

A REVIEW OF THE IRISH PLATYGASTRIDS (HYMENOPTERA: PLATYGASTROIDEA, PLATYGASTRIDAE) INCLUDING THEIR KNOWN DISTRIBUTIONS

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Abstract

The Irish platygastroid fauna is reviewed. A total of 139 species are now known from the island. Published records are summarised and new records reported. Information is also provided on flight-periods, ecology and distributions.

Key words: Hymenoptera, Platygastriidae, Platygastriinae, Sceliotrachelinae, Ireland, review, flight-periods, ecology, distributions.

Introduction

The Irish scelionids were reviewed by O'Connor and Notton (2013). They were originally included in their own family (Scelionidae) but were found not to be defined by any unique synapomorphy, with the family being possibly paraphyletic (Austin, Johnson and Dowton, 2005; Murphy *et al.*, 2007). As a result, they were subsequently included in the Platygastriidae by many workers. However in line with some other recent research, Buhl, Broad and Notton (2016) have now again recognised the Scelionidae as a separate family while acknowledging that some basal platygastroid groups previously classified as Scelionidae should be recognised at the family level. As a result, the Irish species in the Platygastriidae (*sensu stricto*) and belonging to the subfamilies Platygastriinae and Sceliotrachelinae, are reviewed in the present paper. These are parasitoid wasps, especially of gall midges. They are mostly very small (1-2mm), black, and weakly shining with elbowed antennae that have a flagellum (at most 8 segments; sometimes fewer, especially in the subfamily Sceliotrachelinae) (Figs 1- 7). The wings of platygastroids most often lack venation, though they may have fringes of setae.

Previous research on the Irish Platygastriidae by Walker (1835, 1838, 1851), Kieffer (1926), Nixon (1937), Masner (1965), Day (1971), Vlug and Graham (1984), Vlug (1995) and O'Connor (2003) was reviewed by O'Connor, Nash, Notton and Fergusson (2004). The most recent Irish checklist was provided by O'Connor, Nash and Broad (2009). In the same year,

Buhl and Notton (2009) published a revised catalogue of the Platygastriidae of the British Isles and it contained some Irish records. Buhl and O'Connor (2010a) added a further eleven species with Buhl and O'Connor (2010b) providing further distributional records along with corrections and additions to the Irish list. Buhl and O'Connor (2011a, b, 2012a, b, c, 2013) reported additional discoveries including a species new to science. The nomenclature here follows Buhl, Broad and Notton (2016) who overlooked several species recorded from Ireland. Synonyms which occur in the literature concerning Irish platygastriids are given.

The present paper reviews what is known about the Irish platygastriids with particular emphasis on their known distributions. Some unpublished records are presented and this material was determined by PB. Irish four figure grid references are given in the text. For the maps, these 1km grid references have been plotted as 10km squares on longitude and latitude using DMAP. The grid references are accurate for specimens collected by the senior author. However, other ones are tentative (given in square brackets) as precise localities were often not given by some collectors but, they do indicate the general area in which the species was taken. The Irish counties are shown (Fig. 8). No localities are known for a few species, except for the island of Ireland and in these instances, maps are not provided. Available data on hosts are included. The months when specimens were collected are also presented under the flight-period. A representative collection of Irish platygastriids has been deposited in the National Museum of Ireland – Natural History, Dublin, Ireland, along with a large number of specimens identified to genus. Their determination has to await the clarification of the identity of many species described by Francis Walker.

The following abbreviations have been used in the text: JPOC – J. P. O'Connor, MAOC – M. A. O'Connor; PB – P. Buhl; sp. – species (singular); spp. – species (plural).

List of the Platygastriidae of Ireland

PLATYGASTRINAE

1. *Acerotella boter* (Walker, 1838) (Fig. 9)

O'Connor et al., 2004 (**DOWN**: Holywood near Belfast (J4079)). *Buhl and Notton*, 2009 (**IRELAND**). *Buhl and O'Connor*, 2010b (**DOWN**: Cultra (J4180)).

New record. WEXFORD: Baginbun (S8003), ♂ 23 May 2012, swept from vegetation on the beach, JPOC.

Flight period: May-June and September.

2. *Acerotella humilis* (Kieffer, 1913) (Fig. 10)

Buhl and O'Connor, 2012b (**WEXFORD**: Ballyteige (S9504), swept from vegetation on the

sand-dunes). *Buhl and O'Connor, 2013* (**CARLOW**: Saint Mullins (S7238), River Barrow, swept from river-bank vegetation).

Flight period: May and August.

In Denmark, the species has been reared from sneezewort *Achillea ptarmica* with *Rhopalomyia palearum* (Kieffer) and other gall midges (Diptera: Cecidomyiidae) (*Ozirhincus millefolii* (Wachtl), a *Contarinia* sp. and a predacious *Lestodiplosis* sp.) (Buhl and Jorgensen, 2010).

3. *Amblyaspis belus* (Walker, 1835) (Fig. 11)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079)). *Buhl and Notton, 2009* (**IRELAND**).

4. *Amblyaspis crates* (Walker, 1835) (Fig. 12)

Buhl and O'Connor, 2011b (**WEXFORD**: Stoneyford near Broadway (T1009), swept from vegetation beside a stream). *Buhl and O'Connor, 2012c* (**WEXFORD**: Ballyteige (S9504), swept from vegetation on the sand-dunes).

Flight period: August.

5. *Amblyaspis nereus* (Walker, 1835) (Fig. 13)

Buhl and O'Connor, 2009b (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland).

Flight period: July.

The hosts are associated with orache *Atriplex* (Vlug, 1995).

6. *Amblyaspis otreus* (Walker, 1835) (Fig. 14)

O'Connor et al., 2004 (**IRELAND**). *Buhl and O'Connor, 2008* (**WICKLOW**: Calary Lower (O2311), swept in a marshy area). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: September.

7. *Amblyaspis prorsa* (Walker, 1835) (Fig. 15)

Buhl and O'Connor, 2010a (**WEXFORD**: Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

Flight period: August.

8. *Amblyaspis roboris* (Haliday, 1835) (Fig. 16)

O'Connor et al., 2004 (**KILDARE**: Castletown (N9734), swept in mixed wood. **TYRONE**: Moy (H8356), mixed woodland. **WESTMEATH**: Pakenham Hall (N4469), mixed woodland).

Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (DUBLIN: Castleknock (O0837), Malaise trap in a suburban garden. **KILKENNY:** Woodstock House, Inistioge (S6336), swept from mixed woodland. **TYRONE:** Moy (H8356), mixed woodland. **WATERFORD:** Belle Lake (S6605), swept from lake-side vegetation; Woodstown (S6904), swept from vegetation in a large marsh. **WEXFORD:** Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Ferrycarrig (T0023), swept in marsh with birch *Betula* and hazel *Corylus*; J. F. Kennedy Park (S7319), mixed woodland; Oaklands Wood (S7125), swept in mixed woodland; Stoneyford near Broadway (T1009), swept from vegetation beside a stream. **WICKLOW:** Glen of the Downs (O2611), swept from mixed woodland). *Buhl and O'Connor, 2012c (CAVAN:* Dun na Rí (N7997), swept in mixed woodland).

New record. KERRY: Killarney (V9796), beside the Cloghereen stream, ♂ 10 September 1981, JPOC.

Flight period: March-September.

9. *Amblyaspis scelionoides* (Haliday, 1835) (Fig. 17)

Synonymy *Platygaster furius* Walker, 1835

O'Connor et al., 2004 (CARLOW: Cloughristick Wood (S7069), mixed woodland. **CAVAN:** Virginia (N5987), mixed woodland. **CORK:** Glengarriff (V9256), swept in oak *Quercus* woodland. **KILKENNY:** Clonassy Wood (S5622), mixed woodland). *Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (KERRY:* Killarney (V9786), beside the Cloghereen stream. **WEXFORD:** Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Stoneyford near Broadway (T1009), Malaise trap and swept from vegetation beside a stream. **WICKLOW:** Coolattin Wood, Tomnafinnoge (T0269), oak *Quercus* woodland). *Buhl and O'Connor, 2012c (WICKLOW:* Powerscourt (O2012), swept in mixed woodland).

New records. CARLOW: Bahana Woods (S7239), ♀ 14 June 1991, swept in mixed woodland, JPOC and MAOC. **KILKENNY:** Woodstock House, Inistioge (S6336), 2♂♂ 2 August 2008, swept in mixed woodland, JPOC. **WEXFORD:** Slieve Coiltia (S7221), ♀ 24 May 2012, swept from vegetation near the 270m summit, JPOC.

Flight period: May-October.

10. *Amblyaspis tritici* (Walker, 1835) (Fig. 18)

O'Connor et al., 2004 (CAVAN: Virginia (N5987), mixed woodland. **DUBLIN:** Malahide Castle (O2253), mixed woodland. **WATERFORD:** Portlaw (S4415), mixed woodland). *Buhl*

and Notton, 2009 (**IRELAND**). Buhl and O'Connor, 2010b (**WICKLOW**: Coolattin Wood, Tomnafinnoge (T0269), oak *Quercus* woodland).

New record. **CAVAN**: Lough Sheelin (N4686), Woodlawn, ♂ 12 September 1991, swept from lake-side vegetation, JPOC.

Flight period: July and September-October.

The hosts are associated with grasses Gramineae and willow *Salix* (Vlug, 1995).

11. *Anopodias lacustris* Kieffer, 1926

O'Connor et al., 2004 (**IRELAND**). Buhl and Notton, 2009 (**IRELAND**).

The species is associated with sedges *Carex* (Vlug, 1995).

12. *Ceratacis cochleata* (Walker, 1835) (Fig. 19)

Synonymy *Platygaster filicornis* Haliday, 1835

O'Connor et al., 2004 as *Platygaster filicornis* (**DOWN**: Holywood (J4079)). Buhl and O'Connor, 2008 (**KILKENNY**: Woodstock House, Inistioge (S6336), mixed woodland. **WEXFORD**: Fethard (S7806), swept from vegetation beside the river). Buhl and Notton, 2009 (**IRELAND**). Buhl and O'Connor, 2010b (**WATERFORD**: Ballin Lough (S4403), swept from lake-side vegetation).

Flight period: June-July.

13. *Ceratacis flavipes* Thomson, 1859 (Fig. 20)

Buhl and O'Connor, 2009b (**CLARE**: Lough Bunny (R3696), swept from limestone pavement beside the lake).

Flight period: May.

14. *Ceratacis laricis* (Haliday, 1835) (Fig. 21)

O'Connor et al., 2004 as *Platygaster* (**IRELAND**). Buhl and Notton, 2009 (**KILDARE**: Royal Canal [Collinstown House (N9836)]. **SLIGO**: Bunduff (G7155)).

Flight period: July-August

15. *Euxestonotus clavicornis* Buhl, 1995 (Fig. 22)

Buhl and O'Connor, 2009b (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).

Flight period: August.

The Irish record was overlooked by Buhl, Broad and Notton (2016).

16. *Euxestonotus error* (Fitch, 1861) (Fig. 23)

Buhl and O'Connor, 2008 (**KILKENNY**: Woodstock House, Inistioge (S6336), mixed woodland). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**CORK**: Glengarriff (V9157), swept in the oak *Quercus* woodland. **WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland).

Flight period: July.

A parasitoid of the gall midges (Diptera: Cecidomyiidae) *Sitodiplosis mosellana* (Géhin) on wheat *Triticum vulgare* and *Perrisia leguminicola*/*Rhabdophaga* on willows *Salix* (Vlug, 1995).

17. *Euxestonotus hasselbalchi* Buhl, 1995 (Fig. 24)

Buhl and O'Connor, 2008 (**CORK**: Glengarriff (V9057), swept in oak *Quercus* woodland). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**WICKLOW**: Powerscourt (O2012), swept from vegetation beside the waterfall).

Flight period: June-July.

18. *Inostemma boscii* (Jurine, 1807) (Fig. 25)

Buhl and O'Connor, 2009a (**CLARE**: Fanore (M1308), swept from sand-dunes). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden).

Flight period: May and August-September.

A parasitoid of a wide range of gall midges (Diptera: Cecidomyiidae) including *Contarinia pisi* (Winnertz) on pea *Pisum*, *Dasyneura brassicae* Winnertz on cabbage *Brassica* and *Dasyneura pyri* Bouché on pear *Pyrus* (Vlug, 1995).

19. *Inostemma curtum* Szelényi, 1938 (Fig. 26)

O'Connor et al., 2004 (**WEXFORD**: Nethertown (T1204), swept from willows *Salix* in a marsh). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: June.

20. *Inostemma favo* Walker, 1838 (Fig. 27)

O'Connor et al., 2004 (**DOWN**: Holywood near Belfast (J4079)). *Buhl and Notton, 2009* (**IRELAND**).

21. *Inostemma frivaldszkyi* Szelényi, 1938 (Fig. 28)

Buhl and O'Connor, 2011b (**CLARE**: Burren, Corker Pass (M3010), swept from vegetation on limestone).

Flight period: May.

22. *Inostemma hispo* Walker, 1838 (Fig. 29)

Walker, 1838 (DOWN: Holywood near Belfast (J4079)). O'Connor et al., 2004 (These authors considered *I. hispo* to be a nomen dubium). *Buhl and Notton, 2009 (IRELAND).*

23. *Inostemma hyperici* Debauché, 1947

O'Connor et al., 2004 (IRELAND). Buhl and Notton, 2009 (IRELAND).

24. *Inostemma melicerta* Walker, 1835 (Fig. 30)

Buhl and O'Connor, 2009a (CLARE: Burren, near Corker Pass (M3010), swept from vegetation on limestone). Buhl and Notton, 2009 (IRELAND).

Flight period: May.

A parasitoid of the gall midges (Diptera: Cecidomyiidae) *Contarinia floriperda* Rübsaamen in the flowers of mountain ash *Sorbus aucuparia* and *Contarinia hypochoeridis* (Rübsaamen) in the flowers of catsear *Hypochoeris radicata*

25. *Inostemma spinulosum* Kieffer, 1916 (Fig. 31)

*O'Connor et al., 2004 (CARLOW: Saint Mullins (S7238), River Barrow, swept from river-bank vegetation. KILKENNY: Woodstock House, Inistioge (S6336) [mistakenly given as County Waterford in O'Connor et al. (2004)], mixed woodland. WATERFORD: Ballin Lough (S4403), lakeside vegetation; Passage East (S6811), swept from vegetation beside a hill-top path. WEXFORD: Curracloe (T1127), swept from an alder *Alnus* marsh. WICKLOW: Mount Usher, Ashford (T2796), ornamental gardens). Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2012c (WEXFORD: Slieve Coiltia (S7221), swept from vegetation near the 270m summit).*

Flight period: May-July.

A parasitoid of the gall midges *Lasioptera rubi* Heeger (Diptera: Cecidomyiidae) on *Rubus* (blackberries etc.) (Vlug, 1995).

26. *Inostemma walkeri* Kieffer, 1914 (Fig. 32)

synonymy *Inostemma boscii* (Jurine, 1807) misidentification

O'Connor et al., 2004 (IRELAND). Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (WEXFORD: Oaklands Wood (S7125), swept in mixed woodland).

Flight period: July.

Haliday found the species on cereals *Cerealia* (Walker, 1851). A parasitoid of gall midges (Diptera: Cecidomyiidae) belonging to *Jaapiella medicaginis* Rübsaamen on lucerne *Medicago sativa* and *Rhabdophaga heterobia* (Loew) (Vlug, 1995). The latter gall midge occurs on willow *Salix*.

27. *Iphitrachelus lar* Haliday, 1835 (Fig. 33)

O'Connor et al., 2004 (near **BELFAST** [J3674]). *Buhl and Notton*, 2009 (**DOWN**: Newcastle, Tipperary Wood (J3631)). *Buhl and O'Connor*, 2010b (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland).

Flight period: July and September.

The host is unknown but the species has been collected on dense stands of periwinkle *Vinca minor* (Vlug, 1995).

28. *Isocybus erato* (Walker, 1835)

O'Connor et al., 2004 (**IRELAND**). *Buhl and Notton*, 2009 (**IRELAND**).

29. *Isocybus walkeri* Kieffer, 1926

Synonymy *Scelio ruficornis* Latreille, 1805 *sensu* Walker, 1835

O'Connor et al., 2004 (**IRELAND**, on grass beneath trees, in marshes). *Buhl and Notton*, 2009 (**IRELAND**).

Flight period: July.

30. *Isostasius punctiger* (Nees, 1834) (Fig. 34)

Synonymy *Inostemma scrutator* (Walker, 1835)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079)). *Buhl and Notton*, 2009 (**CORK**: Middleton (W8772), reared from *Contarinia tritici*. **DUBLIN**: Dublin [Glasnevin (O1538)], reared from *C. tritici*. No precise locality is given for this record in Buhl and Notton (2009). The specimens emerged in 1952 and are in the H. F. Barnes Collection in the Natural History Museum, London. In that period, Dr E. McMahon (1954) was investigating the hatching of the eggs of the lemon blossom midge in the laboratory at the Agricultural Zoology Department of University College Dublin and was in contact with Barnes. In 1926 the Faculty of Agriculture, University College Dublin had moved to the site of the Albert Agricultural College in Glasnevin which had a farm of over 359 acres (145ha). Undoubtedly, this farm was where the material of *I. punctiger* originated).

Flight period: June.

The species was rarely found on cereals by A. H. Haliday (Walker, 1835). A parasitoid of the gall midges (Diptera: Cecidomyiidae) *Contarinia tritici* Kirby on oats *Avena* and wheat *Triticum vulgare*, and *Sitodiplosis mosellana* (Géhin) on *T. vulgare* (Vlug, 1995).

31. *Leptacis coryphe* Buhl, 1998 (Fig. 35)

Buhl and Notton, 2009 (**DONEGAL**: one mile south of Donegal Town (G9278)).

Flight period: June.

32. *Leptacis halia* (Walker, 1835) (Fig. 36)

Buhl and O'Connor, 2010a (**WATERFORD**: Woodstown (S6904), swept from vegetation in a large marsh).

Flight Period: August.

33. *Leptacis laodice* (Walker, 1835) (Fig. 37)

synonymy *Leptacis buchi* Buhl, 1997

O'Connor et al., 2004 (**CORK**: Glengarriff (V9256), swept in an oak *Quercus* wood.

WATERFORD: Portlaw Woods (S4415), swept from vegetation in oak *Quercus* woodland.

WEXFORD: Tintern Abbey (S7910), mixed woodland beside a river. **WICKLOW**: Glen of the Downs (O2611), mixed woodland).

Buhl and O'Connor, 2008 (**CARLOW**: Altamont Gardens (S8665), mixed woodland beside the River Slaney).

Buhl and Notton, 2009 (**IRELAND**). *Buhl and O'Connor, 2012c* (**CARLOW**: Saint Mullins (S7238), River Barrow, swept from river-bank vegetation).

Buhl and O'Connor, 2010b (**WEXFORD**: Ferrycarrig (T0023), swept in a marsh with birch *Betula* and hazel *Corylus*; Killoughrim Forest (S8941), swept in mixed woodland; Oaklands Wood (S7125), swept in mixed woodland; Stoneyford near Broadway (T1009), Malaise trap sited in vegetation beside a stream).

New record. **WICKLOW**: Glendalough (T1195), 3♂♂ 11 September 1990, swept from vegetation beside woodland, JPOC.

Flight period: March, May-September.

34. *Leptacis orchymonti* (Debauche, 1947) (Fig. 38)

Buhl and O'Connor, 2009a (**WATERFORD**: Glasha River (S3022), swept from river-side vegetation). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: July.

35. *Leptacis ozines* (Walker, 1835) (Fig. 39)

O'Connor et al., 2004 (**WEXFORD**: Ferrycarrig (T0022), swept in a marsh with birch *Betula* and hazel *Corylus*). *Buhl and Notton*, 2009 (**KILDARE**: Royal Canal (O0036). The date for this record should read 1943 and not 1973). *Buhl and O'Connor*, 2010b (**DUBLIN**: Castleknock (O0837), Malaise trap in suburban garden. **WEXFORD**: Stoneyford near Broadway (T1009), Malaise trap and swept from vegetation beside a stream). *Buhl and O'Connor*, 2012c (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Stoneyford near Broadway (T1009), swept from vegetation beside a stream [a different year to in the previous reference]).

New record. **WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland, ♀ 29 July 2008, JPOC.

Flight period: June-August.

36. *Leptacis tipulae* (Kirby, 1798) (Fig. 40)

Synonymy *Platygaster scutellaris* Nees, 1834

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), on cereals and on willows *Salix*. **WEXFORD**: Killoughrim Forest (S8941), swept in mixed woodland). *Buhl and Notton*, 2009 (**IRELAND**). *Buhl and O'Connor*, 2010b (**DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden. **WATERFORD**: Ballin Lough (S4403), swept from lake-side vegetation; Dunhill Castle (S5000)).

New record. **WEXFORD**: Curracloe (T1127), ♀ 30 July 2008, swept from the sand-dunes, JPOC.

Flight period: June-September.

A parasitoid of the gall midges (Diptera: Cecidomyiidae) *Sitodiplosis mosellana* and *Contarinia tritici* on wheat *Triticum vulgare* (Vlug, 1995).

37. *Leptacis vlugi* Buhl, 1997 (Fig. 41)

Buhl and O'Connor, 2010a (**WEXFORD**: Stoneyford near Broadway (T1009), swept from vegetation beside a stream; Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).

New record. **WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland, ♀ 4 August 2008, JPOC.

Flight period: August.

38. *Metaclisis areolata* (Haliday, 1835) (Fig. 42)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), in drains on the seacoast). *Buhl and Notton, 2009* (**IRELAND**).

39. *Metaclisis montagnei* Maneval, 1936 (Fig. 43)

Buhl and Notton, 2009 (**SLIGO**: Bunduff (G7155)).

Flight period: July.

40. *Piestopleura catillus* (Walker, 1835) (Fig. 44)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), under the shade of trees. **GALWAY**: Galway (M2925), under the shade of trees). *Buhl and Notton, 2009* (**IRELAND**).

A parasitoid of the gall midge *Thomasiniana theobaldi* Barnes (Diptera: Cecidomyiidae) on raspberry (Vlug, 1995).

41. *Piestopleura mamertes* (Walker, 1835) (Fig. 45)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), on willows *Salix*). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: September.

42. *Piestopleura seron* (Walker, 1835)

O'Connor et al., 2004 (**IRELAND**). *Buhl and Notton, 2009* (**IRELAND**).

43. *Platygaster (Platygaster) abisares* Walker, 1835

O'Connor et al., 2004 (**IRELAND**). *Buhl and Notton, 2009* (**IRELAND**).

44. *Platygaster (Platygaster) acrisius* Walker, 1835 (Fig. 46)

Buhl and O'Connor, 2009a (**WEXFORD**: Killoughrim (S8941), swept in mixed woodland). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: June.

45. *Platygaster (Platygaster) aebeloeensis* Buhl, 2001 (Fig. 47)

Buhl and O'Connor, 2009a (**WATERFORD**: Knockaderry (S4905), swept from vegetation beside the reservoir). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**WICKLOW**: Russellstown Park (N9610), swept from vegetation in a marshy area).

Flight period: May and July.

46. *Platygaster (Platygaster) aegeus* Walker, 1835 (Fig. 48)

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (SLIGO: Trawalua (G6954)). *Buhl and O'Connor*, 2010b (WEXFORD: Craywell New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Oaklands Wood (S7125), swept in mixed woodland. WICKLOW: Coolattin Wood, Tomnafinnoge (T0269), oak *Quercus* woodland). *Buhl and O'Connor*, 2012c (WEXFORD: Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

Flight period: July-September.

47. *Platygaster (Platygaster) ashei* Buhl and O'Connor, 2012 (Figs 1, 2, 49)

Buhl and O'Connor, 2012a (WEXFORD: Slieve Coiltia near New Ross (S7319), swept from vegetation near the 270m summit).

Flight period: August.

48. *Platygaster (Platygaster) athamas* Walker, 1835 (Fig. 50)

Buhl and O'Connor, 2010a (WEXFORD: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Curracloe (T1127), swept from the sand-dunes).

Flight period: August.

A parasitoid of the gall midges (Diptera: Cecidomyiidae) *Bayeria capitigena* (Bremi) on leafy spurge *Euphorbia esula* and *Rhabdophaga terminalis* Loew on white willow *Salix alba* (Vlug, 1995).

49. *Platygaster (Platygaster) betulae* (Kieffer, 1916) (Fig. 51)

Buhl and O'Connor, 2009a (WESTMEATH: Ballynafid Lough (N4060), mixed woodland beside the lake). *Buhl and Notton*, 2009 (DUBLIN: Glenasmole (O1019)).

Flight period: April-May.

A parasitoid of gall midges (Diptera: Cecidomyiidae) belonging to *Semudobia betulae* (Winnertz) in fruit swellings on silver birch *Betula alba* and downy birch *B. pubescens* (Vlug, 1995).

50. *Platygaster (Platygaster) betularia* Kieffer, 1916 (Fig. 52)

Buhl and O'Connor, 2010a (MONAGHAN: Lough Muckno Forest Park, Castleblayney (H8320), swept from lake-side vegetation).

Flight period: April.

A parasitoid of gall midges (Diptera: Cecidomyiidae) belonging to *Semudobia betulae* in fruit swellings on silver birch *Betula alba* and downy birch *B. pubescens* (Vlug, 1995).

51. *Platygaster (Platygaster) chloropus* Thomson, 1859 (Fig. 53)

Buhl and O'Connor, 2009a (CLARE: Burren, Ballyvelaghan Lough (M2711). WEXFORD: Killoughrim (S8941), mixed woodland). *Buhl and Notton, 2009* (DUBLIN: Glenasmole (O1019)). *Buhl and O'Connor, 2010b* (DUBLIN: Castleknock (O0837), Malaise trap in a suburban garden). *Buhl and O'Connor, 2012c* (WEXFORD: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).
Flight period: April-June, August.

52. *Platygaster (Platygaster) confinis* Thomson, 1859 (Fig. 54)

Buhl and O'Connor, 2009a (CLARE: Burren, Corker Pass (M3010), swept from vegetation on limestone). *Buhl and Notton, 2009* (IRELAND).
Flight period: May.

53. *Platygaster (Platygaster) contorticornis* Ratzeburg, 1844 (Fig. 55)

O'Connor, 2008 (MONAGHAN: Black Island, Muckno Forest Park, Castleblayney (H8320), reared from the cones of Norway spruce *Picea abies*). *Buhl and Notton, 2009* (IRELAND).
Flight period: March.

A parasitoid of the gall midge *Kaltenbachiola strobi* Winnertz (Diptera: Cecidomyiidae) on *Picea* spp. (Vlug, 1995).

54. *Platygaster (Platygaster) cottei* Kieffer, 1913 (Fig. 56)

O'Connor et al., 2004 (WICKLOW: Russellstown Park (N9610), mixed woodland beside the reservoir). *Buhl and Notton, 2009* (IRELAND).
Flight period: August.

A parasitoid of the gall midge *Lasioptera carophila* F. Löw (Diptera: Cecidomyiidae) in stem galls on wild carrot *Daucus carota* (Vlug, 1995).

55. *Platygaster (Platygaster) cyrsilus* Walker, 1835 (Fig. 57)

O'Connor et al., 2004 (IRELAND). *Buhl and O'Connor, 2008* (WATERFORD: Portlaw Woods (S4415), swept in oak *Quercus* woodland). *Buhl and Notton, 2009* (IRELAND). *Buhl and O'Connor, 2010b* (CAVAN: Virginia Woods (N5987), swept in mixed woodland). WICKLOW: Glendalough (T1195), swept from vegetation beside woodland).
Flight period: April-May and September.

56. *Platygaster (Platygaster) damokles* Buhl, 1998 (Fig. 58)

Buhl and O'Connor, 2013 (WEXFORD: Slieve Coiltia near New Ross (S7319), swept from vegetation near the 270m summit).

Flight period: May.

The Irish record was overlooked by Buhl, Broad and Notton (2016).

57. *Platygaster (Platygaster) danica* Buhl, 1999 (Fig. 59)

Buhl and O'Connor, 2008 (WICKLOW: Knocksink Wood (O2117), swept in mixed woodland). Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (DUBLIN: Clondalkin (O0631), Malaise trap in a suburban garden).

Flight period: May-June.

58. *Platygaster (Platygaster) demades* Walker, 1835 (Fig. 60)

Buhl and O'Connor, 2010a (MONAGHAN: Lough Muckno Forest Park, Castleblayney (H8320), swept from lake-side vegetation. WATERFORD: Woodstown (S6904), swept from vegetation in a large marsh). Buhl and O'Connor, 2012c (WATERFORD: Dunmore East (X6999), swept from the coastal cliffs at Black Knob. WEXFORD: Ballyteige (S9504), swept from vegetation on the sand-dunes; Curracloe (T1127), swept from the sand-dunes).

Flight period: April, August.

A parasitoid of gall midges (Diptera: Cecidomyiidae) belonging to *Dasyneura mali* Kieffer on apple *Malus* spp. and *Wachtliella ericina* F. Löw on winter heath *Erica carnea* (Vlug, 1995).

59. *Platygaster (Platygaster) dryope* Walker, 1835 (Fig. 61)

O'Connor et al., 2004 (IRELAND). Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (WEXFORD: Slieve Coiltia (S7221), swept from grass tussocks near the 270m summit).

Flight period: August.

60. *Platygaster (Platygaster) elongata* Haliday, 1833 (Fig. 62)

*O'Connor et al., 2004 (IRELAND). Buhl and O'Connor, 2008 (CLARE: near Ennis (R2979), swept in mixed woodland mainly consisting of hazel *Corylus*). Buhl and O'Connor, 2010b (WICKLOW: Russellstown Park (N9610), swept from vegetation in a marshy area).*

Flight period: May.

61. *Platygaster (Platygaster) ennius* Walker, 1835 (Fig. 63)

O'Connor et al., 2004 (IRELAND). Buhl and Notton, 2009 (LEITRIM [This specimen is

in the Natural History Museum, London and was collected by G. E. J. Nixon during July 1933. At that time, Nixon collected in the Tullaghan area (G7857)].

Flight period: July.

62. *Platygaster (Platygaster) ensifer* (Westwood, 1833)

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (IRELAND).

63. *Platygaster (Platygaster) eriphyle* Walker, 1835 (Fig. 64)

Buhl and O'Connor, 2008 (WEXFORD: The Raven (T1126), swept amongst conifers growing on the sand-dunes). *Buhl and Notton*, 2009 (IRELAND). *Buhl and O'Connor*, 2010b (CARLOW: Saint Mullins (S7238), swept from vegetation on the banks of the River Barrow. WATERFORD: Ballin Lough (S4403), swept from lake-side vegetation).

New record. WEXFORD: Curracloe (T1127), ♀ 28 May, 1987, swept from the sand-dunes, JPOC.

Flight period: April-June.

A parasitoid of gall midges (Diptera: Cecidomyiidae) belonging to *Rhopalomyia* in bud galls on *Artemisia* (Buhl, 2001).

64. *Platygaster (Platygaster) euhemerus* Walker, 1835 (Fig. 65)

Buhl and O'Connor, 2009a (WEXFORD: Killoughrim (S8941), mixed woodland). *Buhl and Notton*, 2009 (IRELAND).

Flight period: May.

65. *Platygaster (Platygaster) floricola* Kieffer, 1916 (Fig. 66)

Buhl and Notton, 2009 (DUBLIN: Clondalkin (O0731)).

Flight period: June.

A parasitoid of gall midges *Dasyneura* (Diptera: Cecidomyiidae) in flower swellings on radish *Raphanus* (Buhl, 2001).

66. *Platygaster (Platygaster) frater* Buhl, 2006 (Fig. 67)

Buhl and O'Connor, 2009a (CARLOW: Saint Mullins (S7238), River Barrow, swept from river-bank vegetation). *Buhl and Notton*, 2009 (IRELAND).

Flight period: June.

67. *Platygaster (Platygaster) galenus* Walker, 1835 (Fig. 68)

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (SLIGO: Bunduff (G7155)).

Flight period: July.

A parasitoid of gall midges (Diptera: Cecidomyiidae) in galls on *Halimione* (Buhl, 2001).

68. *Platygaster (Platygaster) gracilipes* Huggert, 1975 (Fig. 69)

Buhl and O'Connor, 2008 (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland).

Buhl and Notton, 2009 (**DUBLIN**: Glenasmole (O1019). **SLIGO**: Trawalua (G6954)). *Buhl and*

O'Connor, 2010b (**DOWN**: Cultra (J4180). **TYRONE**: Moy (H8356), mixed woodland).

New record. WEXFORD: Stoneyford near Broadway (T1009), 3♀♀ 12-21 August 1993, Malaise trap sited in vegetation beside a stream, JPOC.

Flight period: June- August.

69. *Platygaster (Platygaster) gyge* Walker, 1835 (Fig. 70)

O'Connor et al., 2004 (**IRELAND**). *Buhl and O'Connor, 2008* (**CLARE**: Cooleabeg (M1602), swept from damaged blanket bog in the Burren). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: May.

The host may be associated with *Carex* spp. (Vlug, 1995).

70. *Platygaster (Platygaster) henkvlugi* Buhl, 1996 (Fig. 71)

Buhl and O'Connor, 2008 (**CLARE**: Cooleabeg (M1602), swept from damaged blanket bog in the Burren). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2012c* (**WEXFORD**: Ballyteige (S9504), swept from vegetation on the sand-dunes; Slieve Coiltia (S7221), swept from vegetation near the 270m summit).

New record. WEXFORD: Craywell, New Ross (S7228), ♀ 17 May 2012, swept from an overgrown area in a small public park on a steep hill, JPOC.

Flight period: May, July-August.

71. *Platygaster (Platygaster) hibernica* Buhl and O'Connor, 2009 (Figs 3, 72)

Buhl and O'Connor, 2009a (**CLARE**: Burren, Corker Pass (M3010), swept from vegetation on limestone. **WEXFORD**: Curracloe (T1127), swept from the sand-dunes). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: May.

72. *Platygaster (Platygaster) inermis* Walker, 1835 (Fig. 73)

O'Connor et al., 2004 (**IRELAND**). *Buhl and O'Connor, 2008* (**CLARE**: near Ennis (R2979), swept in mixed woodland mainly consisting of hazel *Corylus*). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**WICKLOW**: Russellstown Park (N9610), swept

from vegetation in a marshy area). *Buhl and O'Connor, 2012c* (**WEXFORD**: Baginbun (S8003), swept from vegetation on the beach; Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Curracloe (T1127), swept from the sand-dunes).

Flight period: May, August.

73. *Platygaster (Platygaster) intermediana* Buhl, 2009 (Fig. 74)

Synonymy *Platygaster intermedia* Buhl, 2009 preoccupied

Buhl and O'Connor, 2008 (**CLARE**: Fanore (M1308), swept from the sand-dunes). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: August.

74. *Platygaster (Platygaster) leptines* Walker, 1835 (Fig. 75)

Buhl and O'Connor, 2012b (**CAVAN**: Dun na Rí (N7997), swept in mixed woodland).

Flight period: April.

75. *Platygaster (Platygaster) lineaticeps* Buhl, 1994 (Fig. 76)

Buhl and Notton, 2009 (**LEITRIM** [(G7857)]. **SLIGO**: Trawalua (G6954)).

Flight period: July.

76. *Platygaster (Platygaster) longestriolata* Thomson, 1859 (Fig. 77)

Buhl and O'Connor, 2008 (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland).

Buhl and Notton, 2009 (**IRELAND**). *Buhl and O'Connor, 2010b* (**WICKLOW**: Avondale (T1985), mixed woodland).

New records. **WEXFORD**: Slieve Coiltia (S7221), ♀ 14 August 2009, swept from vegetation near the 270m summit, JPOC. **WICKLOW**: Calary Lower (O2311), ♀ 22 August 1988, swept in a marshy area, JPOC.

Flight period: April-May, August.

77. *Platygaster (Platygaster) lysicles* Walker, 1835 (Fig. 78)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079)). *Buhl and Notton, 2009* (**TIPPERARY**: Aherlow (R9332); Ballinacourty (R8529). **WICKLOW**: Athdown (O0715)). *Buhl and O'Connor, 2010b* (**CORK**: Sheep's Head (V7334), swept from sea-shore vegetation. **DUBLIN**: Slade of Saggart (O0324), swept from vegetation on the river bank. **WATERFORD**: Mahon Falls (S3009), swept on mountain moorland).

Flight period: July-September.

78. *Platygaster (Platygaster) malpighii* Kieffer, 1916 (Fig. 79)

Synonymy *Platygaster hansenii* Buhl, 2006

Buhl and O'Connor, 2008 as *Platygaster hansenii* (**WEXFORD**: Ferrycarrig (T0022), swept in marshland with mixed birch *Betula* and hazel *Corylus*; The Raven (T1126), swept amongst conifers growing on the sand-dunes). *Buhl and Notton, 2009* as *P. hansenii* (**DUBLIN**: Glenasmole (O1019)). *Buhl and O'Connor, 2010b* (**CLARE**: Kilshanny (R1292), swept from the hedgerows).

Flight period: June.

A parasitoid of the gall midge *Craneiobia corni* Girault (Diptera: Cecidomyiidae) in leaf galls on common dogwood *Cornus sanguinea* (Vlug, 1995).

79. *Platygaster (Platygaster) manto* Walker, 1835 (Fig. 80)

O'Connor et al., 2004 (**IRELAND**). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2013* (**WEXFORD**: New Ross, Craywell (S7228), swept from an overgrown area in a small public park on a steep hill).

Flight period: August.

A parasitoid of the gall midge *Paradiplosis abietis* (Hubault) in the needles of *Abies* (Vlug, 1995; Buhl, 2001).

80. *Platygaster (Platygaster) marginata* Thomson, 1859 (Fig. 81)

Buhl and O'Connor, 2008 (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**WESTMEATH**: Ballynafid Lough (N4060), swept from lake-side vegetation).

New record. WEXFORD: Killoughrim Forest (S8941), ♀ 4 June 1987, swept in mixed woodland, JPOC.

Flight period: May-June.

81. *Platygaster (Platygaster) masneri* Huggert, 1975 (Fig. 82)

Buhl and O'Connor, 2008 (**CORK**: Glengarriff (V9256), swept in oak *Quercus* woodland). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: June.

82. *Platygaster (Platygaster) munita* Walker, 1835 (Fig. 83)

Buhl and O'Connor, 2010a (**MEATH**: Batterjohn Big (N8953), sand quarry).

Flight period: May.

83. *Platygaster (Platygaster) nashi* Buhl and O'Connor, 2011 (Fig. 84)

Buhl and O'Connor, 2012c (**WEXFORD**: Ballyteige (S9504), swept from vegetation on the sand-dunes).

Flight period: August.

The Irish record was overlooked by Buhl, Broad and Notton (2016).

84. *Platygaster (Platygaster) nigra* Nees, 1834

O'Connor et al., 2004 (**IRELAND**). *Buhl and Notton, 2009* (**IRELAND**).

A parasitoid of gall midges *Wachtiella* (Diptera: Cecidomyiidae) in leaf margin rolls on *Polygonum* (Buhl, 2001).

85. *Platygaster (Platygaster) nisus* Walker, 1835 (Fig. 85)

O'Connor et al., 2004 (**WICKLOW**: Calary Lower (O2311), swept in a marshy area). *Buhl and O'Connor, 2008* (**CORK**: Glengarriff (V9057), swept in oak *Quercus* woodland). *Buhl and Notton, 2009* (**SLIGO**: Trawalua (G6954)). *Buhl and O'Connor, 2010b* (**DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden). *Buhl and O'Connor, 2012c* (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Curracloe (T1127), swept from the sand-dunes; Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

New record. WATERFORD: Portlaw woods (S4415), ♀ 16 July 1987, swept in oak *Quercus* woodland, JPOC and MAOC.

Flight period: June-August.

86. *Platygaster (Platygaster) oebalus* Walker, 1835 (Fig. 86)

Buhl and O'Connor, 2009a (**CLARE**: Burren, Ballyvelaghan Lough (M2711), collected from lake-side vegetation; Burren, Corkscrew Hill (M2020), swept from vegetation on the limestone. **DOWN**: Cultra (J4180)). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**WEXFORD**: Curracloe (T1127), swept from the vegetation on the sand-dunes. **WICKLOW**: Russellstown Park (N9610), swept from vegetation in a marshy area). *Buhl and O'Connor, 2012c* (**WEXFORD**: Slieve Coiltia (S7221), swept from vegetation near the 270m summit).
Flight period: May-August.

A parasitoid of the gall midge *Dasyneura brassicae* (Winnertz) (Diptera: Cecidomyiidae) in siliqua swellings on *Brassica* (Vlug, 1995; Buhl, 2001). Ghahari and Buhl (2011) report *Dasyneura spadicea* (Rübsaamen) on vetch *Vicia cracca* as a host.

87. *Platygaster (Platygaster) oeclus* Walker, 1835

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (IRELAND).

88. *Platygaster (Platygaster) orcus* Walker, 1835 (Fig. 87)

Buhl and O'Connor, 2009a (WICKLOW: Avondale (T1985), mixed woodland). *Buhl and Notton*, 2009 (IRELAND). *Buhl and O'Connor*, 2010b (KILDARE: Newbridge Fen (N7616), swept from vegetation in the fen).

Flight period: April-May.

89. *Platygaster (Platygaster) orus* Walker, 1835

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (IRELAND).

90. *Platygaster (Platygaster) oscus* Walker, 1835 (Fig. 88)

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (IRELAND). *Buhl and O'Connor*, 2010b (WICKLOW: Glendalough (T1195), swept from vegetation beside woodland). *Buhl and O'Connor*, 2012c (WEXFORD: Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

Flight period: August-September.

91. *Platygaster (Platygaster) otanes* Walker, 1835 (Fig. 89)

O'Connor et al., 2004 (IRELAND). *Buhl and Notton*, 2009 (KILDARE: Royal Canal, Rye Water (O0036)). *Buhl and O'Connor*, 2010b (CAVAN: Virginia (N5888), swept in alder *Alnus* fen. DUBLIN: North Bull Island (O2337), swept from vegetation on the sand-dunes).

Flight period: May.

92. *Platygaster (Platygaster) pedasus* Walker, 1835 (Fig. 90)

Buhl and O'Connor, 2009a (WATERFORD: Knockaderry (S4905), swept from vegetation beside the reservoir. WEXFORD: Ballyteige (S9504), swept from sand-dunes; J. F. Kennedy Park (S7319), mixed woodland. *Buhl and Notton*, 2009 (IRELAND).

Flight period: July-August.

93. *Platygaster (Platygaster) pelias* Walker, 1835 (Fig. 91)

O'Connor et al., 2004 (IRELAND, on willows *Salix*). *Buhl and O'Connor*, 2008 (WATERFORD: Passage East (S6811), swept from vegetation beside a hill-top path). *Buhl and Notton*, 2009 (IRELAND). *Buhl and O'Connor*, 2010b (CARLOW: Saint Mullins

(S7238), swept from vegetation on the banks of the River Barrow. **DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden).

Flight period: April-June, August.

The species has been reared from *Dasyneura fraxini* (Bremi) (Diptera: Cecidomyiidae) on ash *Fraxinus* (Buhl and Bennett, 2009) and cecidomyiid larvae on hawthorn *Crataegus monogyna* (Buhl and Bennett, 2011).

94. *Platygaster (Platygaster) philinna* Walker, 1835 (Fig. 92)

Buhl and Notton, 2009 (WICKLOW: Clara (T1792)).

Flight period: June.

A parasitoid of gall midges *Dasyneura* (Diptera: Cecidomyiidae) in the stems of willows *Salix* (Buhl, 2001).

95. *Platygaster (Platygaster) puccinii* Vlug, 1995 (Fig. 93)

*Buhl and O'Connor, 2008 (WEXFORD: Nethertown (T1205), swept from willows *Salix* in a marsh). Buhl and Notton, 2009 (IRELAND).*

Flight period: June.

96. *Platygaster (Platygaster) quadriceps* Buhl, 2006 (Fig. 94)

Buhl and O'Connor, 2010a (DUBLIN: Castleknock (O0837), Malaise trap in a suburban garden).

Flight period: April-May.

97. *Platygaster (Platygaster) sagana* Walker, 1835 (Fig. 95)

*O'Connor et al., 2004 (WEXFORD: Curracloe (T1127), swept from the sand-dunes). Buhl and O'Connor, 2008 (CORK: Glengarriff (V9057), swept in oak *Quercus* woodland. WATERFORD: Passage East (S6811), swept from vegetation beside a hill-top path). Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (GALWAY: Dunguaire, Kinvara (M3810), swept from vegetation on the seashore). Buhl and O'Connor, 2012c (WEXFORD: Ballyteige (S9504), swept from vegetation on the sand-dunes).*

New records. WATERFORD: Ballin Lough (S4403), 2♀♀ 18 June 1990, swept from lake-side vegetation, JPOC; Ballymacaw Cove (X6499), 3♀♀ 3 July 1984, swept from vegetation along a small stream entering the sea, JPOC.

Flight period: June-August.

A parasitoid of gall midges *Rhopalomyia* (Diptera: Cecidomyiidae) in flower swellings on *Achillea* (Buhl, 2001).

98. *Platygaster (Platygaster) signata* (Förster, 1861) (Fig. 96)

Buhl and O'Connor, 2009a (**MEATH**: Mornington (O1575), swept from sand-dunes). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: June.

99. *Platygaster (Platygaster) singularis* Buhl, 2006 (Fig. 97)

Buhl and O'Connor, 2009a (**CLARE**: Burren, Corkscrew Hill (M2020), swept from vegetation on the limestone). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: May.

100. *Platygaster (Platygaster) splendidula* Ruthe, 1859 (Fig. 98)

Buhl and O'Connor, 2008 (**KILDARE**: Grand Canal (N9326), swept from canal-side vegetation). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**DOWN**: Cultra (J4180). **DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden. **WEXFORD**: Ballyteige (S9504), ♀♀ 13 August 2009, swept from the sand-dunes).

New records. **WATERFORD**: Dunmore East (X6999), ♀ 11 August 2010, swept from the coastal cliffs at Black Knob, JPOC. **WEXFORD**: Slieve Coiltia near New Ross (S7319), ♀ 7 August 2010, swept from vegetation near the 270m summit, JPOC.

Flight period: May-August.

A parasitoid of gall midges *Mayetiola* (Diptera: Cecidomyiidae) in the stem (culm) galls on *Poa* (Buhl, 2001).

101. *Platygaster (Platygaster) striatithorax* Buhl, 1994 (Fig. 99)

Buhl and O'Connor, 2009b (**WEXFORD**: Killoughrim Forest (S8941), swept in mixed woodland).

Flight period: June.

The Irish record was overlooked by Buhl, Broad and Notton (2016).

102. *Platygaster (Platygaster) subapicalis* Buhl, 2006 (Fig. 100)

Buhl and O'Connor, 2009a (**MEATH**: Mornington (O1575), swept from sand-dunes). *Buhl and Notton, 2009* (**IRELAND**).

On the Isle of Man, adults have been reared from *Contarinia* (Diptera: Cecidomyiidae) larvae in the flower buds of common laurel *Prunus laurocerasus* (Buhl and Bennett, 2009).

Flight period: June.

103. *Platygaster (Platygaster) subuliformis* (Kieffer, 1926) (Fig. 101)

Buhl and O'Connor, 2009a (**MEATH**: Batterjohn Big (N8953), old gravel-pit. **WATERFORD**: Dunmore East (X6999), coastal cliffs at Black Knob). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: May and August.

104. *Platygaster (Platygaster) suecica* (Kieffer, 1926) (Fig. 102)

Buhl and O'Connor, 2008 (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: June.

A parasitoid of gall midges *Lasioptera* (Diptera: Cecidomyiidae) in stem swellings on *Foeniculum* (Buhl, 2001).

105. *Platygaster (Platygaster) tisia* Walker, 1835 (Fig. 103)

O'Connor et al., 2004 (**CAVAN**: Virginia (N5987), mixed woodland). *Buhl and O'Connor, 2008* (**WATERFORD**: Passage East (S6811), swept from vegetation beside a hill-top path. **WEXFORD**: Ballyteige (S9504), swept from vegetation on the sand-dunes; Curracloe (T1127), swept from the sand-dunes; J. F. Kennedy Park (S7319), mixed woodland; Killoughrim Forest (S9041), swept in mixed woodland with oak *Quercus*). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**CARLOW**: Bahana Woods (S7239), swept in mixed woodland. **CLARE**: Fanore (M1308), swept from vegetation on the sand-dunes; Lisdoonvarna Spa (R1397), swept from vegetation beside the river. **DOWN**: Cultra (J4180)).

New records. **WATERFORD**: Ballin Lough (S4403), ♀ 4 July 1989, 2♀♀ 18 June 1990 and ♀ 19 June 1991, swept from lake-side vegetation, JPOC; Dunhill (S5304), 5♀♀ 29 June 1988, swept from a hedgerow, JPOC; Dunhill Castle (S5000), ♀ 11 July 1989, JPOC and MAOC; Glasha River (S3022), ♀ 8 July 1989, swept from river-side vegetation JPOC and MAOC. **WEXFORD**: Backstrand, Rosslare (T0918), ♀ 5 June 1994, swept from marshy ground, JPOC; Nethertown (T1204), 11♀♀ 4 June 1984, swept from willows *Salix* in a marsh, JPOC.

Flight period: May-July.

The species is associated with cocksfoot *Dactylis glomerata* (Buhl and Jørgensen, 2011).

106. *Platygaster (Platygaster) uniformis* Buhl, 2006 (Fig. 104)

Buhl and O'Connor, 2011b (**WEXFORD**: Slieve Coiltia near New Ross (S7319), swept from vegetation near the 270m summit).

Flight period: August.

107. *Platygaster (Platygaster) virgo* Day, 1971 (Fig. 105)

O'Connor et al., 2004 (**WICKLOW**: The Murrough (O3103), fen at). *Buhl and Notton*, 2009 (**IRELAND**).

Flight period: May.

A parasitoid of gall midges (Diptera: Cecidomyiidae) belonging to *Giraudiella* in stem galls on *Phragmites* (Buhl, 2001).

108. *Platygaster (Platygaster) xeneus* Walker, 1838 (Fig. 106)

O'Connor et al., 2004 (**DOWN**: Holywood near Belfast (J4079)). *Buhl and Notton*, 2009 (**SLIGO**: Trawalua (G6954)).

Flight period: July and September.

109. *Synopeas aceris* Buhl and Bennett, 2009 (Fig. 107)

Buhl and O'Connor, 2013 (**MONAGHAN**: Rossmore Park (H6531), swept under flowering sycamores *Acer pseudoplatanus*. **WEXFORD**: J. F. Kennedy Park (S7219), swept under flowering sycamores in mixed woodland; Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

Irish specimens were also reared from the flowers of sycamores. On the Isle of Man, adults were reared from *Dasyneura* (Diptera: Cecidomyiidae) larvae in sycamore flowers (Buhl and Bennett, 2009).

Flight period: April-May, August.

The Irish record was overlooked by Buhl, Broad and Notton (2016).

110. *Synopeas breve* Buhl, 1998 (Fig. 108)

O'Connor et al., 2004 (**TYRONE**: Moy (H8356), mixed woodland). *Buhl and Notton*, 2009 (**IRELAND**)). *Buhl and O'Connor*, 2010b (**DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden). *Buhl and O'Connor*, 2012c (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).

Flight period: April-May, July-August.

111. *Synopeas chica* Buhl, 2004 (Fig. 109)

Buhl and O'Connor, 2012b (**WEXFORD**: Slieve Coiltia (S7221), swept from grass tussocks near the 270m summit).

Flight period: August.

112. *Synopeas ciliatum* Thomson, 1859 (Fig. 110)

Buhl and O'Connor, 2008 (**CORK**: Glengarriff (V9057), swept in oak *Quercus* woodland. **KILDARE**: Newbridge Fen (N7616), swept from fen vegetation). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**WEXFORD**: Baginbun Head (S8002), swept from vegetation on a rocky sea-shore; Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Curracloe (T1127), swept from the sand-dunes; Stoneyford near Broadway (T1009), swept from vegetation beside a stream. **WICKLOW**: Coolattin Wood, Tomnafinnoge (T0269), oak *Quercus* woodland).
Flight period: July-September.

113. *Synopeas convexum* Thomson, 1859 (Fig. 111)

Buhl and O'Connor, 2010a (**WEXFORD**: Curracloe (T1127), swept from the sand-dunes. **WATERFORD**: Woodstown (S6904), swept from vegetation in a large marsh).
Flight period: August.

114. *Synopeas craterus* (Walker, 1835) (Fig. 112)

Synonymy *Synopeas mamertes* Kieffer, 1926

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), found on willows *Salix*). *Buhl and Notton, 2009* (**IRELAND**).

A known parasitoid of the blackcurrant midge *Resseliella ribis* (Marikovskij) (Diptera: Cecidomyiidae) (Vlug, 1995).

Flight period: September.

115. *Synopeas curvicauda* (Förster, 1856) (Fig. 113)

Buhl and O'Connor, 2009b (**WEXFORD**: Oaklands Wood (S7125), swept in mixed woodland). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2012c* (**CARLOW**: Saint Mullins (S7238), River Barrow, swept from river-bank vegetation).

A parasitoid of *Asphondylia conglomerata* Stefani (Diptera: Cecidomyiidae) on Mediterranean saltbush *Atriplex halimus* (Vlug, 1995). The Irish hosts are unknown.

Flight period: July-August.

116. *Synopeas erinum* Buhl and O'Connor, 2011 (Figs 4, 114)

Buhl and O'Connor 2011a (**WEXFORD**: Stoneyford near Broadway (T1009), Malaise trap in an overgrown area set aside as a wildlife sanctuary). *Buhl and O'Connor 2011b* (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).

The date of publication of the description is incorrectly cited as 2010 in Buhl, Broad and Notton (2016).

Flight period: August.

117. *Synopeas euryale* (Walker, 1835) (Fig. 115)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079)). *Buhl and Notton*, 2009 (**IRELAND**). *Buhl and O'Connor*, 2010b (**DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden. **WEXFORD**: Curracloe (T1127), swept from vegetation on the sand-dunes; Duncannon (S7308), swept from vegetation on the sand-dunes). *Buhl and O'Connor*, 2012c (**WEXFORD**: Baginbun (S8003), swept from vegetation on the beach; Ballyteige (S9504), swept from vegetation on the sand dunes; Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).

Flight period: June-August.

118. *Synopeas gibberosum* Buhl, 1997 (Fig. 116)

Buhl and O'Connor, 2008 (**CAVAN**: Woodlawn, Lough Sheelin (N4686), swept from vegetation beside the lake). *Buhl and Notton*, 2009 (**IRELAND**).

Flight period: September.

119. *Synopeas hibernicum* Buhl and O'Connor, 2009 (Figs 5, 117)

Buhl and O'Connor, 2009a (**CLARE**: Burren, Corker Pass (M3010), swept from vegetation on limestone; Lough Bunney (R3796), swept from limestone pavement beside the lake). *Buhl and Notton*, 2009 (**IRELAND**).

Flight period: May.

120. *Synopeas hyllus* (Walker, 1835) (Fig. 118)

O'Connor et al., 2004 (**IRELAND**). *Buhl and O'Connor*, 2008 (**CLARE**: Fanore (M1303), swept from the sand-dunes. **WEXFORD**: Ballyteige (S9504), swept from the sand-dunes). *Buhl and Notton*, 2009 (**IRELAND**).

Flight period: July.

121. *Synopeas inerme* Thomson, 1859 (Fig. 119)

Buhl and O'Connor, 2010a (**WEXFORD**: Ballyteige (S9504), swept from the sand-dunes). *Buhl and O'Connor*, 2012c (**WEXFORD**: Baginbun (S8003), swept from vegetation on the beach; Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Curracloe (T1127), swept from the sand-dunes).

New record. WEXFORD: Stoneyford near Broadway (T1009), ♀ 17 August 2010, swept from vegetation beside a stream, JPOC.

Flight period: August.

A parasitoid of the gall midge *Contarinia medicaginis* Kieffer (Diptera: Cecidomyiidae) on lucerne (Vlug, 1995).

122. *Synopeas jasius* (Walker, 1835) (Fig. 120)

O'Connor et al., 2004 (KILKENNY: Clonassy Wood (S5622)). *Buhl and O'Connor, 2008 (WEXFORD:* Killoughrim Forest (S9041), swept in mixed woodland with oak *Quercus*). *Buhl and Notton, 2009 (DUBLIN:* Bushy Park [O1429]).

Flight period: June and December.

123. *Synopeas larides* (Walker, 1835) (Fig. 121)

O'Connor et al., 2004 (TYRONE: Knockmany Forest (H5455)). *Buhl and O'Connor, 2008 (WICKLOW:* Powerscourt (O2012)). *Buhl and Notton, 2009 (IRELAND).* *Buhl and O'Connor, 2010b (WATERFORD:* Portlaw woods (S4415), swept in oak *Quercus* woodland. **WICKLOW:** Coolattin Wood, Tomnafinnoge (T0269), oak *Quercus* woodland).

Flight period: April-June, September.

A parasitoid of *Dasyneura tetensi* (Rübsaamen) on black currant *Ribes nigrum* (Buhl and Jørgensen, 2011).

124. *Synopeas lugubre* Thomson, 1859 (Fig. 122)

Buhl and O'Connor, 2009a (WEXFORD: Oaklands Wood (S7125), swept in mixed woodland). *Buhl and Notton, 2009 (IRELAND).*

Flight period: July.

Dasyneura brassicae (Winnertz) (Diptera: Cecidomyiidae) on *Brassica* sp. may be a host (Vlug, 1995).

125. *Synopeas myles* (Walker, 1835) (Fig. 123)

O'Connor et al., 2004 (DOWN: Holywood (J4079)). *Buhl and Notton, 2009 (IRELAND).*

A parasitoid of the gall midge *Dasyneura marginemtorquens* (Bremi) (Diptera: Cecidomyiidae) on willow *Salix* (Vlug, 1995).

126. *Synopeas noyesi* Buhl, 2009 (Fig. 124)

Buhl, 2009 (GALWAY: Dunguaire, Kinvara). *Buhl and O'Connor, 2009a (GALWAY:* Dunguaire, Kinvara (M3810), swept from vegetation on the seashore). *Buhl and Notton, 2009*

(**IRELAND**). *Buhl and O'Connor, 2010a* (**WEXFORD**: Curracloe (T1127), swept from the sand-dunes). *Buhl and O'Connor, 2010b* (**KERRY**: Hotel Europa (V9291), Killarney, swept in mixed woodland beside the Lower Lake). *Buhl and O'Connor, 2012c* (**WEXFORD**: Curracloe (T1127), swept from the sand dunes. This paper describes the hitherto unknown male).

New record. **WEXFORD**: Craywell, New Ross (S7228), ♀ 9-10 August 2010, swept from an overgrown area in a small public park on a steep hill, JPOC.

Flight period: May-June and August.

127. *Synopeas opacum* Thomson, 1859 (Fig. 125)

Buhl and O'Connor, 2009a (**WATERFORD**: Ballin Lough (S4403), swept from lake-side vegetation). *Buhl and Notton, 2009* (**IRELAND**).

Flight period: June.

128. *Synopeas osaces* (Walker, 1835) (Fig. 126)

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), on willows *Salix*). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden).

Flight period: August-September.

129. *Synopeas rhanis* (Walker, 1835) (Fig. 127)

Synonymy *Platygaster acco* Walker, 1835

O'Connor et al., 2004 (**IRELAND**). *Buhl and Notton, 2009* (**IRELAND**). *Buhl and O'Connor, 2010b* (**CORK**: Glengarriff (V9157), swept in oak *Quercus* woodland. **WATERFORD**: Dunmore East (X6999), swept from the coastal cliffs at Black Knob; Woodstown (S6904), swept from vegetation in a large marsh. **WEXFORD**: Ballyteige (S9504), swept from the sand-dunes; Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill; Curracloe (T1127), swept from vegetation on the sand-dunes). *Buhl and O'Connor, 2012c* (**MONAGHAN**: Rossmore Park (H6531), swept from vegetation along a stream. **WEXFORD**: Ballyteige (S9504), swept from vegetation on the sand dunes; Curracloe (T1127), swept from the sand-dunes on a different date to that above).

New record. **CARLOW**: Saint Mullins (S7238), 3♀♀ 27 August 2012, swept from vegetation on the banks of the River Barrow, JPOC.

Flight period: April, July-August.

A parasitoid of the gall midges (Diptera: Cecidomyiidae) *Dasyneura ulmaria* (Bremi) on meadowsweet *Filipendula ulmaria* and *Dasyneura urticae* (Perris) on nettles *Urtica dioica* and *U. urens* (Vlug, 1995).

130. *Synopeas sosis* (Walker, 1835) (Fig. 128)

Synonymy *Synopeas muticum*: misidentification

O'Connor et al., 2004 (**DOWN**: Holywood (J4079), on willows *Salix*). *Buhl and O'Connor*, 2008 (**MEATH**: Kilmessan (N8857), vegetation in laneway). *Buhl and O'Connor*, 2008 misidentified as *Synopeas muticum* (**TYRONE**: Moy (H8356), collected in a Malaise trap in mixed woodland. **WATERFORD**: Portlaw Woods (S4415), swept in oak *Quercus* woodland). *Buhl and Notton*, 2009 (**IRELAND**). *Buhl and O'Connor*, 2010b (**CARLOW**: Altamont Gardens (S8665), mixed woodland beside the River Slaney; Saint Mullins (S7238), swept from vegetation on the banks of the River Barrow. **DUBLIN**: Castleknock (O0837), Malaise trap in a suburban garden. **MONAGHAN**: Lough Muckno Forest Park, Castleblayney (H8320), swept from lake-side vegetation. **WATERFORD**: Portlaw woods (S4415), swept in oak *Quercus* woodland). *Buhl and O'Connor*, 2010b as *Synopeas muticus* (**CAVAN**: Virginia Woods (N5987), swept in mixed woodland. **MONAGHAN**: Nuremore (H8502), mixed woodland beside lake. **WEXFORD**: Killoughrim Forest (S8941), mixed woodland). *Buhl and O'Connor*, 2012c (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill).

New records. **WEXFORD**: J. F. Kennedy Park (S7319), ♀ 19 May 2012, swept under flowering sycamores in mixed woodland, JPOC; Slieve Coiltia (S7221), ♀ 24 May 2012, swept from grass tussocks near the 270m summit, JPOC.

Flight period: April-June, August.

On the Isle of Man, adults have been recorded as *Synopeas muticus* in oak *Quercus* foliage infested with *Contarinia quercina* (Rübsaamen) (Diptera: Cecidomyiidae) (Buhl and Bennett, 2009).

131. *Synopeas tarsa* (Walker, 1835) (Fig. 129)

Buhl and O'Connor, 2009b (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill). *Buhl and O'Connor*, 2010a (**WEXFORD**: Craywell, New Ross (S7228), swept from an overgrown area in a small public park on a steep hill. This paper describes the hitherto unknown male).

Flight period: August.

132. *Synopeas trebium* (Walker, 1835) (Fig. 130)

Buhl and O'Connor, 2009a (**TYRONE**: Moy (H8356), on common laurel *Prunus laurocerasus*. **WICKLOW**: Glen of the Downs (O2611), mixed woodland). *Buhl and Notton*, 2009 (**IRELAND**). *Buhl and O'Connor*, 2010b (**WEXFORD**: Craywell, New Ross (S7228), swept

from an overgrown area in a small public park on a steep hill; Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

New record. WEXFORD: Slieve Coiltia (S7221), 3♂♂♀ 23 August 2012, swept from grass tussocks near the 270m summit, JPOC.

Flight period: July-August.

133. *Synopeas velutinum* (Walker, 1835) (Fig. 131)

Buhl and O'Connor, 2011b (WEXFORD: Stoneyford near Broadway (T1009), swept from vegetation beside a stream).

Flight period: August.

134. *Trichacis didas* (Walker, 1835) (Fig. 132)

Buhl and O'Connor, 2010a (DUBLIN: Castleknock (O0837), Malaise trap in a suburban garden).

Flight period: April-May.

A parasitoid of the gall midge *Mayetioa destructor* Say (Diptera: Cecidomyiidae) on *Triticum* sp. (Vlug, 1995).

135. *Trichacis pisis* (Walker, 1835) (Fig. 133)

O'Connor et al., 2004 (IRELAND). Buhl and Notton, 2009 (IRELAND). Buhl and O'Connor, 2010b (CLARE: Corker Pass (M3010), Burren, swept from vegetation on limestone beside the green road).

Flight period: May.

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136. *Allotropa europus* (Walker, 1838) (Fig. 134)

O'Connor et al., 2004 (DOWN: Holywood near Belfast (J4079)). *Buhl and Notton, 2009 (IRELAND).*

137. *Allotropa mecrida* (Walker, 1835) (Fig. 135)

Buhl and O'Connor, 2012b (WEXFORD: Slieve Coiltia (S7221), swept from grass tussocks near the 270m summit).

Flight period: August.

The species is known from a number of pseudococcid (Hemiptera) hosts (Vlug, 1995).

138. *Fidiobia hispanica* Popovici and Buhl, 2010 (Fig. 136)

Synonymy *Fidiobia synergorum* (Kieffer, 1921) misidentification

O'Connor et al., 2004 as *Fidiobia synergorum* (**WICKLOW**: Powerscourt Waterfall (O2012), reared from cola nut galls of *Andricus lignicola* (Hartig) (Hymenoptera: Cynipidae) collected on oak *Quercus* trees). *Buhl and Notton*, 2009 as *F. synergorum* (**IRELAND**). *Popovici and Buhl*, 2010 (**WICKLOW**: Powerscourt Waterfall). *Buhl and O'Connor*, 2013 (**WEXFORD**: Slieve Coiltia near New Ross (S7319), swept from vegetation near the 270m summit. Stunted oaks *Quercus* occurred nearby).

Flight period: April-May.

139. *Platystasius transversus* (Thomson, 1859) (Fig. 137)

Synonymy *Platystasius strangaliophagus* Nixon, 1937

O'Connor et al., 2004 (**CORK**: Glengarriff (V9057), bred from the eggs of the longhorn beetle *Leptura aurulenta* Fabricius (Coleoptera: Cerambycidae). *Buhl and Notton*, 2009 (**IRELAND**).

Flight period: July.

The species is known to attack the eggs of *Leptura aurulenta* (Vlug, 1995).

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FIGURE 1. *Platygaster ashei* Buhl and O'Connor (Platygastrinae). Dorsal view of female.

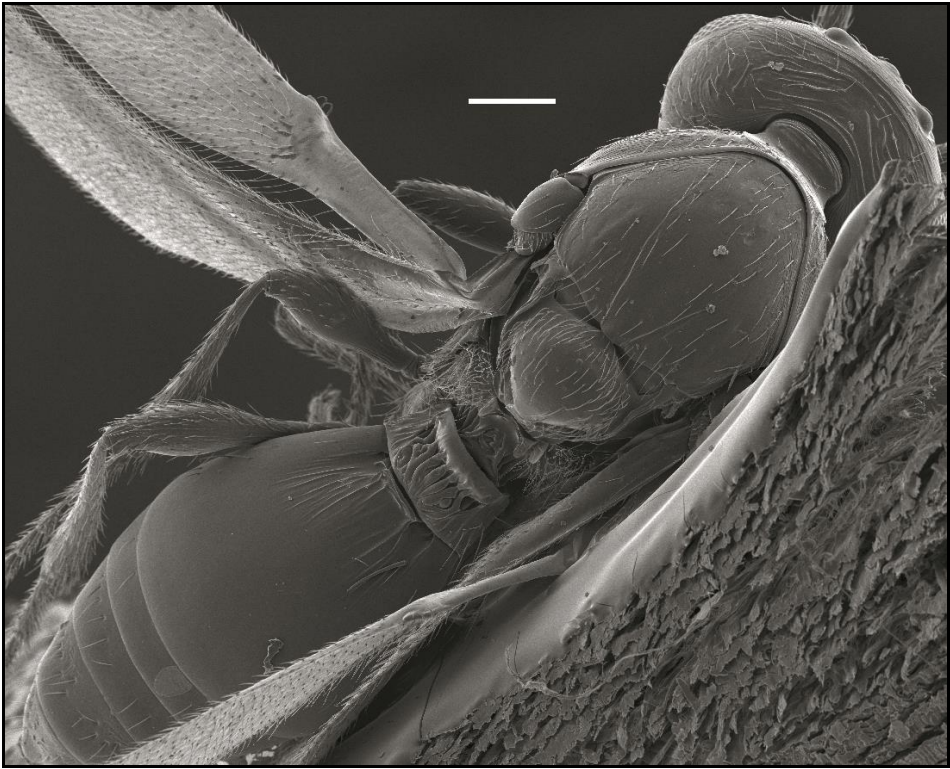


FIGURE 2. *Platygaster ashei* Buhl and O'Connor (Platygastrinae). Lateral view of female.



FIGURE 3. *Platygaster hibernica* Buhl and O'Connor, 2009 (Platygastrinae).

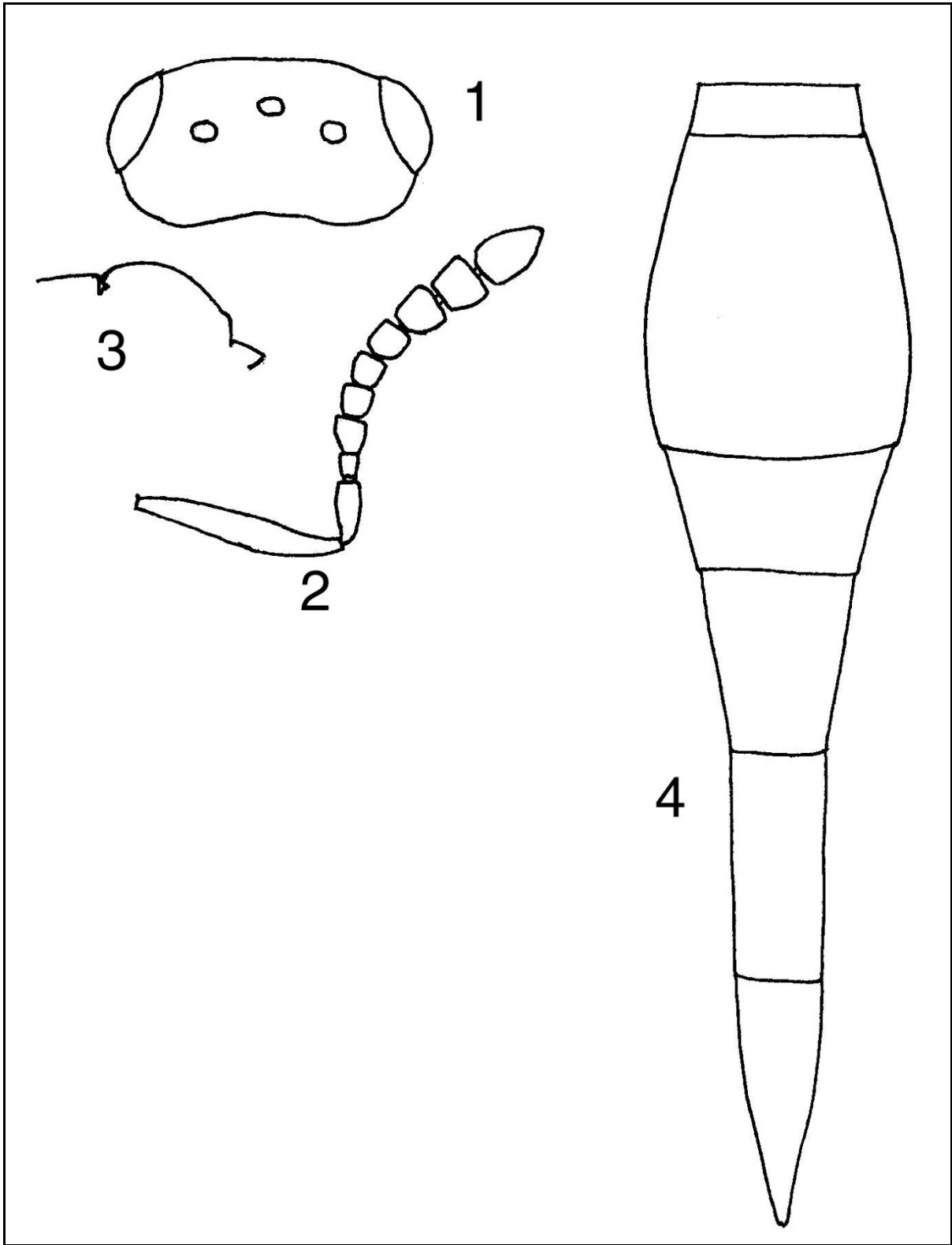


FIGURE 4. *Synopeas erinum* Buhl and O'Connor, 2011 (Platygastrinae).

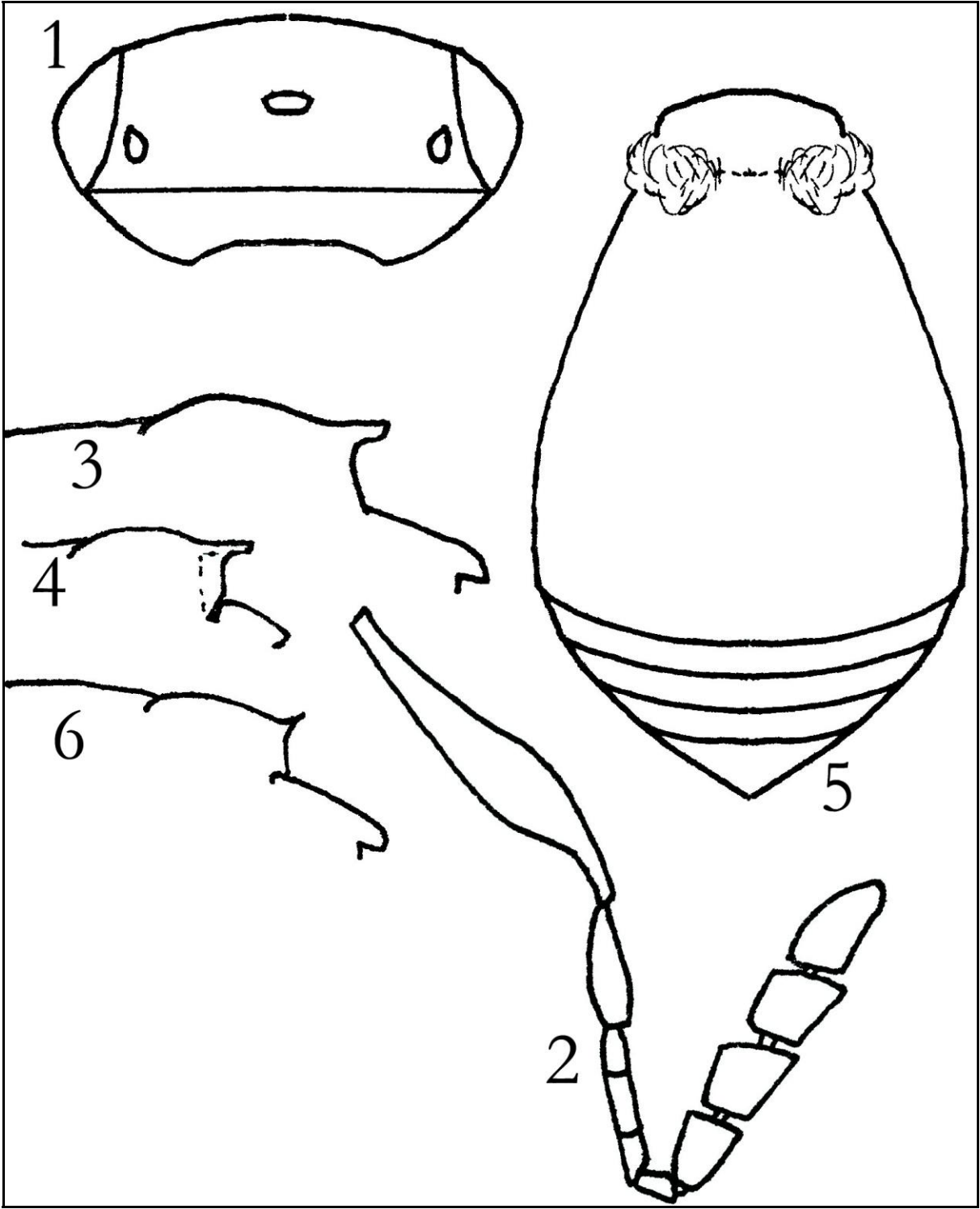


FIGURE 5. *Synopeas hibernicum* Buhl and O'Connor, 2009 (Platygastrinae).

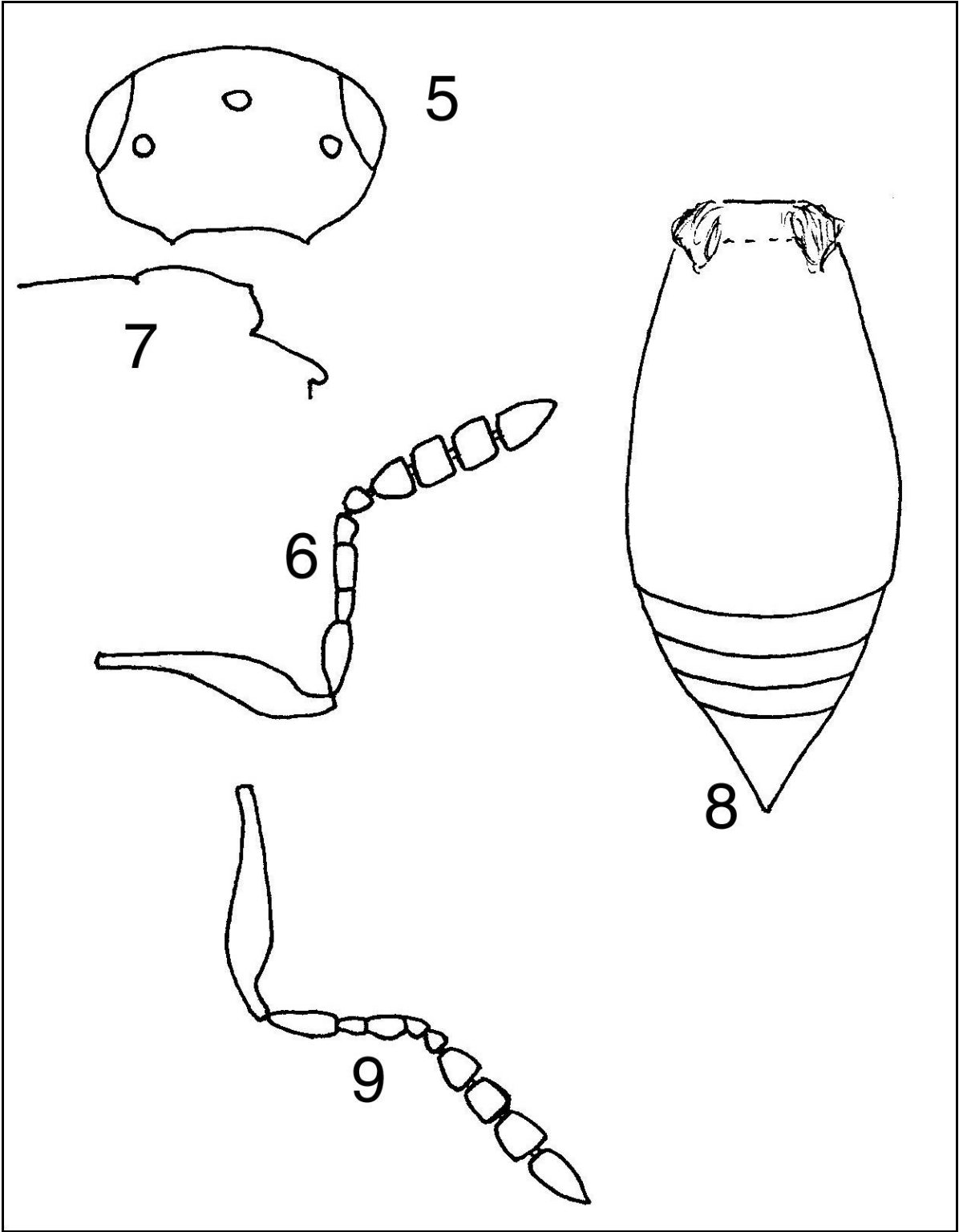


FIGURE 6. *Inostemma* species (Platygastrinae) <Clé des Hyménoptères www7.inra.fr> © INRA, Paris.

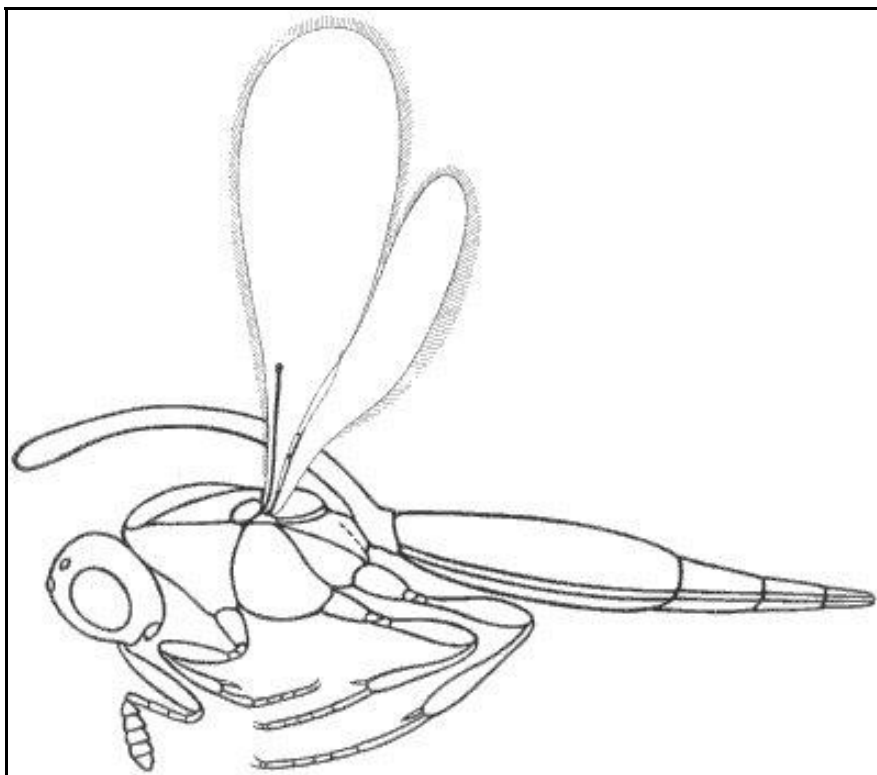
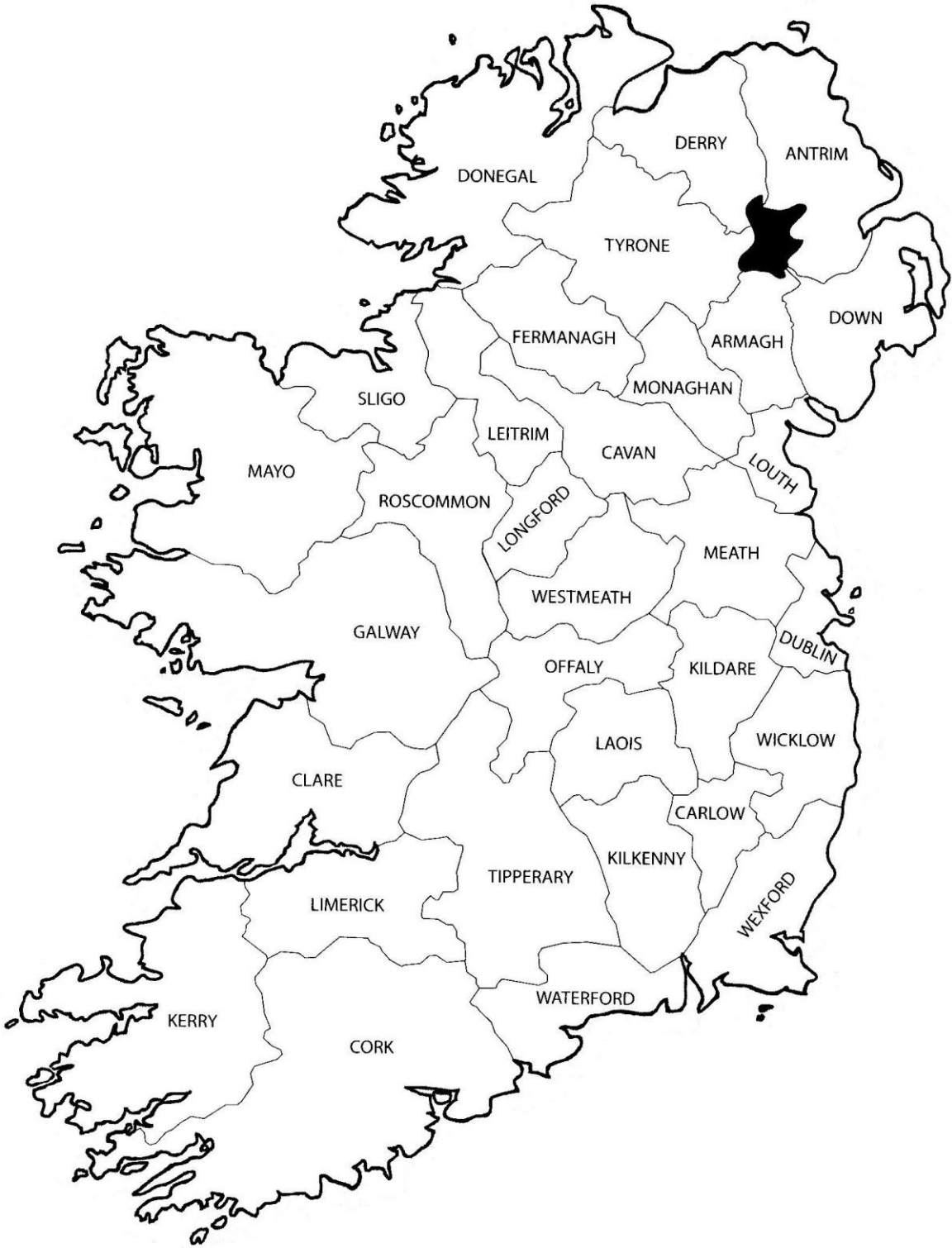


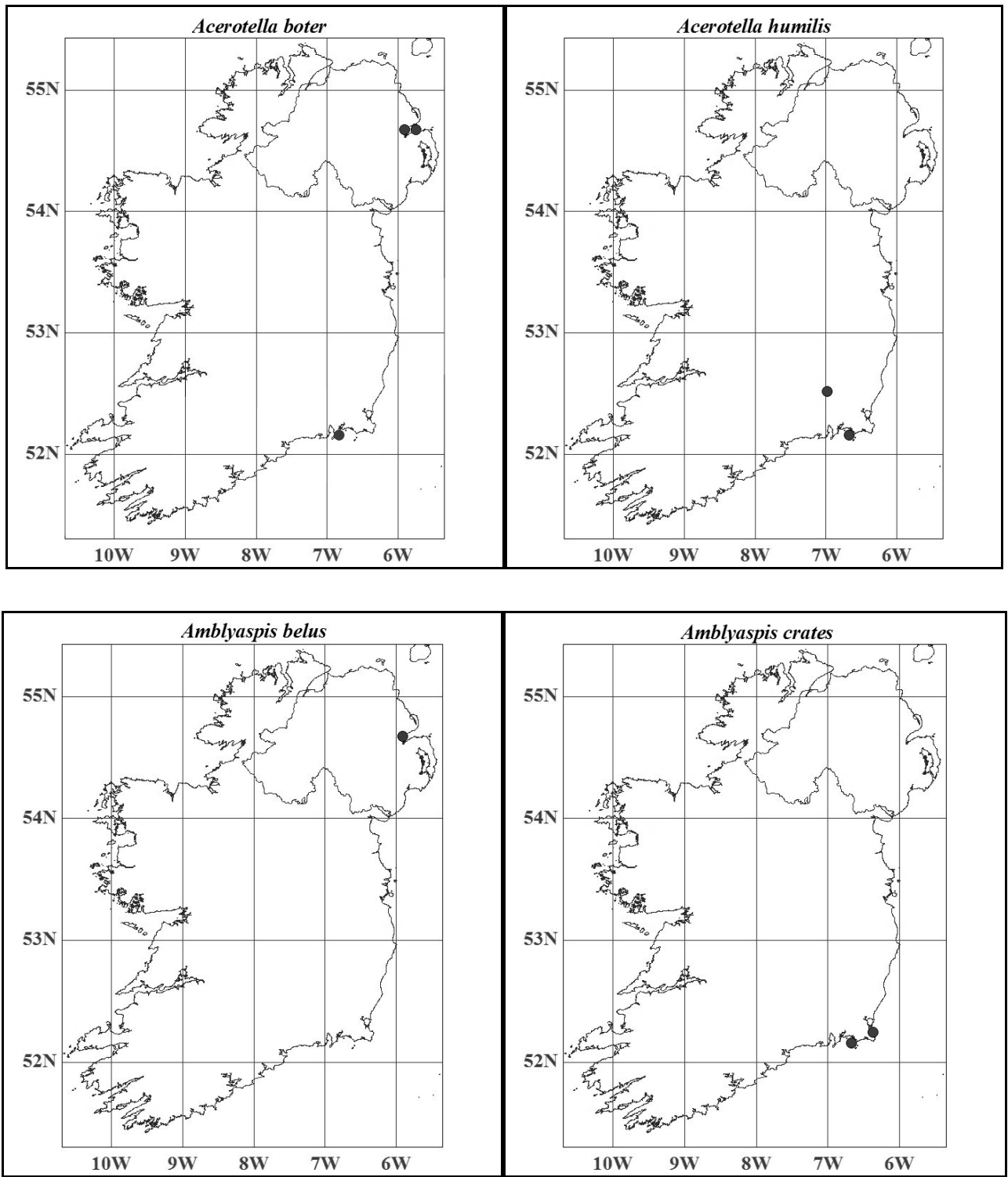
FIGURE 7. *Allotropa* species (Sceliotrachelinae) © Ohio State University (Triplehorn Insect Collection).



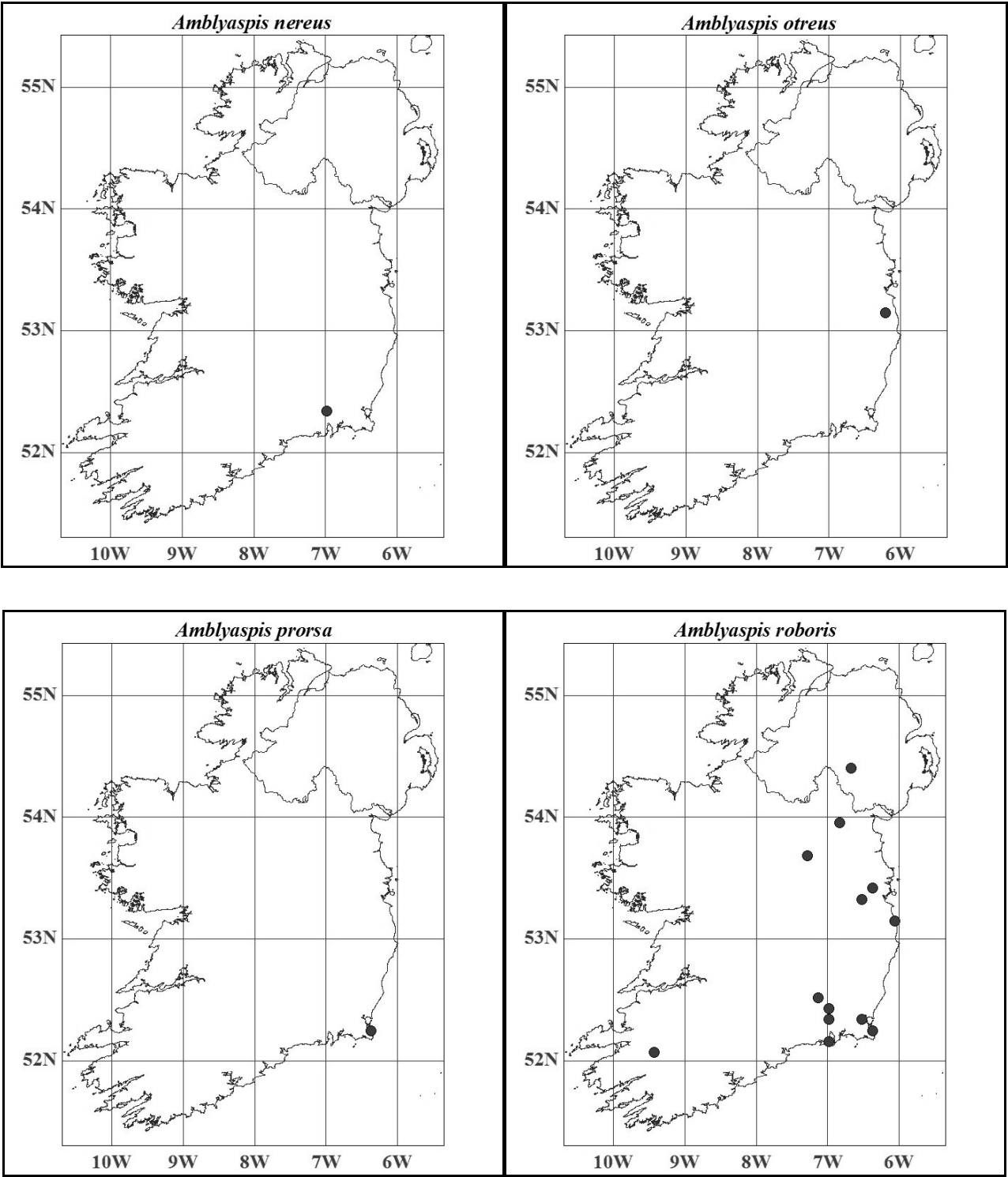
FIGURE 8. The counties of Ireland.



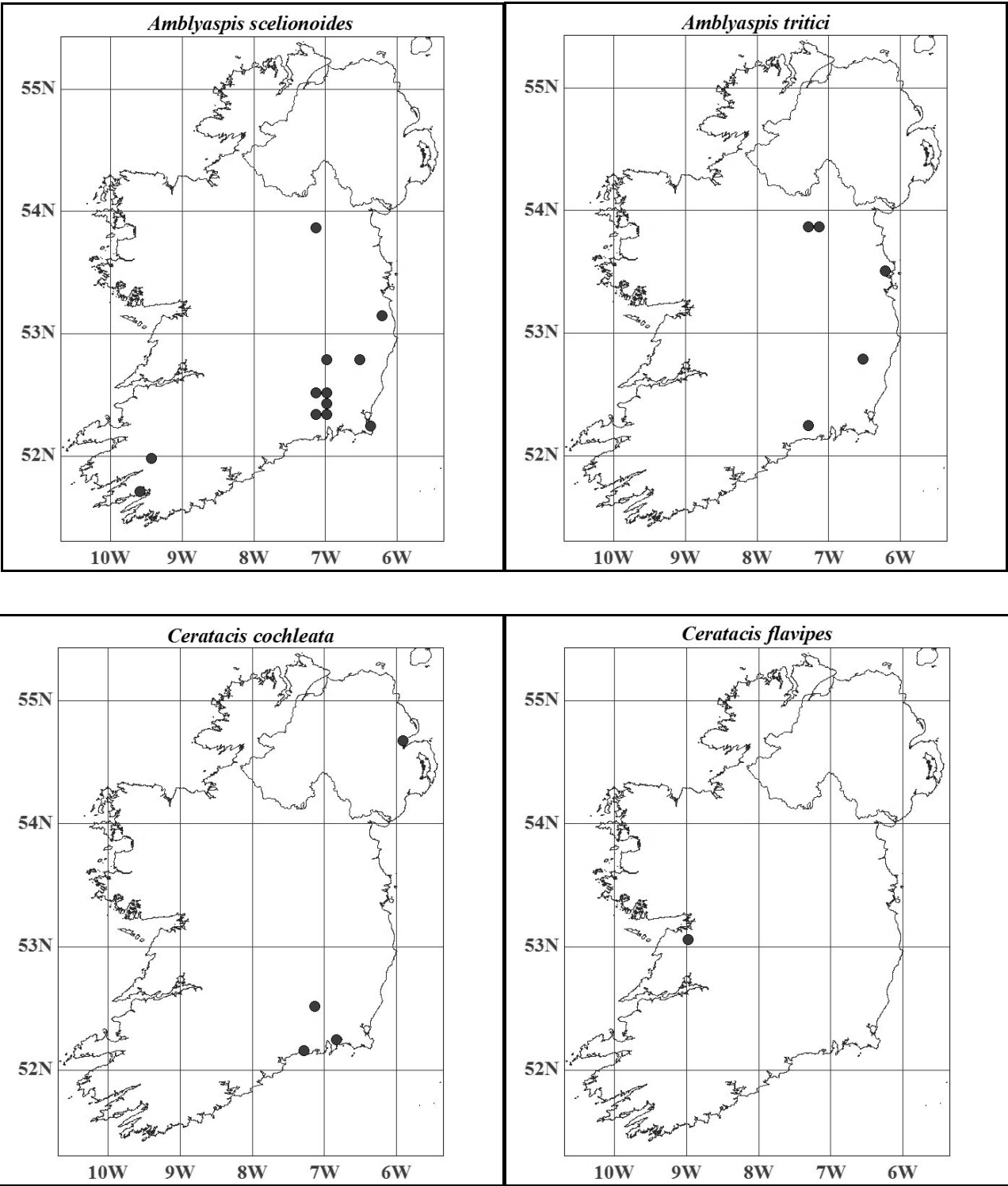
FIGURES 9-12. The known Irish distributions of *Acerotella boter*, *A. humilis*, *Amblyaspis belus* and *A. crates*.



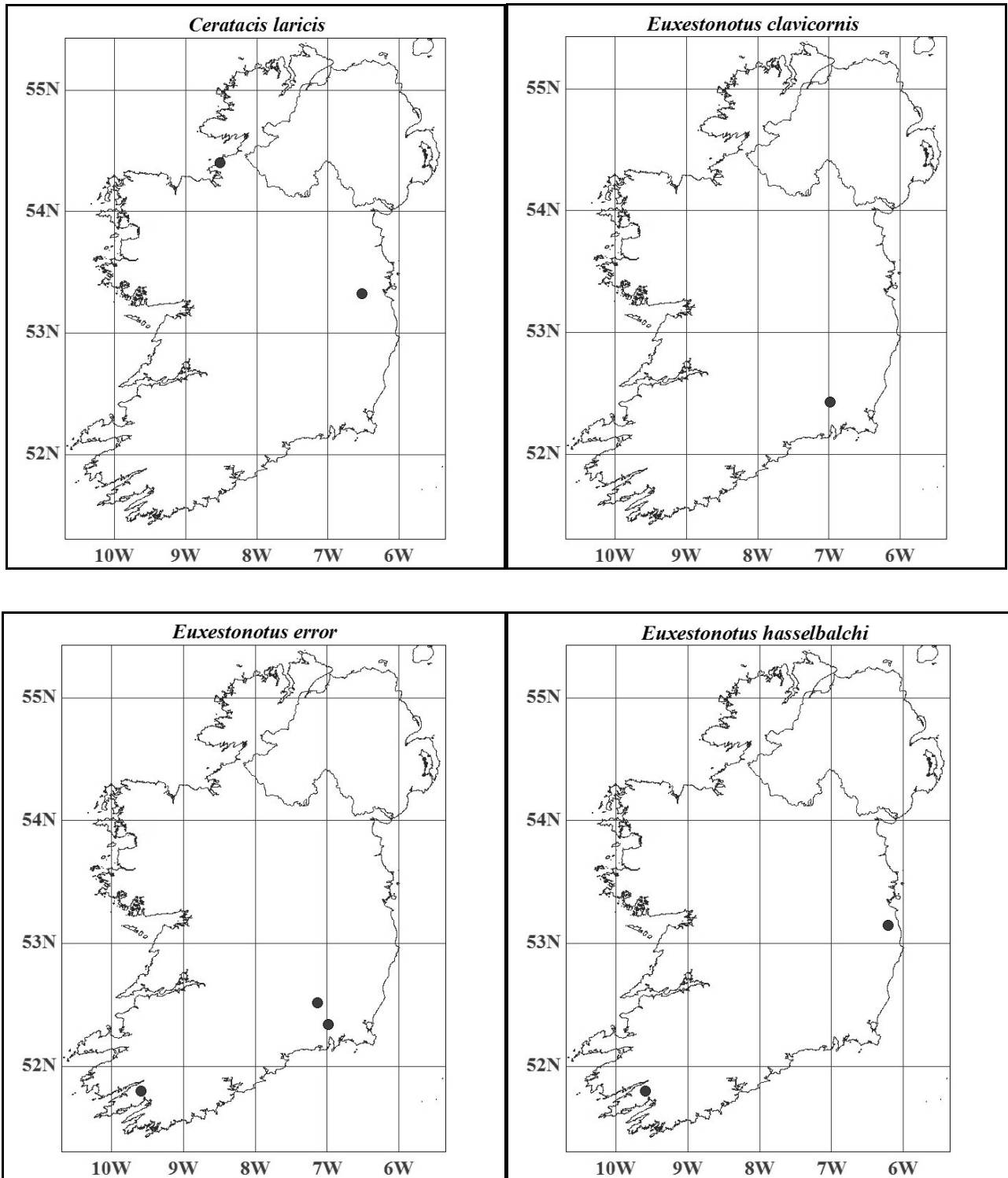
FIGURES 13-16. The known Irish distributions of *Amblyaspis nereus*, *A. otreus*, *A. prorsa* and *A. roboris*.



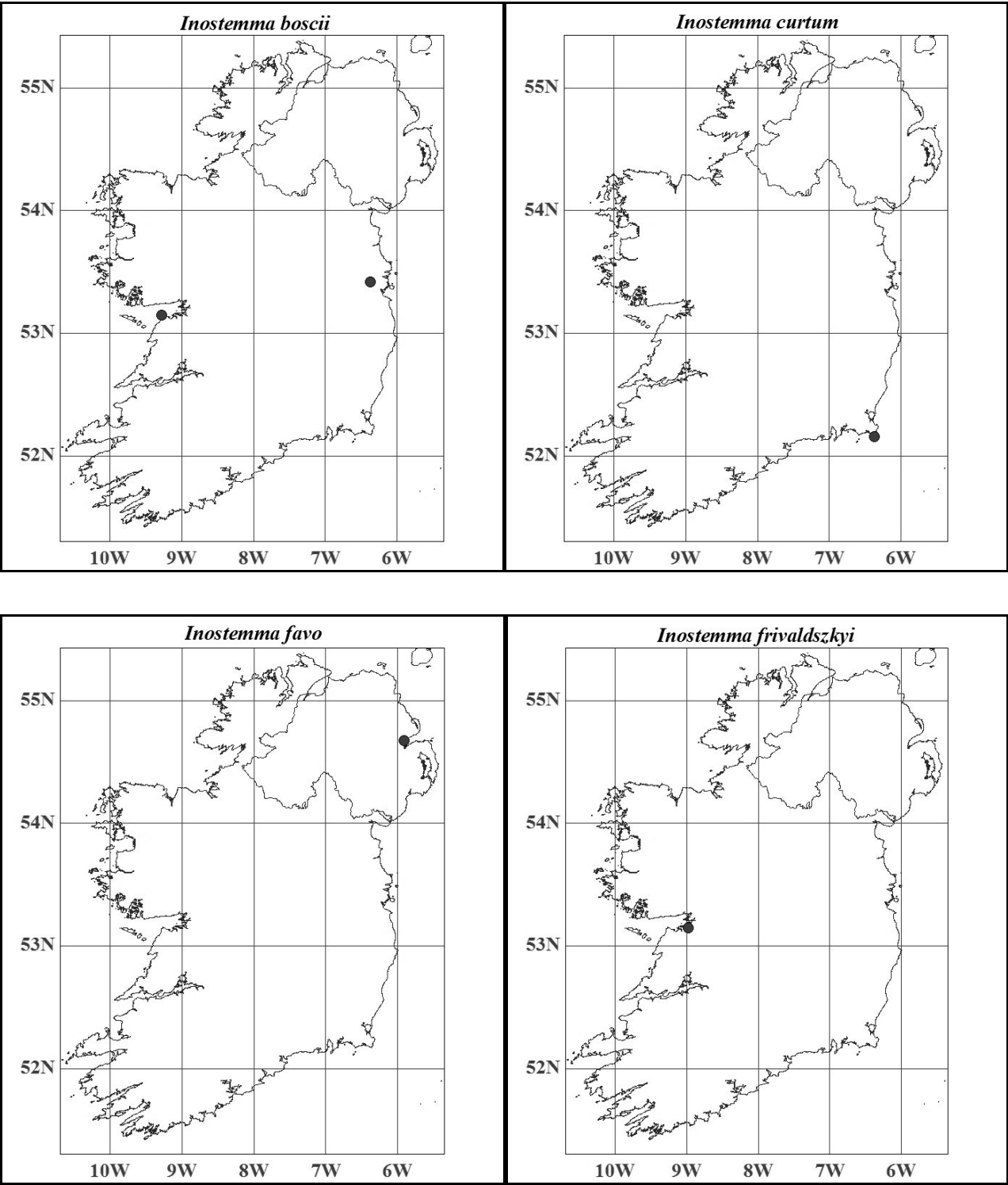
FIGURES 17-20. The known Irish distributions of *Amblyaspis scelionoides*, *A. tritici*, *Ceratacis cochleata* and *C. flavipes*.



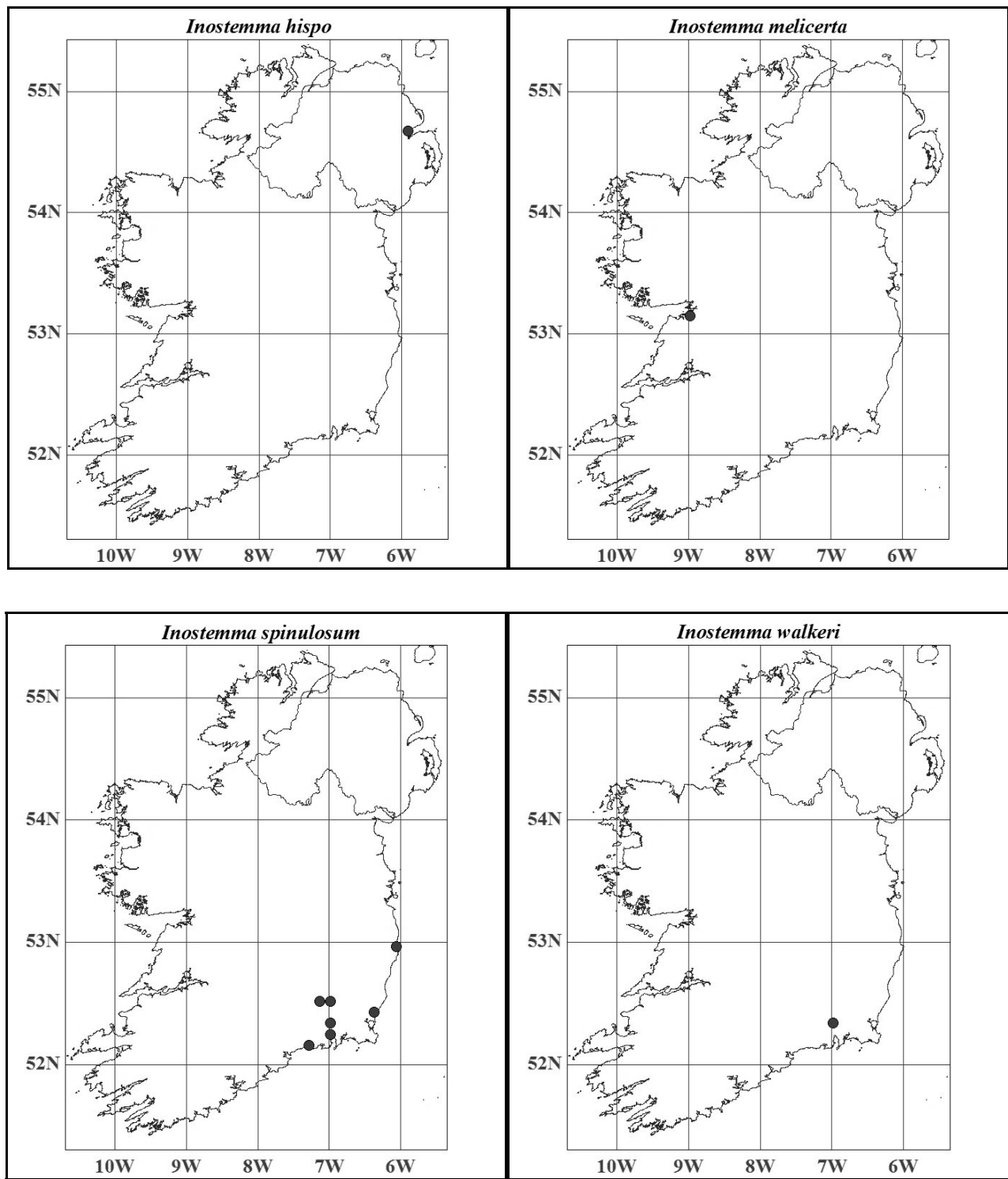
FIGURES 21-24. The known Irish distributions of *Ceratacis laricis*, *Euxestonotus clavicornis*, *E. error* and *E. hasselbalchi*.



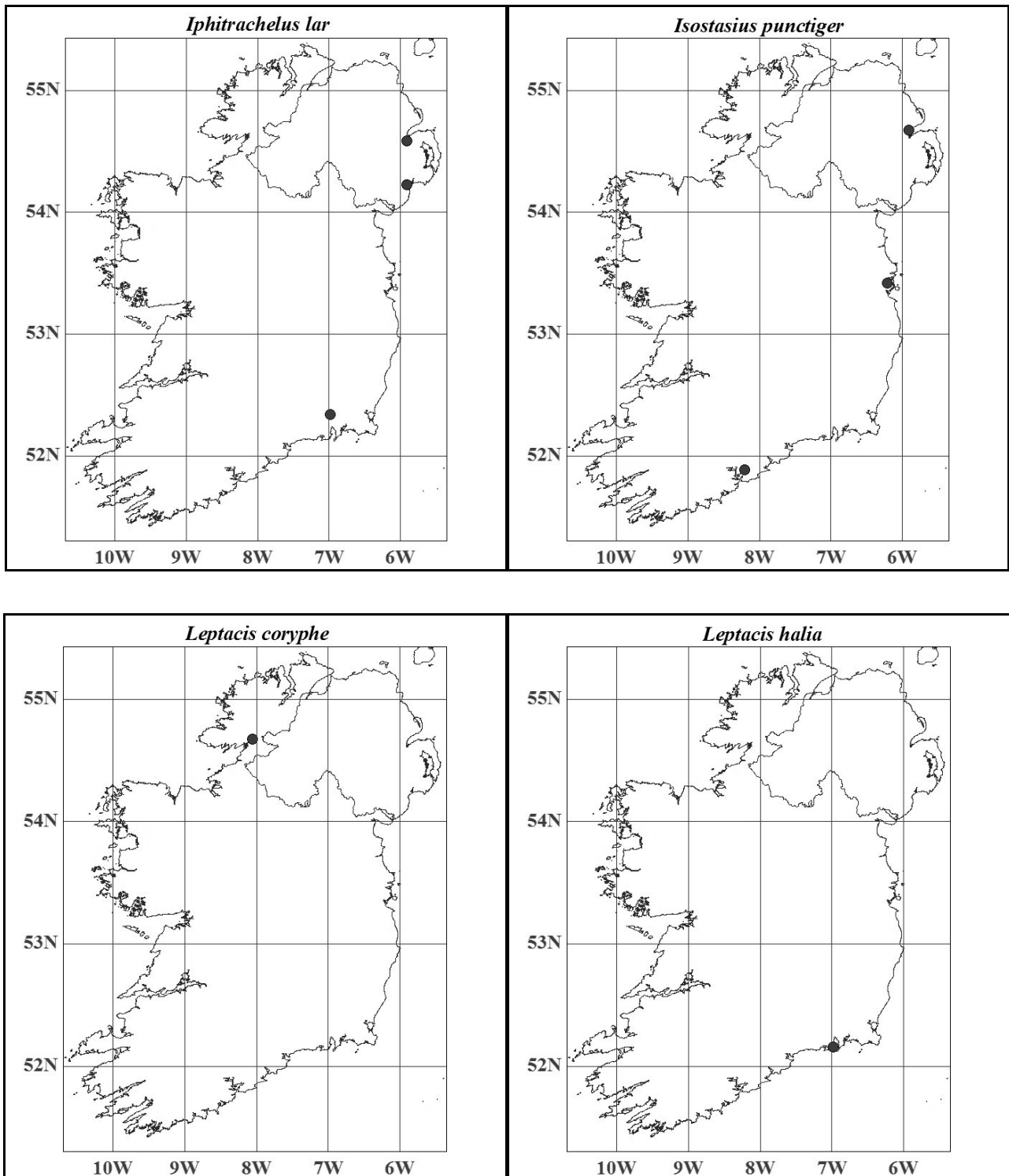
FIGURES 25-28. The known Irish distributions of *Inostemma boscii*, *I. curtum*, *I. favo* and *I. frivaldszkyi*.



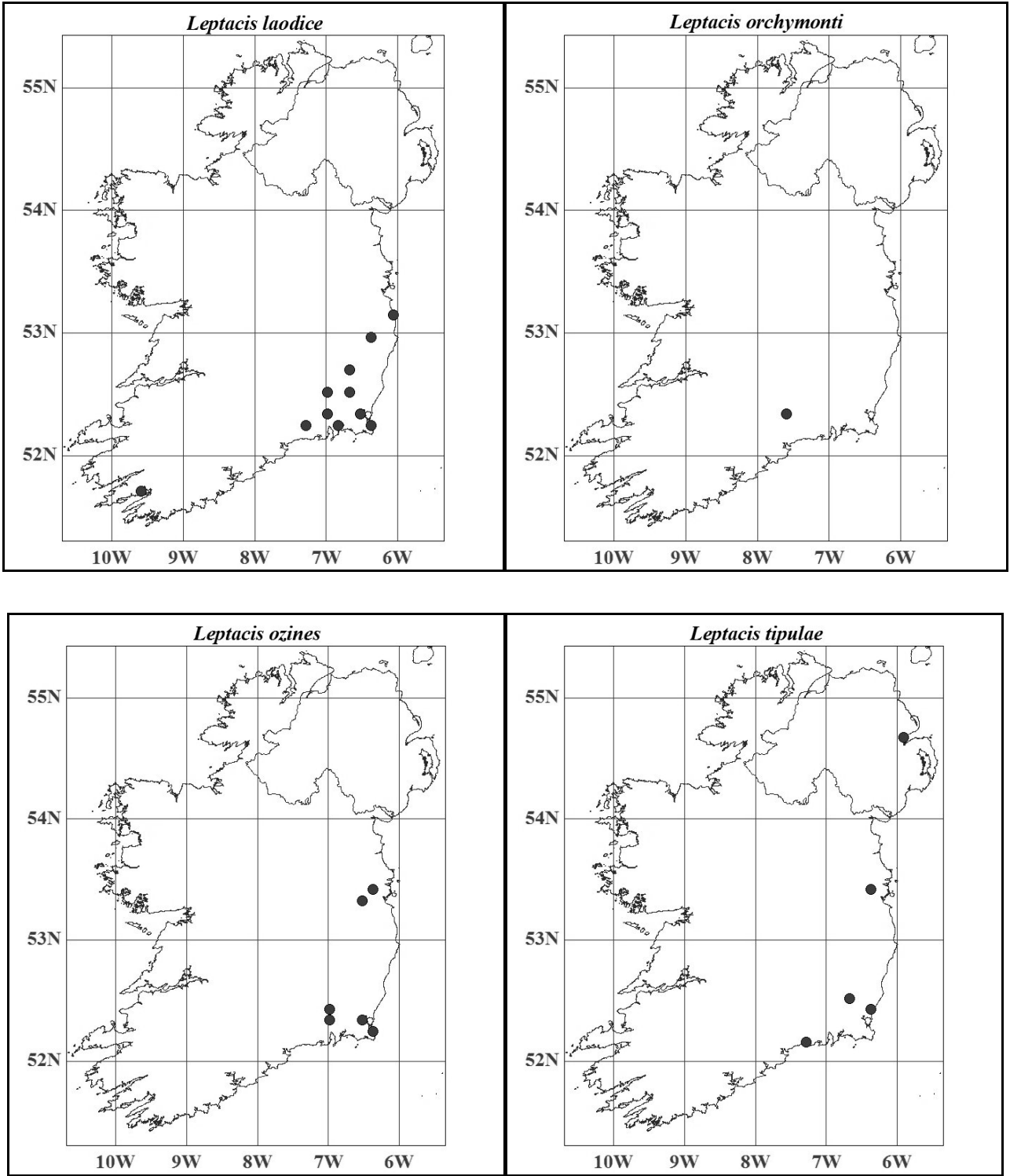
FIGURES 29-32. The known Irish distributions of *Inostemma hispo*, *I. melicerta*, *I. spinulosum* and *I. walkeri*.



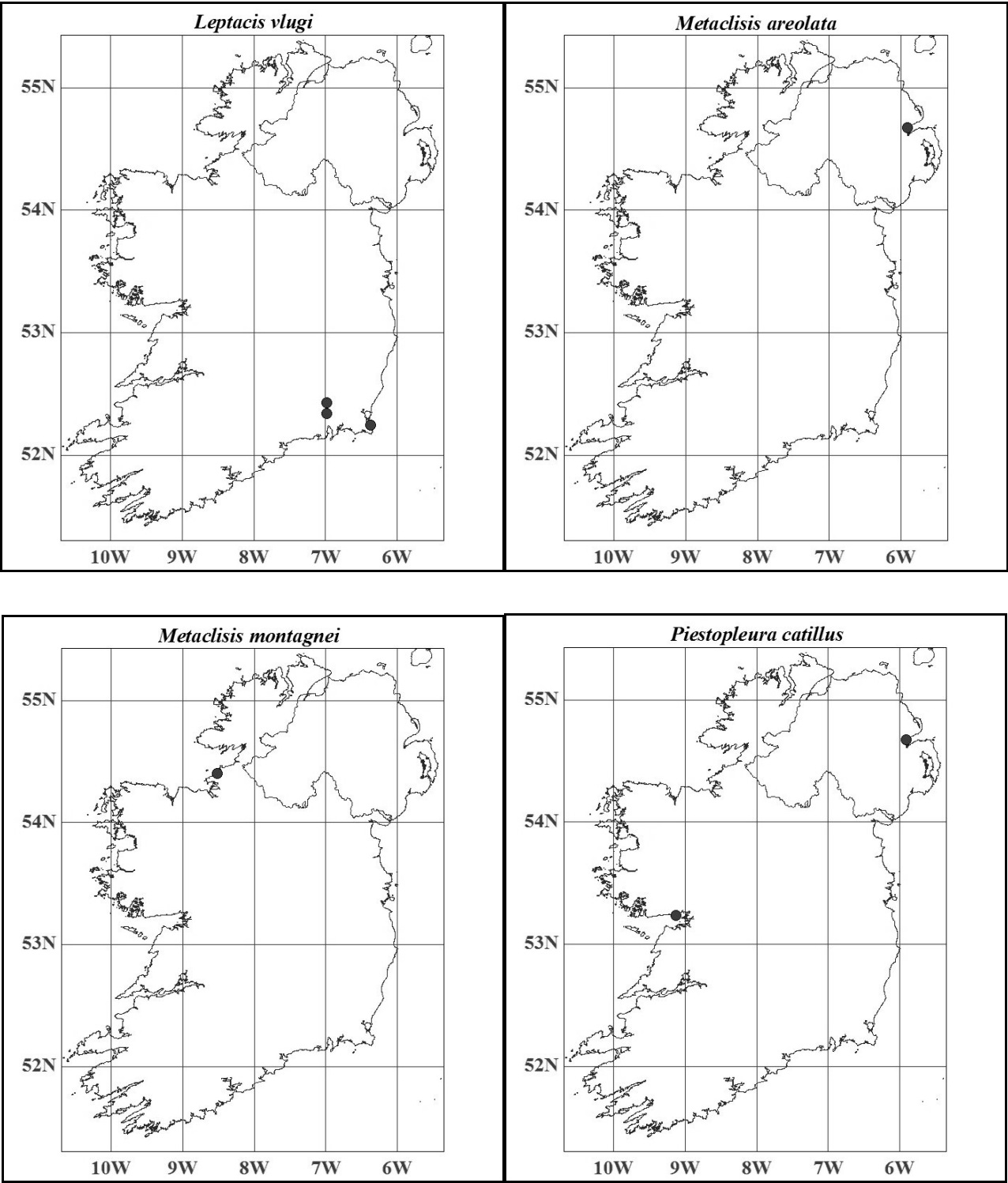
FIGURES 33-36. The known Irish distributions of *Iphitrachelus lar*, *Isostasius punctiger*, *Leptacis coryphe* and *L. halia*.



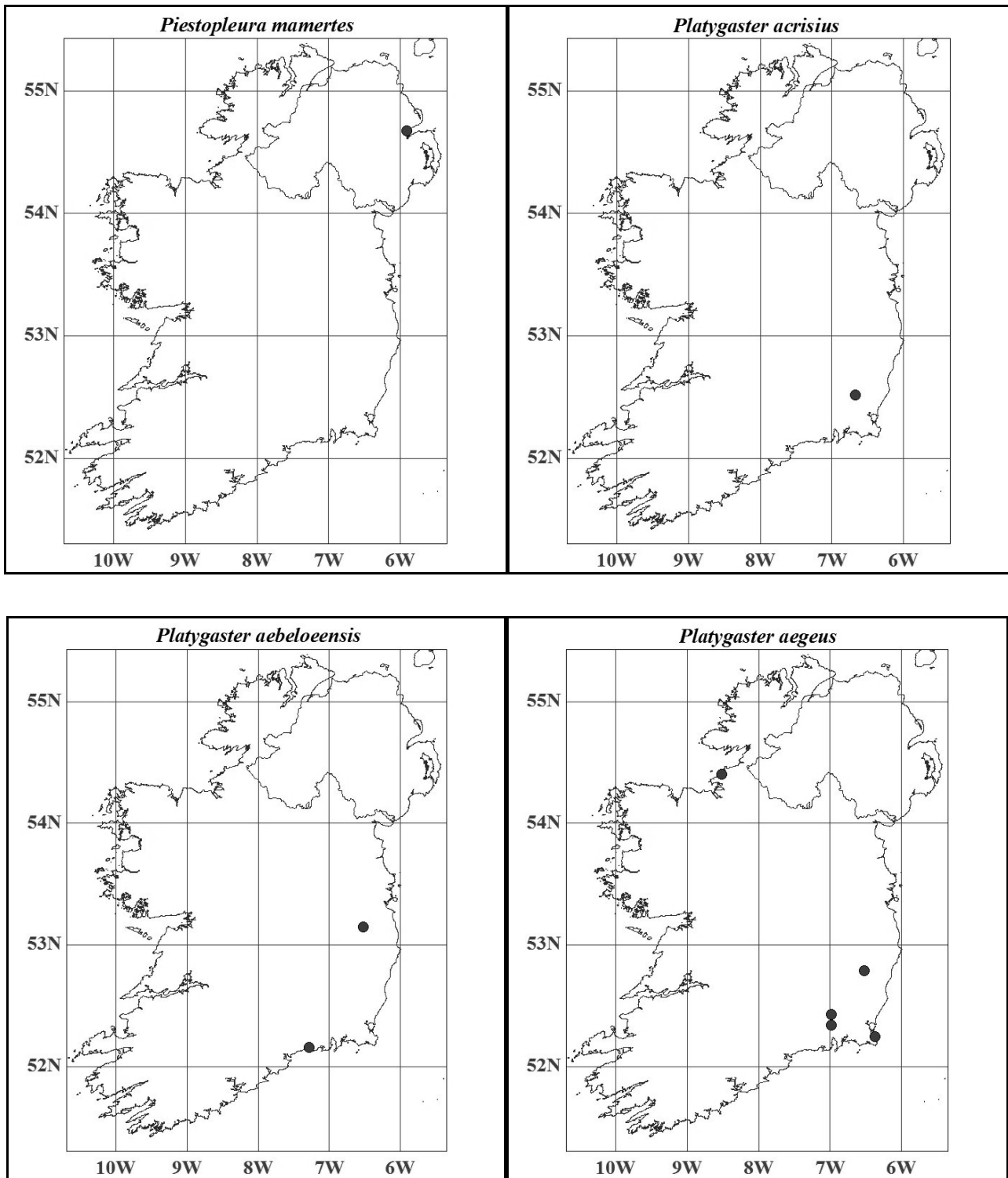
FIGURES 37-40. The known Irish distributions of *Leptacis laodice*, *L.orchymonti*, *L. ozines* and *L. tipulae*.



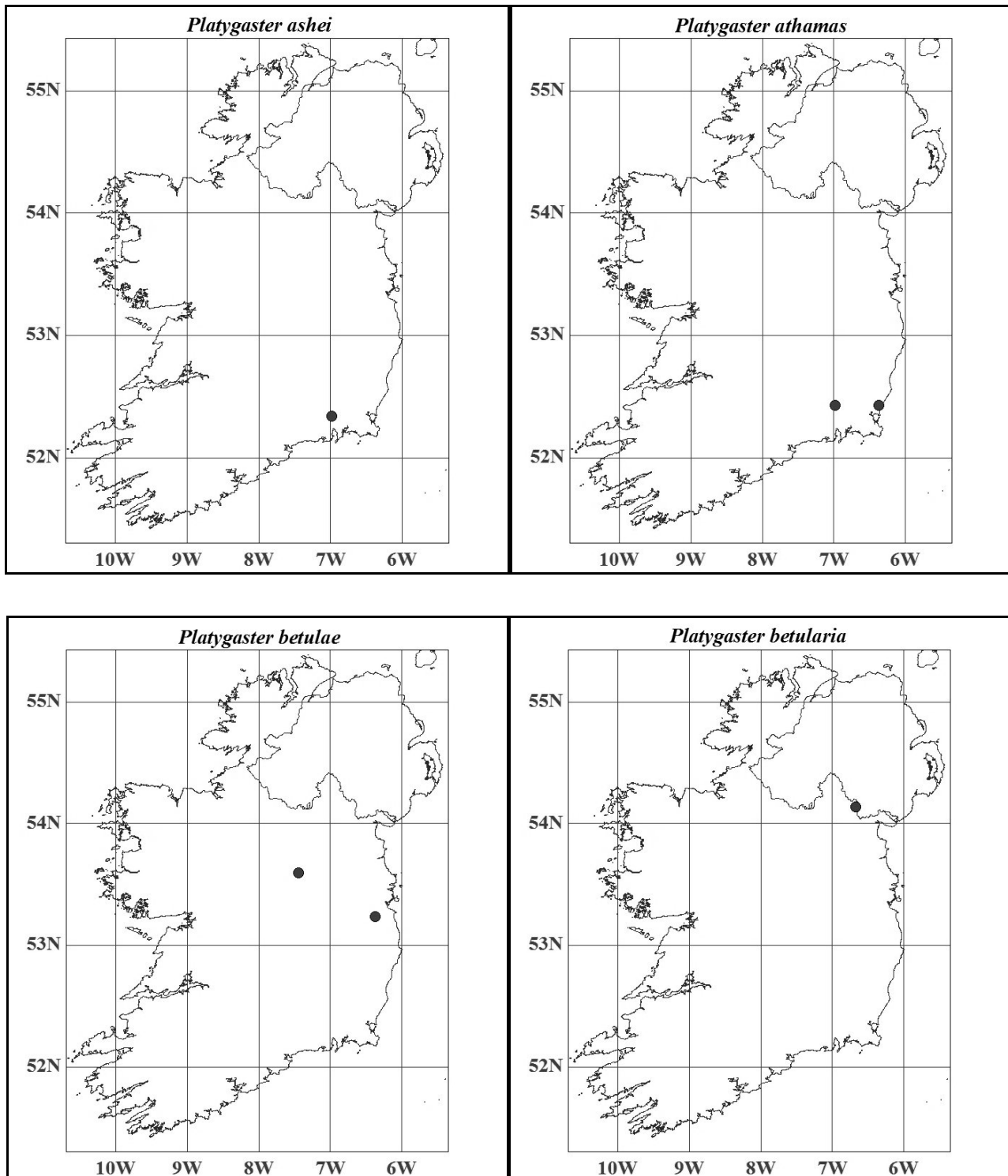
FIGURES 41-44. The known Irish distributions of *Leptacis vlugi*, *Metacclisis areolata*, *M. montagnei* and *Piestopleura catillus*.



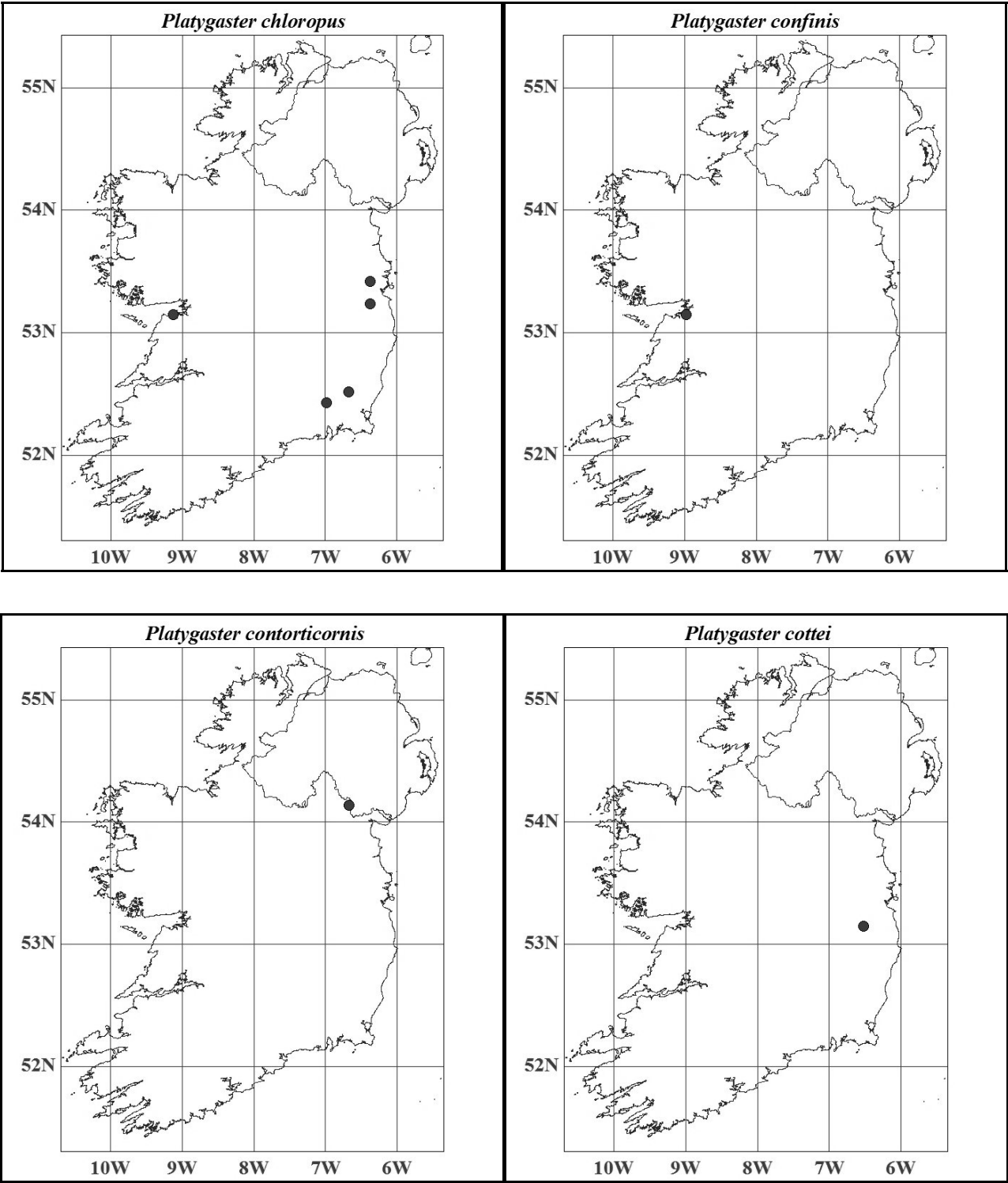
FIGURES 45-48. The known Irish distributions of *Piestopleura mamertes*, *Platygaster* (*Platygaster*) *acrisius*, *P. (P.) aebeleoensis* and *P. (P.) aegeus*.



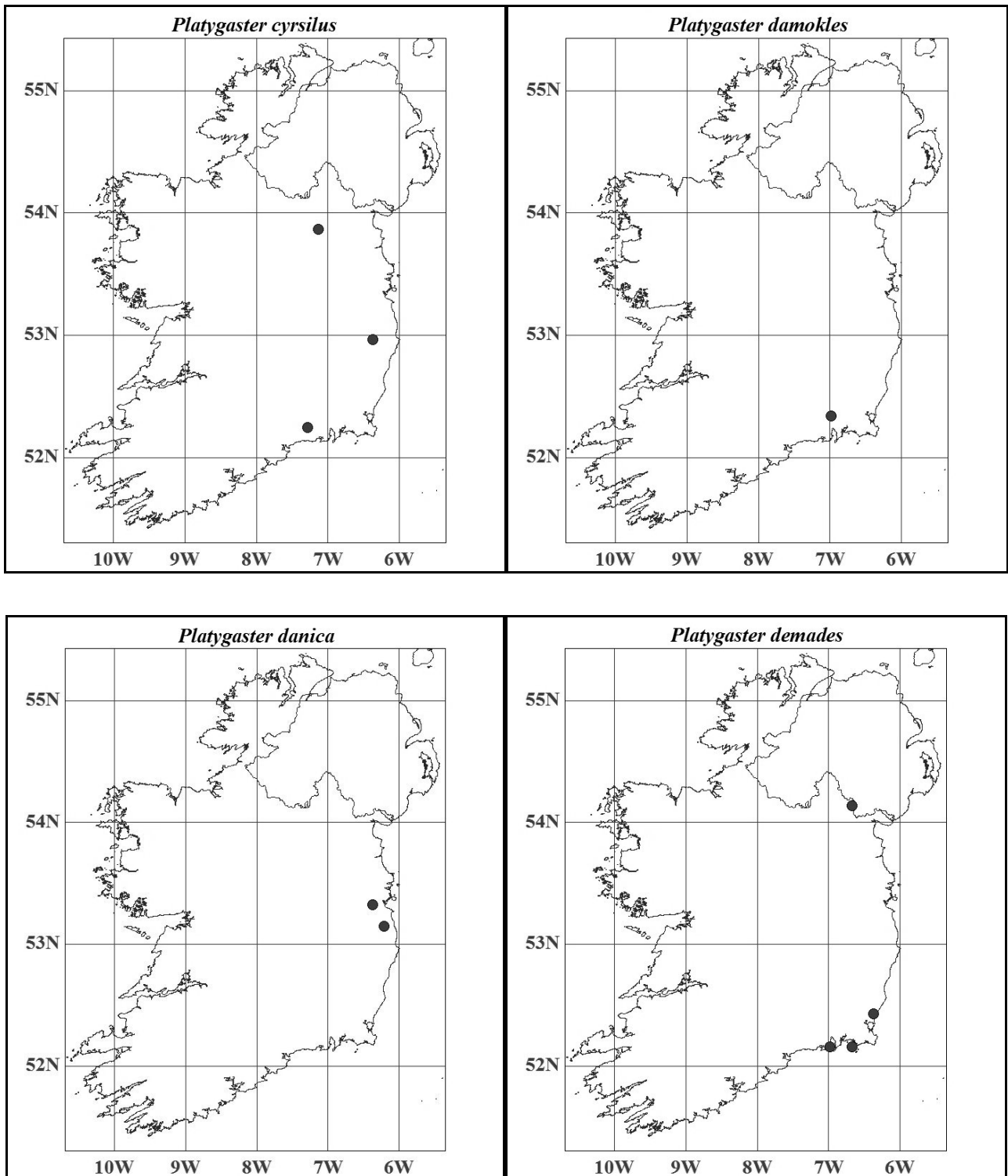
FIGURES 49-52. The known Irish distributions of *Platygaster* (*Platygaster*) *ashei*, *P. (P.) athamas*, *P. (P.) betulae* and *P. (P.) betularia*.



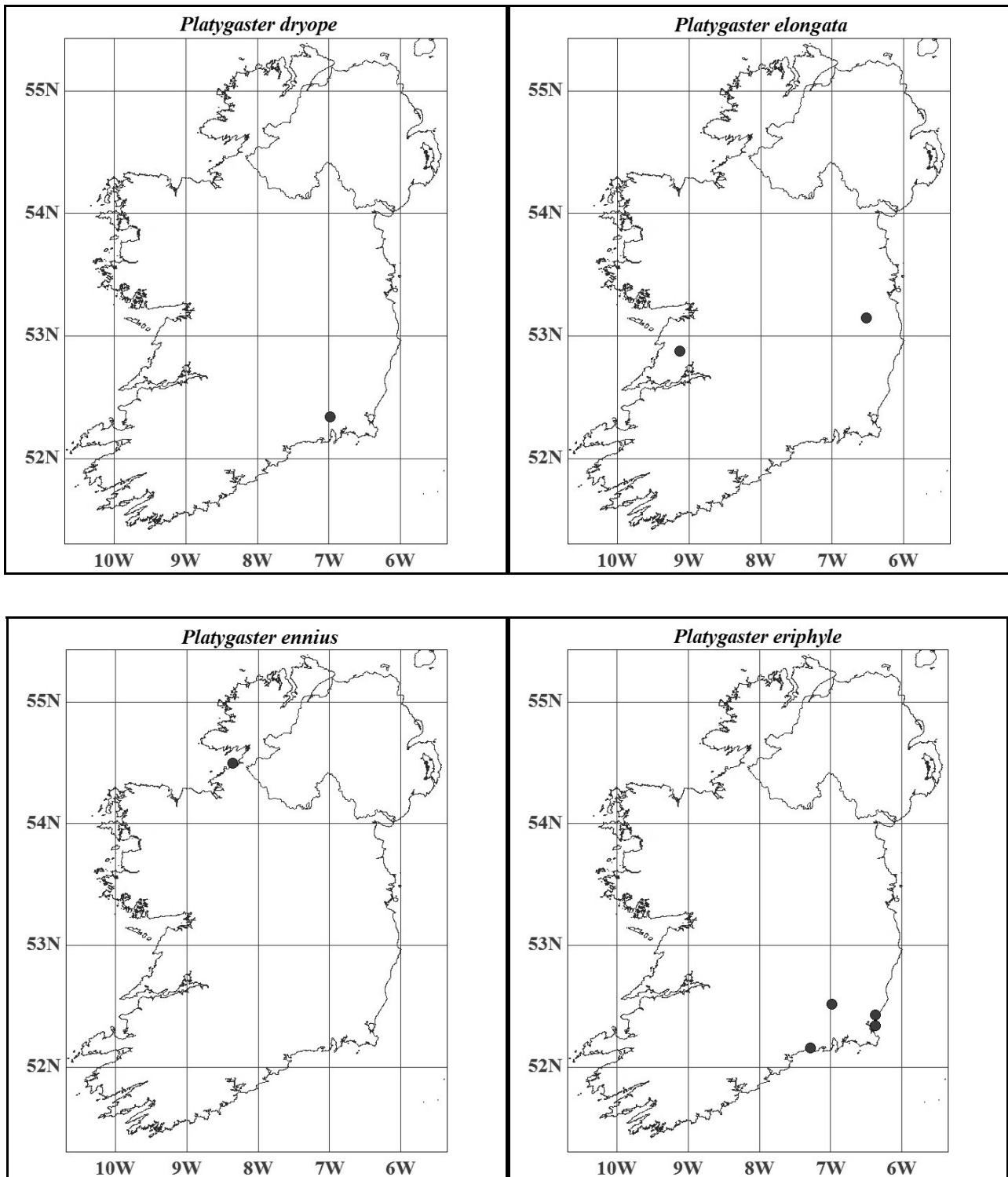
FIGURES 53-56. The known Irish distributions of *Platygaster* (*Platygaster*) *chloropus*, *P. (P.) confinis*, *P. (P.) contorticornis* and *P. (P.) cottei*.



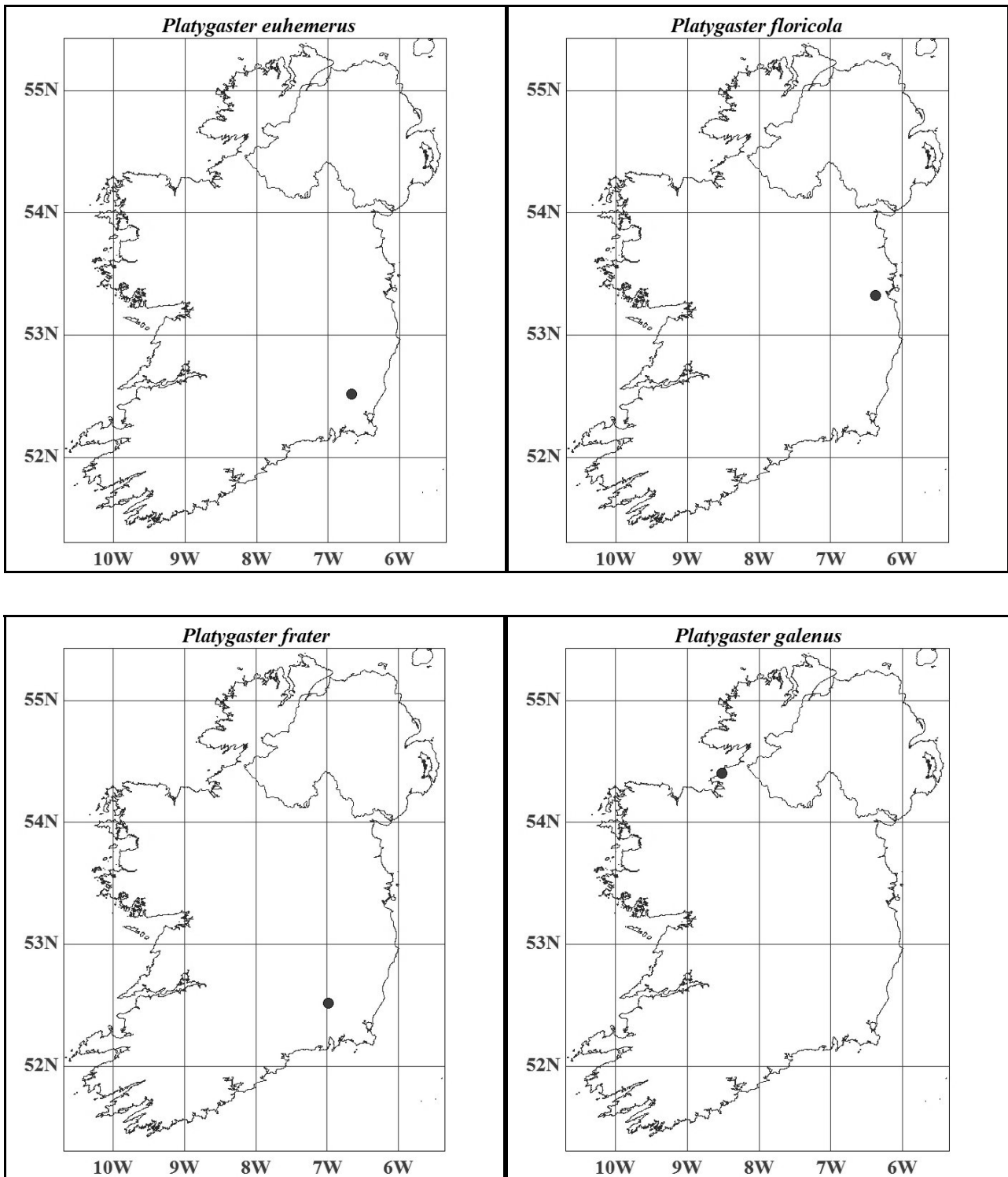
FIGURES 57-60. The known Irish distributions of *Platygaster* (*Platygaster*) *cyrsilus*, *P. (P.) damokles*, *P. (P.) danica* and *P. (P.) demades*.



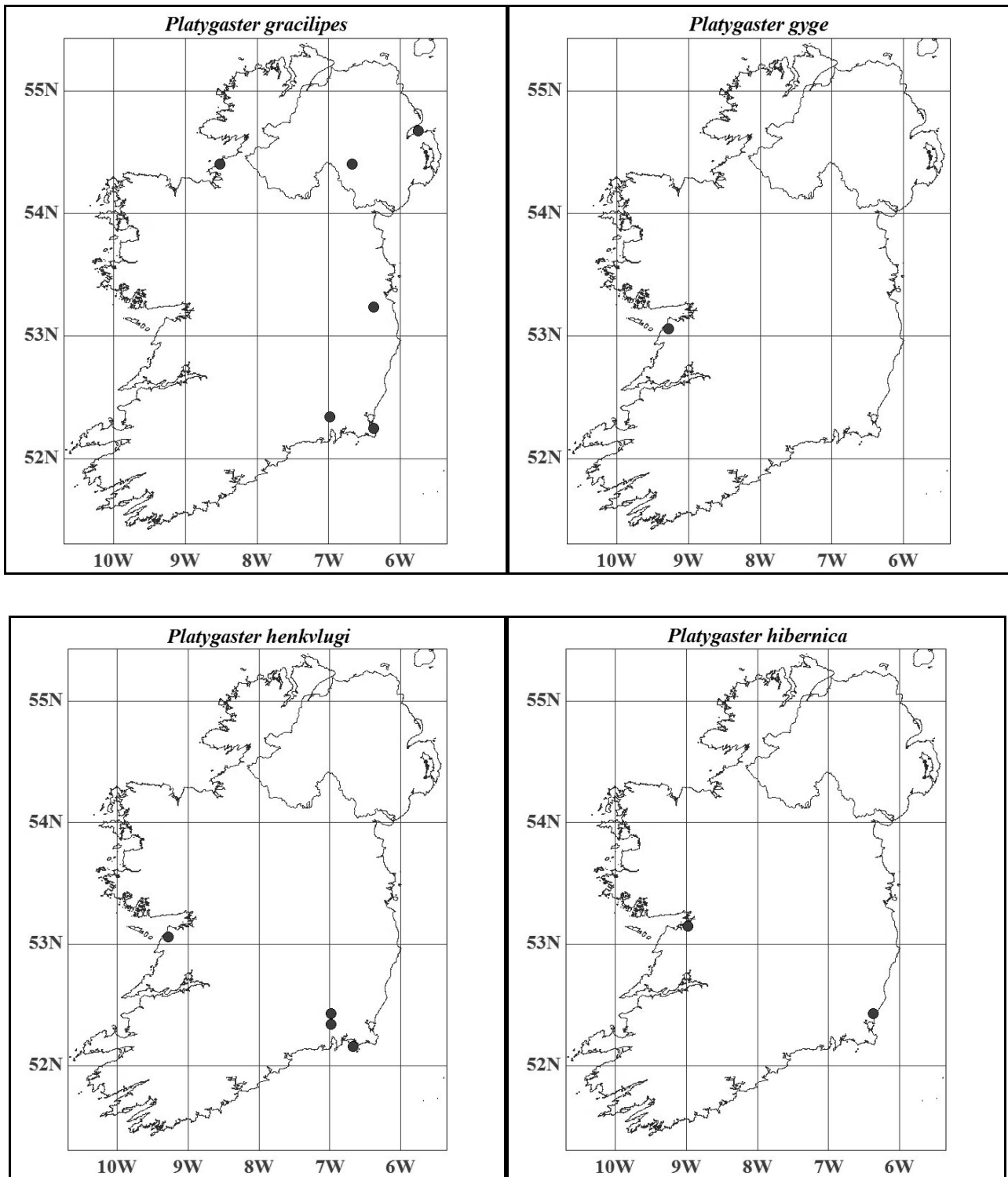
FIGURES 61-64. The known Irish distributions of *Platygaster* (*Platygaster*) *dryope*, *P. (P.) elongata*, *P. (P.) ennius* and *P. (P.) eriphyle*.



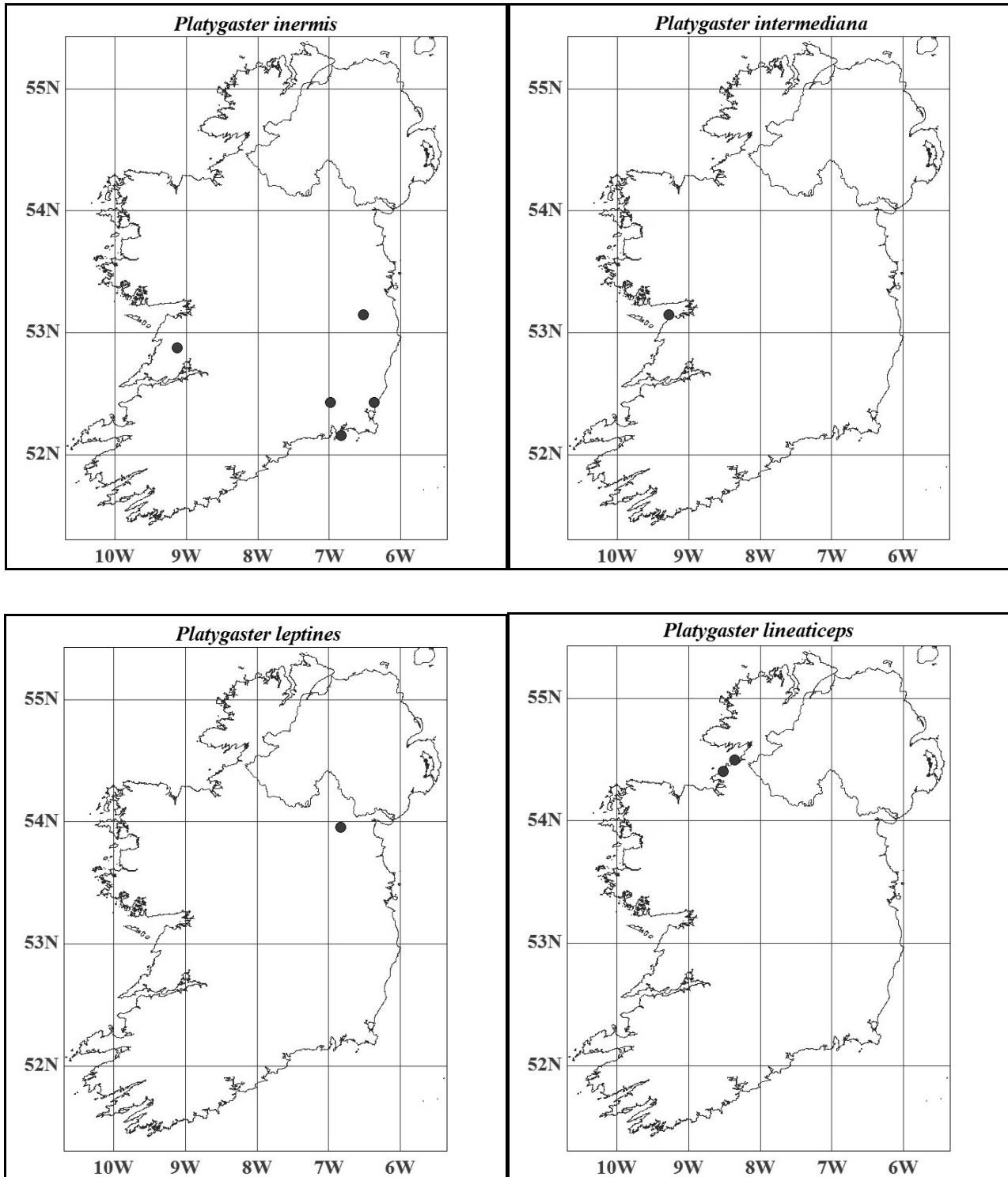
FIGURES 65–68. The known Irish distributions of *Platygaster* (*Platygaster*) *euhemerus*, *P. (P.) floricola*, *P. (P.) frater* and *P. (P.) galenus*.



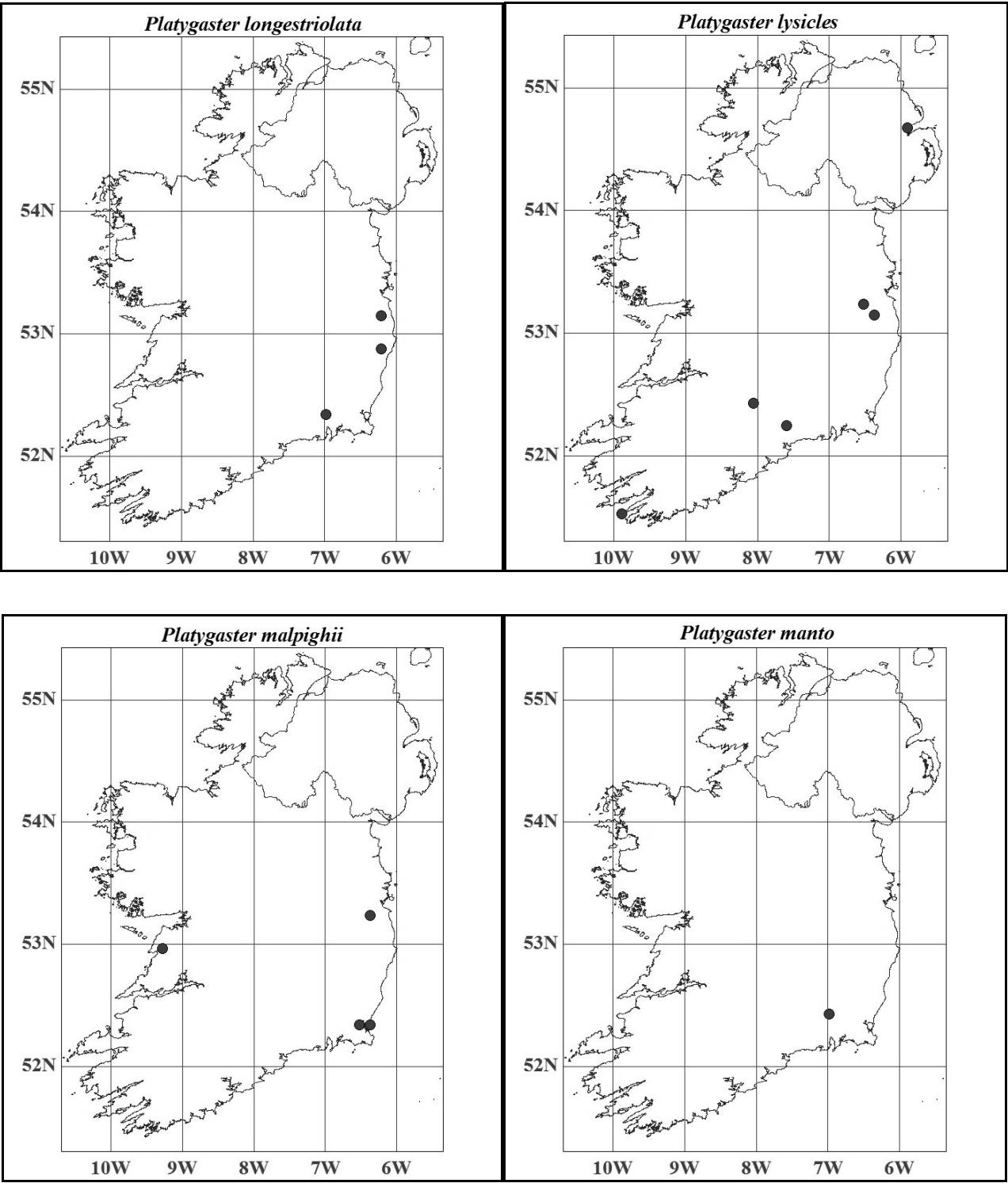
FIGURES 69-72. The known Irish distributions of *Platygaster* (*Platygaster*) *gracilipes*, *P. (P.) gyge*, *P. (P.) henkvlugi* and *P. (P.) hibernica*.



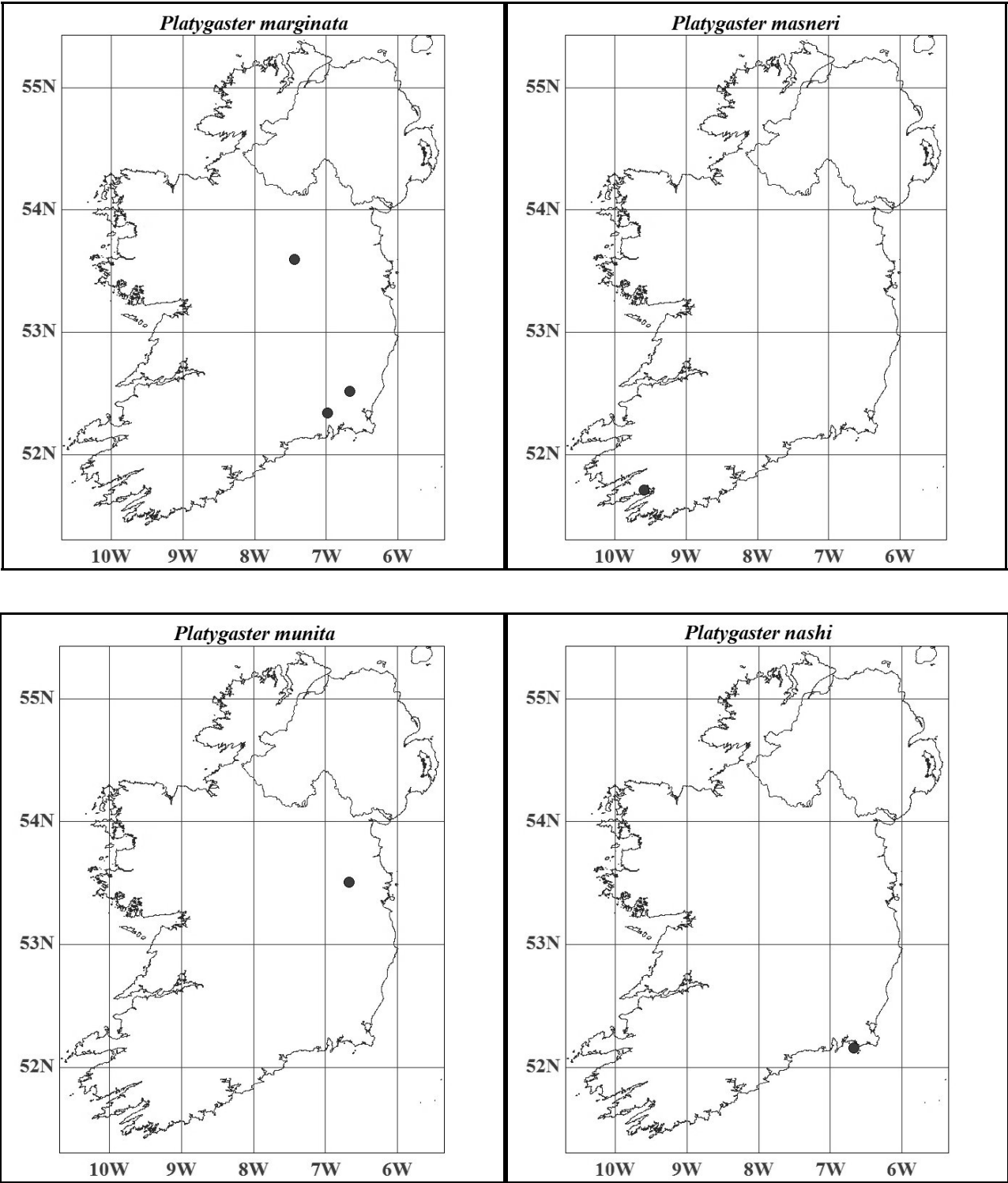
FIGURES 73-76. The known Irish distributions of *Platygaster* (*Platygaster*) *inermis*, *P. (P.) intermediana*, *P. (P.) leptines* and *P. (P.) lineaticeps*.



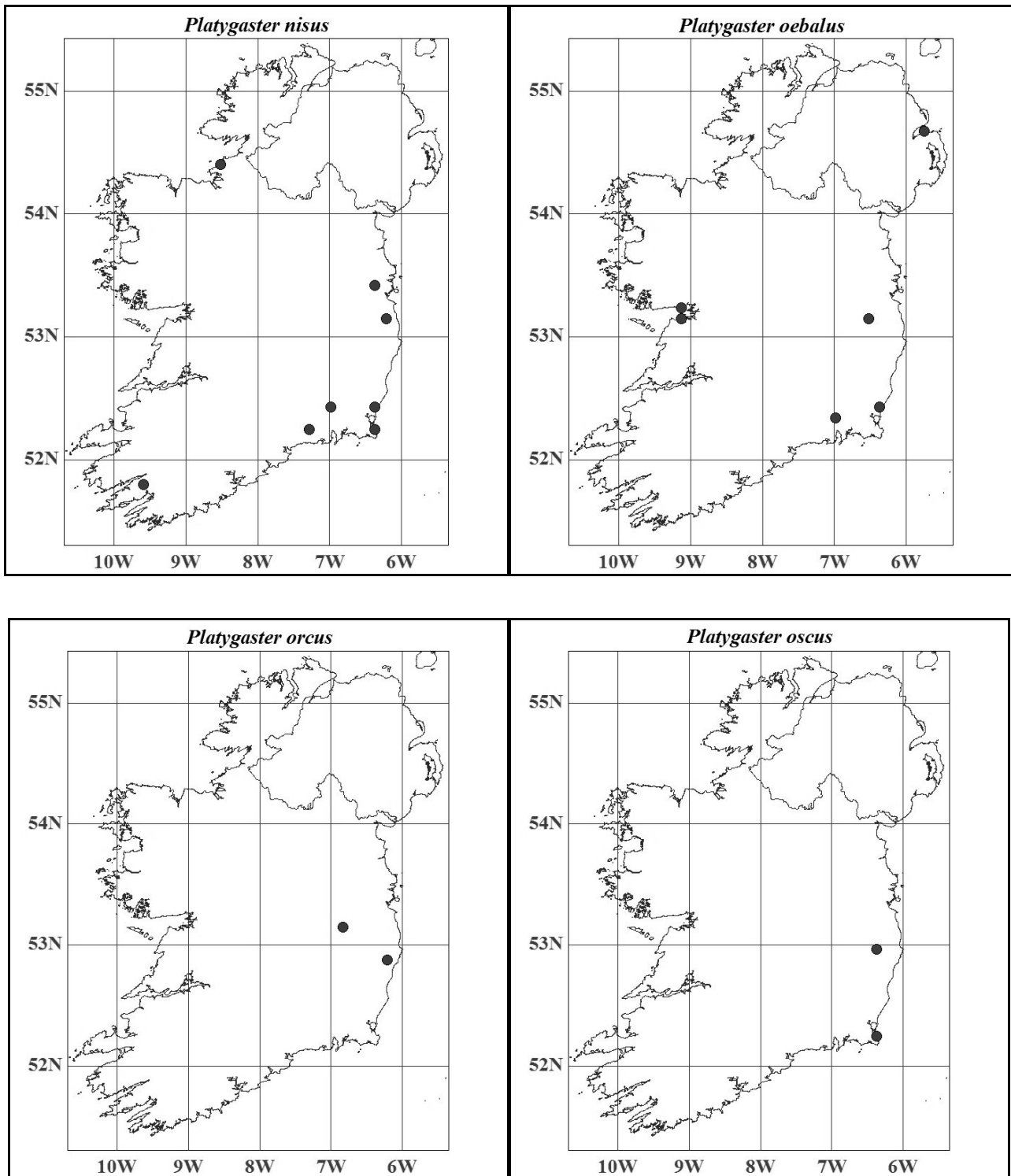
FIGURES 77-80. The known Irish distributions of *Platygaster* (*Platygaster*) *longestriolata*, *P. (P.) lysicles*, *P. (P.) malpighii* and *P. (P.) manto*.



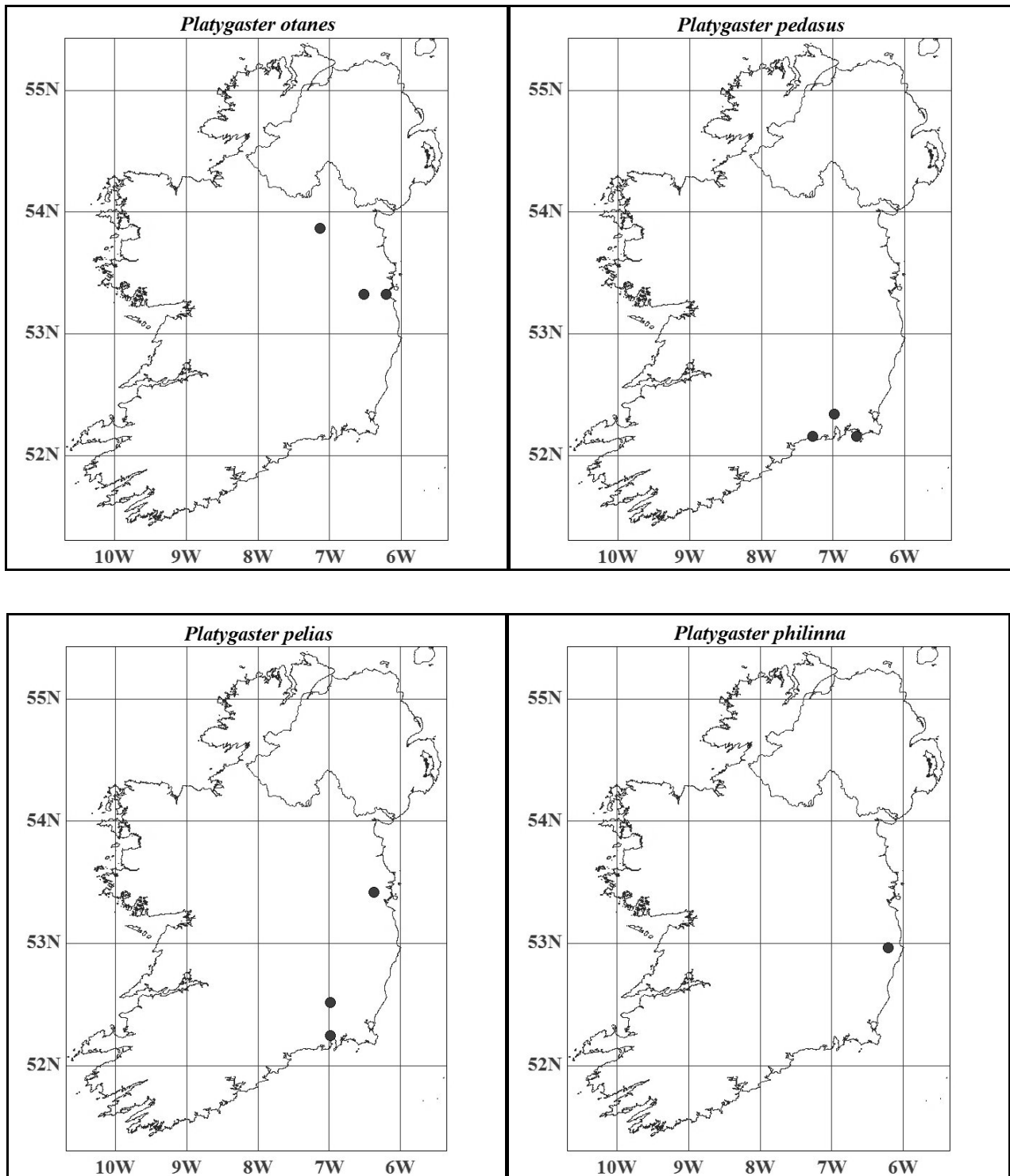
FIGURES 81-84. The known Irish distributions of *Platygaster* (*Platygaster*) *marginata*, *P. (P.) masneri*, *P. (P.) munita* and *P. (P.) nashi*.



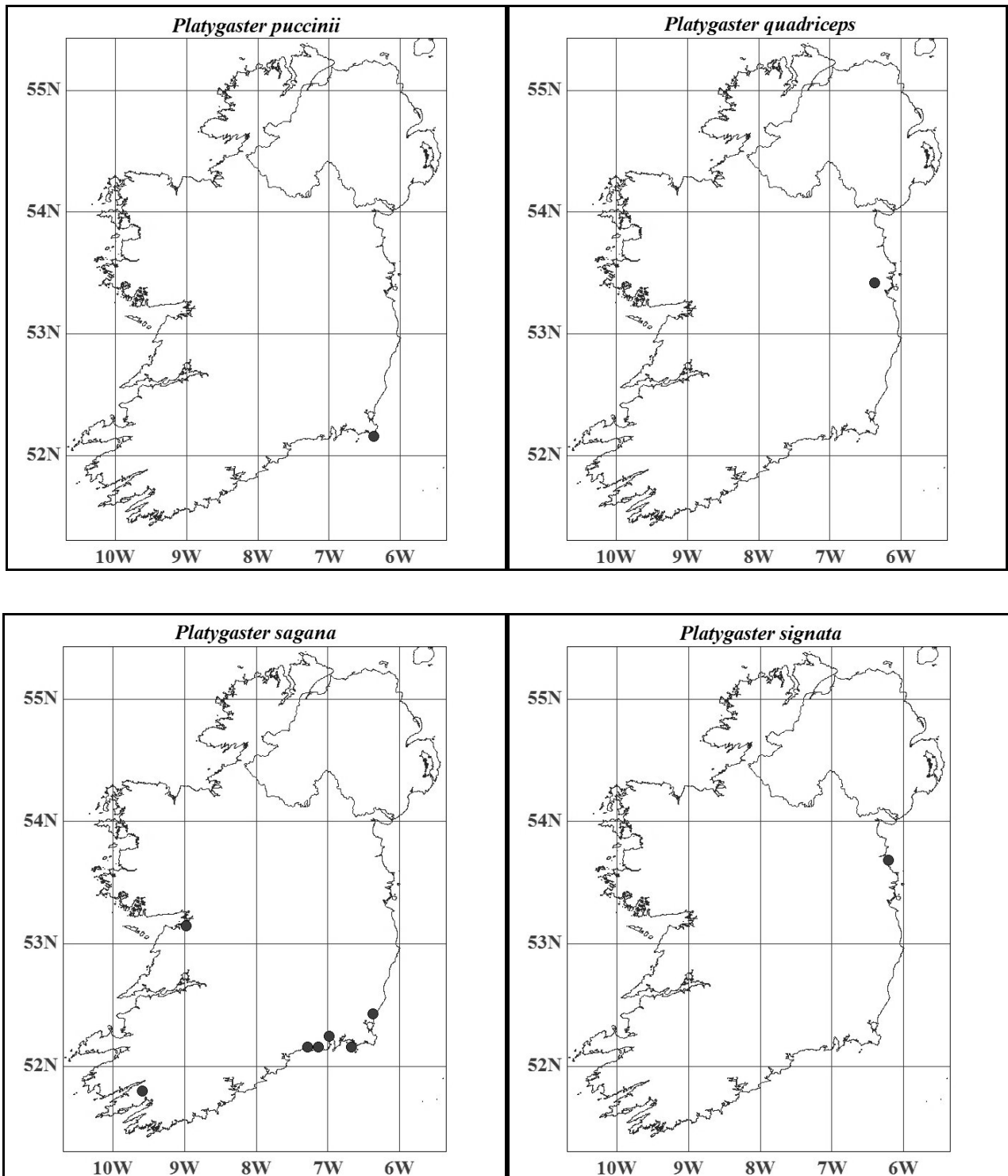
FIGURES 85-88. The known Irish distributions of *Platygaster* (*Platygaster*) *nisus*, *P. (P.)* *oebalus*, *P. (P.)* *orcus* and *P. (P.)* *oscus*.



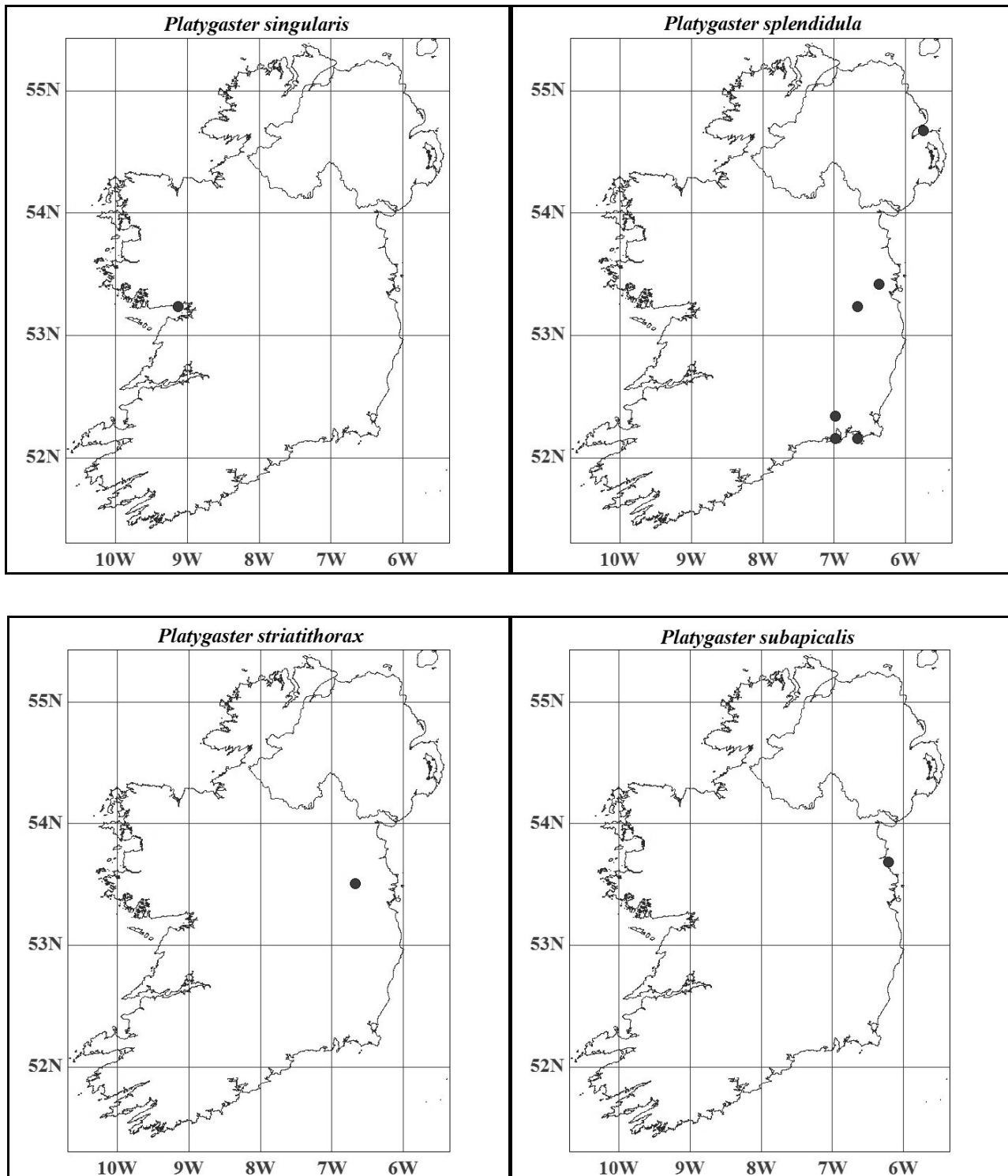
FIGURES 89-92. The known Irish distributions of *Platygaster* (*Platygaster*) *otanes*, *P. (P.) pedasus*, *P. (P.) pelias* and *P. (P.) philinna*.



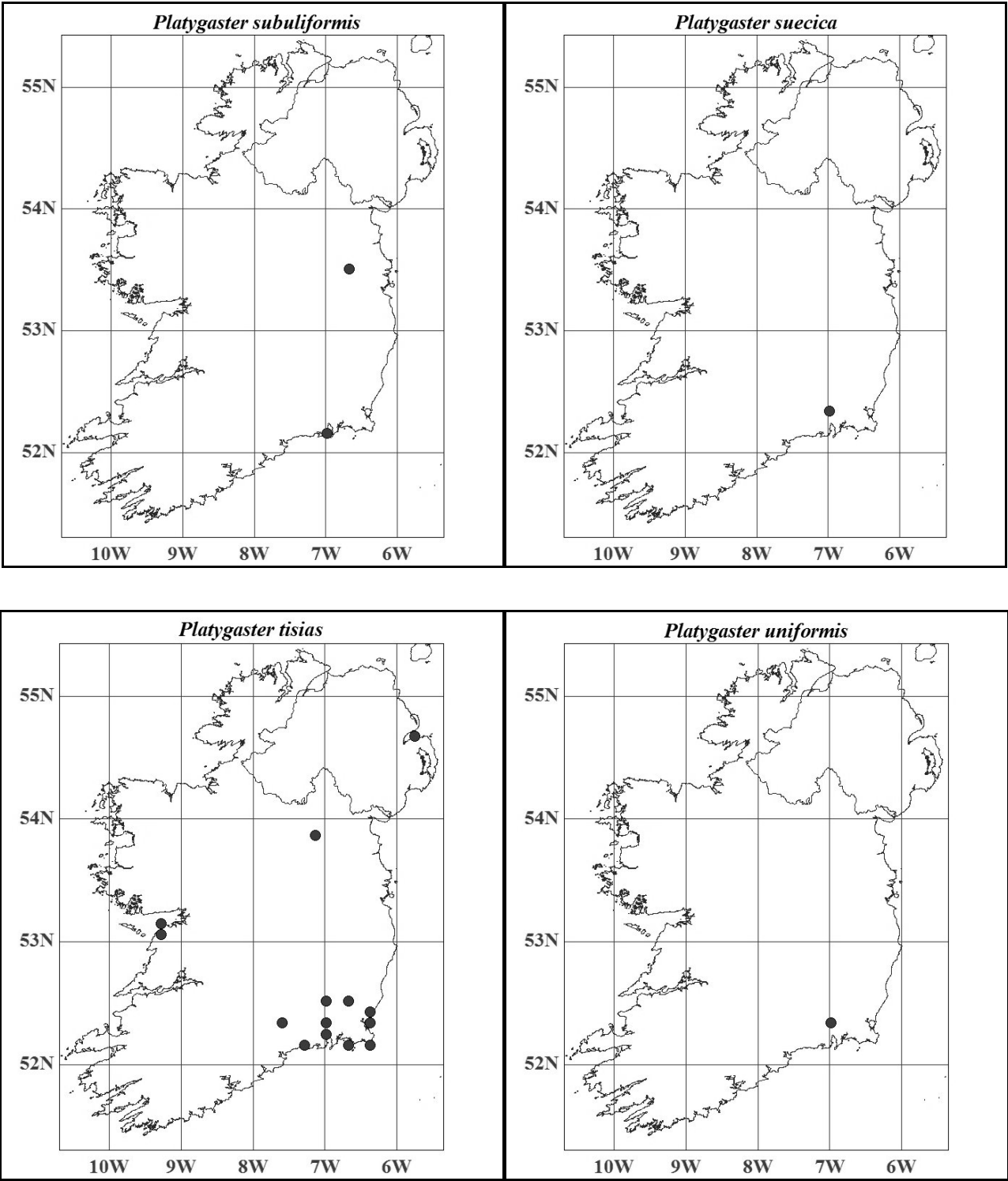
FIGURES 93-96. The known Irish distributions of *Platygaster* (*Platygaster*) *puccinii*, *P. (P.) quadriceps*, *P. (P.) sagana* and *P. (P.) signata*.



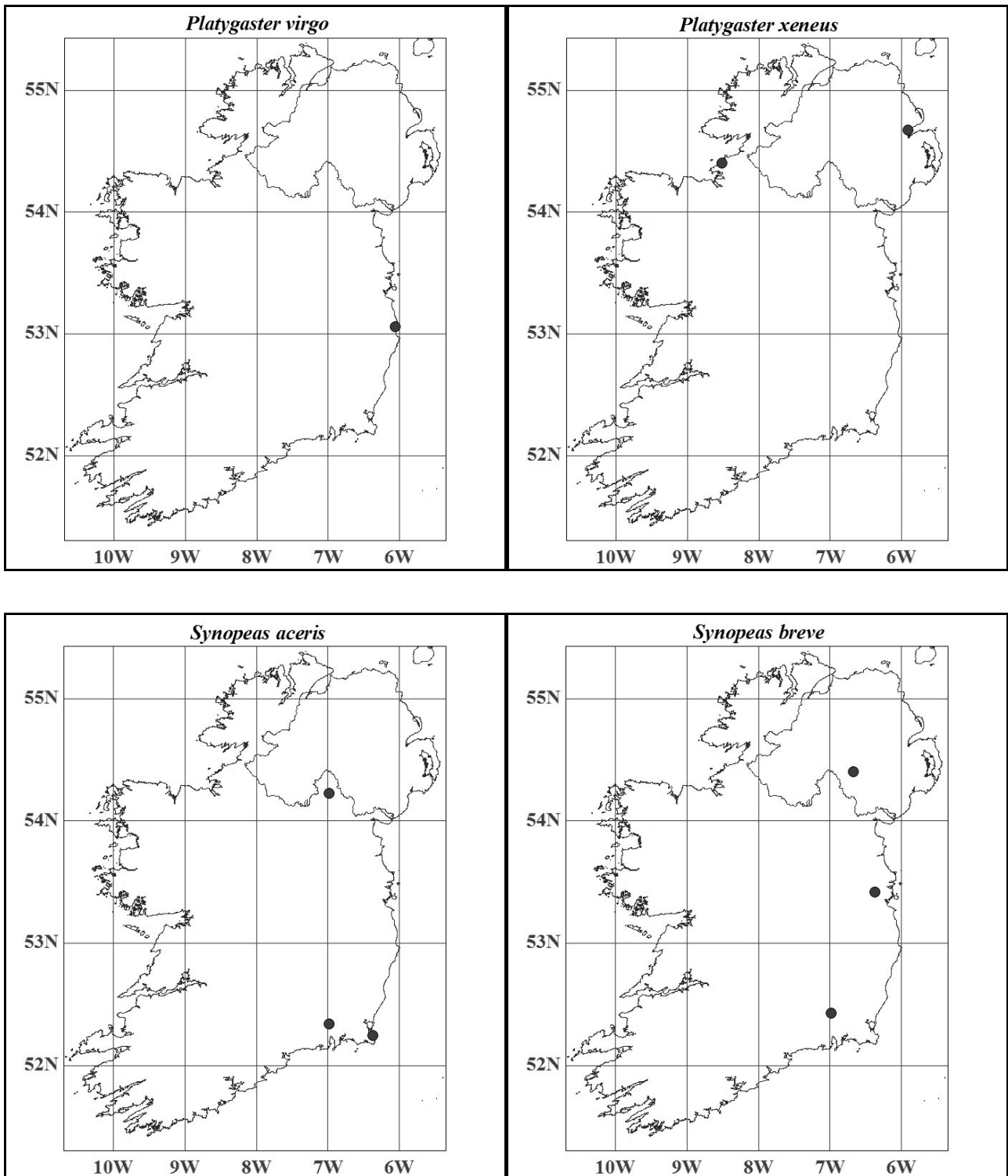
FIGURES 97-100. The known Irish distributions of *Platygaster* (*Platygaster*) *singularis*, *P. (P.) splendidula*, *P. (P.) striatithorax* and *P. (P.) subapicalis*.



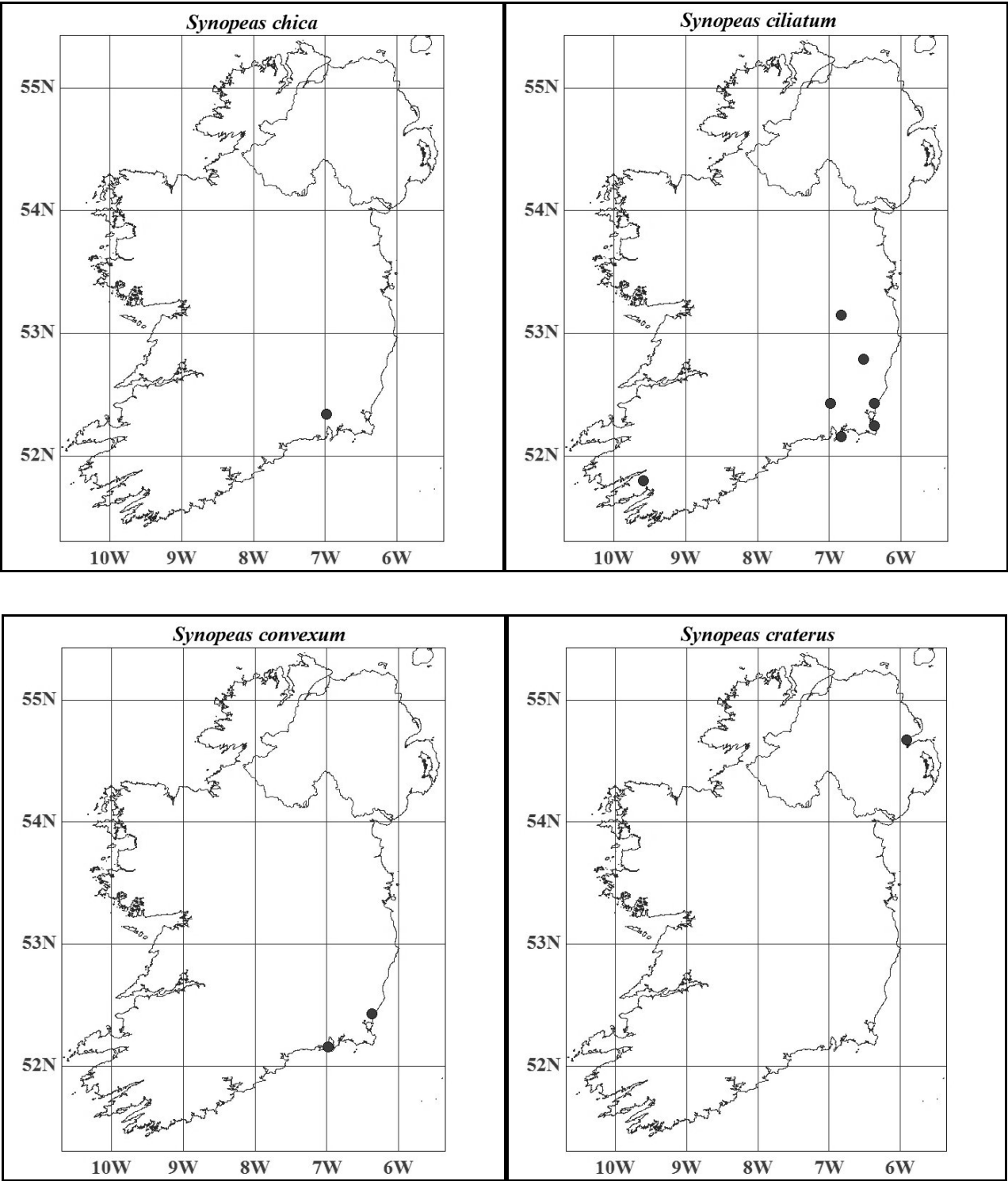
FIGURES 101-104. The known Irish distributions of *Platygaster* (*Platygaster*) *subuliformis*, *P. (P.) suecica*, *P. (P.) tisia* and *P. (P.) uniformis*.



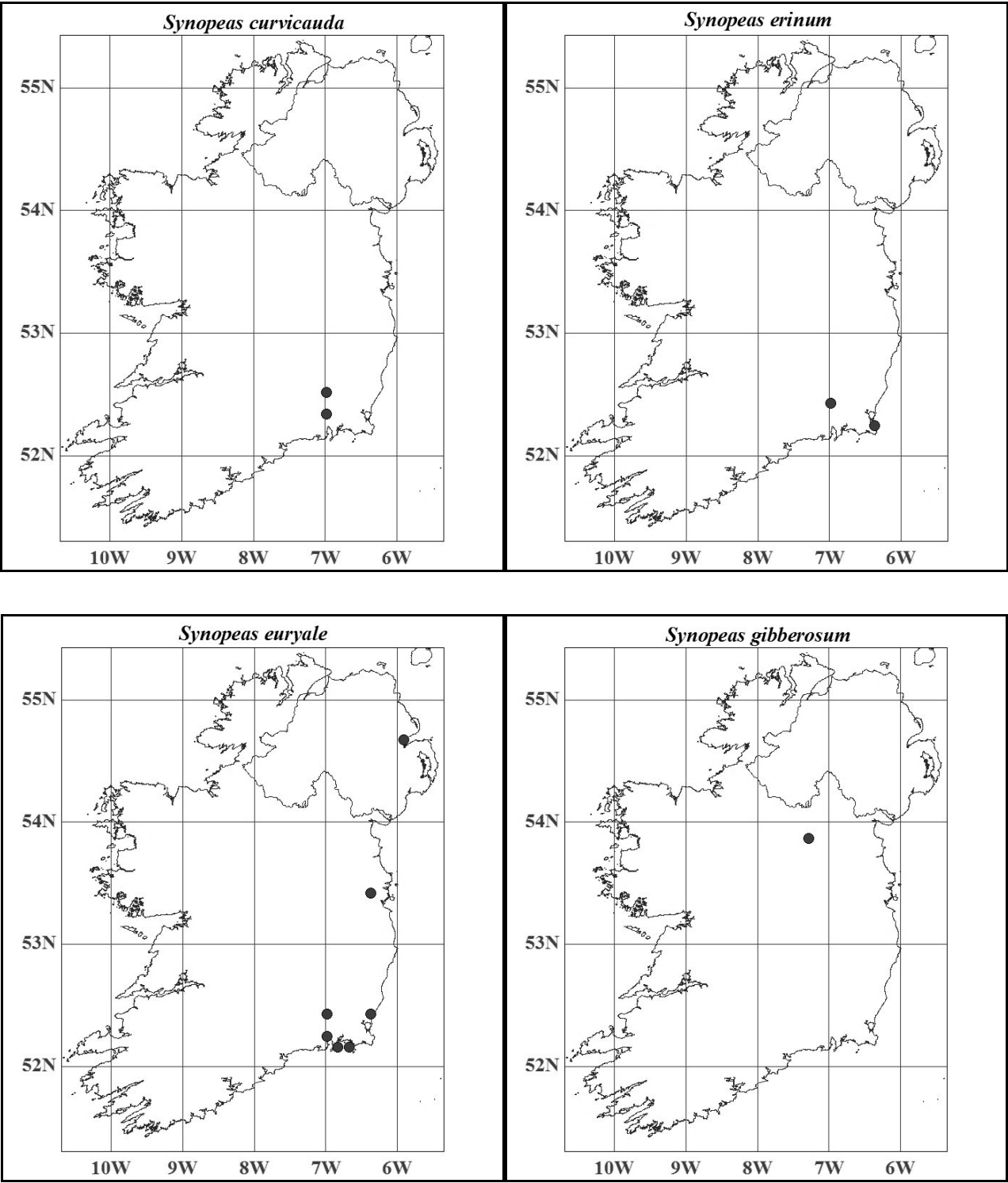
FIGURES 105-108. The known Irish distributions of *Platygaster* (*Platygaster*) *virgo*, *P. (P.) xeneus*, *Synopeas aceris* and *S. breve*.



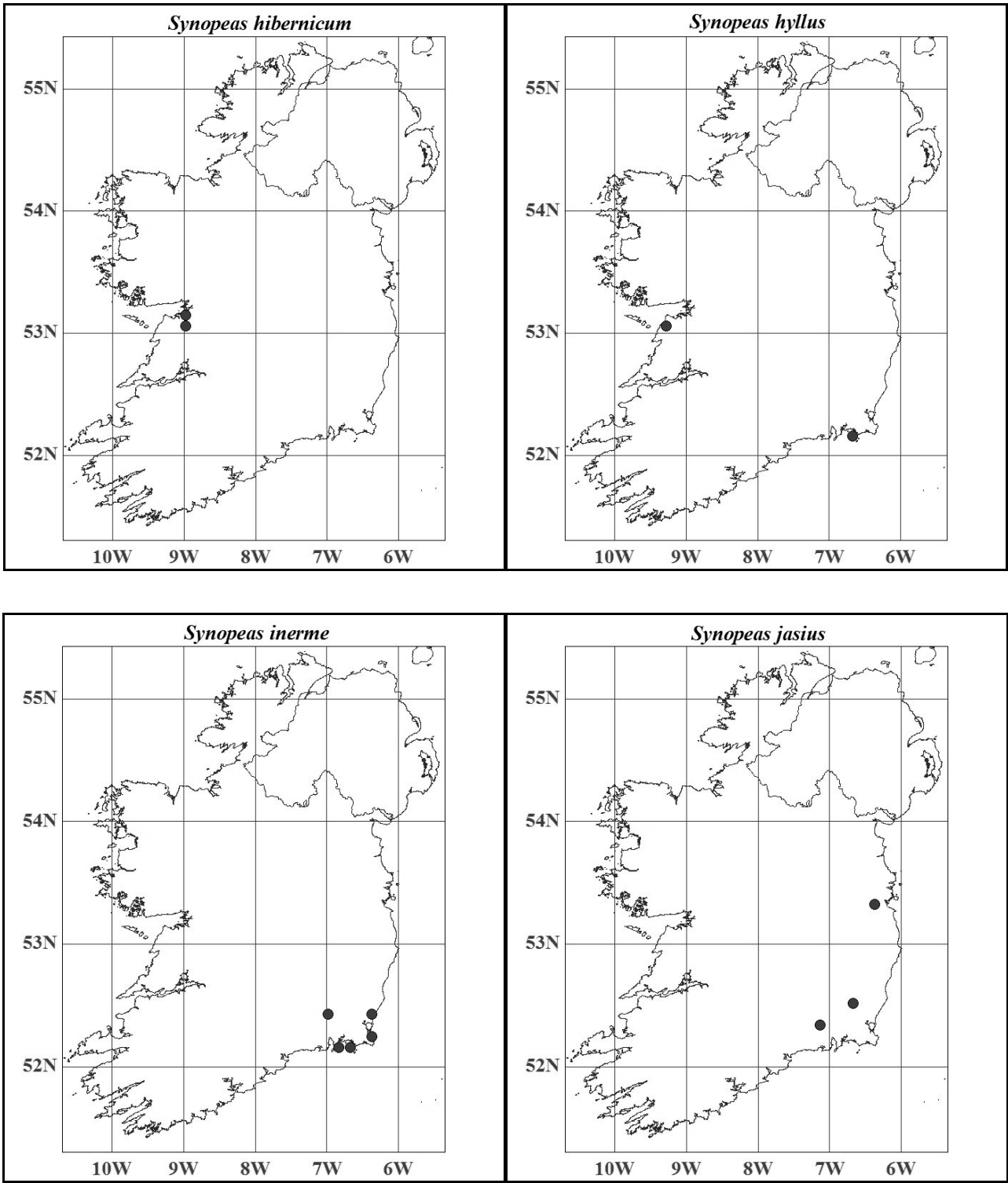
FIGURES 109-112. The known Irish distributions of *Synopeas chica*, *S. ciliatum*, *S. convexum* and *S. craterus*.



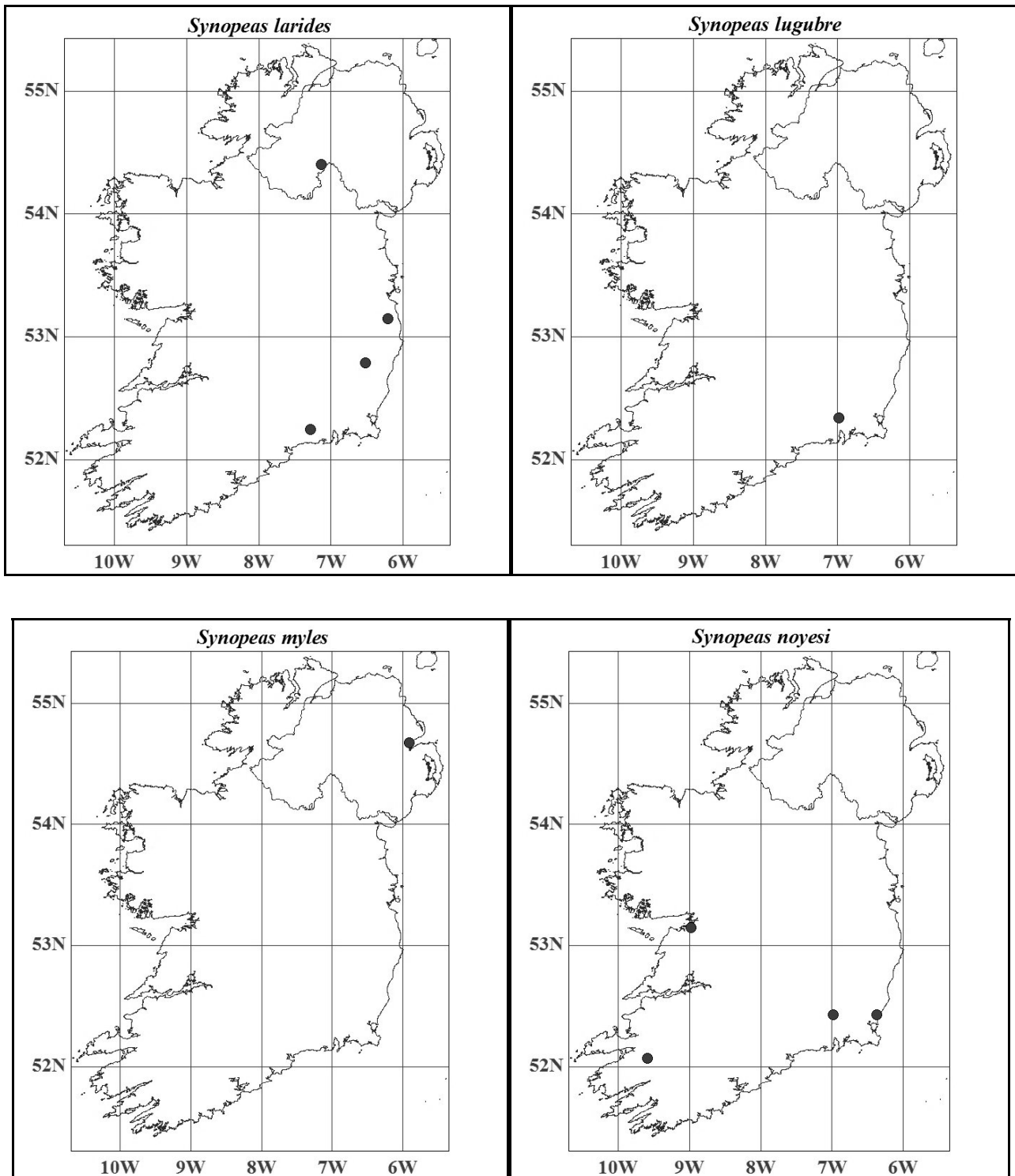
FIGURES 113-116. The known Irish distributions of *Synopeas curvicauda*, *S. erinum*, *S. euryale* and *S. gibberosum*.



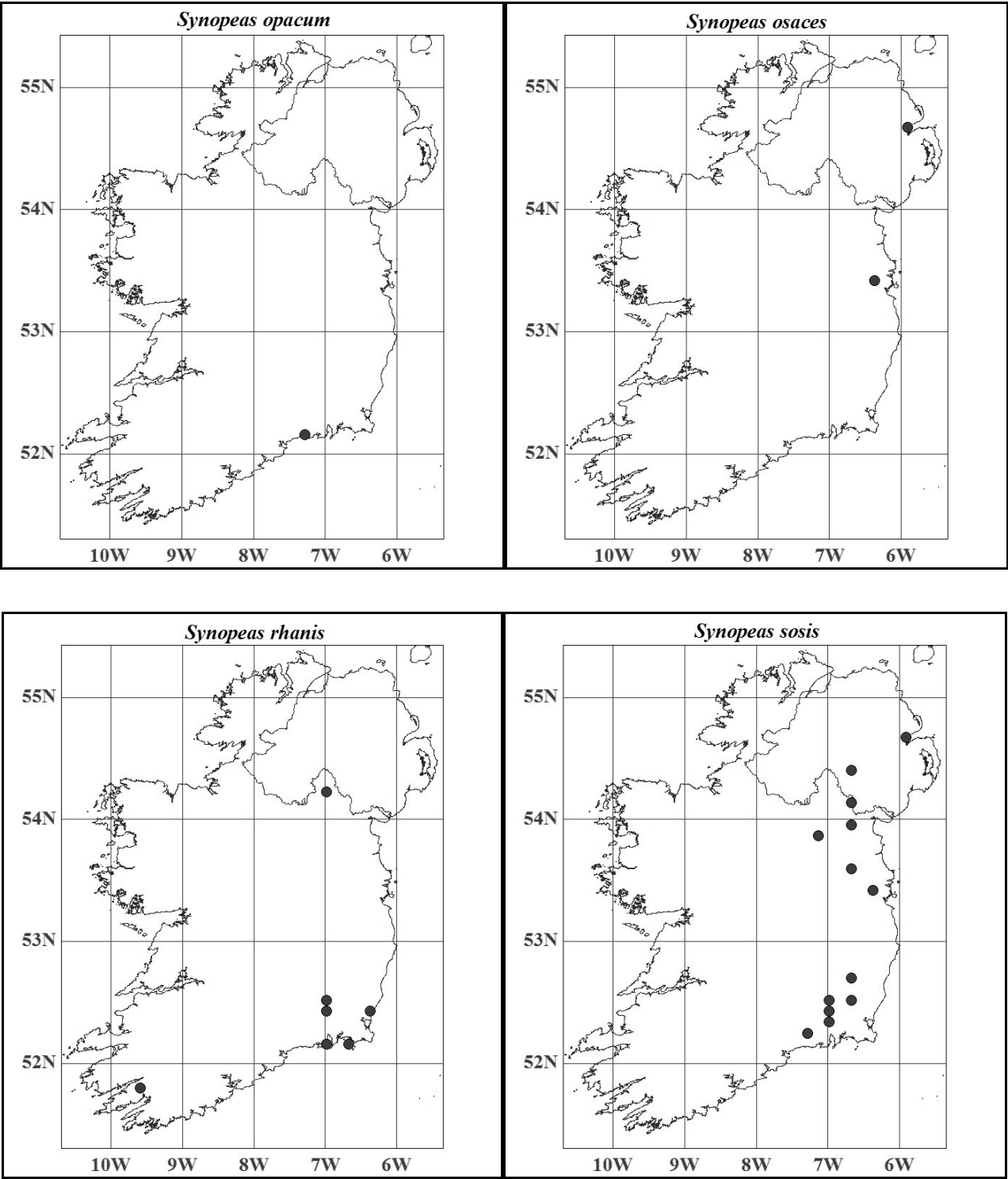
FIGURES 117-120. The known Irish distributions of *Synopeas hibernicum*, *S. hyllus*, *S. inerme* and *S. jasius*.



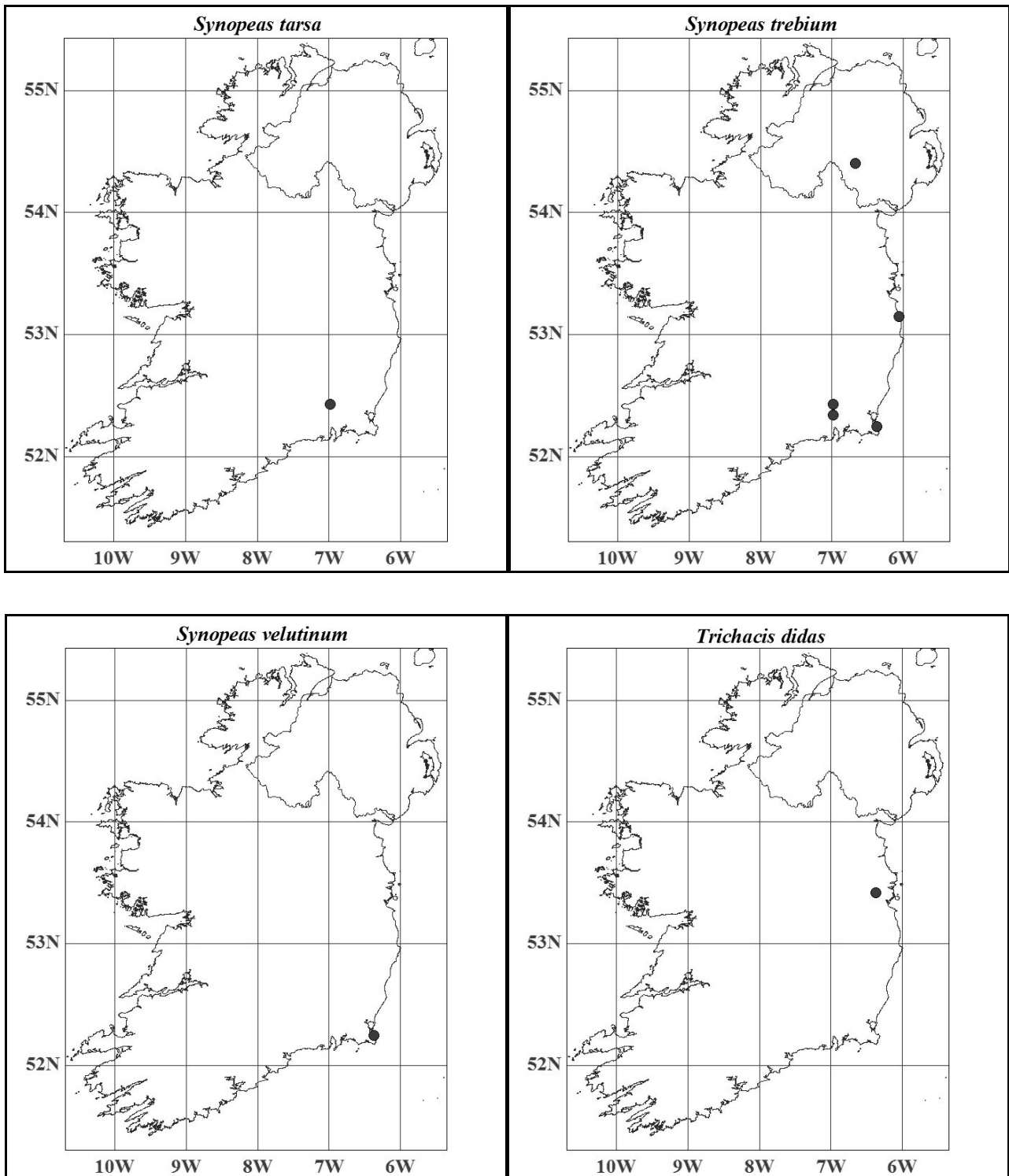
FIGURES 121-124. The known Irish distributions of *Synopeas larides*, *S. lugubre*, *S. myles* and *S. noyesi*.



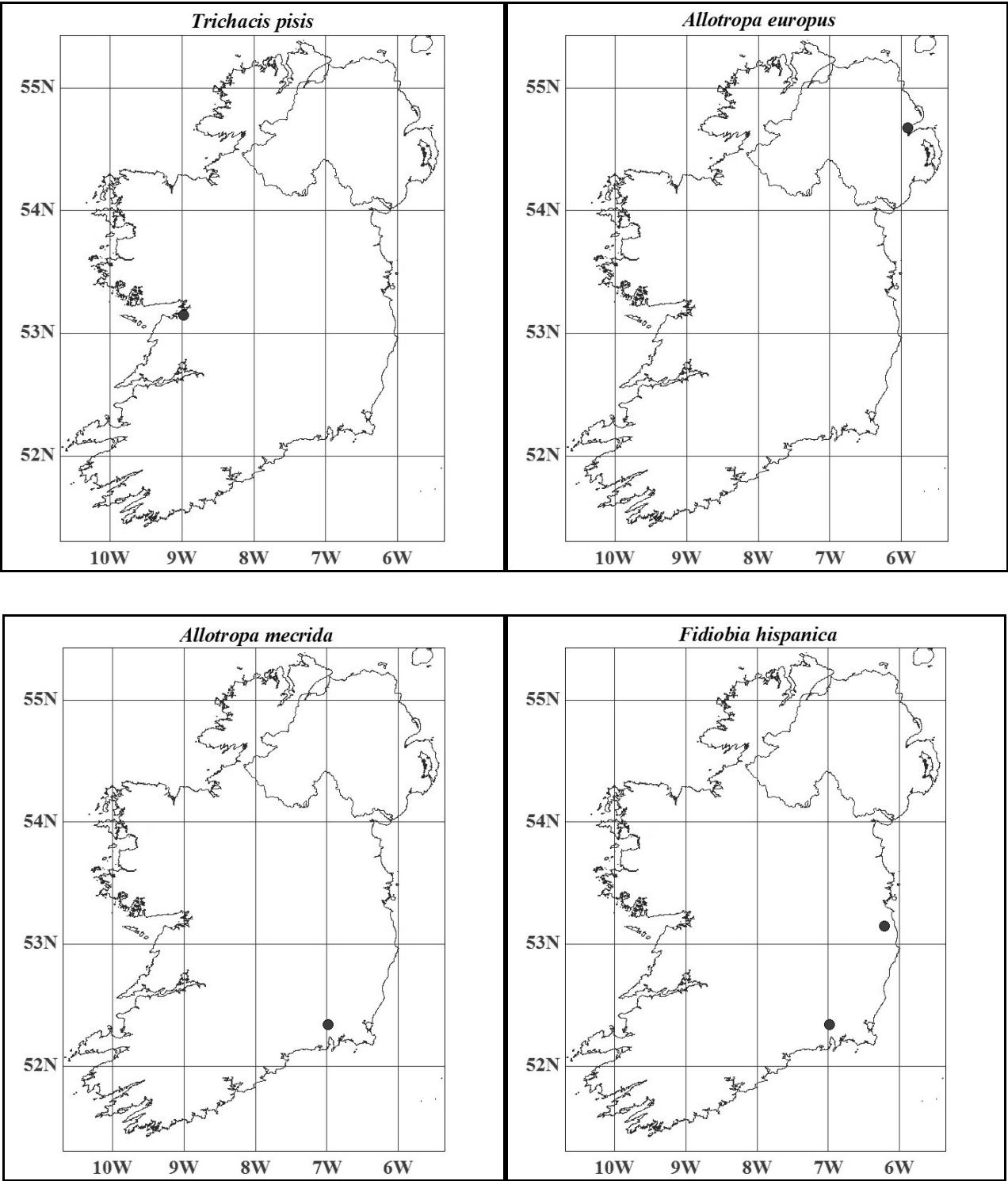
FIGURES 125-128. The known Irish distributions of *Synopeas opacum*, *S. osaces*, *S. rhanis* and *S. sosis*.



FIGURES 129-132. The known Irish distributions of *Synopeas tarsa*, *S. trebium*, *S. velutinum* and *Trichacis didas*.



FIGURES 133-136. The known Irish distributions of *Trichacis pisis*, *Allotropa europus*, *Allotropa mecrida* and *Fidiobia hispanica*.



FIGURES 137. The known Irish distribution of *Platystasius transversus*.

