

SOME FURTHER DISTRIBUTION RECORDS OF CADDISFLIES (TRICHOPTERA) FROM IRELAND

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Abstract

New distributional data for Irish caddisflies (Trichoptera) are provided along with some updated maps. New county records are noted.

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

Introduction

Recently, O'Connor (2020a) published *A National Grid Atlas of the Irish Caddisflies (Trichoptera)*. This online publication complements O'Connor (2015) *A catalogue and atlas of the caddisflies (Trichoptera) of Ireland*. It provides distribution maps for all the 156 Irish species along with a revised checklist and notes on habitats and flight periods. There is also a revised list of county records. The maps are based on 16,067 non-duplicate records contained in the catalogue and the subsequent Addenda (1-3). The maps do not include the distributional data in O'Connor and O'Connor (2020). Those data (Addendum 4) from O'Connor and O'Connor (2020) were subsequently uploaded by the National Biodiversity Data Centre to the dataset "Caddisflies (Trichoptera) of Ireland" on 10 July 2020 and are now available on updated distribution maps (O'Connor, 2020b).

Research on the distribution of the Irish caddisflies (Trichoptera) has continued since O'Connor and O'Connor (2020). Due to Covid 19 health regulations and poor weather, the author's field-work has been restricted. However, specimens and data were sent by various collectors around the island during the lockdown period and afterwards. These have resulted in a considerable body of new information which is presented here along with 2020 records collected by J. P. O'Connor and M. A. O'Connor. Some records which were in Addendum 1, but unpublished, are also listed for completeness. The remaining records will be included in Addendum 5 and sent to the National Biodiversity Data Centre in due course.

Unless otherwise stated, specimens were identified by the author. The specimens were determined using Edington and Hildrew (1995), Wallace, Wallace and Philipson (2003), Malicky (2004), Waringer and Graf (2011), Barnard and Ross (2012), Salokannel and Mattila

(2018) and Neu (2019). Voucher material of the rarer species has been retained in the O'Connor collection.

RHYACOPHILIDAE

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

DUBLIN: Castleknock (O0837), 1♀ 22 August 2020, on the outside window of a suburban house, J. P. O'Connor.

The adult probably originated in the nearby River Tolka.

LAOIS: stream near Vicarstown (N5803), 2♂♂2♀♀ 3 August 1986, J. P. O'Connor.

WICKLOW: Ballydonnell Brook, Ballylow Bridge (O0612), 1♂ 28 April 2020, collected & determined H. Feeley.

***Rhyacophila munda* McLachlan, 1862**

WICKLOW: River Avonbeg near Greenan (T1487), 1♂ 23 April 2020, collected & determined H. Feeley.

Although *Rhyacophila munda* has been previously recorded from this square, the new capture is mentioned here due to its early emergence. The species normally flies from July to November. However Dick Harris collected an adult on the 12 May.

GLOSSOSOMATIDAE

***Agapetus fuscipes* Curtis, 1834**

GALWAY: Lough Kip River, Oguil, Moycullen (M2231), 5 larvae 21 May 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

TIPPERARY: low stream in Flagh Bog (R9396), 1♂ 8 August 2016, collected & determined J. Brophy.

***Agapetus ochripes* Curtis, 1834**

MEATH: River Boyne, Trim (N8056), 1♂1♀ 29 July 2020 & 2♂♂4♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

***Glossosoma boltoni* Curtis, 1834**

GALWAY: Lissareaghaun Bog (M8519), 1♀ 3 June 2016, K. G. M. Bond.

KERRY: Lough Leane, Killarney (V9686), 1♀ 5 September 1972, J. P. O'Connor.

KILKENNY: River Nore, Inistioge (S6337) 1♀ 10 August 2017, light-trap, J. P. O'Connor & M. A. O'Connor.

WEXFORD: River Boro, Soldier's Hole (S9636), 11♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor. River Urrin, Enniscorthy (S9638), 1♂2♀♀ 6 August 2017, J. P. O'Connor & M. A. O'Connor.

WICKLOW: River Ow near Aughrim (T1179), 1♀ 23 April 2020, collected & determined H. Feeley.

HYDROPTILIDAE

Agraylea multipunctata Curtis, 1834 (Fig. 1)

CAVAN: Lough Ramor, Lakeside Manor (N6286), 4♂♂ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

Hydroptila cornuta Mosley, 1922 New to County Meath (Fig. 2)

CAVAN: Lough Ramor, Virginia (N6087), 1♀ 12 August 2020, Lakeside Manor (N6286), 1♂ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

This is the third locality for the species in County Cavan.

MEATH: River Boyne, Trim (N8056), 3♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

The latest Irish flight date was previously 3 September.

Hydroptila forcipata (Eaton, 1873) (Fig. 3)

KERRY: River Flesk near Lough Guitane (W0185), 1♀ 10 October 1972, J. P. O'Connor.

MEATH: River Boyne, Trim (N8056), 4♂♂3♀♀ 29 July 2020, J. P. O'Connor & M. A. O'Connor.

WEXFORD: River Boro, Soldier's Hole (S9636), 2♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

Hydroptila simulans Mosely, 1920 (Fig. 4)

MEATH: River Boyne, Trim (N8056), 3♂♂ 29 July 2020 & 1♂3♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

Hydroptila sparsa Mosely, 1920

KILKENNY: River Nore, Inistioge (S6337), 1♂ 10 August 2017, light-trap, J. P. O'Connor & M. A. O'Connor.

MEATH: River Boyne, Trim (N8056), 3♂♂2♀♀ 29 July 2020 & 3♂♂4♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

WEXFORD: Oaklands Lake, New Ross (S7125), 1♀ 7-8 August 2017, the light-trap was also sited near a stream, J. P. O'Connor & M. A. O'Connor. River Boro, Soldier's Hole (S9636), 2♂♂3♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

Ithytrichia lamellaris Eaton, 1873

MEATH: River Boyne, Trim (N8056), 8♂♂2♀♀ 29 July 2020 & 12♂♂8♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

Orthotrichia costalis (Curtis, 1834)

WATERFORD: Belle Lake, pump house (S6605), 9♀♀ 8 June 2020, light-trap, A. Walshe.

Although *Orthotrichia costalis* has been previously taken on this lake, the new record is mentioned due to it being the earliest recorded Irish emergence.

***Oxyethira flavicornis* (Pictet, 1834) (Fig. 5)**

WICKLOW: King's River (O0401), 9♂♂ 20-21 September 1973, light-trap near numerous bog pools and river, J. P. O'Connor. Pollaphuca (Blessington) Reservoir, Boystown (N9808), 1♀ 6 August 2020, J. P. O'Connor & M. A. O'Connor.

***Tricholeiochiton fagesii* (Guinard, 1879) (Fig. 6)**

A male was raised from a pupa found on a charophyte sample retrieved from Lough Garr, County Westmeath (N3466). This is the second adult record of *Tricholeiochiton fagesii* in Ireland and the first male specimen (Brophy and O'Connor, 2020).

PHILOPOTAMIDAE

***Philopotamus montanus* (Donovan, 1813) (Fig. 7)**

Myles Nolan took two males of *Philopotamus montanus* in tree-trunk traps at Silver River, County Offaly (N2407) on 27 May-28 June 2019. The species was new to that county and is now known from 23 of the 32 counties (Nolan and O'Connor, in press).

KERRY: Cappagh River (flows into Lough Guitane) (W0382), 1♀ 31 October 2019, collected & determined M. Nolan.

***Wormaldia occipitalis* (Pictet, 1834)**

WEXFORD: Johnstown Castle, Garden Lake (T0116), 1♂ 15 August 2017, stream entering lake, J. P. O'Connor. Kilmokea Gardens (S6816), 4♂♂ 31 June 2011, pond/stream, J. P. O'Connor.

ECNOMIDAE

***Ecnomus tenellus* (Rambur, 1842)**

GALWAY: Lough Corrib, Hurney's Point (M2531), 10♂♂35♀♀ 30 July 2003, light-trap, K. G. M. Bond.

KERRY: Muckross Lake, Colleen Baun (Bawn) Rock (V9485), 2♂♂ 27-28 July 1973, light-trap, J. P. O'Connor.

POLYCENTROPODIDAE

***Cyrrnus trimaculatus* (Curtis, 1834)**

CAVAN: Lough Ramor, Lakeside Manor (N6286), 1♂ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

CLARE: Lough Derg, Mount Shannon (R7186), 1♂ 26-27 August 2003, light-trap, K. G. M. Bond.

KERRY: Muckcross Lake, Camillian Bay (V9486), 3♂♂ 20 June 1973, J. P. O'Connor.

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

GALWAY: Lough Corrib, Hurney's Point (M2531), 1♂1♀ 30 July 2003, light-trap, K. G. M. Bond.

***Neureclipsis bimaculata* (Linnaeus, 1758) (Fig. 8)**

OFFALY: River Shannon, Shannonbridge, Lanesborough (M9624), larvae August 2016, in benthic dredge, Aquatic Services Unit (2016).

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 9 June 2019, S. Voss, identified from a photograph.

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

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1 larva 23 April 2020, in small stream, identified from a photograph, 1♂ 13 June 2020, on wooden garden fence & 1♂ 18 June 2020, on a shed-wall, S. Voss.

WICKLOW: Knocksink Woods (O2117), 1♀ 3-6 July 1995, Malaise Trap by flush in woodland, C. Ronayne.

***Plectrocnemia geniculata* McLachlan, 1871**

GALWAY: Lough Kip River, Oguil, Moycullen (M2231), 1 larva 21 May 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

***Polycentropus flavomaculatus* (Pictet, 1834)**

CAVAN: Lough Ramor, Lakeside Manor (N6286), 17♂♂1♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

GALWAY: Lough Corrib, Cloonmore (M2241), 15♂♂ 21 June 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

KILKENNY: River Nore, Inistioge (S6337), 1♂ 10 August 2017, light-trap, J. P. O'Connor & M. A. O'Connor.

LAOIS: stream near Vicarstown (N5803), 1♂ 3 August 1986, J. P. O'Connor.

TIPPERARY: River Suir, Carrick on Suir (S3921), 1♂ 17 August 2017, J. P. O'Connor & M. A. O'Connor. A slow stream in Flagh Bog (R9396), 1♂ 8 August 2016, collected & determined J. Brophy.

WATERFORD: Knockaderry Reservoir (S4906), 2♂♂ 13 August 2017, outflow, J. P. O'Connor.

WEXFORD: River Boro, Soldier's Hole (S9636), 2♂♂3♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

***Polycentropus irroratus* (Curtis, 1835) (Fig. 9)**

MEATH: River Boyne, Ramparts, Navan (N8868), 1♂1♀ 22 July 2020, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 14 July 2019, S. Voss, identified from a photograph. A slow stream in Flagh Bog (R9396), 1♂ 8 August 2016, collected & determined J. Brophy.

PSYCHOMYIIDAE

Lype phaeopa (Stephens, 1836) New to County Tipperary (Fig. 10)

MEATH: River Boyne, Ramparts, Navan (N8868), 2♂♂ 22 July 2020, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♀ 24 May 2020, on a shed-wall, S. Voss.

WEXFORD: River Boro, Soldier's Hole (S9636), 2♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

Lype reducta (Hagen, 1868) New to County Waterford (Fig. 11)

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♀ 16 August 2020, on a shed-wall, S. Voss.

WATERFORD: Belle Lake (S6605), 1♀ 8 June 2020, light-trap at the Pump House beside the lake, A. Walshe.

Psychomyia pusilla (Fabricius, 1781)

KERRY: Muckcross Lake, Colleen Baun (Bawn) Rock, Killarney (V9485), 1♀ 27-28 July 1973, light-trap, J. P. O'Connor.

TIPPERARY: Nenagh River, Millersbrook (R8780), 2♂♂2♀♀ 8 July 1976, collected & determined M. A. O'Connor. River Suir, Carrick on Suir (S3921), 11♂♂4♀♀ 17 August 2017, J. P. O'Connor & M. A. O'Connor.

Tinodes waeneri (Linnaeus, 1758)

CAVAN: Lough Ramor, Lakeside Manor (N6286), 13♂♂9♀♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Castleknock (O0837), 1♀ 6 September 2016, on the outside of a lighted window of a suburban house, J. P. O'Connor. Leixlip Reservoir (O0035), 1♂ 3 October 2016, M. A. O'Connor.

ROSCOMMON: Lough Ree, The Warren (N0054), 1♂2♀♀ 3 September 2016, St John's Wood (N0056), 4♀♀ 4 September 2016. All collected & determined J. Brophy.

WATERFORD: Knockaderry Reservoir, outflow (S4906), 7♂♂5♀♀ 13 August 2017, J. P. O'Connor. Tramore (S5701), 1♂ 15 September 2016, 125w MV Robinson light-trap, T. Bryant.

WEXFORD: Johnstown Castle, Castle Lake (T0216), 5♂♂5♀♀ 12 August 2017, Garden Lake (T0116), 1♀ 15 August 2017, stream exiting lake, Lower Lake (T0216), 1♀ 15 August 2017, J. P. O'Connor.

Tinodes waeneri was recorded from the grounds of Johnstown Castle by King and Halbert (1910).

WICKLOW: Pollaphuca (Blessington) Reservoir, Blessington Bridge (N9914), 2♂♂ 6 August 2020, J. P. O'Connor & M. A. O'Connor.

HYDROPSYCHIDAE

***Cheumatopsyche lepida* (Pictet, 1834)**

KILDARE: River Liffey near Tankardsgarden (N8117), larvae 18 July 2019, collected & determined H. Feeley.

LAOIS: River Barrow near Trascaun (N5812), larvae 4 June 2020, collected & determined H. Feeley.

***Hydropsyche instabilis* (Curtis, 1834)**

WEXFORD: Johnstown Castle, Garden Lake (T0116), 1♀ 15 August 2017, stream exiting lake, J. P. O'Connor.

***Hydropsyche pellucidula* (Curtis, 1834)**

WEXFORD: River Boro, Soldier's Hole (S9636), 1♂2♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

***Hydropsyche siltalai* Döhler, 1963**

CAVAN: Lough Sheelin, Chambers Bay (N4285), 1♀ 25 June 2020, 6 watt light-trap, C. McNaughton.

DUBLIN: River Liffey, Strawberry Beds (O0935), 1♂ 1 July 2016, swept on the river bank, J. P. O'Connor.

GALWAY: Lough Kip River, Oguil, Moycullen (M2231), 6 larvae 21 May 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

LAOIS: stream near Vicarstown (N5803), 1♀ 3 August 1986, J. P. O'Connor.

WEXFORD: River Boro, Soldier's Hole (S9636), 8♂♂32♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

PHRYGANEIDAE

***Agrypnia obsoleta* (Hagen, 1864) (Fig. 12)**

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 15 July 2019, identified from a photograph, S. Voss.

***Agrypnia pagetana* Curtis, 1835**

CAVAN: Lough Sheelin, Mullaghboy (N4285), 1♀ 23 May 2017 & 3♂♂ 26-27 July 2017, light-trap at harbour, Chambers Bay (N4285) 1♂ 7 June 2020, 6 watt light-trap, all C. McNaughton.

***Phryganea bipunctata* Retzius, 1783**

CAVAN: Lough Sheelin, Chambers Bay (N4285), 1♂ 17 May 2020, 6 watt light-trap, Kilnahard shore (N4385), 1♂ 5 June 2020, in a boat, Mullaghboy (N4285), 1♂1♀ 21 May 2017, all C. McNaughton.

***Phryganea grandis* Linnaeus, 1758**

CAVAN: Lough Sheelin, Mullaghboy (N4285), 1♀ 26 July 2017, light-trap at the harbour, C. McNaughton.

***Trichostegia minor* (Curtis, 1834) (Fig. 13) (Fig. 13)**

Myles Nolan took a male of *Trichostegia minor* in a tree-trunk trap at Knockbarron Wood, Kinnity, County Offaly (N1706) on 6 May–5 July 2019. This was the third Irish record and the second adult one. The species was new to County Offaly (Nolan and O'Connor, in press).

GOERIDAE

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

CAVAN: Lough Sheelin, Mullaghboy (N4285), 1♂ 27 July 2017, light-trap at the harbour, C. McNaughton.

DUBLIN: River Liffey (O0935), 1♂ 1 July 2017, dead in a spider's web on a light fitting in the car park of the Angler's Rest, J. P. O'Connor.

***Silo nigricornis* (Pictet, 1834)**

GALWAY: Lough Kip River (M2231), 1 larva 21 May 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

***Silo pallipes* (Fabricius, 1781)**

DUBLIN: Slade of Saggart (O0324), 1♂ 7 August 1981, swept along a small stream, J. P. O'Connor.

WATERFORD: Tramore (S5701), 1♂ 6 July 2017, 125w MV Robinson light-trap, T. Bryant.

LEPIDOSTOMATIDAE

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

MEATH: River Boyne, Trim (N8056), 1♂2♀♀ 29 July 2020 & 1♂5♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

WEXFORD: River Boro, Soldier's Hole (S9636), 49♀♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

LIMNEPHILIDAE

Anabolia nervosa (Curtis, 1834)

WESTMEATH: Royal Canal, Kildallan Bridge (N3456), 1♀ 18 October 2016, collected & determined J. Brophy.

Glyptotaelius pellucidus (Retzius, 1783)

CORK: Glinny, Riverstick (W6658), 2♀♀ 8-28 June 2005, Malaise Trap in alder *Alnus* woods with seasonal streams/ponds, M. C. D. Speight.

DUBLIN: University College Dublin, Belfield (O1830), larvae 16 January 2018, pond, collected & determined H. Feeley.

LAOIS: Abbeyleix Bog (S4383), 1♀ 14 July 2017, swept from an oak *Quercus* tree, J. P. O'Connor.

Limnephilus affinis Curtis, 1834

GALWAY: Lough Corrib, Cloonmore (M2241), 1♂ 21 May 2016, 15w actinic light-trap, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

WATERFORD: Mount Congreve (S5310), 1♂ 11 August 2017, dead in a spider's web in an outhouse near a lake, J. P. O'Connor.

WEXFORD: Kilmokea Gardens (S6816), 1♀ 31 June 2011, pond/stream, J. P. O'Connor. Oaklands Lake, New Ross (S7125), 2♀♀ 17-18 August 2017, J. P. O'Connor & M. A. O'Connor.

WICKLOW: Pollaphuca (Blessington) Reservoir, Boystown (N9808), 1♂ 6 August 2020, J. P. O'Connor & M. A. O'Connor. The Murrough, Five Mile Point (O3102), 1♀ 14 September 2016, collected & determined J. Brophy.

Limnephilus auricula Curtis, 1834

CAVAN: Lough Sheelin, Mullaghboy (N4385), 1♂1♀ 26 July 2017, light-trap in the woods beside the lake, C. McNaughton.

CORK: Fota Wildlife Park (W7871), 2♂♂ 13-19 April, 1♂ 4-10 May, 1♂ 18-24 May & 1♂ 1-7 June 2020, Rothamsted Insect Survey light-trap per A. Riley.

Two males were previously recorded from the Wildlife Park but with a grid reference of W7874 in O'Connor (2015).

GALWAY: Lough Corrib, Cloonmore (M2241), 2♂♂ 21 May 2016, 15w actinic light-trap, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

KERRY: Lough Leane, Golf Course shore (V9291), 1♀ 20 October 1994, J. P. O'Connor.

OFFALY: Alderborough, Geashill (N4421), 1♂ 17 September 2020, light-trap, B. Sullivan.

WATERFORD: Tramore (S5701), 1♂ 8 September 2016, 125w MV Robinson light-trap, T. Bryant.

WEXFORD: Carrigbyrne (S8224), 1♂ 13 July 1991, farmland, J. P. O'Connor.

***Limnephilus binotatus* Curtis, 1834 New to County Waterford (Fig. 14)**

WATERFORD: Belle Lake (S6605), 2♀♀ 8 June 2020, light-trap at the Pump House beside the lake, A. Walshe.

***Limnephilus centralis* Curtis, 1834**

CAVAN: Lough Sheelin (N4285), 1♂ 28 July 2017, light-trap in a field near the lake, C. McNaughton.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 30 July 2019, identified from a photograph, 1♂ 17 May 2020, on the wall of a shed & 1♀ 24 May 2020, on the wall of a house, S. Voss.

WICKLOW: Tinode near Manor Kilbride (O0119), 1♂ 27 August 2017, at a lighted window of a house, J. P. O'Connor.

***Limnephilus flavicornis* (Fabricius, 1787)**

CAVAN: Lough Sheelin, Mullaghboy (N4285), 2♂♂3♀♀ 26-27 July 2017, light-traps, C. McNaughton.

LAOIS: stream near Vicarstown (N5803), 1♀ 3 August 1986, J. P. O'Connor.

LIMERICK: Curragh Chase Forest Park (R4149), 1♂ 4 October 2016, collected & determined J. Brophy.

WATERFORD: Belle Lake (S6605), 1♂ 17 September 2016, A. Walshe. Kilbarry Bog (S5908), 1♀ 26 August 2019, K. G. M. Bond.

WEXFORD: Johnstown Castle, Garden Lake (T0116), 1♂ 15 August 2017 & Lower Lake (T0216), 2♂♂ 15 August 2017, J. P. O'Connor. Oaklands Lake, New Ross (S7125), 1♂ 17-18 August 2017, J. P. O'Connor & M. A. O'Connor.

Limnephilus flavicornis was recorded from the grounds of Johnstown Castle by King and Halbert (1910).

***Limnephilus griseus* (Linnaeus, 1758)**

GALWAY: Lough Corrib, Hurney's Point (M2531), 1♂ 16 September 2003, light-trap, K. G. M. Bond.

***Limnephilus incisus* Curtis, 1834 New to County Tipperary (Fig. 15)**

OFFALY: Charleville Lake, Tullamore (N3321), 1♂ 6 September 2016, collected & determined J. Brophy.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 15 July 2019, identified from a photograph, S. Voss.

***Limnephilus lunatus* Curtis, 1834**

CAVAN: Lough Ramor, Lakeside Manor (N6286), 1♂ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

DUBLIN: Castleknock (O0837), 1♀ 29 September 2016, 1♂ 8 October 2016 & 1♂ 19 September 2020, lighted window, suburban house, J. P. O'Connor & M. A. O'Connor. Royal Canal (O0938), 1♂ 6 October 2016, J. P. O'Connor.

GALWAY: Lough Kip River, Oguil, Moycullen (M2231), 1 larva 21 May 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

MEATH: River Boyne, Trim (N8056), 1♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

A larva was previously taken from the River Boyne near Trim by M. F. O'Grady on the 5 September 1988.

OFFALY: Alderborough, Geashill (N4421), 2♂♂ 17 September 2020, light-trap, B. Sullivan.

ROSCOMMON: Lough Ree, The Warren (N0054), 1♀ 3 September 2016, St John's Wood (N0056), 1♂ 4 September 2016, collected & determined J. Brophy.

WATERFORD: Tramore (S5701), 1♂ 10 September 2016, 125w MV Robinson light-trap, T. Bryant.

WESTMEATH: Robinstown townland, Dalystown, near Mullingar (N4044), ♂ 5 September 2020, light-trap, A. Pedlow.

***Limnephilus luridus* Curtis, 1834 (Fig. 16)**

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♂ 17 July 2020 & 1♂ 22 July 2020, at a house, S. Voss.

***Limnephilus marmoratus* Curtis, 1834 (Fig. 17)**

DUBLIN: Royal Canal (O0938), 1♀ 6 October 2016, in a spider's web, J. P. O'Connor. Phibsborough (O1536), 1♂ 9 June 2020, on a wall, J. P. O'Connor.

LIMERICK: Curragh Chase Forest Park (R4149), 1♀ 4 October 2016, collected & determined J. Brophy.

MEATH: River Boyne, Trim (N8056), 1♂2♀♀ 29 July 2020 & 3♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

OFFALY: near Cushina River (N4816), adult 24 August 2017, collected & determined H. Feeley.

WATERFORD: Ballyscanlan Lough (S5402), 1♀ 4 July 2017, T. Bryant. Belle Lake (S6605), 2♂♂1♀ 3 August 2016, light-trap/swept J. P. O'Connor & M. A. O'Connor. Tramore (S5701), 1♂ 15 September 2016, 125w MV Robinson light-trap, T. Bryant.

WESTMEATH: Robinstown townland, Dalystown, near Mullingar (N4044), ♂♀ 5 September 2020, light-trap, A. Pedlow.

WEXFORD: Castle Lake, Johnstown Castle (T0216), 1♂ 12 August 2017, J. P. O'Connor; Lower Lake, Johnstown Castle (T0216), 1♀ 15 August 2017, J. P. O'Connor. Oaklands Lake, New Ross (S7125), 5♀♀ 7-8 August 2017 & 14♂♂32♀♀ 17-18 August 2017, light-traps, J. P.

O'Connor & M. A. O'Connor. The Burrow, Rosslare (T0918), 1♂ 12 August 2011, swept from vegetation, J. P. O'Connor.

Limnephilus marmoratus was recorded from the grounds of Johnstown Castle by King and Halbert (1910).

***Limnephilus sparsus* Curtis, 1834 (Fig. 18)**

CAVAN: Lough Sheelin, Chambers Bay (N4285), 1♀ 25 June 2020 & 1♀ 17 May 2020, 6 watt light-trap, Mullaghboy, woods (N4385), 2♂♂ 26 July 2017, light-trap, all C. McNaughton.

CORK: Fota Wildlife Park (W7871), 1♂ 4-10 May 2020, Rothamsted Insect Survey light-trap per A. Riley.

Adults were previously recorded from the Wildlife Park with a grid reference of W7874 in O'Connor (2015).

GALWAY: Lough Corrib, Cloonmore (M2241), 2♀♀ 21 May 2016, 15w actinic light-trap, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 25 April 2019, S. Voss, identified by Jürgen Gaul from a photograph, confirmed J. P. O'Connor, adult 5 May 2020, identified from a photograph, 1♀ 26 May 2020 & 1♂ 13 June 2020, on the wall of a shed, S. Voss.

WATERFORD: Tramore (S5701), 1♀ 10 July 2017, 125w MV Robinson light-trap, T. Bryant.

WEXFORD: Oaklands Lake, New Ross (S7125), 1♂ 17-18 August 2017, light-trap, J. P. O'Connor & M. A. O'Connor.

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

GALWAY: Kinvarra Point (M3710), 2♀♀ 11 June 2017, C. McNaughton.

***Halesus digitatus* (Schrank, 1781) (Fig. 19)**

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), adult 18 August 2019, identified from a photograph, 1 larva 28 August 2020, identified from larval remains in a pupal case from a stream, S. Voss.

***Halesus radiatus* (Curtis, 1834) (Fig. 20)**

MEATH: River Boyne, Trim (N8056), 1♂ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

OFFALY: Alderborough, Geashill (N4421), 1♂ 17 September 2020, light-trap, B. Sullivan.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 2 larvae 14 May 2020, in a small pond, S. Voss.

WATERFORD: Tramore (S5701), 1♂ 8 October 2016 & 1♂ 20 October 2016, 125w MV Robinson light-trap, T. Bryant.

WICKLOW: Killarney Road, Bray (O2517), 1♂ 19 October 2016, collected & determined J. Brophy.

***Mesophylax impunctatus* McLachlan, 1884**

GALWAY: Lough Corrib, Cloonmore (M2241), 4♂♂ 21 May 2016, 15w actinic light-trap, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020).

KERRY: Lough Leane, Golf Course shore, Killarney (V9291), 1♀ 20 October 1994, J. P. O'Connor.

***Micropterna lateralis* (Stephens, 1837) New to County Tipperary (Fig. 21) (Plates 1 and 2)**

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 3 larvae 13 May 2020, in a small stream, 1♂ 19 May 2020, on a lighted window, 1♂ 27 May 2020, on a window & 1♂ 17 June 2020, on a house wall, S. Voss.

Unusually for this species, the larval cases were composed of small stones (Plates 1 and 2).

WICKLOW: stream/waterfall near Lacken (N9911), 1 larva 22 July 1973, J. P. O'Connor.

***Micropterna sequax* McLachlan, 1875 New to County Tipperary (Fig. 22)**

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♀ 12 August 2020, on a window, S. Voss.

WICKLOW: Tinode near Manor Kilbride (O0119), 1♂ 27 August 2017, dead in a spider's web on the window of a house, J. P. O'Connor.

***Potamophylax cingulatus* (Stephens, 1837) New to County Westmeath (Fig. 23)**

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♂ 15 August 2020, on a lighted window, S. Voss.

WESTMEATH: Robinstown townland, Dalystown, near Mullingar (N4044), ♂ 5 September 2020, light-trap, A. Pedlow.

***Potamophylax latipennis* (Curtis, 1834) (Fig. 24)**

MEATH: River Boyne, Trim (N8056), 1♂1♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

WEXFORD: Glenbough Stream, Ballyhonbeg (T0829), 6 larvae 9 May 2017, D. M. Murray.

***Stenophylax permistus* McLachlan, 1895 (Fig. 25)**

GALWAY: Lough Corrib, Cloonmore (M2241), 1♀ 21 May 2016, collected & determined M. P. Gammell (National Biodiversity Data Centre, 2020). Tarrea (M3613), 1♂ 10 June 2017, C. McNaughton.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♀ 23 May 2020, on the wall of a shed & 1♂ 24 May 2020, on the wall of a house, S. Voss.

SERICOSTOMATIDAE

Sericostoma personatum (Spence, 1826) (Fig. 26)

Myles Nolan took a male of *Sericostoma personatum* in a tree-trunk trap at Knockbarron Wood, Kinnity, County Offaly (N1706) on 6 May-5 July 2019. The species was new to that county (Nolan and O'Connor, in press) and is now known from all 32 counties.

CLARE: Cloghaun River near Poulagower (R5984), 1♂ 2 August 2017, collected & determined H. Feeley.

DUBLIN: River Liffey, Strawberry Beds (O0735), 1♂ 25 August 2016, swept on the river bank, J. P. O'Connor & M. A. O'Connor.

KILDARE: River Figile near Rathmore (N6930), 1♀ 2 June 2020, collected & determined H. Feeley.

MAYO: Lough Urlaur (M5089), 1♂ 10 July 2017, collected & determined H. Feeley.

MEATH: River Boyne, Navan South (N8865), 3♂♂ 30 May 1986, J. P. O'Connor, Ramparts, River Boyne, Navan (N8868), 1♀ 22 July 2020, Trim (N8056), 2♂♂1♀ 29 July 2020, J. P. O'Connor & M. A. O'Connor.

SLIGO: Ballyglass, Templeboy (G4429), 1♂ 28 June 2016, collected & determined J. Brophy. Lough Gara (G7101), 1♂ 5 July 2017, collected & determined H. Feeley.

TIPPERARY: River Suir, Carrick on Suir (S3921), 4♂♂1♀ 17 August 2017, J. P. O'Connor & M. A. O'Connor.

BERAEIDAE

Beraea pullata (Curtis, 1834) (Fig. 27)

CAVAN: Lough Sheelin, Chambers Bay (N4285), 1♀ 28 May 2020, gathered on a boat, C. McNaughton.

TIPPERARY: Ballywilliam, Ballyporeen, Cahir (R9009), 1♂ 4 July 2020, on a house door, S. Voss.

ODONTOCERIDAE

Odontocerum albicorne (Scopoli, 1763)

CLARE: Ardclony River near Ballycorney (R6670), adult 31 July 2017, collected & determined H. Feeley.

DUBLIN: River Liffey, Strawberry Beds (O0735), 1♀ 1 July 2016, swept on the river bank, (O0935), 1♀ 1 July 2016, swept on the river bank, J. P. O'Connor.

WEXFORD: River Boro, Soldier's Hole (S9636), 1♀ 30 July 2016, light-trap, J. P. O'Connor & M. A. O'Connor. Stream at Pollfur Bridge near Fethard (S7806), 2♂♂ 29 July 2016, J. P. O'Connor & M. A. O'Connor.

MOLANNIDAE

Molanna albicans (Zetterstedt, 1840) (Fig. 28)

CAVAN: Lough Ramor, Lakeside Manor (N6286), 2♂♂1♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor. Lough Sheelin, Chambers Bay (N4285), 2♂♂ 29 May 2020, 6 watt light-trap, Crover (N4786), 7♂♂3♀♀ 25 June 2020, Kilnahard (N4385), 2♂♂ 5 June 2020 in boat, Mullaghboy (N4285), 1♂ 21 May 2017, light-trap, all C. McNaughton.

WESTMEATH: Lough Sheelin, Lynches Point (N4486), 3♂♂ 29 July 2017, C. McNaughton.

LEPTOCERIDAE

Athripsodes albifrons (Linnaeus, 1758) (Fig. 29)

CARLOW: River Slaney, Kildavin Bridge (S8959), adult, 23 July 2015, collected C. Byrne, identified by S. Dunlop from a photograph (National Biodiversity Data Centre, 2020).

CAVAN: Lough Ramor, Virginia (N6087), 1♂ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

LAOIS: Ballacolla (S3781), adult 6 August 2020, actinic lamp, M. Brennan, identified by S. Flint from a photograph.

MEATH: River Boyne, Trim (N8056), 2♂♂ 29 July 2020, J. P. O'Connor & M. A. O'Connor.

ROSCOMMON: Lough Ree, The Warren (N0054), 1♀ 3 September 2016, collected & determined J. Brophy.

Athripsodes aterrimus (Stephens, 1836)

CAVAN: Lough Sheelin, Kilnahard shore (N4385), 1♂ 5 June 2020, in a boat, C. McNaughton.

Athripsodes cinereus (Curtis, 1834) (Fig. 30)

CAVAN: Lough Ramor, Lakeside Manor (N6286), 1♂1♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

MEATH: River Boyne, Ramparts, Navan (N8868), 3♀♀ 22 July 2020, Trim (N8056), 12♂♂15♀♀ 29 July 2020, J. P. O'Connor & M. A. O'Connor.

WICKLOW: Pollaphuca (Blessington) Reservoir, Blessington Bridge (N9914), 2♀♀ 6 August 2020, J. P. O'Connor & M. A. O'Connor.

Athripsodes commutatus (Rostock, 1874) (Fig. 31)

CLARE: Lough Derg, Mount Shannon (R7186), 1♂ 26-27 August 2003, light-trap, K. G. M. Bond.

The species was previously known in County Clare from a river near Lough Graney (R5691) and a stream near Spanish Point (R0477).

MEATH: River Boyne, Trim (N8056), 6♂♂16♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

The second record from County Meath, an adult was previously taken on the River Boyne (N9271), Stackallen, by J. R. Harris in September 1946.

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

CAVAN: Lough Sheelin, Chambers Bay, (N4285), 1♀ 17 May 2020 & 1♀ 18 May 2020, 6 watt light-trap, Mullaghboy (N4285), 1♂ 27 July 2017, light-trap, all C. McNaughton.

***Ceraclea dissimilis* (Stephens, 1836) New to County Meath (Fig. 32)**

CLARE: Lough Derg, Mount Shannon (R7186), 1♀ 26-27 August 2003, light-trap, K. G. M. Bond.

MEATH: River Boyne, Trim (N8056), 2♀♀ 29 July 2020, J. P. O'Connor & M. A. O'Connor.

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

CLARE: Lough Derg, Mount Shannon (R7186), 5♂♂2♀♀ 26-27 August 2003, light-trap, K. G. M. Bond.

GALWAY: Lough Corrib, Hurney's Point (M2531), 1♀, 28 August 2005, M.V. light-trap, K. G. M. Bond.

KERRY: Muckcross Lake, Colleen Baun (Bawn) Rock, Killarney (V9485), 1♀ 27-28 July 1973, light-trap, J. P. O'Connor.

***Ceraclea nigronervosa* (Retzius, 1783)**

CAVAN: Lough Sheelin, Chambers Bay (N4285), 1♂ 7 June 2020, 6 watt light-trap, C. McNaughton.

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

CLARE: Lough Derg, Mount Shannon (R7186), 1♂ 26-27 August 2003, light-trap, K. G. M. Bond.

***Mystacides azurea* (Linnaeus, 1761) (Fig. 33)**

CAVAN: Lough Ramor, Lakeside Manor (N6286), 1♂1♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor. Lough Sheelin, Chambers Bay (N4285), 1♂ 20 May 2020, 6 watt light-trap, Kilnahard shore (N4385), 1♂ 5 June 2020, in a boat, all C. McNaughton.

MEATH: River Boyne, Trim (N8056), 3♂♂3♀♀ 9 September 2020, J. P. O'Connor & M. A. O'Connor.

TIPPERARY: River Suir, Carrick on Suir (S3921), 5♂♂4♀♀ 17 August 2017, J. P. O'Connor & M. A. O'Connor.

WATERFORD: Ballyscanlan Lough (S5402), 1♂ 2 June 2017, T. Bryant.

***Mystacides longicornis* (Linnaeus, 1758) (Fig. 34)**

ANTRIM: Keble, Rathlin Island (D0951), adult 20 June 2020, observed & determined H. Watson (NBN Atlas, 2020).

MAYO: Lough Urlaur (M5089), adult 10 July 2017, collected & determined H. Feeley.

WATERFORD: Ballyshunnock Reservoir (S4509), 9♂♂ 13 August 2017, swarming on the reservoir, J. P. O'Connor & M. A. O'Connor.

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

CAVAN: Lough Sheelin, Chambers Bay, (N4285), 1♂ 18 May 2020, 6 watt light-trap, Mullaghboy (N4285), 1♂2♀♀ 26-27 July 2017, light-trap at harbour, all C. McNaughton.

CLARE: Lough Derg, Mount Shannon (R7186), 1♀ 26-27 August 2003, light-trap, K. G. M. Bond.

WESTMEATH: Lough Sheelin, Lynches Point (N4486), 1♀ 29 July 2017, C. McNaughton.

***Oecetis lacustris* (Pictet, 1834)**

CAVAN: Lough Ramor, Lakeside Manor (N6286), 1♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor. Lough Sheelin, Chambers Bay (N4285), 1♀ 25 June 2020, 6 watt light-trap, C. McNaughton.

***Oecetis notata* (Rambur, 1842) New to County Meath (Fig. 35)**

MEATH: River Boyne, Ramparts, Navan (N8868), 4♂♂2♀♀ 22 July 2020, J. P. O'Connor & M. A. O'Connor.

The discovery of *Oecetis notata* on the River Boyne is of interest as Wallace and O'Connor (2020) discuss the resurgence of this caddisfly in Britain and Ireland.

***Oecetis ochracea* (Curtis, 1825) (Fig. 36)**

CAVAN: Lough Ramor, Lakeside Manor (N6286), 3♂♂2♀♀ 12 August 2020, J. P. O'Connor & M. A. O'Connor.

GALWAY: Kinvarra Point (M3710), 1♂ 11 June 2017, C. McNaughton.

***Trienodes bicolor* (Curtis, 1834)**

WATERFORD: Belle Lake (S6605), 1♂ 3 August 2016, light-trap, J. P. O'Connor & M. A. O'Connor.

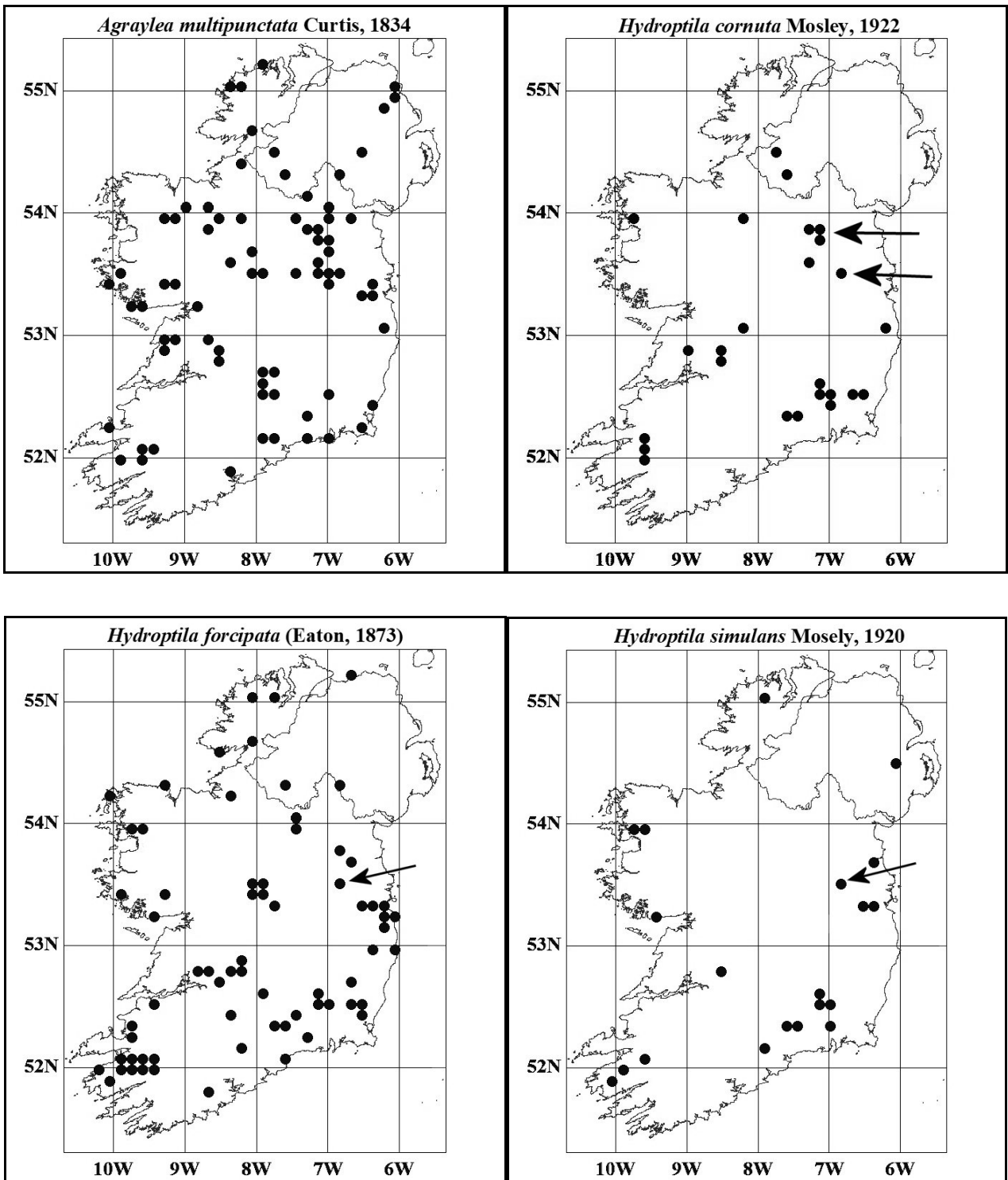
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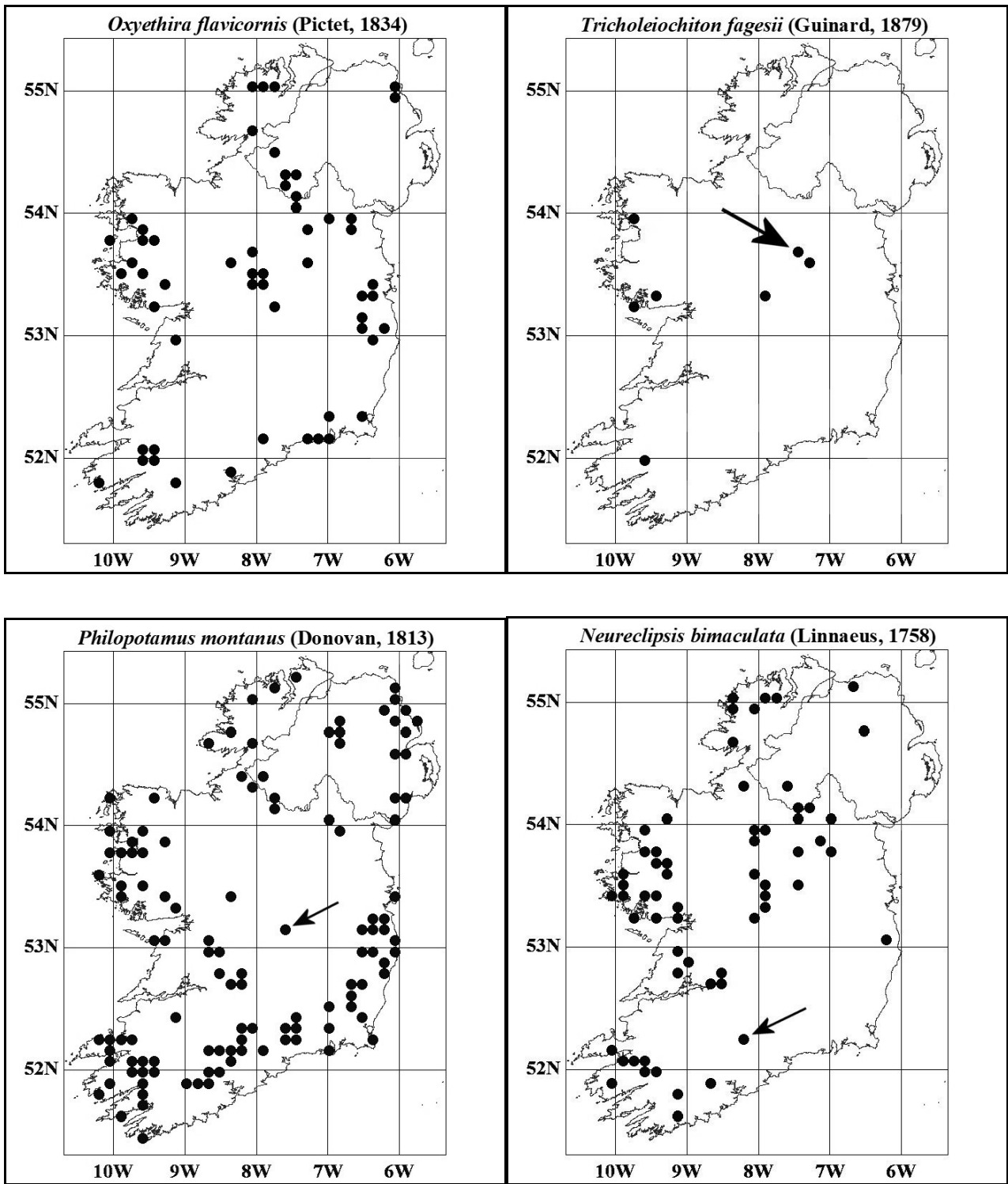
References

- Aquatic Services Unit (2016) ESB Power Stations West Offaly (Shannonbridge) Aquatic Ecological Monitoring (August 2016). University College Cork, Cork.
<http://www.epa.ie/licences/lic_eDMS/090151b28060361c.pdf> (Accessed, 6 June 2020).
- Barnard, P. and Ross, E. (2012) The adult Trichoptera (caddisflies) of Britain and Ireland. *Handbooks for the Identification of British Insects* **1**(17): i-iv, 1-192.
- Brophy, J. T. and O'Connor, J. P. (2020) A new site for *Tricholeiochiton fagesii* (Guinard, 1879) (Trichoptera: Hydroptilidae) in Ireland. *Entomologist's Record and Journal of Variation* **132**: 244-248.
- Edington, J. M. and Hildrew, A. G. (1995) A revised key to the caseless caddis larvae of the British Isles with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **Number 53**: 1-134.
- King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28B**: 29-112.
- Malicky, H. (2004) *Atlas of European Trichoptera*. 2nd edition. Springer, Dordrecht.
- National Biodiversity Data Centre (2020) General Biodiversity Records from Ireland.
<<https://maps.biodiversityireland.ie/Dataset/7>> (accessed 29 May 2020).
- NBN Atlas (2020) <<https://northernireland-records.nbnatlas.org/occurrences/>> (accessed 23 September 2020).
- Neu, P. J. (2019) Unterscheidung der Weibchen der *Hydroptila sparsa*-Gruppe.
<http://www.trichoptera-rp.de/html/hydroptila_sparsa-weibchen.html> (accessed 9 July 2019).
- Nolan, M. and O'Connor, J. P. (in press) A second adult site for the caddisfly *Trichostegia minor* (Curtis) in Ireland with the description of an unusual capture method for Trichoptera. *British Journal of Entomology and Natural History*.
- O'Connor, J. P. (2015) *A catalogue and atlas of the caddisflies (Trichoptera) of Ireland*. Occasional Publication of the Irish Biogeographical Society **Number 11**. Published by the Irish Biogeographical Society in association with the National Museum of Ireland.
- O'Connor, J. P. (2020a) *A National Grid Atlas of the Irish Caddisflies (Trichoptera)*. Occasional Electronic Publication **Number 1**. Irish Biogeographical Society, Dublin. 194pp.
<<http://www.irishbiogeographicalsociety.com/pdf/IBSNationalgridatlasIrishcaddisfliestrichoptera.pdf>>.
- O'Connor, J. P. (2020b) Caddisflies (Trichoptera) of Ireland, National Biodiversity Data Centre, Ireland <<https://maps.biodiversityireland.ie/Dataset/250>> (updated with Addendum 4 on 10 July 2020).

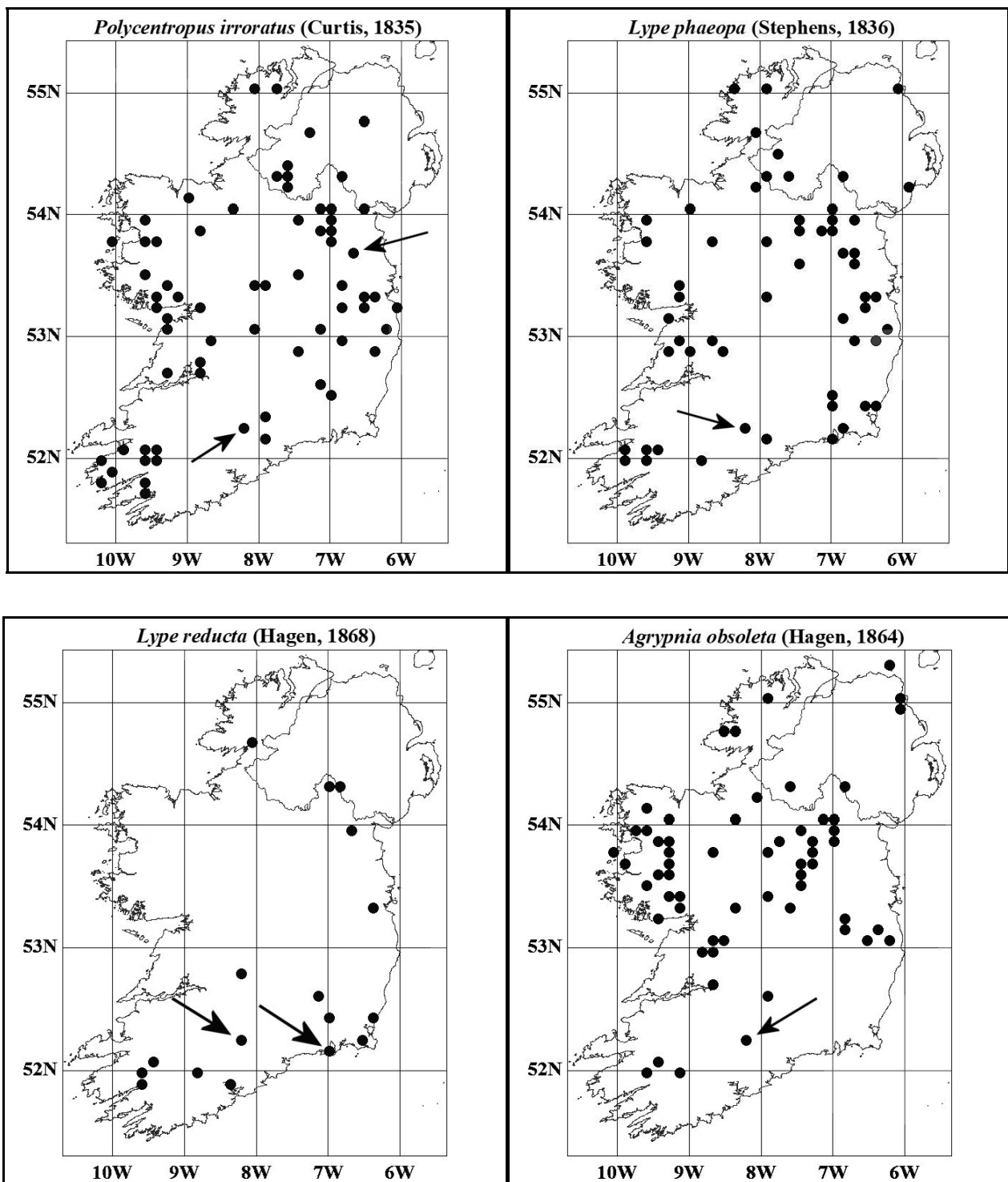
- O'Connor, J. P. and O'Connor, M. A. (2020) Additional caddisfly (Trichoptera) records from Ireland including new records of *Oxyethira mirabilis* Morton, 1904. *Bulletin of the Irish Biogeographical Society* **44**: 19-94.
- Salokannel, J. and Mattila, K. (2018) *Suomen vesiperhoset. Trichoptera of Finland*. Hyönteistarvike Tibiale Oy, Helsinki.
- Wallace, I. D., Wallace, B. and Philipson, G. N. (2003) Keys to the case-bearing caddis larvae of Britain and Ireland. *Scientific Publications of the Freshwater Biological Association* **Number 61**.
- Wallace, I. D. and O'Connor, J. P. (2020) Resurgence of the caddis *Oecetis notata* (Rambur, 1842) (Trich: Leptoceridae) in Britain and Ireland. *Entomologist's Record & Journal of Variation* **132**: 14-15.
- Waringer, J. and Graf, W. (2011) *Atlas der mitteleuropäischen Köcherfliegenlarven - Atlas of Central European Trichoptera larvae*. Erik Mauch Verlag, Dinkelscherben.



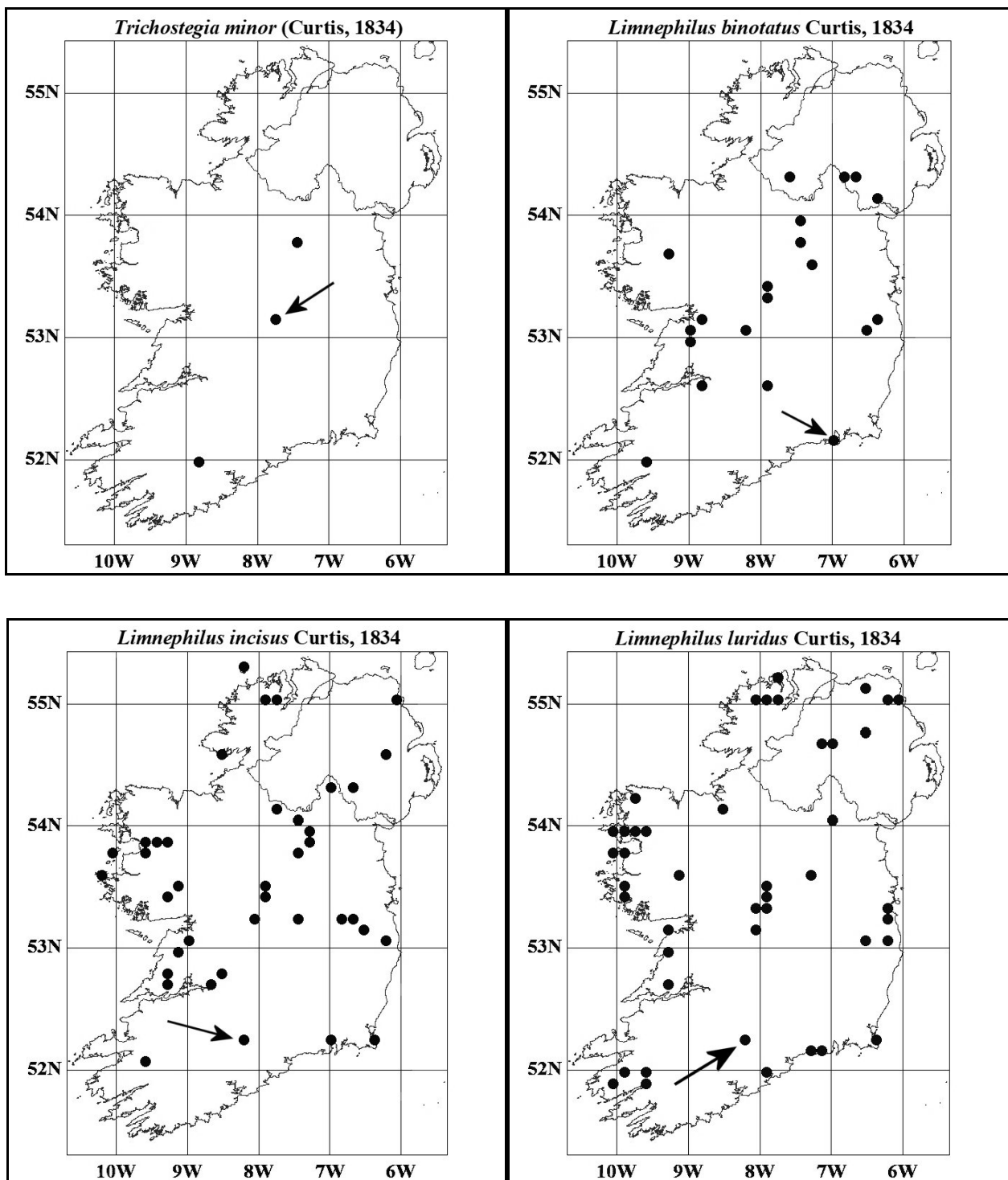
FIGURES 1-4. The known Irish distributions of *Agraylea multipunctata* Curtis, 1834, *Hydroptila cornuta* Mosley, 1922, *Hydroptila forcipata* (Eaton, 1873) and *Hydroptila simulans* Mosely, 1920. Significant records are indicated by arrows.



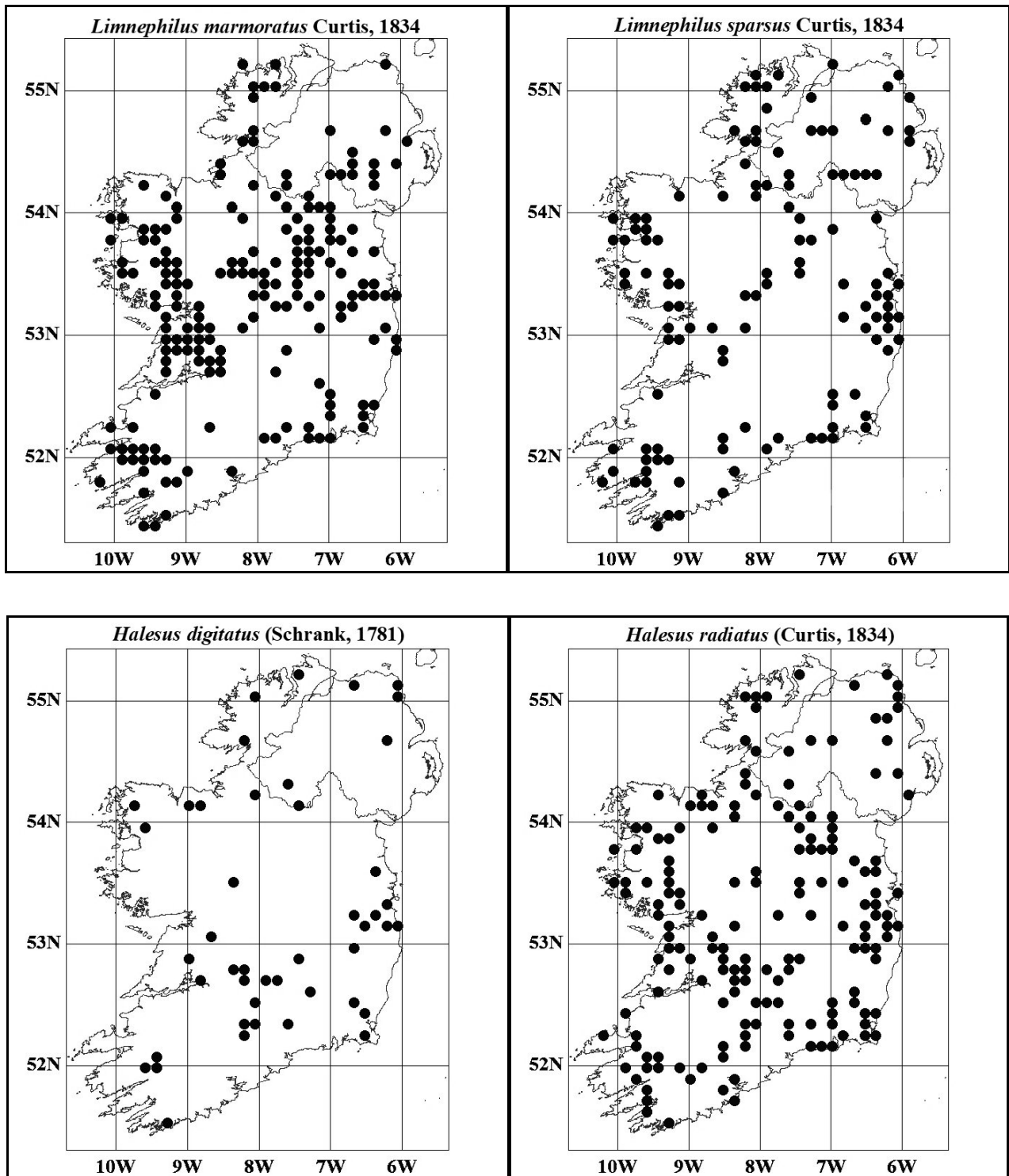
FIGURES 5-8. The known Irish distributions of *Oxyethira flavicornis* (Pictet, 1834), *Tricholeiochiton fagesii* (Guinard, 1879), *Philopotamus montanus* (Donovan, 1813) and *Neureclipsis bimaculata* (Linnaeus, 1758). Significant records are indicated by arrows.



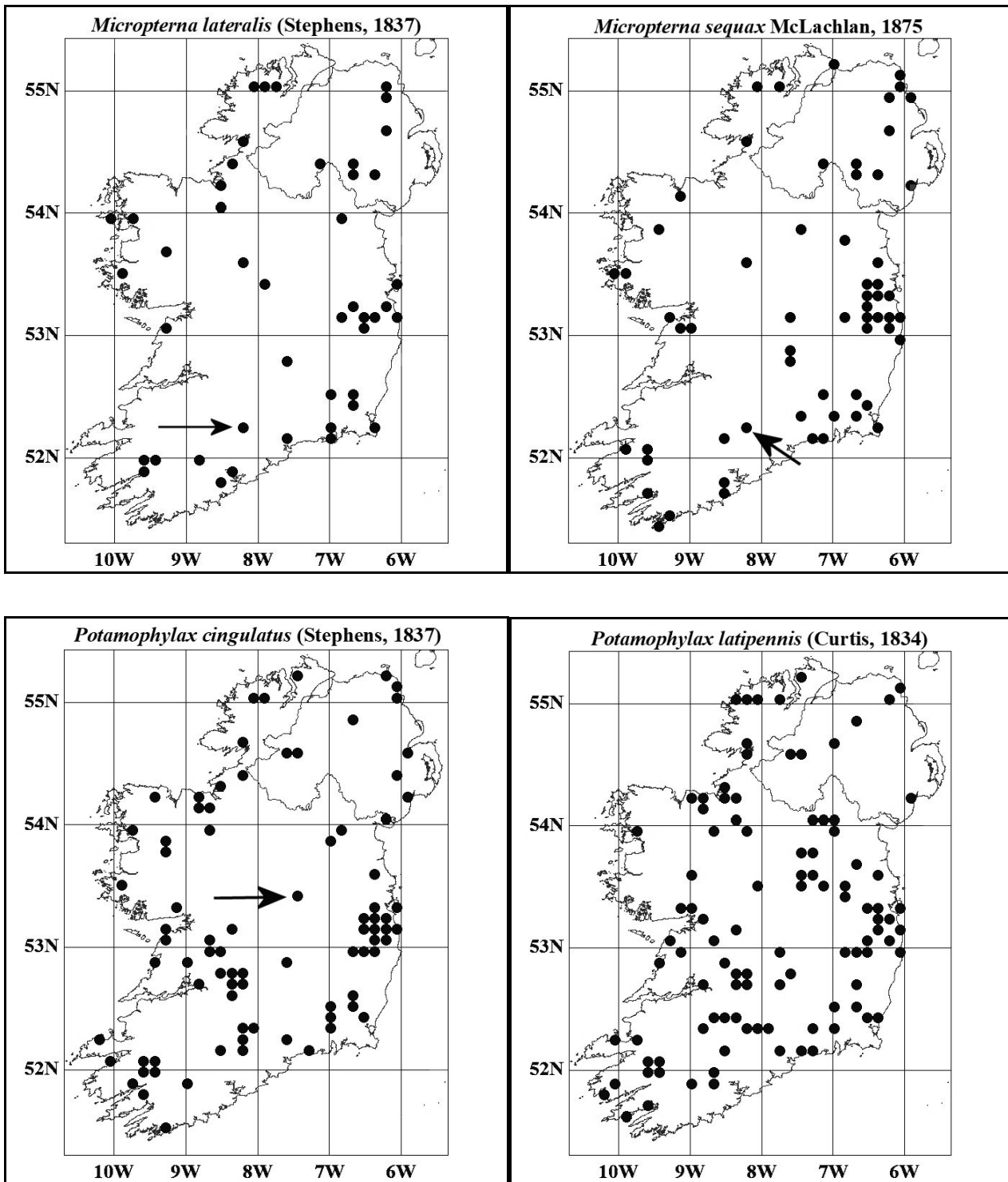
FIGURES 9-12. The known Irish distributions of *Polycentropus irroratus* (Curtis, 1835), *Lype phaeopa* (Stephens, 1836), *Lype reducta* (Hagen, 1868) and *Agrypnia obsoleta* (Hagen, 1864). Significant records are indicated by arrows.



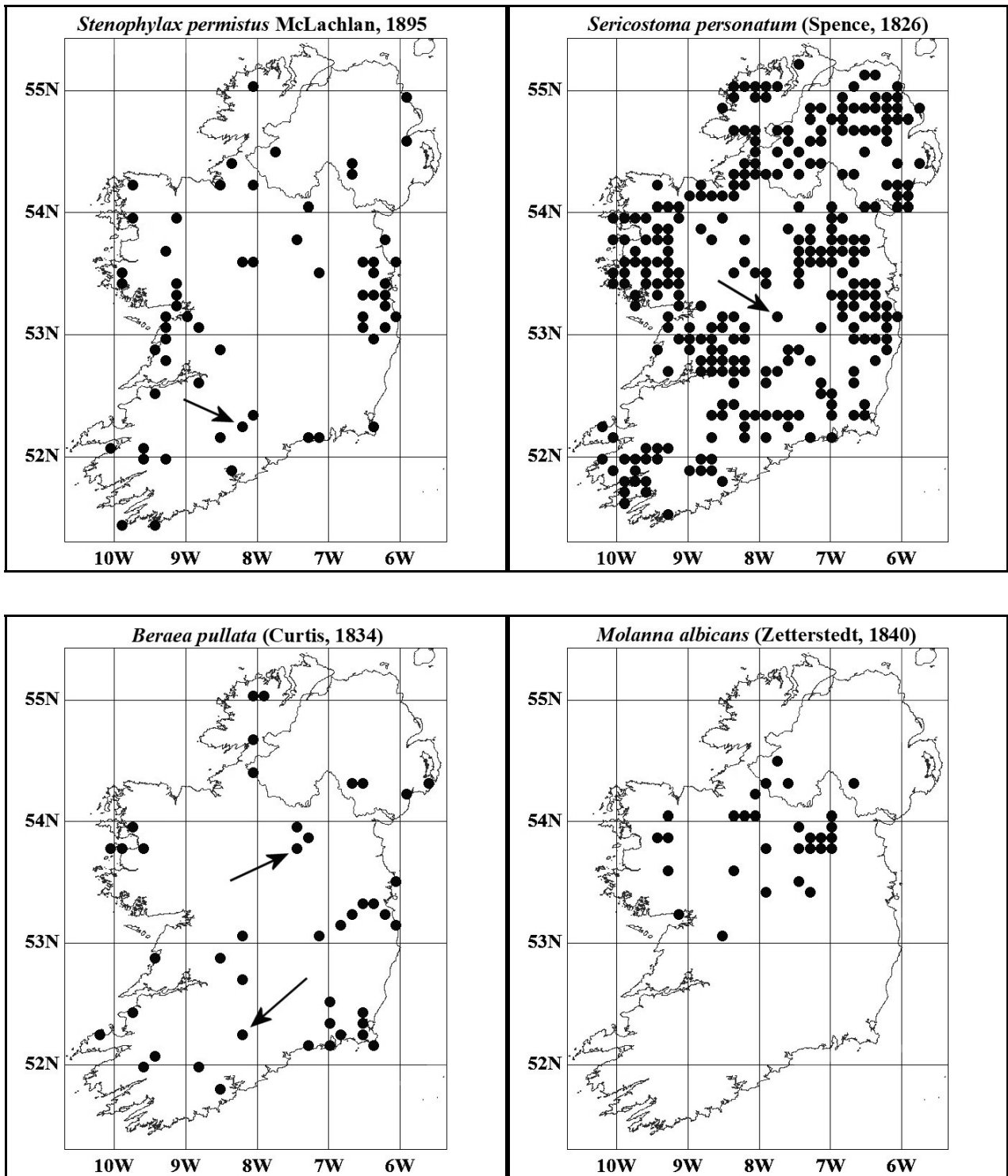
FIGURES 13-16. The known Irish distributions of *Trichostegia minor* (Curtis, 1834), *Limnephilus binotatus* Curtis, 1834, *Limnephilus incisus* Curtis, 1834 and *Limnephilus luridus* Curtis, 1834. Significant records are indicated by arrows.



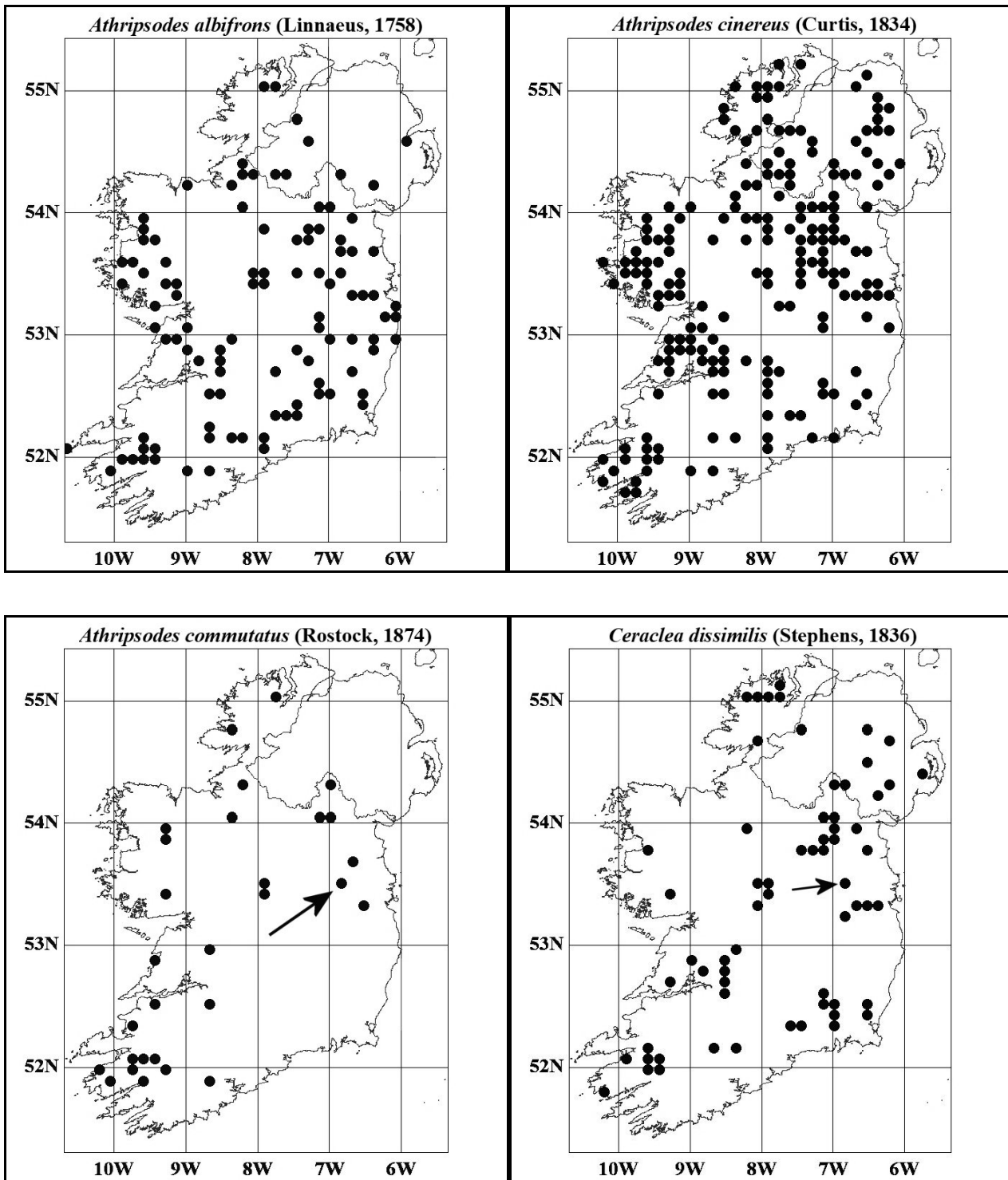
FIGURES 17-20. The known Irish distributions of *Limnephilus marmoratus* Curtis, 1834, *Limnephilus sparsus* Curtis, 1834, *Halesus digitatus* (Schrank, 1781) and *Halesus radiatus* (Curtis, 1834).



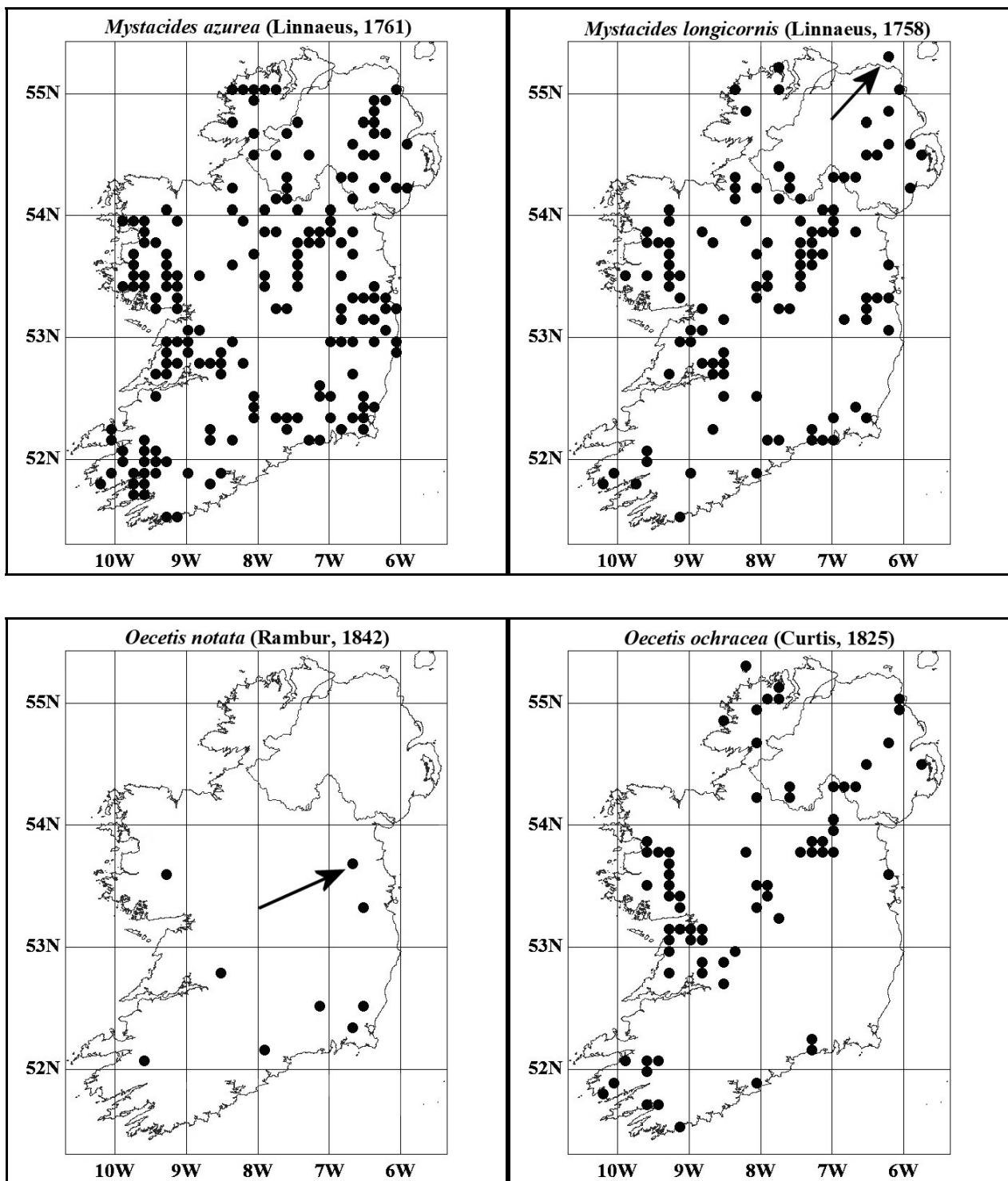
FIGURES 21-24. The known Irish distributions of *Micropterna lateralis* (Stephens, 1837), *Micropterna sequax* McLachlan, 1875, *Potamophylax cingulatus* (Stephens, 1837) and *Potamophylax latipennis* (Curtis, 1834). Significant records are indicated by arrows.



FIGURES 25-28. The known Irish distributions of *Stenophylax permistus* McLachlan, 1895, *Sericostoma personatum* (Spence, 1826), *Beraea pullata* (Curtis, 1834) and *Molanna albicans* (Zetterstedt, 1840). Significant records are indicated by arrows.



FIGURES 29-32. The known Irish distributions of *Athripsodes albifrons* (Linnaeus, 1758), *Athripsodes cinereus* (Curtis, 1834), *Athripsodes commutatus* (Rostock, 1874) and *Ceraclea dissimilis* (Stephens, 1836). Significant records are indicated by arrows.



FIGURES 33-36. The known Irish distribution of *Mystacides azurea* (Linnaeus, 1761), *Mystacides longicornis* (Linnaeus, 1758), *Oecetis notata* (Rambur, 1842) and *Oecetis ochracea* (Curtis, 1825). Significant records are indicated by arrows.



PLATE 1. *Micropterna lateralis*, larva in a small stream, Ballywilliam, County Tipperary, 6 May 2020. Photograph © Sylvia Voss.



PLATE 2. Ballywilliam, County Tipperary, part of the small stream containing the larvae of *Micropterna lateralis*. Photograph © Sylvia Voss.