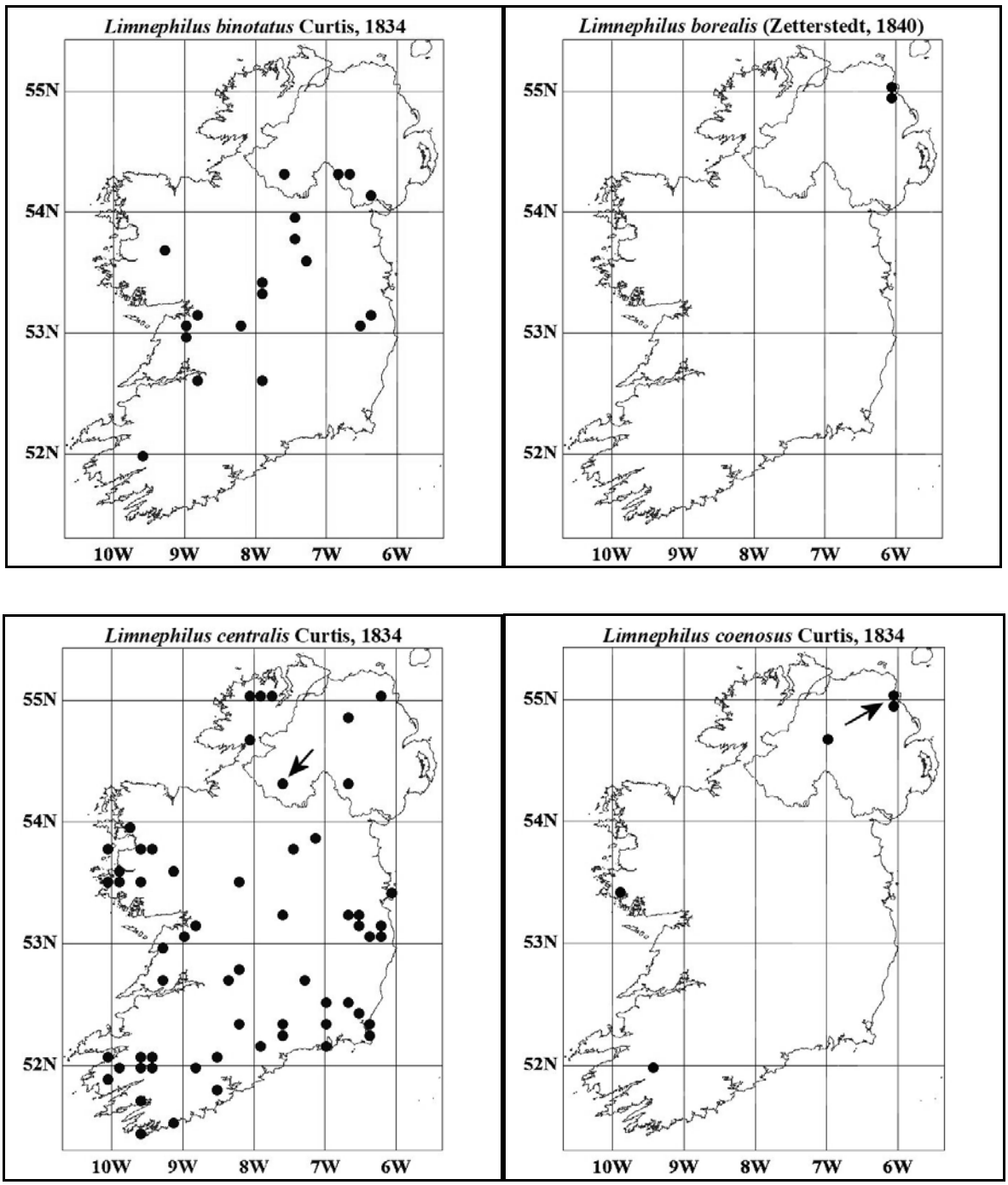
FIGURES 58-61. The known Irish distributions of *Silo pallipes* (Fabricius, 1781), *Cruenocia irrorata* (Curtis, 1834), *Lepidostoma hirtum* (Fabricius, 1775) and *Apatania muliebris* McLachlan, 1866. Significant records are indicated by arrows.



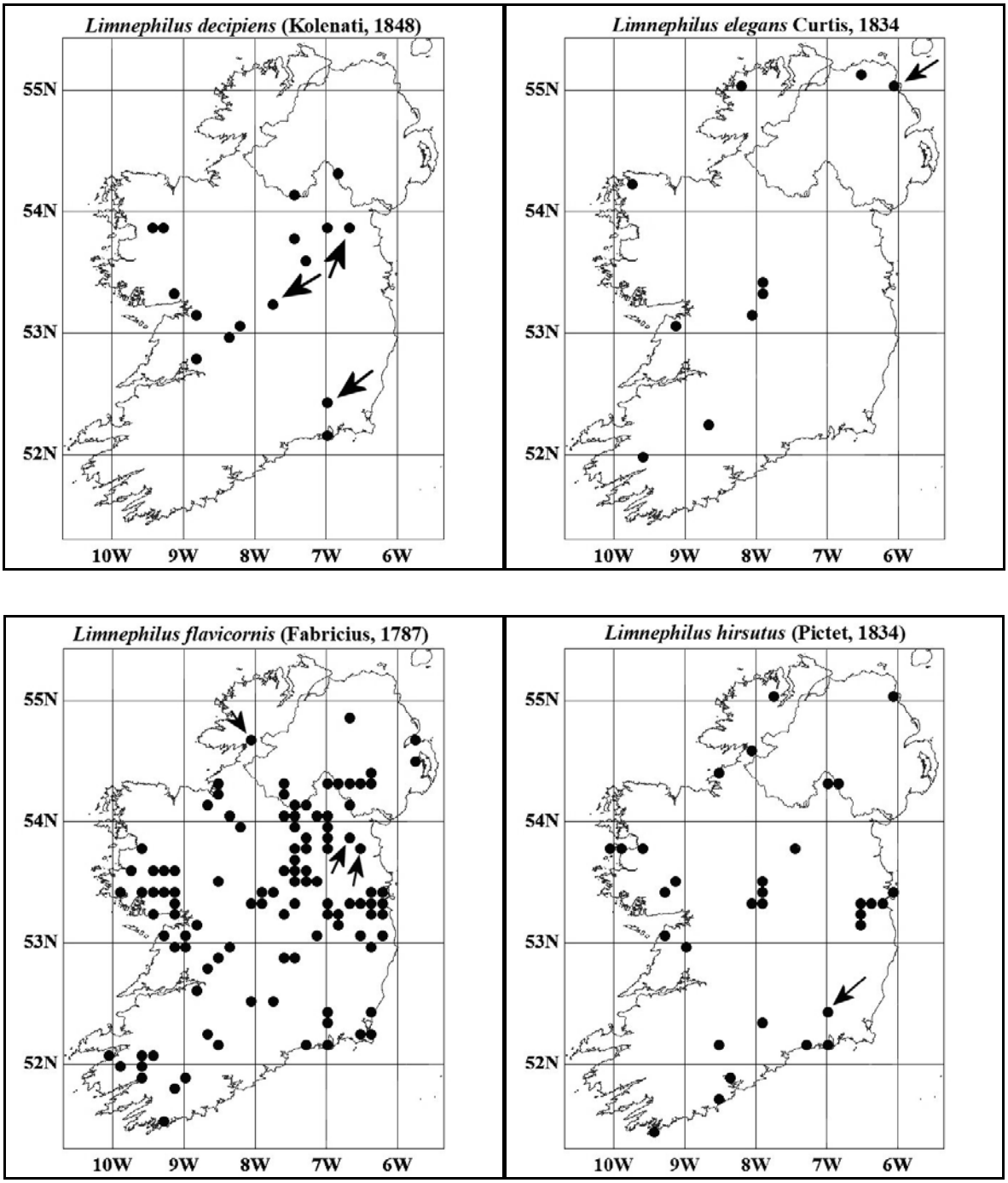
FIGURES 62-65. The known Irish distributions of *Apatania wallengreni* McLachlan, 1871, *Drusus annulatus* (Stephens, 1837), *Chaetopteryx villosa* (Fabricius, 1798) and *Anabolia nervosa* (Curtis, 1834). Significant records are indicated by arrows.



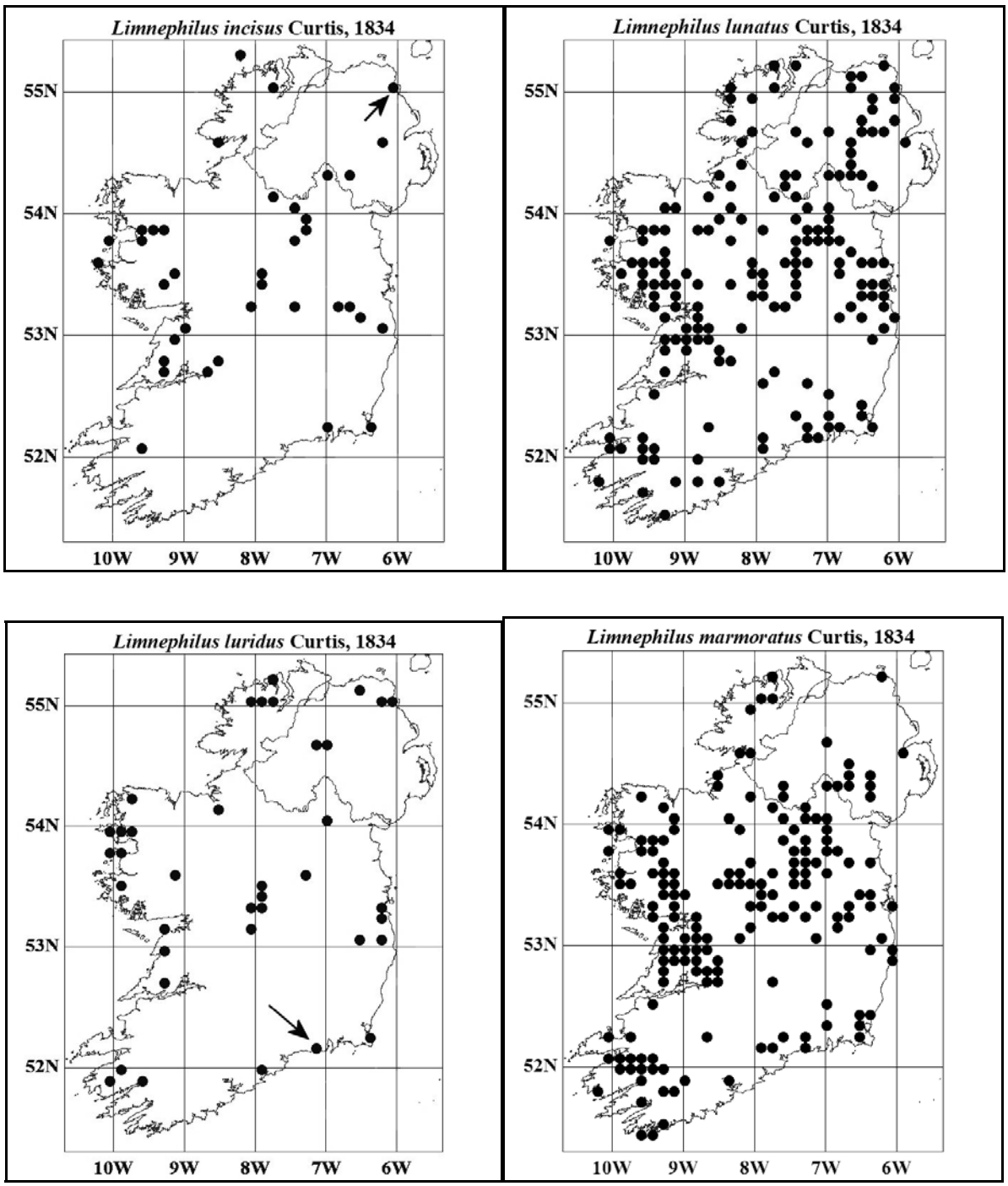
FIGURES 66-69. The known Irish distributions of *Glyphotaelius pellucidus* (Retzius, 1783), *Grammotaulius nigropunctatus* (Retzius, 1783), *Limnephilus affinis* Curtis, 1834 and *Limnephilus auricula* Curtis, 1834. Significant records are indicated by arrows.



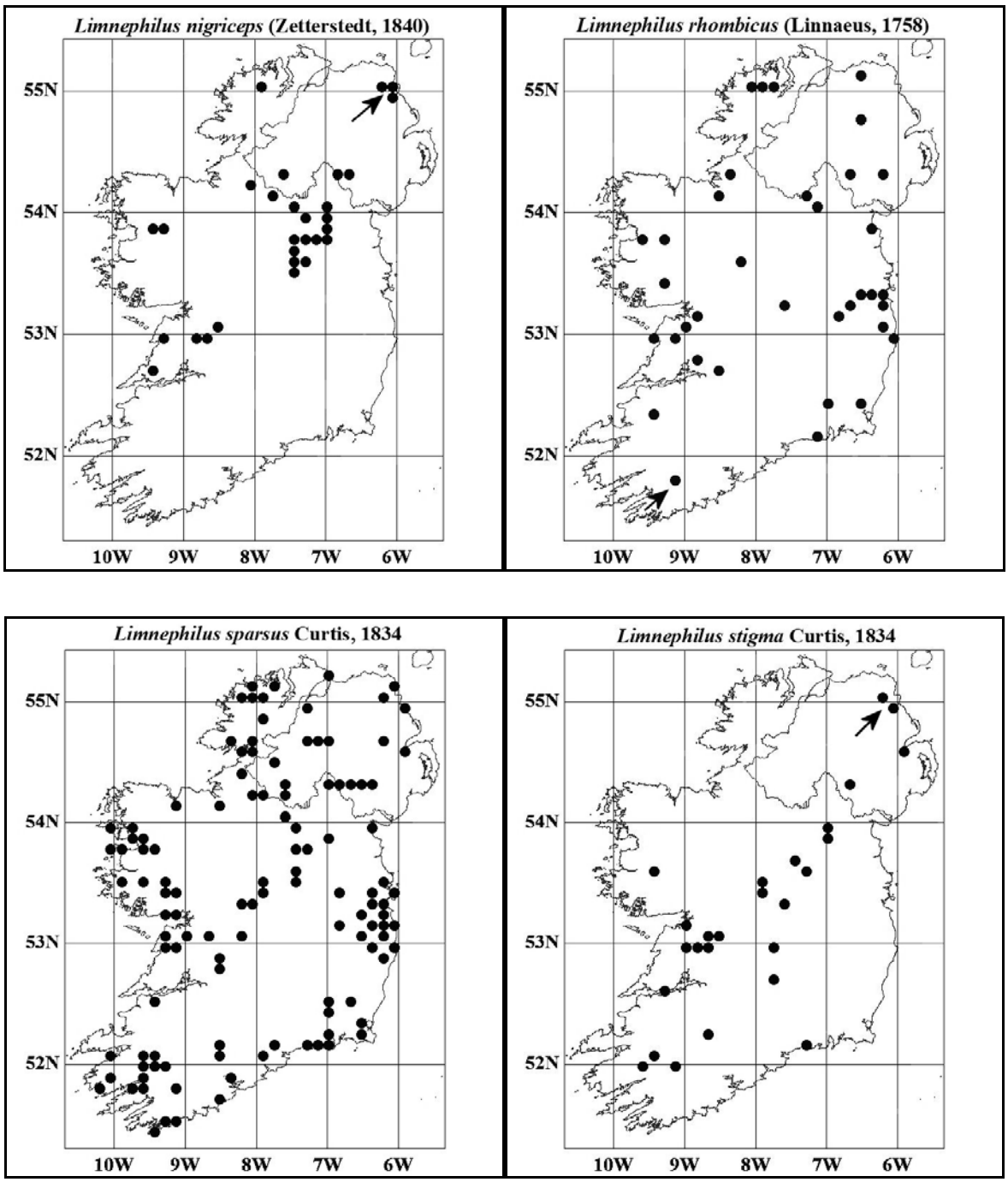
FIGURES 70-73. The known Irish distributions of *Limnephilus binotatus* Curtis, 1834, *Limnephilus borealis* (Zetterstedt, 1840), *Limnephilus centralis* Curtis, 1834 and *Limnephilus coenosus* Curtis, 1834. Significant records are indicated by arrows.



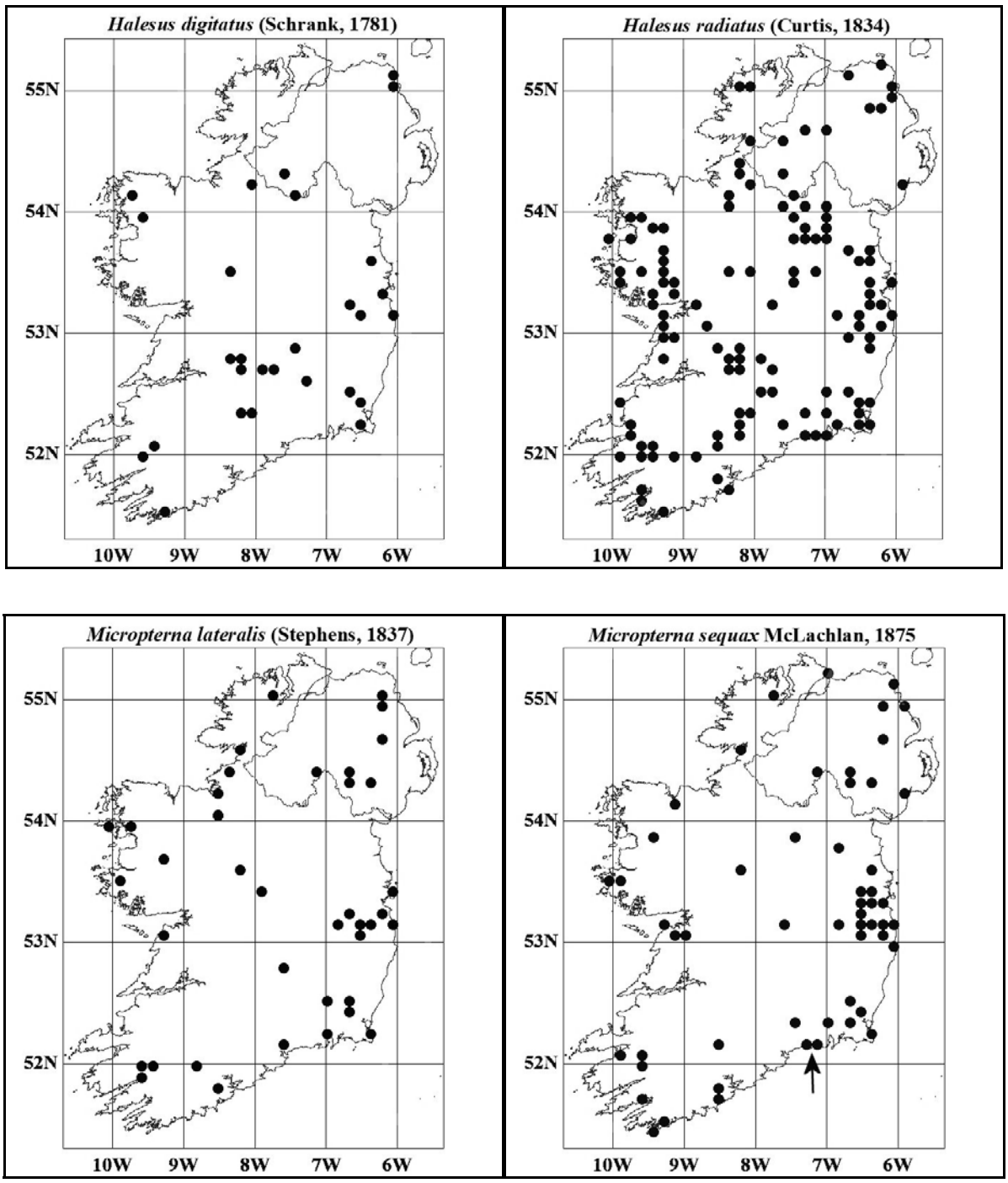
FIGURES 74-77. The known Irish distributions of *Limnephilus decipiens* (Kolenati, 1848), *Limnephilus elegans* Curtis, 1834, *Limnephilus flavicornis* (Fabricius, 1787) and *Limnephilus hirsutus* (Pictet, 1834). Significant records are indicated by arrows.



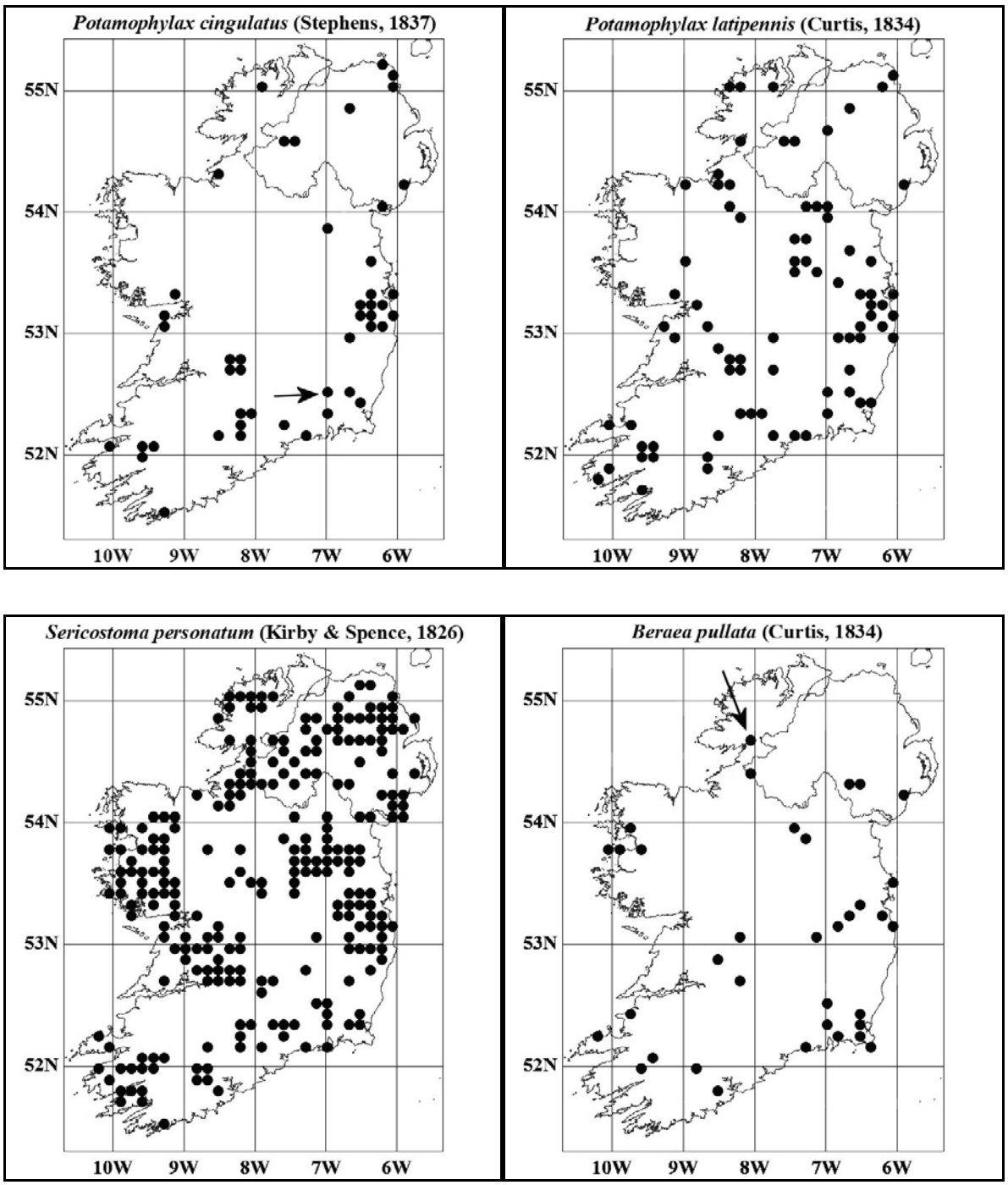
FIGURES 78-81. The known Irish distributions of *Limnephilus incisus* Curtis, 1834, *Limnephilus lunatus* Curtis, 1834, *Limnephilus luridus* Curtis, 1834 and *Limnephilus marmoratus* Curtis, 1834. Significant records are indicated by arrows.



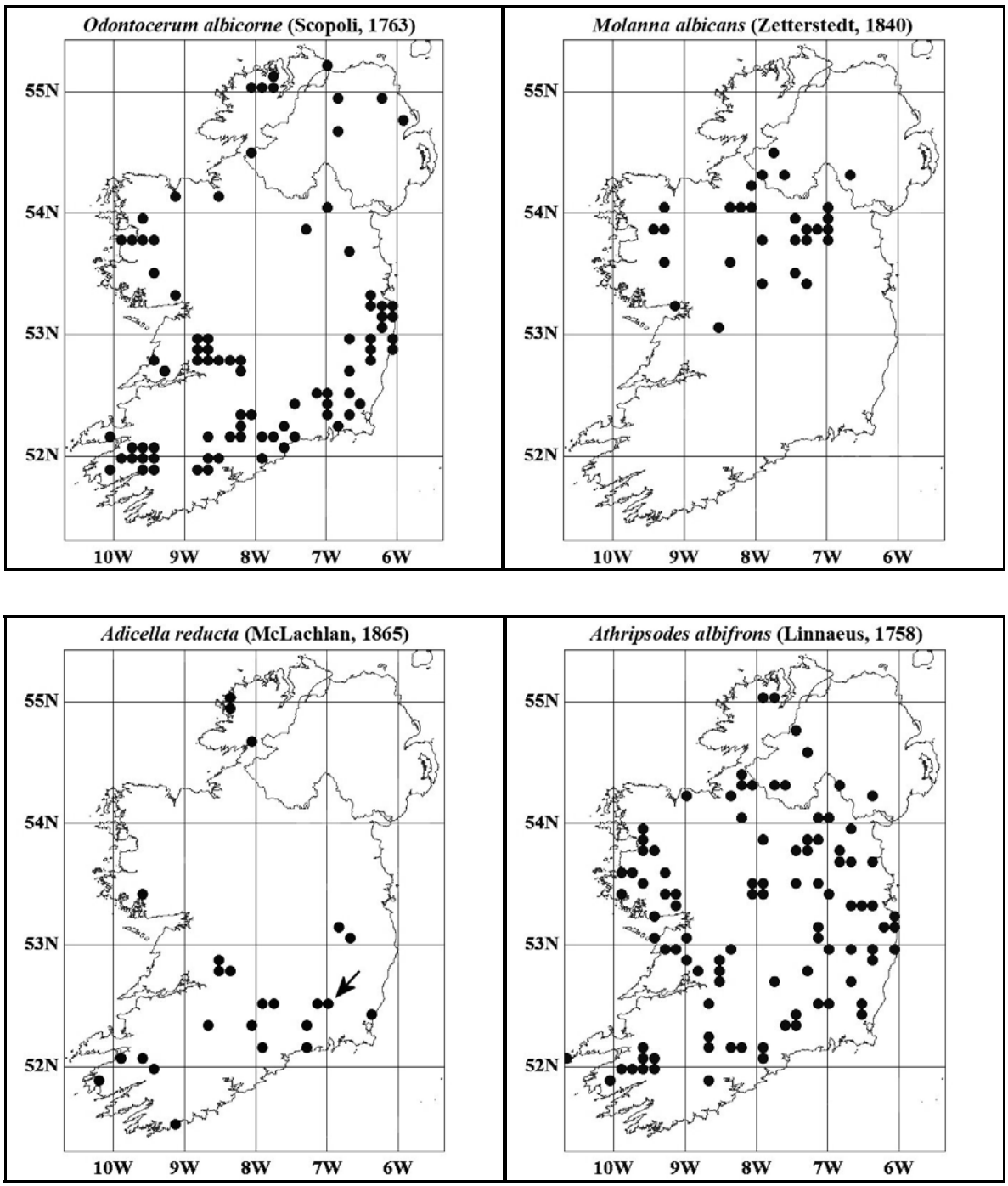
FIGURES 82-85. The known Irish distributions of *Limnephilus nigriceps* (Zetterstedt, 1840), *Limnephilus rhombicus* (Linnaeus, 1758), *Limnephilus sparsus* Curtis, 1834 and *Limnephilus stigma* Curtis, 1834. Significant records are indicated by arrows.



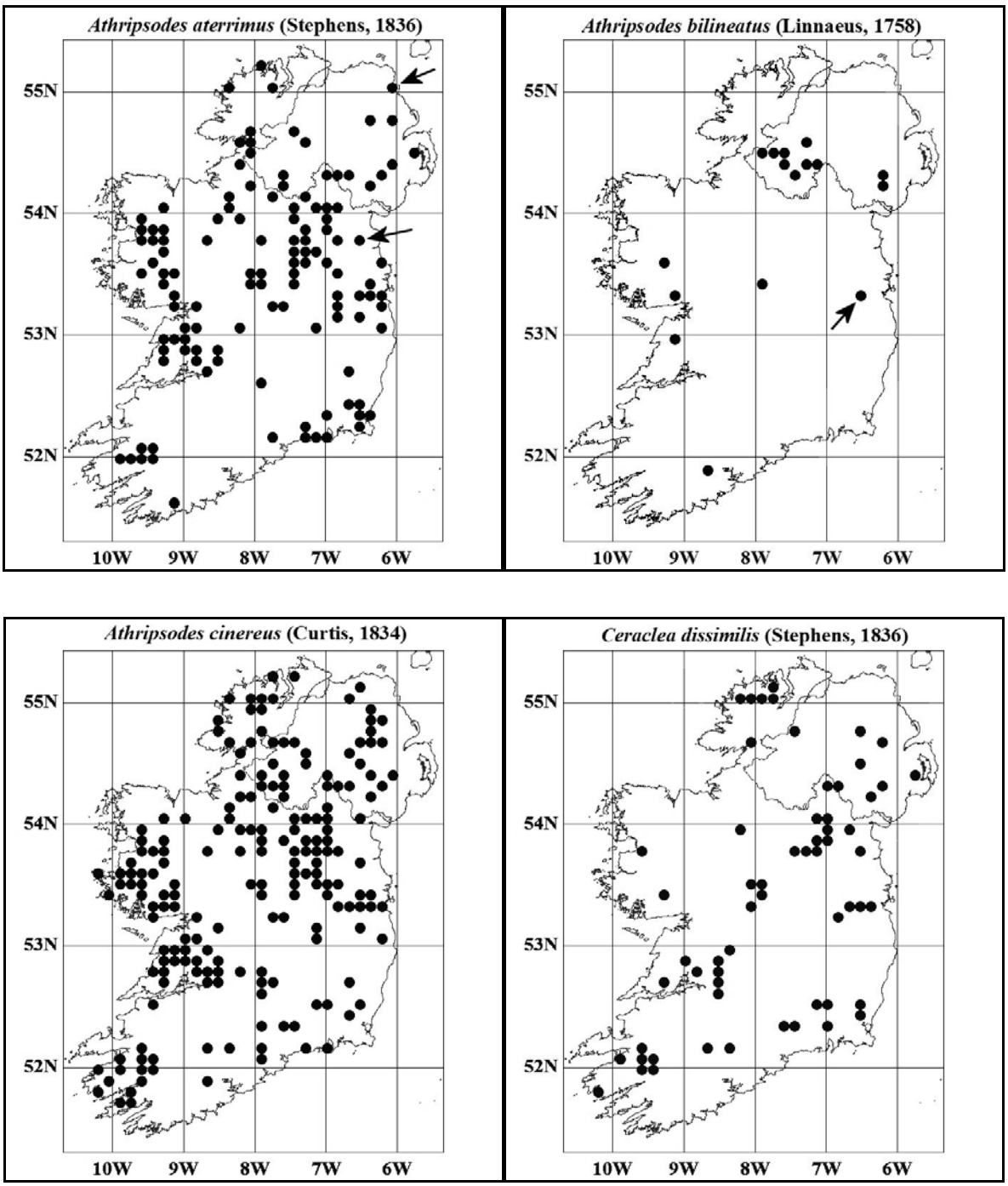
FIGURES 86-89. The known Irish distributions of *Halesus digitatus* (Schrank, 1781), *Halesus radiatus* (Curtis, 1834), *Micropterna lateralis* (Stephens, 1837) and *Micropterna sequax* McLachlan, 1875. Significant records are indicated by arrows.



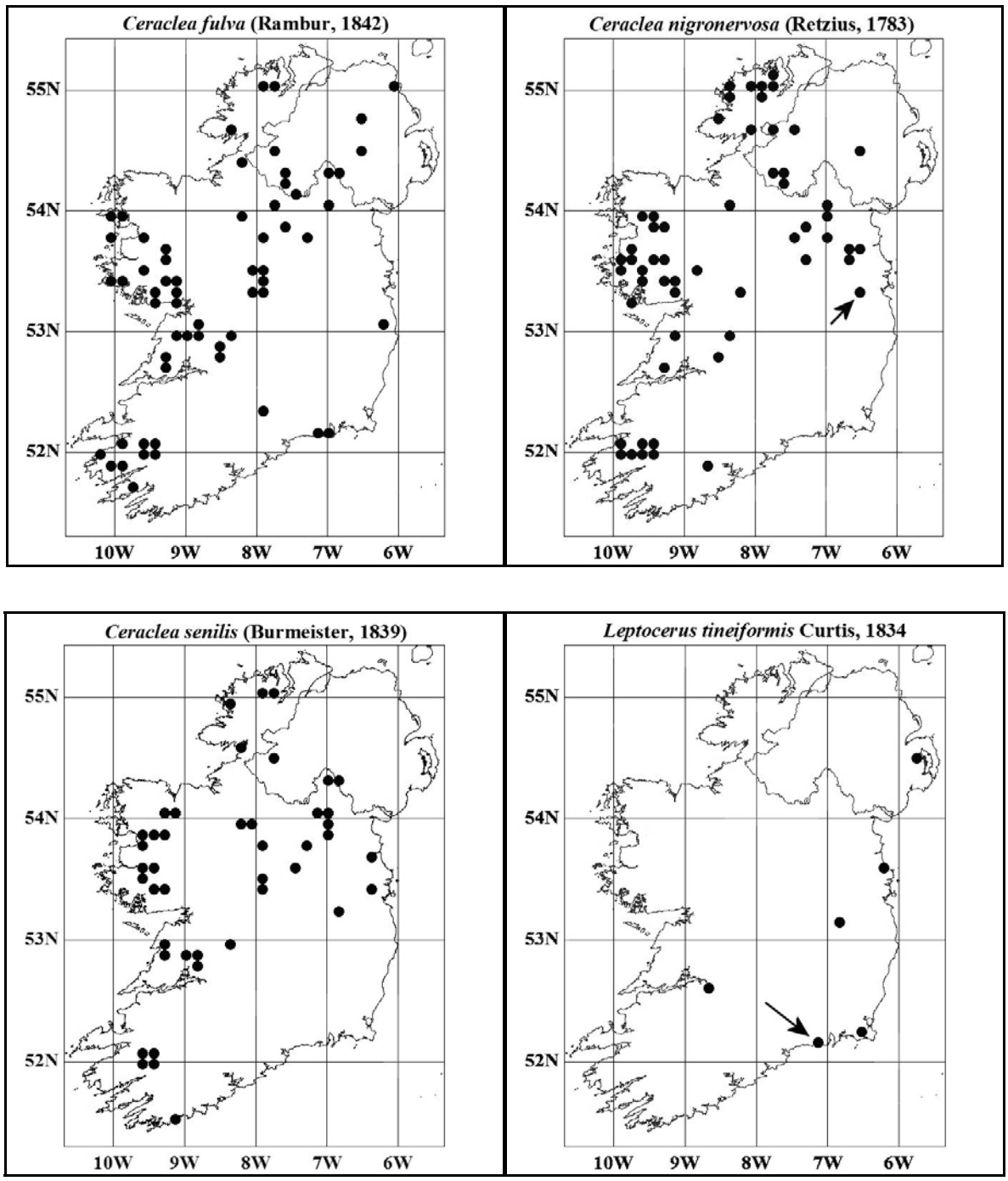
FIGURES 90-93. The known Irish distributions of *Potamophylax cingulatus* (Stephens, 1837), *Potamophylax latipennis* (Curtis, 1834), *Sericostoma personatum* (Kirby & Spence, 1826) and *Beraea pullata* (Curtis, 1834). Significant records are indicated by arrows.



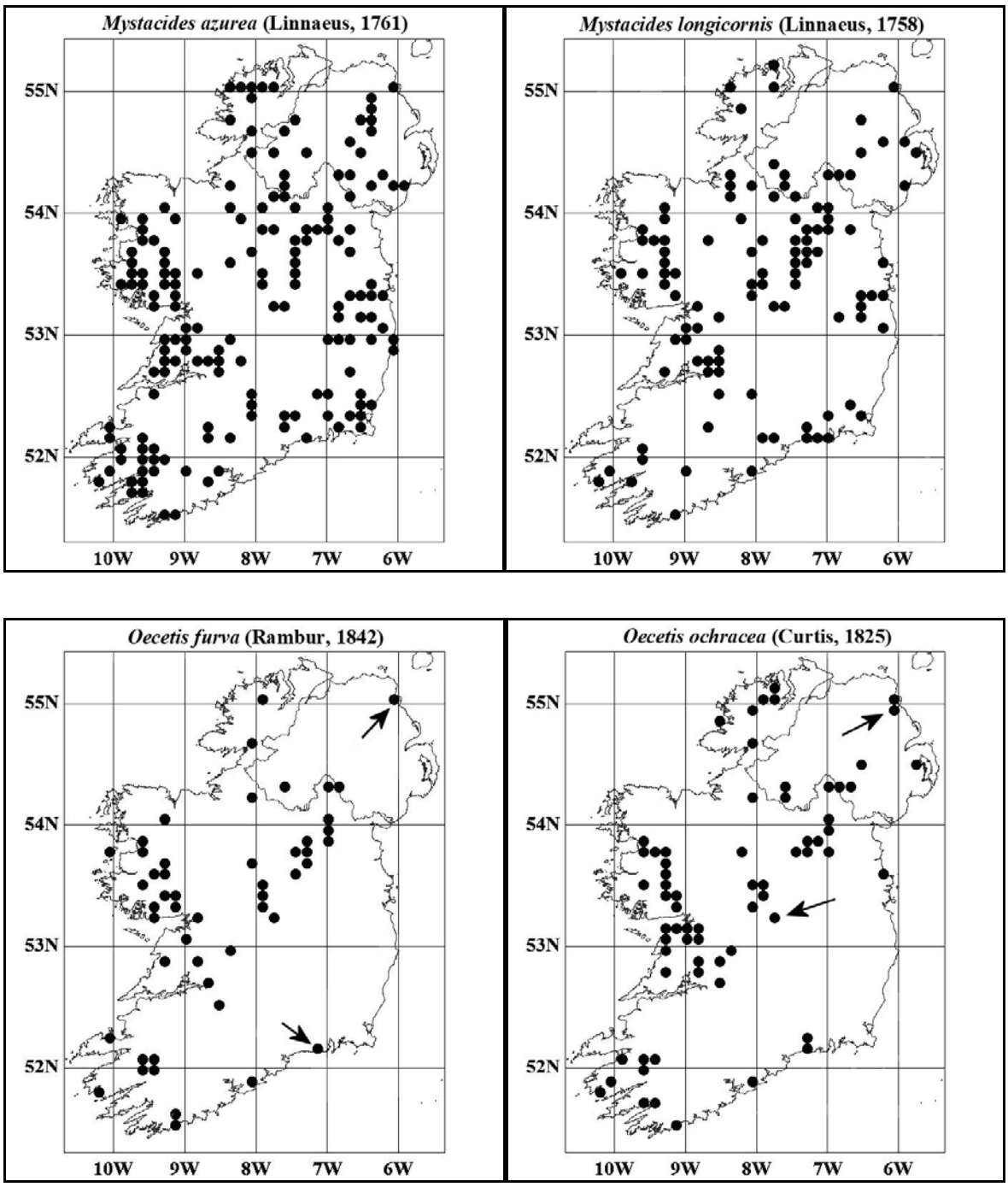
FIGURES 94-97. The known Irish distributions of *Odontocerum albicorne* (Scopoli, 1763), *Molanna albicans* (Zetterstedt, 1840), *Adicella reducta* (McLachlan, 1865) and *Athripsodes albifrons* (Linnaeus, 1758). Significant records are indicated by arrows.



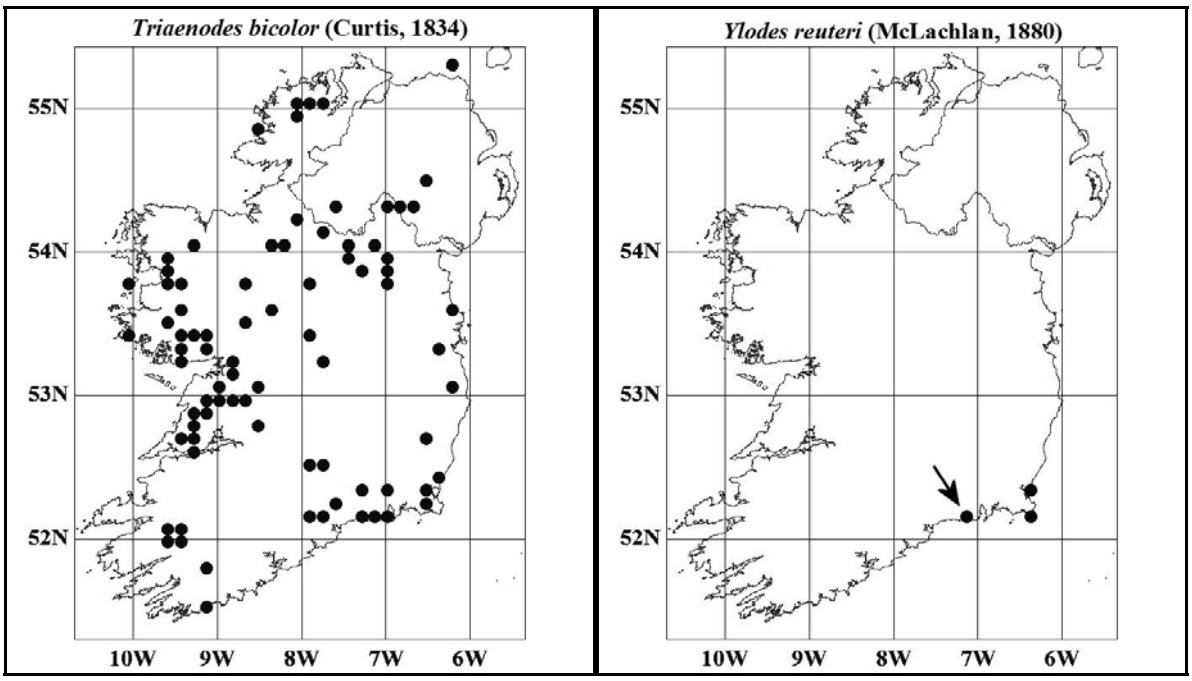
FIGURES 98-101. The known Irish distributions of *Athripsodes aterrimus* (Stephens, 1836), *Athripsodes bilineatus* (Linnaeus, 1758), *Athripsodes cinereus* (Curtis, 1834) and *Ceraclea dissimilis* (Stephens, 1836). Significant records are indicated by arrows.



FIGURES 102-105. The known Irish distributions of *Ceraclea fulva* (Rambur, 1842), *Ceraclea nigronervosa* (Retzius, 1783), *Ceraclea senilis* (Burmeister, 1839) and *Leptocerus tineiformis* Curtis, 1834. Significant records are indicated by arrows.



FIGURES 106-109. The known Irish distributions of *Mystacides azurea* (Linnaeus, 1761), *Mystacides longicornis* (Linnaeus, 1758), *Oecetis furva* (Rambur, 1842) and *Oecetis ochracea* (Curtis, 1825). Significant records are indicated by arrows.



FIGURES 110-111. The known Irish distributions of *Triaenodes bicolor* (Curtis, 1834) and *Ylodes reuteri* (McLachlan, 1880). Significant records are indicated by arrows.

PLATE 1. The live adult of *Hagenella clathrata* at Abbeyleix Bog, County Laois. Photograph © Tina Claffey.

PLATE 2. *Hagenella clathrata*. A live adult from Ower, County Galway. Photograph © Caitriona Carlin.

PLATES 3-4. Top: Corstown Lough, County Meath where *Limnephilus decipiens* was collected. Bottom: Lough Brackan, County Meath where *Hydroptila pulchricornis* was collected. Photographs © M. A. O'Connor.

PLATE 5. The Glen Pond, Phoenix Park, County Dublin where *Orthotrichia costalis* was collected. Photograph © J. P. O'Connor.

PLATE 6. Lough Boora, County Offaly where *Oecetis ochracea* was collected. Photograph © M. A. O'Connor. The lake is surrounded by bog-land.

PLATE 7. The Maudlins Stream, New Ross, County Wexford where *Limnephilus hirsutus* was light-trapped. This small stream has extensive marshland alongside its course. Photograph © M. A. O'Connor.

PLATE 8. *Limnephilus elegans*, ♂, 22 May 2018, Lough na Trosk (D2719), County Antrim. Photograph © Cathal McNaughton.

APPENDIX 1. A revised list of county records for the Irish caddisflies (Trichoptera). The counties are shown (Figure 112).

RHYACOPHILIDAE

***Rhyacophila dorsalis* (Curtis, 1834)**

Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Monaghan, Offaly, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (30/32).

***Rhyacophila munda* McLachlan, 1862**

Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Limerick, Mayo, Meath, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (24/32)

GLOSSOSOMATIDAE

***Agapetus delicatulus* McLachlan, 1884**

Clare, Cork, Donegal, Dublin, Kerry, Kildare, Kilkenny, Laois, Limerick, Meath, Roscommon, Tipperary, Waterford, Wexford, Wicklow (15/32).

***Agapetus fuscipes* Curtis, 1834**

Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (28/32).

***Agapetus ochripes* Curtis, 1834**

Antrim, Carlow, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Offaly, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (25/32).

***Glossosoma boltoni* Curtis, 1834**

Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Galway, Kerry, Kildare, Kilkenny, Leitrim, Mayo, Meath, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wickow (22/32).

***Glossosoma conformis* Neboiss, 1963**

Antrim, Clare, Cork, Leitrim, Mayo, Tipperary, Waterford, Wicklow (8/32).

HYDROPTILIDAE

***Agraylea multipunctata* Curtis, 1834**

Antrim, Armagh, Carlow, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Longford, Mayo, Meath, Monaghan, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (24/32).

***Agraylea sexmaculata* Curtis, 1834**
Down, Fermanagh, Limerick, Roscommon, Tipperary, Waterford, Wexford (7/32).
***Allotrichia pallicornis* (Eaton, 1873)**
Antrim, Carlow, Derry, Dublin, Fermanagh, Galway, Kildare, Kilkenny, Leitrim, Limerick, Meath, Tipperary, Tyrone, Waterford, Westmeath, Wicklow (16/32).
***Hydroptila angulata* Mosely, 1922**
Armagh, Carlow, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Mayo, Roscommon, Waterford, Wexford, Wicklow (14/32).
***Hydroptila cornuta* Mosley, 1922**
Carlow, Cavan, Clare, Fermanagh, Kerry, Kilkenny, Roscommon, Tipperary, Westmeath, Wexford, Wicklow (11/32).
***Hydroptila forcipata* (Eaton, 1873)**
Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Leitrim, Limerick, Mayo, Meath, Monaghan, Offaly, Roscommon, Tipperary, Waterford, Westmeath, Wexford, Wicklow (24/32).
***Hydroptila martini* Marshall, 1977**
Cavan, Cork, Donegal, Kerry, Kildare, Laois, Tipperary, Westmeath, Wexford (9/32).
***Hydroptila occulta* (Eaton, 1873)**
Cavan, Kerry, Tipperary (3/32).
***Hydroptila pulchricornis* Pictet, 1834**
Cavan, Clare, Fermanagh, Galway, Kerry, Longford, Meath, Westmeath, Wexford (9/32).
***Hydroptila simulans* Mosely, 1920**
Antrim, Carlow, Dublin, Galway, Kerry, Kilkenny, Limerick, Mayo, Meath, Tipperary, Waterford (11/32).
***Hydroptila sparsa* Curtis, 1834**
Armagh, Carlow, Cavan, Clare, Cork, Dublin, Fermanagh, Kerry, Kildare, Kilkenny, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford (23/32).
***Hydroptila tigurina* Ris, 1894**
Kerry (1/32).
***Hydroptila tineoides* Dalman, 1819**
Armagh, Cavan, Clare, Cork, Derry, Donegal, Fermanagh, Galway, Kerry, Leitrim, Limerick, Mayo, Meath, Monaghan, Roscommon, Westmeath, Wicklow (17/32).
***Hydroptila valesiaca* Schmid, 1947**
Kerry, Kildare (2/32).

***Ithytrichia clavata* Morton, 1905**
Kerry (1/32).
***Ithytrichia lamellaris* Eaton, 1873**
Carlow, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Limerick, Meath, Monaghan, Tipperary, Wexford, Wicklow (18/32).
***Orthotrichia angustella* (McLachlan, 1865)**
Clare, Kerry, Limerick, Meath, Waterford, Westmeath (6/32).
***Orthotrichia costalis* (Curtis, 1834)**
Clare, Dublin, Kerry, Tipperary, Waterford (5/32).
***Oxyethira falcata* Morton, 1893**
Cavan, Clare, Donegal, Galway, Kerry, Kildare, Mayo, Offaly, Tipperary, Westmeath, Wicklow (11/32).
***Oxyethira flavicornis* (Pictet, 1834)**
Antrim, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Waterford, Westmeath, Wexford, Wicklow (19/32).
***Oxyethira frici* Klapálek, 1891**
Cavan, Clare, Donegal, Galway, Kerry, Mayo, Tipperary, Westmeath, Wicklow (9/32).
***Oxyethira sagittifera* Ris, 1897**
Donegal, Galway, Kerry, Mayo (4/32).
***Oxyethira simplex* Ris, 1897**
Galway, Kerry, Kildare, Leitrim, Westmeath, Wicklow (6/32).
***Oxyethira tristella* Klapálek, 1895**
Galway, Kerry (2/32).
***Tricholeiochiton fagesii* (Guinard, 1879)**
Galway, Kerry, Offaly, Westmeath (4/32).

PHILOPOTAMIDAE

***Chimarra marginata* (Linnaeus, 1761)**
Armagh, Carlow, Clare, Cork, Donegal, Dublin, Galway, Kerry, Kildare, Kilkenny, Limerick, Mayo, Meath, Sligo, Waterford, Wexford (16/32).
***Philopotamus montanus* (Donovan, 1813)**
Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kilkenny, Mayo, Monaghan, Tipperary, Tyrone, Waterford, Wexford, Wicklow (20/32).
***Wormaldia mediana* McLachlan, 1878**
Cork, Kerry, Wicklow (3/32).

***Wormaldia occipitalis* (Pictet, 1834)**
Carlow, Cavan, Clare, Cork, Donegal, Down, Dublin, Kerry, Kildare, Kilkenny, Mayo, Sligo, Tipperary, Waterford, Wexford, Wicklow (16/32).
***Wormaldia subnigra* McLachlan, 1865**
Cavan, Clare, Dublin, Galway, Kerry, Mayo, Waterford, Westmeath, Wexford, Wicklow (10/32).

ECNOMIDAE

***Ecnomus tenellus* (Rambur, 1842)**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Fermanagh, Galway, Kerry, Kildare, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Waterford, Westmeath, Wexford (21/32).

POLYCENTROPODIDAE

***Cyrnus flavidus* McLachlan, 1864**
Antrim, Armagh, Cavan, Clare, Donegal, Fermanagh, Galway, Kerry, Leitrim, Mayo, Meath, Offaly, Roscommon, Sligo, Tipperary, Westmeath (16/32).
***Cyrnus insolutus* McLachlan, 1878**
Clare, Waterford (2/32).
***Cyrnus trimaculatus* (Curtis, 1834)**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Limerick, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Westmeath, Wexford, Wicklow (26/32).
***Holocentropus dubius* (Rambur, 1842)**
Clare, Cork, Donegal, Fermanagh, Galway, Kerry, Kildare, Limerick, Mayo, Monaghan, Offaly, Roscommon, Tipperary, Waterford, Westmeath, Wicklow (16/32).
***Holocentropus picicornis* (Stephens, 1836)**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Longford, Mayo, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (23/32).
***Neureclipsis bimaculata* (Linnaeus, 1758)**
Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Tipperary, Westmeath, Wicklow (20/32).

***Plectrocnemia conspersa* (Curtis, 1834)**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Mayo, Meath, Monaghan, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (24/32).
***Plectrocnemia geniculata* McLachlan, 1871**
Antrim, Armagh, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Mayo, Meath, Monaghan, Sligo, Tipperary, Westmeath, Wexford, Wicklow (18/32).
***Polycentropus flavomaculatus* (Pictet, 1834)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Longford, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (32/32).
***Polycentropus irroratus* (Curtis, 1835)**
Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Mayo, Meath, Monaghan, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wicklow (23/32).
***Polycentropus kingi* McLachlan, 1881**
Antrim, Cavan, Clare, Cork, Donegal, Down, Dublin, Galway, Kerry, Laois, Mayo, Meath, Monaghan, Roscommon, Sligo, Westmeath, Wexford, Wicklow (18/32).

PSYCHOMYIIDAE

***Lype phaeopa* (Stephens, 1836)**
Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Leitrim, Longford, Mayo, Meath, Monaghan, Roscommon, Sligo, Waterford, Westmeath, Wexford, Wicklow (20/32).
***Lype reducta* (Hagen, 1868)**
Cork, Donegal, Kerry, Monaghan, Tipperary, Wexford (6/32).
***Psychomyia fragilis* (Pictet, 1834)**
Cavan, Clare, Cork, Galway, Kerry, Mayo, Meath, Roscommon, Sligo, Tyrone, Westmeath (11/32).
***Psychomyia pusilla* (Fabricius, 1781)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Mayo, Meath, Monaghan, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (29/32).
***Tinodes dives* (Pictet 1834)**
Sligo (1/32).

***Tinodes maclachlani* Kimmins, 1966**
Carlow, Cavan, Clare, Cork, Donegal, Down, Dublin, Galway, Kerry, Mayo, Monaghan, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (17/32).
***Tinodes maculicornis* (Pictet 1834)**
Carlow, Cavan, Clare, Galway, Kilkenny, Limerick, Mayo, Meath, Monaghan, Roscommon, Tipperary, Westmeath, Wexford (13/32).
***Tinodes unicolor* (Pictet 1834)**
Clare, Donegal, Wicklow (3/32).
***Tinodes waeneri* (Linnaeus, 1758)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (30/32).

HYDROPSYCHIDAE

***Cheumatopsyche lepida* (Pictet, 1834)**
Carlow, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Limerick, Mayo, Meath, Monaghan, Roscommon, Tipperary, Tyrone, Waterford, Westmeath, Wexford (21/32).
***Diplectrona felix* McLachlan, 1878**
Antrim, Clare, Cork, Donegal, Down, Dublin, Galway, Kerry, Kilkenny, Mayo, Meath, Tipperary, Waterford, Wexford, Wicklow (15/32).
***Hydropsyche angustipennis* (Curtis, 1834)**
Antrim, Armagh, Cavan, Cork, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Mayo, Meath, Offaly, Tipperary, Tyrone, Waterford, Westmeath, Wexford (19/32).
***Hydropsyche contubernalis* McLachlan, 1865**
Carlow, Clare, Cork, Derry, Dublin, Galway, Kerry, Kildare, Mayo, Meath, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wicklow (16/32).
***Hydropsyche instabilis* (Curtis, 1834)**
Antrim, Carlow, Cork, Derry, Donegal, Dublin, Fermanagh, Kerry, Leitrim, Tipperary, Tyrone, Waterford, Wexford, Wicklow (14/32).
***Hydropsyche pellucidula* (Curtis, 1834)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Offaly, Roscommon, Tipperary, Tyrone, Westmeath, Wexford, Wicklow (28/32).

***Hydropsyche siltalai* Döhler, 1963**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Monaghan, Offaly, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (29/32).

PHRYGANEIDAE

***Agrypnia obsoleta* (Hagen, 1864)**
Antrim, Cavan, Clare, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Westmeath, Wicklow (21/32).

***Agrypnia pagetana* Curtis, 1835**
Cavan, Cork, Donegal, Fermanagh, Galway, Leitrim, Mayo, Monaghan, Roscommon, Sligo, Westmeath (11/32).

***Agrypnia varia* (Fabricius, 1793)**
Antrim, Cavan, Clare, Cork, Donegal, Dublin, Galway, Kerry, Laois, Mayo, Monaghan, Offaly, Roscommon, Sligo, Waterford, Westmeath, Wicklow (17/32).

***Hagenella clathrata* (Kolenati, 1848)**
Galway, Laois (2/32).

***Oligotricha striata* (Linnaeus, 1758)**
Cavan, Roscommon, Westmeath (3/32).

***Phryganea bipunctata* Retzius, 1783**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Limerick, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wicklow (26/32).

***Phryganea grandis* Linnaeus, 1758**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Limerick, Mayo, Meath, Offaly, Sligo, Tipperary, Waterford, Westmeath, Wicklow (20/32).

***Trichostegia minor* (Curtis, 1834)**
Cork and Westmeath (2/32).

GOERIDAE

***Goera pilosa* (Fabricius, 1775)**
Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (29/32).

***Silo nigricornis* (Pictet, 1834)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Dublin, Fermanagh, Galway, Kerry, Laois, Leitrim, Mayo, Meath, Tipperary, Tyrone, Westmeath, Wexford, Wicklow (20/32).
***Silo pallipes* (Fabricius, 1781)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Kerry, Kildare, Kilkenny, Laois, Mayo, Monaghan, Sligo, Tipperary, Tyrone, Waterford, Wexford, Wicklow (23/32).

LEPIDOSTOMATIDAE

***Crunoecia irrorata* (Curtis, 1834)**
Antrim, Carlow, Cavan, Clare, Cork, Donegal, Dublin, Galway, Kerry, Kildare, Kilkenny, Sligo, Tipperary, Waterford, Wexford, Wicklow (16/32).
***Lepidostoma basale* (Kolenati, 1848)**
Cavan, Donegal, Fermanagh, Galway, Kerry (5/32).
***Lepidostoma hirtum* (Fabricius, 1775)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Leitrim, Limerick, Longford, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (31/32).

APATANIIDAE

***Apatania auricula* (Forsslund, 1930)**
Clare, Kerry (2/32).
***Apatania muliebris* McLachlan, 1866**
Antrim, Cavan, Clare, Derry, Kerry, Wexford (6/32).
***Apatania wallengreni* McLachlan, 1871**
Donegal, Fermanagh, Galway, Mayo, Sligo, Westmeath (6/32).

LIMNEPHILIDAE

***Drusus annulatus* (Stephens, 1837)**
Antrim, Carlow, Cavan, Clare, Cork, Derry, Down, Dublin, Fermanagh, Galway, Kerry, Laois, Leitrim, Meath, Sligo, Tipperary, Tyrone, Waterford, Wexford, Wicklow (20/32).
***Ecclisopteryx dalecarlica* Kolenati, 1848**
Clare, Cork, Derry, Donegal, Leitrim, Tipperary, Tyrone, Wicklow (8/32).

***Chaetopteryx villosa* (Fabricius, 1798)**
Antrim, Cavan, Clare, Cork, Dublin, Galway, Kerry, Kildare, Kilkenny, Meath, Tipperary, Waterford, Wexford, Wicklow (14/32).
***Anabolia brevipennis* (Curtis, 1834)**
Cavan, Galway, Westmeath (3/32).
***Anabolia nervosa* (Curtis, 1834)**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Leitrim, Limerick, Longford, Louth, Mayo, Meath, Monaghan, Roscommon, Sligo, Tipperary, Tyrone, Westmeath, Wexford, Wicklow (28/32).
***Glyphotaelius pellucidus* (Retzius, 1783)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Down, Dublin, Galway, Kerry, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Monaghan, Roscommon, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (24/32).
***Grammotaulius nigropunctatus* (Retzius, 1783)**
Armagh, Cavan, Clare, Cork, Galway, Leitrim, Louth, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wicklow (15/32).
***Limnephilus affinis* Curtis, 1834**
Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Galway, Kerry, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tyrone, Waterford, Westmeath, Wexford, Wicklow (22/32).
***Limnephilus auricula* Curtis, 1834**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Leitrim, Limerick, Louth, Mayo, Meath, Monaghan, Offaly, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (27/32).
***Limnephilus binotatus* Curtis, 1834**
Armagh, Cavan, Clare, Fermanagh, Galway, Kerry, Limerick, Mayo, Monaghan, Offaly, Tipperary, Westmeath, Wicklow (13/32).
***Limnephilus borealis* (Zetterstedt, 1840)**
Antrim (1/32).
***Limnephilus centralis* Curtis, 1834**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Mayo, Offaly, Roscommon, Tipperary, Waterford, Wexford, Wicklow (21/32).
***Limnephilus coenosus* Curtis, 1834**
Antrim, Galway, Kerry, Tyrone (4/32).

***Limnephilus decipiens* (Kolenati, 1848)**
Cavan, Clare, Fermanagh, Galway, Mayo, Meath, Monaghan, Offaly, Tipperary, Waterford, Westmeath, Wexford (12/32).
***Limnephilus elegans* Curtis, 1834**
Antrim, Clare, Cork, Donegal, Kerry, Mayo, Offaly, Tipperary, Westmeath (9/32).
***Limnephilus flavicornis* (Fabricius, 1787)**
Armagh, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Leitrim, Longford, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (27/32).
***Limnephilus fuscinervis* (Zetterstedt, 1840)**
Cavan, Clare, Galway, Kildare, Mayo, Monaghan, Offaly, Roscommon, Westmeath (9/32).
***Limnephilus griseus* (Linnaeus, 1758)**
Clare, Cork, Donegal, Galway, Kerry, Mayo, Offaly, Sligo, Westmeath (9/32).
***Limnephilus hirsutus* (Pictet, 1834)**
Antrim, Cavan, Clare, Cork, Donegal, Dublin, Galway, Kildare, Mayo, Monaghan, Offaly, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (17/32).
***Limnephilus ignavus* Mclachlan, 1865**
Antrim, Cavan, Clare, Kildare, Mayo, Waterford, Westmeath, Wexford, Wicklow (9/32).
***Limnephilus incisus* Curtis, 1834**
Antrim, Armagh, Cavan, Clare, Donegal, Galway, Kerry, Kildare, Limerick, Mayo, Monaghan, Offaly, Waterford, Westmeath, Wexford, Wicklow (16/32).
***Limnephilus lunatus* Curtis, 1834**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Leitrim, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (29/32).
***Limnephilus luridus* Curtis, 1834**
Antrim, Clare, Cork, Donegal, Dublin, Galway, Kerry, Mayo, Monaghan, Offaly, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (17/32).
***Limnephilus marmoratus* Curtis, 1834**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (29/32).
***Limnephilus nigriceps* (Zetterstedt, 1840)**
Antrim, Armagh, Cavan, Clare, Donegal, Fermanagh, Galway, Mayo, Meath, Westmeath (10/32).
***Limnephilus pati* O'Connor, 1980**
Donegal, Mayo, Tipperary, Westmeath (4/32).

***Limnephilus rhombicus* (Linnaeus, 1758)**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kildare, Leitrim, Limerick, Louth, Mayo, Offaly, Roscommon, Sligo, Tipperary, Waterford, Wexford, Wicklow (23/32).

***Limnephilus sparsus* Curtis, 1834**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Louth, Mayo, Meath, Monaghan, Offaly, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (26/32).

***Limnephilus stigma* Curtis, 1834**
Antrim, Armagh, Cavan, Clare, Cork, Galway, Kerry, Offaly, Tipperary, Waterford, Westmeath (11/32).

***Limnephilus tauricus* Schmid, 1964**
Tipperary (1/32).

***Limnephilus vittatus* (Fabricius, 1798)**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (23/32).

***Halesus digitatus* (Schrank, 1781)**
Antrim, Cavan, Cork, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Mayo, Meath, Tipperary, Wexford, Wicklow (15/32).

***Halesus radiatus* (Curtis, 1834)**
Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Louth, Mayo, Meath, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (26/32).

***Hydatophylax infumatus* (McLachlan, 1865)**
Cavan (1/32).

***Mesophylax impunctatus* McLachlan, 1884**
Clare, Galway, Kerry, Mayo, Sligo, Westmeath (6/32).

***Micropterna lateralis* (Stephens, 1837)**
Antrim, Armagh, Carlow, Clare, Cork, Donegal, Down, Dublin, Galway, Kerry, Kildare, Kilkenny, Mayo, Roscommon, Sligo, Tyrone, Waterford, Westmeath, Wexford, Wicklow (20/32).

***Micropterna sequax* McLachlan, 1875**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Down, Dublin, Galway, Kerry, Kildare, Mayo, Meath, Offaly, Roscommon, Tyrone, Waterford, Wexford, Wicklow (19/32).

***Potamophylax cingulatus* (Stephens, 1837)**
Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Kerry, Louth, Meath, Sligo, Tipperary, Tyrone, Waterford, Wexford, Wicklow (18/32).
***Potamophylax latipennis* (Curtis, 1834)**
Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Galway, Kerry, Kildare, Mayo, Meath, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (22/32).
***Stenophylax permistus* McLachlan, 1895**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Limerick, Louth, Mayo, Meath, Roscommon, Sligo, Tyrone, Waterford, Westmeath, Wexford, Wicklow (22/32).

SERICOSTOMATIDAE

***Sericostoma personatum* (Spence, 1826)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Longford, Louth, Mayo, Meath, Monaghan, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (31/32).

BERAEIDAE

***Beraea maurus* (Curtis, 1834)**
Antrim, Cavan, Clare, Cork, Derry, Down, Dublin, Fermanagh, Kerry, Kildare, Kilkenny, Mayo, Sligo, Tipperary, Tyrone, Waterford, Wexford, Wicklow (18/32).
***Beraea pullata* (Curtis, 1834)**
Armagh, Carlow, Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Kerry, Kildare, Laois, Mayo, Tipperary, Waterford, Wexford, Wicklow (17/32).
***Beraeodes minutus* (Linnaeus, 1761)**
Antrim, Cavan, Fermanagh, Kerry, Meath, Tipperary, Tyrone, Waterford (8/32).

ODONTOCERIDAE

***Odontocerum albicorne* (Scopoli, 1763)**
Antrim, Carlow, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Kerry, Kilkenny, Mayo, Meath, Sligo, Tipperary, Tyrone, Waterford, Wexford, Wicklow (19/32).

MOLANNIDAE

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

Armagh, Cavan, Fermanagh, Galway, Leitrim, Longford, Mayo, Monaghan, Roscommon, Sligo, Westmeath (11/32).

LEPTOCERIDAE

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

Carlow, Clare, Cork, Donegal, Galway, Kerry, Kildare, Kilkenny, Tipperary, Waterford, Wexford, Wicklow (12/32).

***Athripsodes albifrons* (Linnaeus, 1758)**

Carlow, Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (27/32).

***Athripsodes aterrimus* (Stephens, 1836)**

Antrim, Armagh, Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Laois, Leitrim, Longford, Louth, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (28/32).

***Athripsodes bilineatus* (Linnaeus, 1758)**

Clare, Cork, Down, Dublin, Fermanagh, Galway, Kildare, Mayo, Tyrone, Westmeath (10/32).

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

Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Laois, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (31/32).

***Athripsodes commutatus* (Rostock, 1874)**

Cavan, Clare, Cork, Donegal, Dublin, Galway, Kerry, Leitrim, Limerick, Mayo, Meath, Monaghan, Sligo, Westmeath (14/32).

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

Antrim, Carlow, Cavan, Clare, Cork, Donegal, Galway, Kerry, Kildare, Kilkenny, Leitrim, Limerick, Mayo, Monaghan, Roscommon, Westmeath, Wexford, Wicklow (18/32).

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

Clare, Donegal, Galway, Kerry, Roscommon, Westmeath (6/32).

***Ceraclea dissimilis* (Stephens, 1836)**

Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Galway, Kerry, Kildare, Kilkenny, Limerick, Mayo, Monaghan, Offaly, Roscommon, Tipperary, Tyrone, Westmeath, Wexford (23/32).

***Ceraclea fulva* (Rambur, 1842)**
Armagh, Cavan, Clare, Derry, Donegal, Fermanagh, Galway, Kerry, Leitrim, Limerick, Longford, Mayo, Monaghan, Roscommon, Tipperary, Waterford, Westmeath, Wicklow (18/32).
***Ceraclea nigronervosa* (Retzius, 1783)**
Armagh, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Mayo, Meath, Roscommon, Sligo, Tyrone, Westmeath (15/32).
***Ceraclea senilis* (Burmeister, 1839)**
Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Longford, Louth, Mayo, Monaghan, Roscommon, Westmeath (16/32).
***Erotesis baltica* McLachlan, 1877**
Westmeath (1/32).
***Leptocerus tineiformis* Curtis, 1834**
Down, Dublin, Kildare, Limerick, Waterford, Wexford (6/32).
***Mystacides azurea* (Linnaeus, 1761)**
Antrim, Armagh, Carlow, Cavan, Clare, Cork, Derry, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Kildare, Kilkenny, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Tyrone, Waterford, Westmeath, Wexford, Wicklow (30/32).
***Mystacides longicornis* (Linnaeus, 1758)**
Antrim, Armagh, Cavan, Clare, Cork, Derry, Donegal, Dublin, Fermanagh, Galway, Kerry, Kildare, Leitrim, Limerick, Longford, Mayo, Meath, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (26/32).
***Oecetis furva* (Rambur, 1834)**
Antrim, Cavan, Clare, Cork, Donegal, Fermanagh, Galway, Kerry, Limerick, Longford, Mayo, Monaghan, Offaly, Waterford, Westmeath (15/32).
***Oecetis lacustris* (Pictet, 1834)**
Antrim, Armagh, Cavan, Clare, Cork, Fermanagh, Galway, Kerry, Kildare, Leitrim, Longford, Mayo, Monaghan, Roscommon, Westmeath, Wexford, Wicklow (17/32).
***Oecetis notata* (Rambur, 1842)**
Dublin, Kerry, Kilkenny, Mayo, Tipperary, Waterford, Wexford (7/32).
***Oecetis ochracea* (Curtis, 1825)**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Down, Dublin, Fermanagh, Galway, Kerry, Limerick, Mayo, Monaghan, Offaly, Roscommon, Waterford, Westmeath (18/32).
***Oecetis testacea* Curtis, 1825**
Cavan, Clare, Cork, Donegal, Galway, Kerry, Limerick, Mayo, Westmeath, Wexford, Wicklow (11/32).

***Setodes argentipunctellus* McLachlan, 1877**
Kerry (1/32).
***Triaenodes bicolor* (Curtis, 1834)**
Antrim, Armagh, Cavan, Clare, Cork, Donegal, Dublin, Fermanagh, Galway, Kerry, Longford, Mayo, Monaghan, Offaly, Roscommon, Sligo, Tipperary, Waterford, Westmeath, Wexford, Wicklow (21/32).
***Ylodes reuteri* (McLachlan, 1880)**
Waterford, Wexford (2/32).

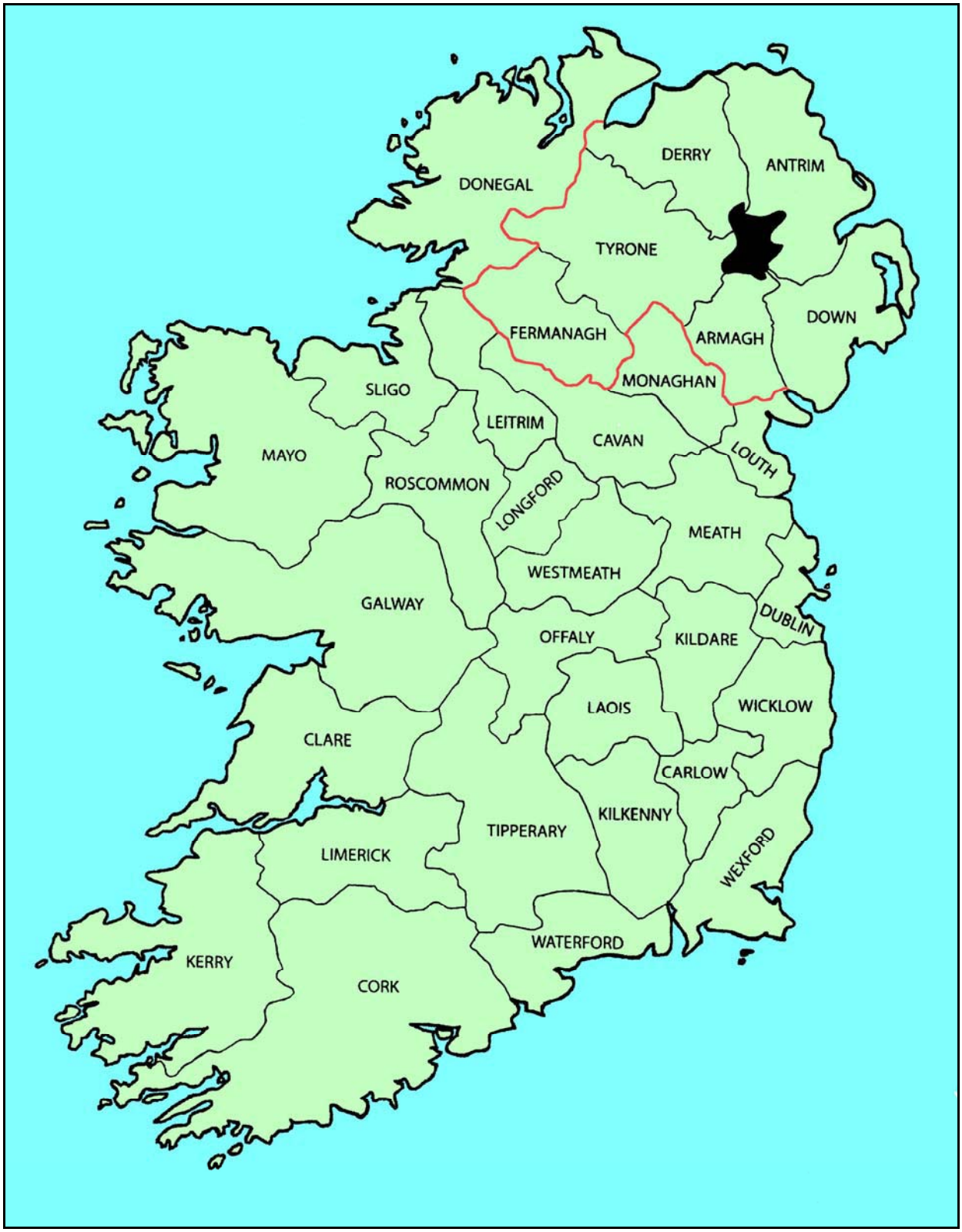


FIGURE 112. The counties of Ireland.