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VOLUME 2

The species accounts (Gentianaceae to Characeae)	759
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N *Isoetes histrix* Land Quillwort

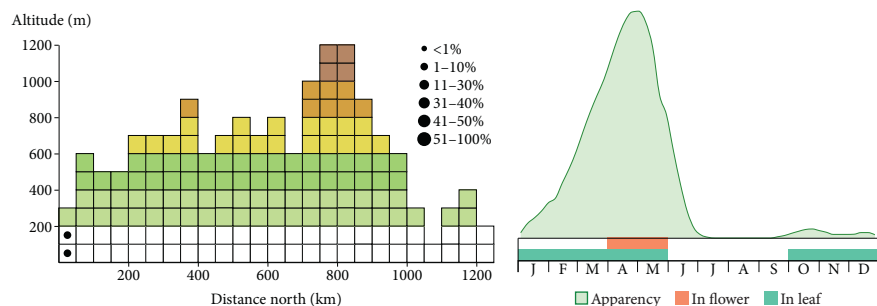
Bory

A small, summer-deciduous perennial growing from a 'corm'. It prefers skeletal acidic soils that are moist or flooded in winter but experience summer drought. A poor competitor, it is most frequent on pans of bare soil over south-facing serpentine rock outcrops, but also grows on erosion pans and footpaths. It also occurs in dune-slacks in Guernsey. Lowland.

Trends *I. histrix* was first detected in Guernsey in 1860 and only discovered in mainland Britain in 1917. The distribution of the species was considered stable at the 10 km square scale by the end of the last century (Preston *et al.*, 2002a). Detailed monitoring, however, has since revealed a c. 90% decline in total population size since an intensive survey was undertaken in 1982 (Pearman *et al.*, 2014). Surveys in subsequent years have

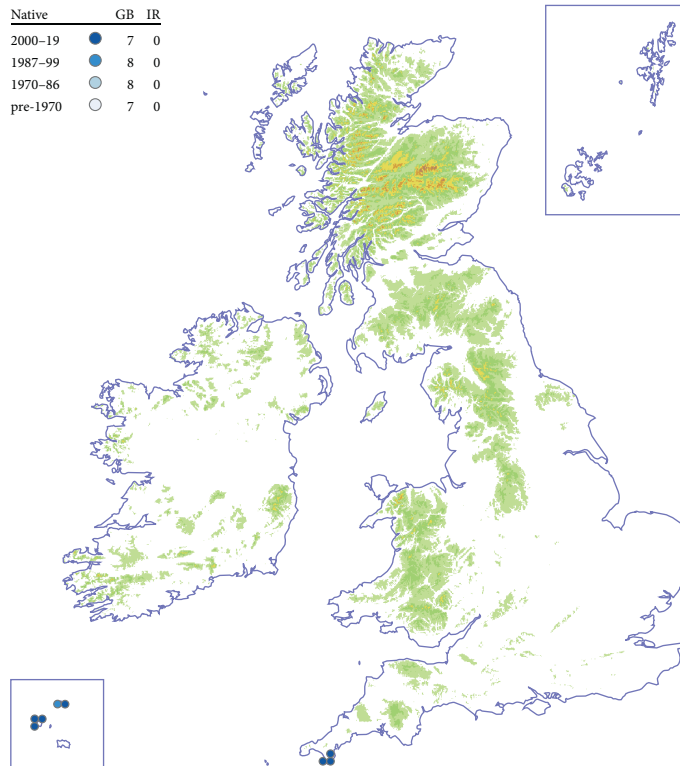
revealed the situation to be less severe, with large annual fluctuations in visible plants dependent on climate. A few sites have been lost due to a lack of grazing, to fire and to conversion to cultivation, but it has colonized areas from which turf has been stripped. Its overall 10 km square range here at its northernmost global limit has remained stable.

Biogeography Mediterranean-Atlantic element.



	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend

Native	GB	IR
2000-19	7	0
1987-99	8	0
1970-86	8	0
pre-1970	7	0



Key refs Bangerter *et al.* (1978), Page (1997), Pearman *et al.* (2014), Wigginton (1999).

T.D. DINES & F.J. RUMSEY

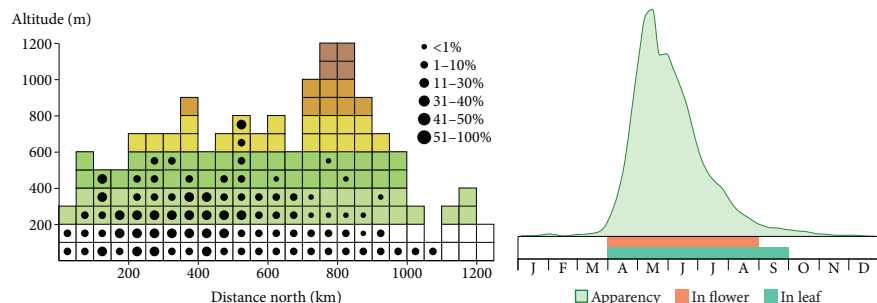
N *Ophioglossum vulgatum* Adder's-tongue

L.

A rhizomatous, deciduous fern found on mildly acidic to base-rich soils in open woodland, meadows and damp pastures, and on sand dunes, under bracken on heathlands, and on peat in regularly mown fen. 0-810 m (Great Dun Fell, Cumberland).

Trends *O. vulgatum* is an inconspicuous species which is best searched for in early spring, being easily overlooked later in the year. Although under-recording may have contributed to some apparent losses shown on the map, it has certainly been extirpated from many lowland sites due to the destruction or neglect of its principal habitats, though there are many new records across its range since 2000 due to fuller recording, most notably in Ireland and north-western Scotland.

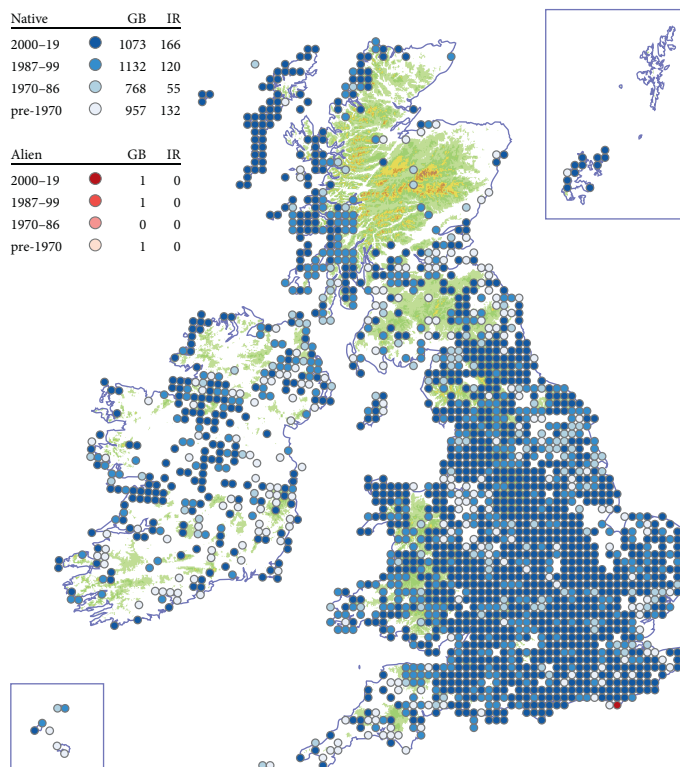
Biogeography Circumpolar Temperate element, with a disjunct distribution.



	GB	IR
Long term	↓ ↓ ↓ ◆ ↑ ↑	↓ ↓ ↓ ◆ ↑ ↑
Short term	↓ ↓ ↓ ◆ ↑ ↑	↓ ↓ ↓ ◆ ↑ ↑

Native	GB	IR
2000-19	1073	166
1987-99	1132	120
1970-86	768	55
pre-1970	957	132

Alien	GB	IR
2000-19	1	0
1987-99	1	0
1970-86	0	0
pre-1970	1	0



Key refs Bangerter *et al.* (1978), Page (1997).

A.C. JERMY & P.A. STROH

N *Ophioglossum azoricum* Small Adder's-tongue

C.Presl

A small rhizomatous, deciduous fern of gently sloping coastal grasslands, cliff-tops, damp dune-slacks and sandy maritime heaths on both acidic and alkaline soils. Most sites are in frost-free situations near to and facing the sea, with some exceptions, as in South Somerset and in the New Forest (South Hampshire), where it occurs in shallow soils on old aerodromes, car parks, tracks and around pools. Generally lowland, but reaching 380 m at Coumshingaun Lough in the Comeragh Mountains (County Waterford).

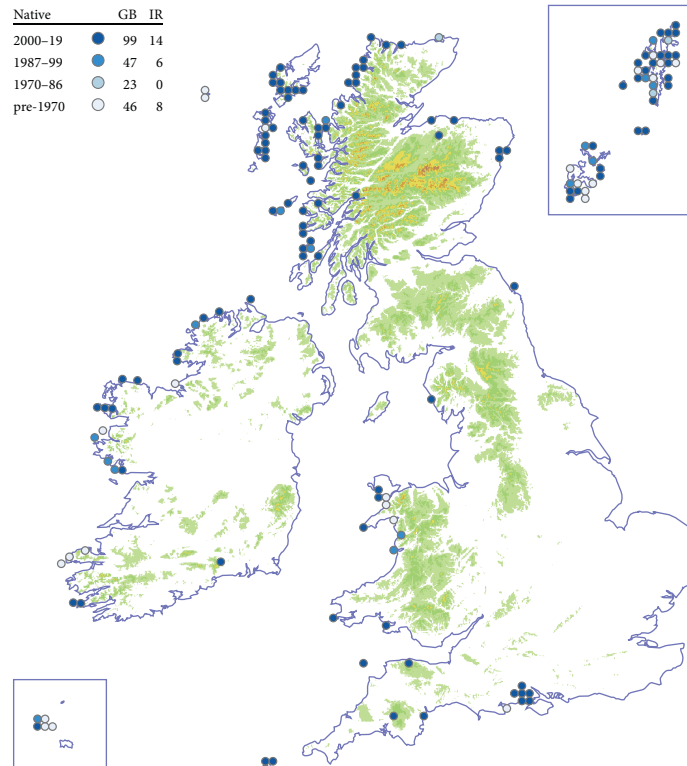
Trend In the past some small plants of *O. vulgatum* have been misidentified as *O. azoricum*, but the morphological distinctions are now better known and molecular techniques have also helped clarify the identity of plants. As a consequence the species is much better recorded. Though diminutive, it

has been re-found in most areas from which it has been previously recorded.

Biogeography Suboceanic Boreo-temperate element.

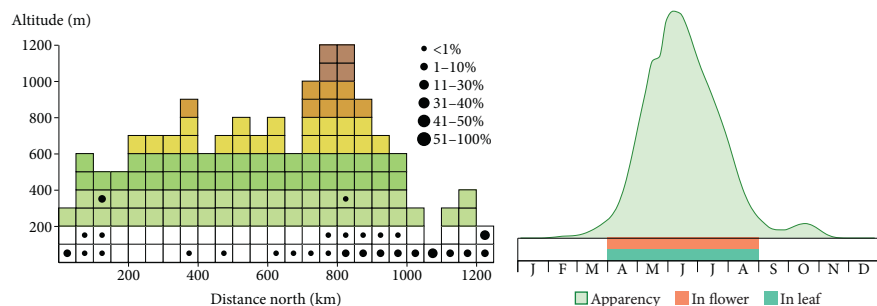
Native	GB	IR
2000-19	99	14
1987-99	47	6
1970-86	23	0
pre-1970	46	8

	GB	IR
Long term	No trend	No trend
Short term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑



Key refs Bangerter *et al.* (1978), Page (1997), Paul (1987), Stewart *et al.* (1994).

A.C. JERMY & F.J. RUMSEY



N *Ophioglossum lusitanicum* Least Adder's-tongue

L.

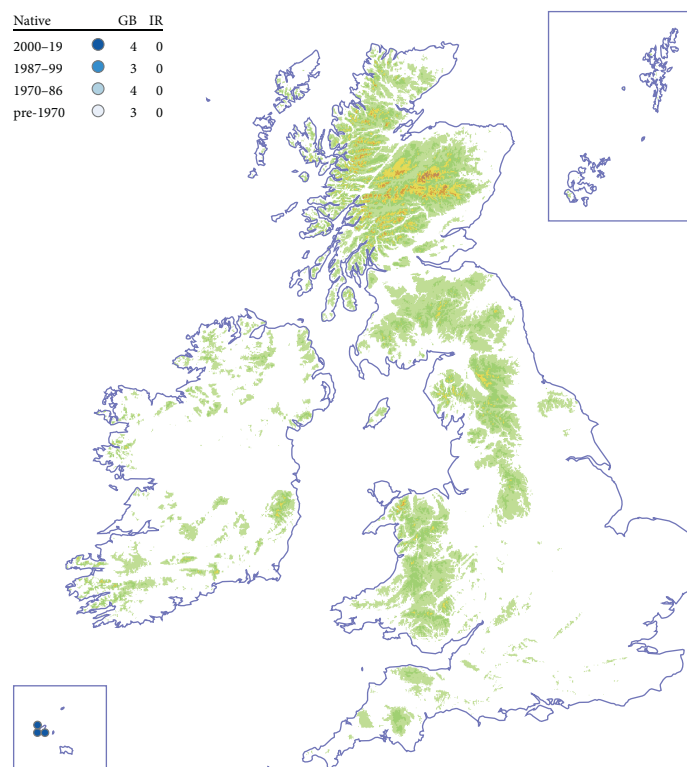
A very small, rhizomatous, summer-deciduous fern, growing in open therophyte communities and parched acidic grassland on sea-cliffs and rock promontories. It prefers thin peaty soils, but is also found over shallow blown sand over acidic rocks. All sites are unshaded and exposed, but are warm and south- or south-west-facing. Lowland.

Trends *O. lusitanicum* was first discovered in Guernsey in 1853, but not found on the Isles of Scilly until 1950. In Guernsey, many sites have been lost to scrub encroachment by *Ulex europaeus* and other woody species owing to undergrazing.

Biogeography Mediterranean-Atlantic element; also in central Asia.

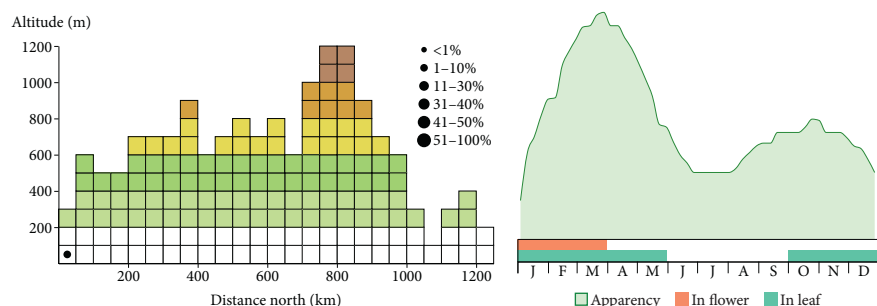
Native	GB	IR
2000-19	4	0
1987-99	3	0
1970-86	4	0
pre-1970	3	0

	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend



Key refs Bangerter *et al.* (1978), McClintock (1975), Page (1997), Wigginton (1999).

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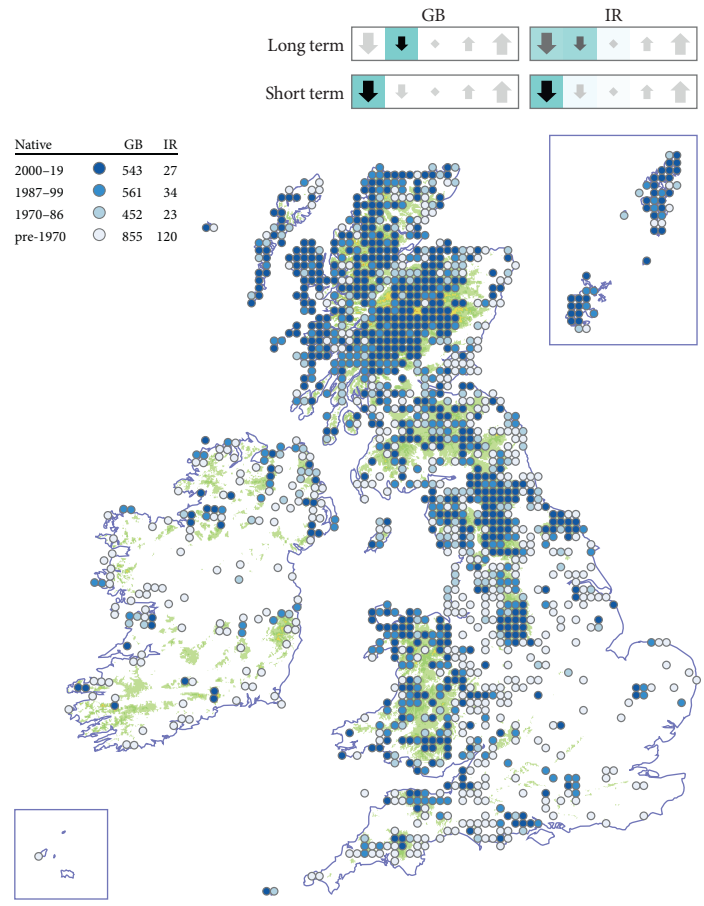
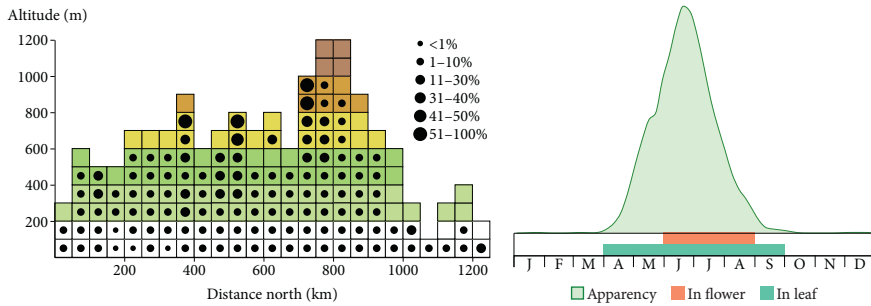
N *Botrychium lunaria* Moonwort
(L.) Sw.

A small perennial fern, often occurring singly or in small populations, which may show marked annual fluctuations. It prefers well-drained sites, usually with a high base-content, although it can occur on more acidic substrates. Habitats historically included unimproved meadows, pastures, and even open woodland, but now it is most frequent by upland tracksides and on grassy rock ledges. In the lowlands it is a plant of fixed sand dunes, lead-mine waste, slag heaps, quarry spoil and low grass-heath associated with roadsides and disused runways. 0–1,155 m (Ben Lawers, Mid Perthshire).

Trends *B. lunaria* was lost from many lowland sites before 1930, and this loss has continued, primarily due to grassland improvement, eutrophication and scrub invasion. There appear to have been some losses in upland areas, but the

species can easily be overlooked and may therefore be somewhat under-recorded. Recent molecular studies indicate this to be a complex of many cryptic species, several of which are to be expected in our area. Of these and amongst the most morphologically distinct is the recently recognized *B. nordicum*, mapped here separately. Further work is needed to establish the identity and distribution of this and other novel segregates.

Biogeography Circumpolar Boreo-temperate element.



Key refs Bangerter *et al.* (1978), Page (1997), Stroh *et al.* (2019).

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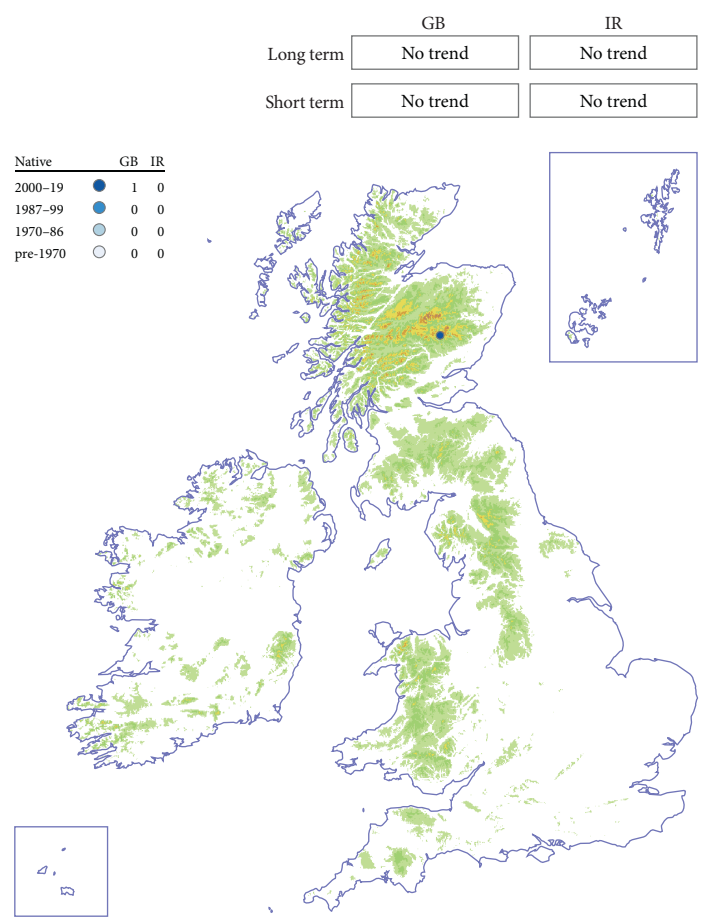
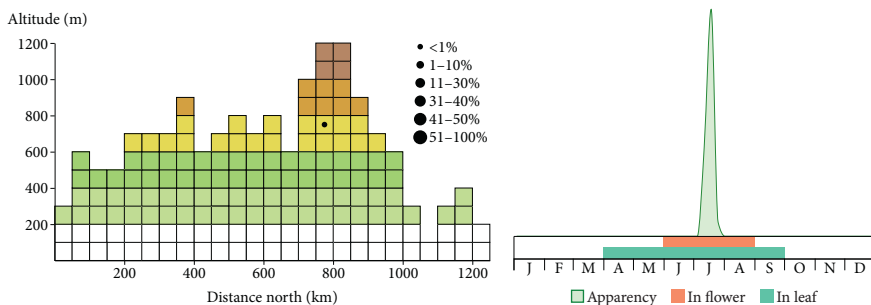
N *Botrychium nordicum* Nordic Moonwort
Stensvold & Farrar

A small perennial fern of disturbed grassy and rocky upland heath associated with ski-lifts, but it is likely to be more widely distributed in similar montane habitats to *B. lunaria*. Upland, to at least 755 m (Meall Odhar, South Aberdeenshire).

Trends A cryptic species, only reported in our area recently following molecular studies. Morphologically, *B. nordicum* is primarily distinguished from *B. lunaria* by the deeply incised pinnae margins, which are consistently present in the former but “usually not” in the latter (Stensvold & Farrar, 2017). In their original description of *B. nordicum*, Stensvold & Farrar (2017) also comment on the shorter length of the common stalk, *i.e.* the section of stem below the first pinnae (and point of divergence of the sporophore when fertile). The recent Scottish examples all have rather

laxly arranged sporangia, although this character has not previously been noted as diagnostic. The *B. lunaria* aggregate has declined most severely in lowland areas, whereas this segregate appears to be exclusively upland. Morphologically similar plants have historically been collected from over 20 British and Irish vice-counties but these are yet to be confirmed as this taxon by molecular means.

Biogeography Native throughout the Boreal and Arctic, from Greenland, Iceland, and the Nordic region, reaching its southern limit in Scotland.



Key refs Stensvold & Farrar (2017).

F.J. RUMSEY

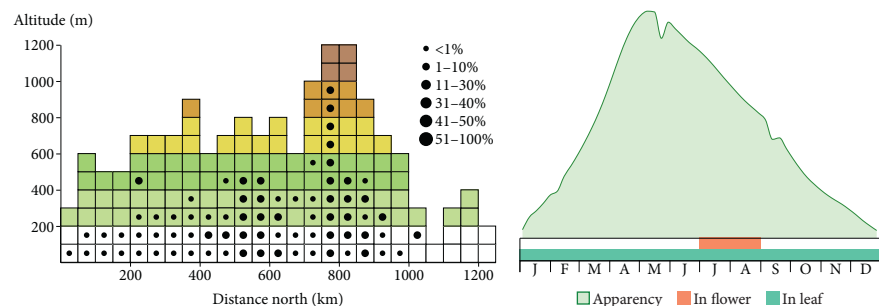
N *Equisetum hyemale* Rough Horsetail

L.

A slow-growing, evergreen horsetail forming colonies of shoots from branching rhizomes. It prefers heavy soils derived from sand or clay which are permanently moist and have a high mineral and silica content. It is usually found in shaded open woodland beside streams and rivers, but also grows in base-rich moorland flushes and sand dunes. 0–920 m (Coire na Coichille, Westernness).

Trends Many new sites for *E. hyemale* have been discovered in recent decades, some perhaps of garden origin. Most losses occurred before 1930, probably due to drainage and an increase in grazing and trampling of riverbanks by livestock.

Biogeography Circumpolar Boreo-temperate element.



Native	GB	IR
2000–19	174	89
1987–99	122	60
1970–86	106	41
pre-1970	175	65

Alien	GB	IR
2000–19	24	1
1987–99	3	0
1970–86	4	0
pre-1970	5	0

Key refs Bangerter *et al.* (1978), Page (1997).

C. DIXON & T.D. DINES

Hy *Equisetum hyemale* × *variegatum* = *E. × trachyodon* Mackay's Horsetail

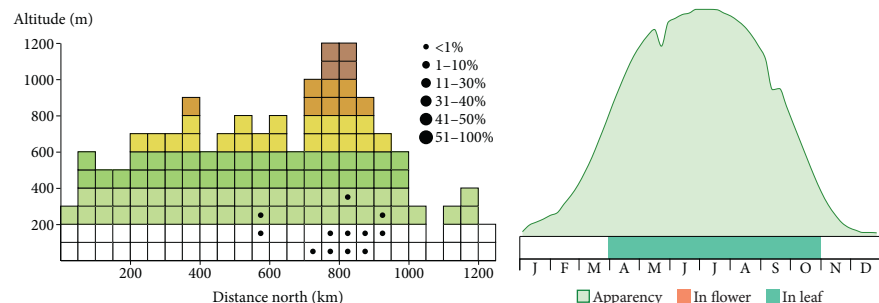
A. Braun

A rhizomatous, evergreen hybrid of mostly base-rich habitats, growing in limestone flushes, on soil, shingle and rocks on streamsides, riverbanks and lake shores, on cliffs in riverside woodland, on banks and in hollows and slacks in coastal sand dunes, and in peaty turf in coastal machair. Populations are persistent, sterile, and spread by rooting stem and rhizome fragments. Though the range of the hybrid falls within the general overlap of the parent species, it may be found in the absence of one or both of them (*e.g.* Pearman & Preston, 2000). *E. × trachyodon* can appear strikingly different from either parent, but variation in *E. variegatum* can cause plants of this species to be confused with the hybrid. Lowland.

A spontaneous hybrid (native × native).

Trends The distribution of *E. × trachyodon* appears to be stable, and although much better known than when mapped by Perring & Sell (1968), it probably remains under-recorded. It is unclear whether losses are genuine or attributable to under-recording.

Biogeography Widespread in central and northern Europe, Greenland and North America.



	GB	IR
2000–19	11	55
1987–99	9	34
1970–86	7	23
pre-1970	6	31

Key refs Pearman & Preston (2000), Stace *et al.* (2015).

P. ACOCK & T.D. DINES

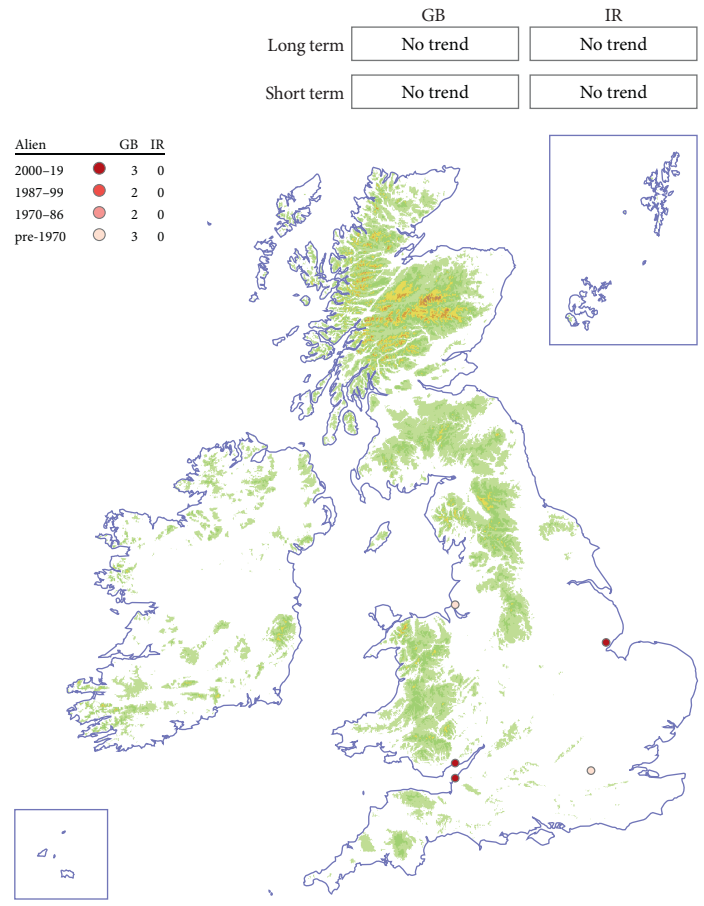
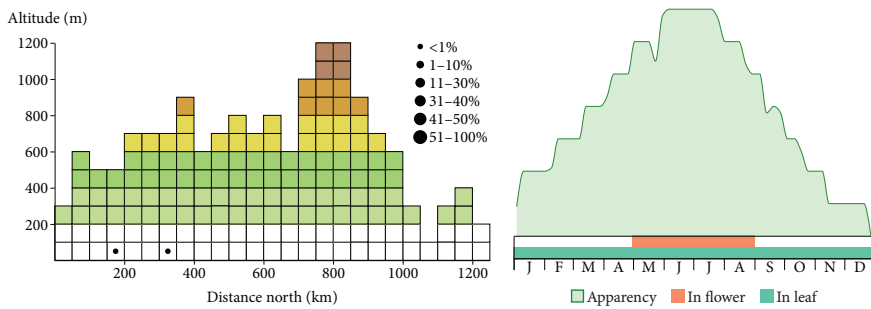
Ne *Equisetum ramosissimum* Branched Horsetail

Desf.

An erect-sprawling, semi-evergreen or deciduous horsetail, found growing in rough grassland near the sea, on sand or clay soil, where it is long-persistent. Lowland.

Trends *E. ramosissimum* was once regarded as possibly native (recorded at Hounslow Heath in 1705) but is now considered to have been introduced. In South Lincolnshire it was found in 1947 on a riverbank that was straightened between 1880 and 1887, where it is thought to be a ballast alien. In North Somerset it was not correctly identified until 1986, despite having been known at the site since 1963. It survives in both these two sites but may have been transient in Newport (Monmouthshire) where it was recorded once, in 2005.

Biogeography A Eurasian Southern-temperate species. Very widespread in warm-temperate parts of the world.



Key refs Alston (1949), Bangerter *et al.* (1978), FitzGerald & Jermy (1987).

T.D. DINES & J.O. MOUNTFORD

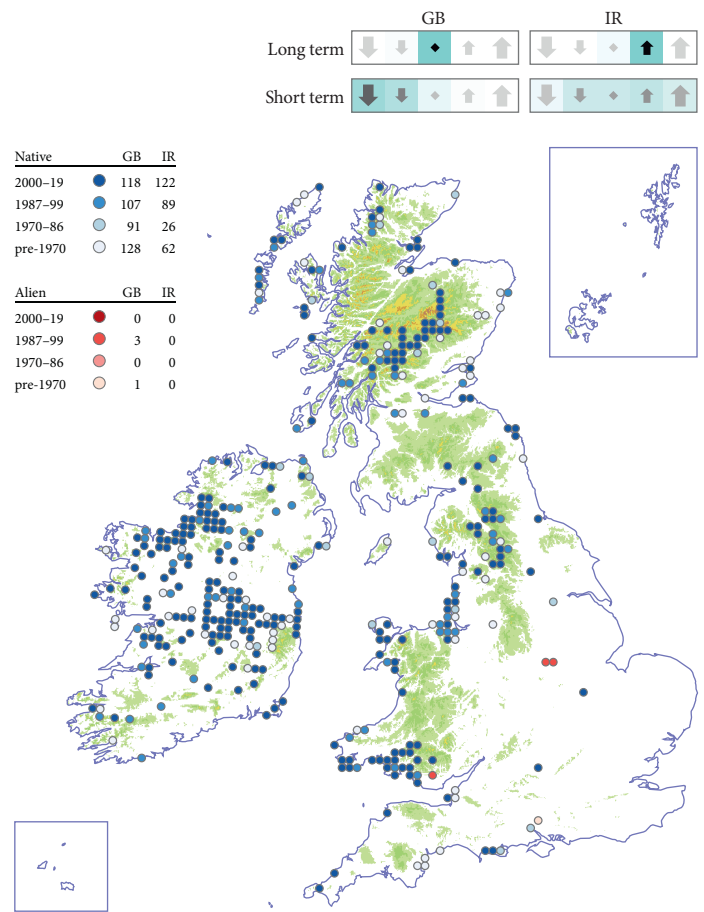
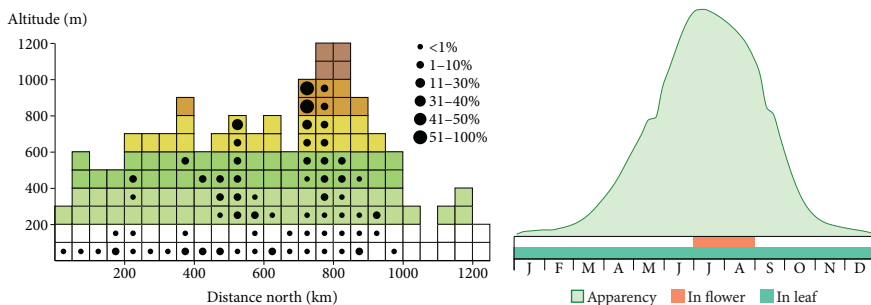
N *Equisetum variegatum* Variegated Horsetail

Schleich. ex F.Weber & D.Mohr

An evergreen, prostrate horsetail found in a wide variety of habitats, including dune-slacks, river shingle, upland flushes and stony loch-shores. More rarely it is also found in quarries and sand- and gravel-pits. It is a calcicole and a poor competitor; its sites are usually open and often winter-flooded. In Ireland a more vigorous, upright ecotype is found mostly on canal banks. 0-1,040 m (Ben Lawers, Mid Perthshire).

Trends The overall 10 km square distribution has increased slightly since the 1960s, especially in Ireland, presumably due to more systematic recording. However, there is also some evidence of local decline; upland sites are sensitive to over-stocking, whilst lowland populations have been lost due to drainage and sand dune development.

Biogeography Circumpolar Boreo-arctic Montane element.



Key refs Bangerter *et al.* (1978), Page (1997), Stewart *et al.* (1994).

C. DIXON & T.D. DINES

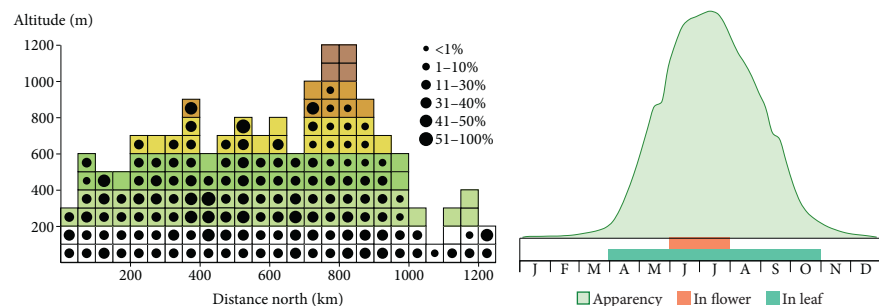
N *Equisetum fluviatile* Water Horsetail

L.

A deciduous horsetail of a wide variety of aquatic and semi-aquatic habitats, from ditches and small ponds to large lakes and sheltered rivers. It tolerates a remarkable range of water and substrate pH, nutrient levels, substrate type and water depth, and is often a pioneer species in freshwater successions. 0–930 m (Breadalbanes, Mid Perthshire).

Trends Like many aquatic plants, this species is now much better recorded since the 1960s. Most of the losses in the southern and eastern lowlands of England have taken place since this time, and declines in these areas would appear to have continued into the 21st century, reflecting the loss of small wetlands and other suitable habitat.

Biogeography Circumpolar Boreo-temperate element.



Native	GB	IR
2000–19	2298	866
1987–99	2243	791
1970–86	1530	190
pre-1970	2012	584

Alien	GB	IR
2000–19	2	0
1987–99	3	0
1970–86	1	0
pre-1970	1	0

Key refs Bangerter *et al.* (1978), Grime *et al.* (2007), Page (1997), Preston & Croft (1997).

C. DIXON & T.D. DINES

Hy *Equisetum arvense* × *fluviatile* = *E.* × *litorale* Shore Horsetail

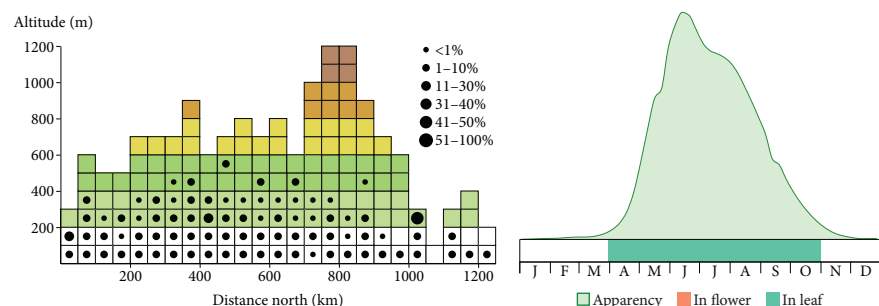
Kühlew. ex Rupr.

A vigorous, deciduous herb found in a wide range of habitats, often in the absence of one or both parents. It has been recorded from disturbed, moist soil in gravel-pits and quarries, road and railway cuttings, dune-slacks, eroding stream banks, ditches, moist, muddy or sandy ground or shingle at the edges of still and flowing waters, canal banks, flushes, fens, cut-over bogs, damp grassland, open willow scrub and the edges of moist woodland. The spores are completely abortive. Generally lowland, but with some recent records at higher altitudes (e.g. at c. 400 m near Hob Hay, Staffordshire). A spontaneous hybrid (native × native).

Trends This is the most frequent *Equisetum* hybrid, though doubts about its hybrid nature lingered until the works of Manton (1950) and Hauke (1965).

It is much better recorded this century, though not consistently so, and the map shows much recorder bias. However, it appears to be genuinely more frequent in Ireland and western Britain.

Biogeography Widespread in the Boreal and Temperate regions of Europe (north to Iceland), Asia and North America.



	GB	IR
2000–19	447	248
1987–99	252	157
1970–86	145	36
pre-1970	114	73

Key refs Hauke (1965), Manton (1950), Stace *et al.* (2015).

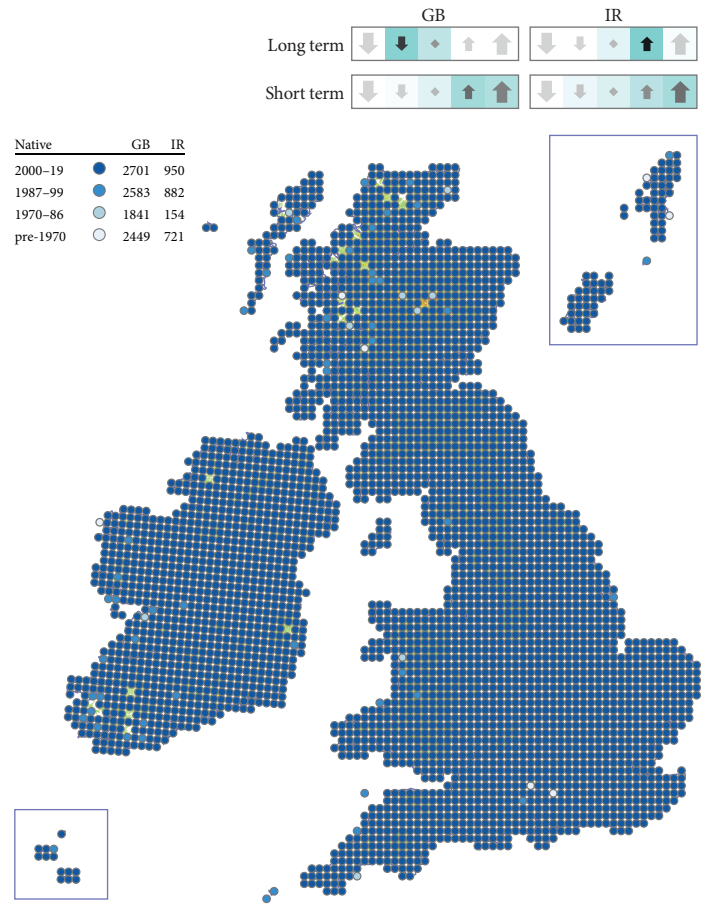
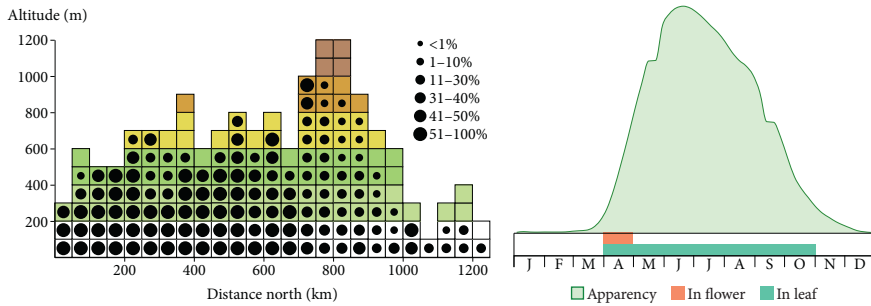
C. DIXON, T.D. DINES & P. ACOCK

N *Equisetum arvense* Field Horsetail

L.
A deciduous horsetail of riverbanks, fixed dune grassland, sea-cliffs and montane flushes, but also frequent in anthropogenic habitats. Being long-lived, vigorous, resistant to herbicides and tolerant of drier conditions than other *Equisetum* species, it is now frequent on pavements, roadsides, railways, paths, soil banks and in highly disturbed habitats such as waste ground, quarries, gardens, allotments and arable land, where its spread is assisted by rhizome fragments. 0–1,010 m (Beinn Heasgarnich, Mid Perthshire).

Biogeography Circumpolar Wide-boreal element.

Trends *E. arvense* is near-ubiquitous at the 10km square scale and shows little change in distribution since the 1960s, except in Ireland and Scotland due to more systematic recording in recent decades.



Key refs Bangerter *et al.* (1978), Cody & Wagner (1980), Grime *et al.* (2007), Page (1997).

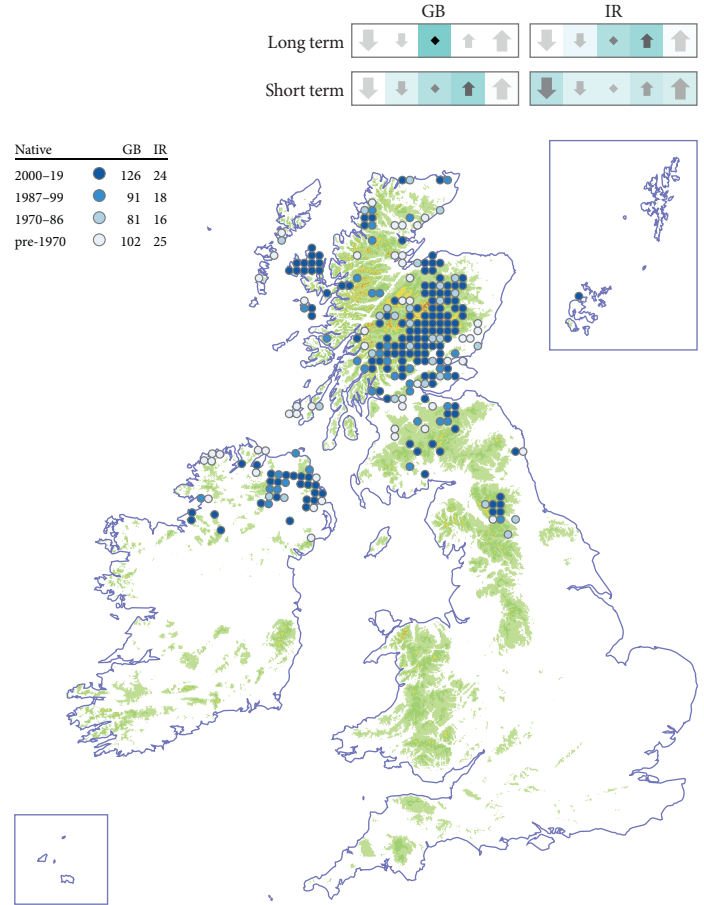
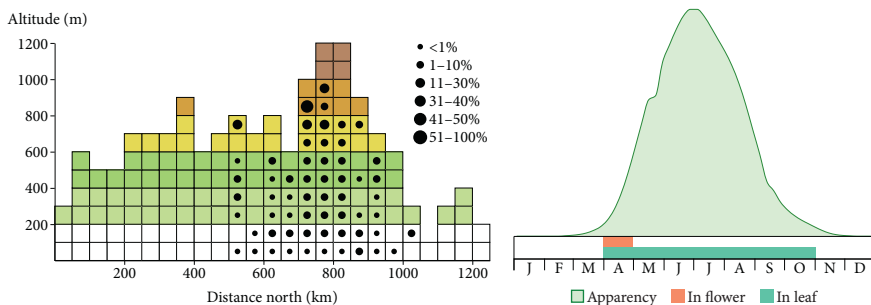
C. DIXON & T.D. DINES

N *Equisetum pratense* Shady Horsetail

Ehrh.
An evergreen horsetail, typically found on sloping sites where the substrate is derived from calcareous alluvial silts or sand, especially lightly wooded stream banks in the lower parts of upland valleys. It can also extend onto open moorland, and is found on grassy slopes beneath base-rich upland cliffs. 0–920 m (Garbh Choire, Angus).

Biogeography Circumpolar Boreal-montane element.

Trends The considerable increase in records since the 1960s is due to fuller recording. Most populations are long-lived, but cone production is usually very poor, possibly because of climatic conditions. Although Page (1997) suggests that the species is in slow decline, it has been found in many new locations over the past two decades, most likely due to more systematic recording in upland regions.



Key refs Bangerter *et al.* (1978), Page (1997), Stewart *et al.* (1994).

C. DIXON & T.D. DINES

N *Equisetum sylvaticum* Wood Horsetail

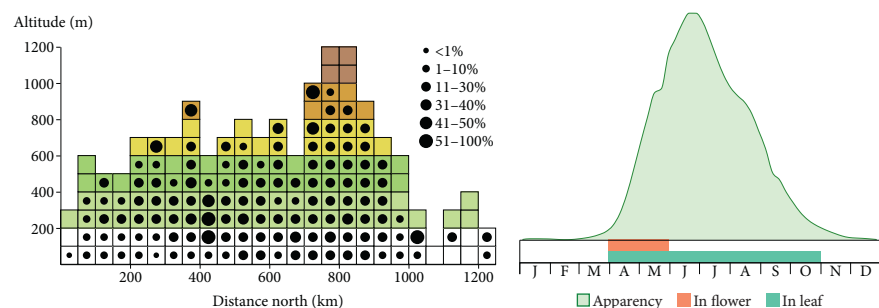
L.

A deciduous, colony-forming horsetail which generally grows on deep, mildly acidic, often peaty soils that are kept permanently damp by flushing. It occurs on the lower slopes of mountain valleys, steep streambanks, wet ledges and open flushes, beside lakes and on the edges of drainage ditches. It also grows on wet road verges and railway embankments. 0–850 m (Breadalbanes, Mid Perthshire).

Trends The 10 km square distribution of *E. sylvaticum* appears to have been stable in upland areas since at least the 1960s, and is now much better known in Ireland due to more systematic recording. However, decline in the British lowlands, already apparent by the mid-20th century, has continued due to the drainage and improvement of wetland habitats. Very occasionally, robust individuals of *E. pratense* can have secondary branching, and so might

be confused with either *E. sylvaticum* or the hybrid between the two.

Biogeography Circumpolar Boreo-temperate element.



Native	GB	IR
2000–19	1284	347
1987–99	1204	248
1970–86	858	75
pre-1970	1207	195

Key refs Bangerter *et al.* (1978), Page (1997).

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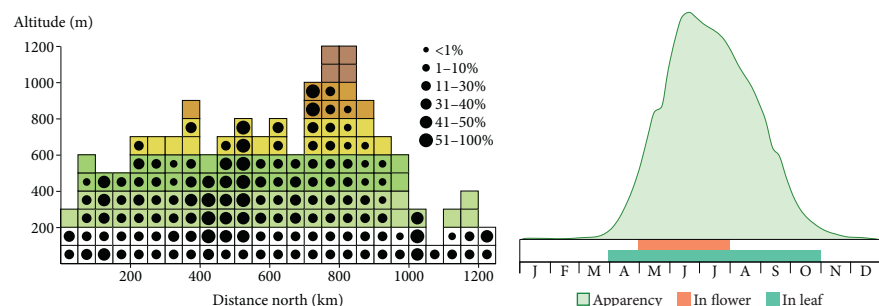
N *Equisetum palustre* Marsh Horsetail

L.

A deciduous horsetail associated with marshes, damp pastures, ditches, dune-slacks, streams, rivers and mountain flushes. It tolerates a wide range of soil types and substrates, provided that they are permanently damp and adequately base-rich. 0–945 m (Meall nan Tarmachan, Mid Perthshire).

Trends The 10 km square distribution of this species has increased since the 1960s, presumably because of more systematic recording in many areas, especially Ireland. It has suffered some losses in south-eastern England due to drainage and agricultural improvement. It was mapped as 'all records' in the 1962 *Atlas*.

Biogeography Circumpolar Boreo-temperate element.



Native	GB	IR
2000–19	2329	696
1987–99	2222	622
1970–86	1570	124
pre-1970	2042	408

Alien	GB	IR
2000–19	1	0
1987–99	1	0
1970–86	1	0
pre-1970	1	0

Key refs Bangerter *et al.* (1978), Grime *et al.* (2007), Page (1997).

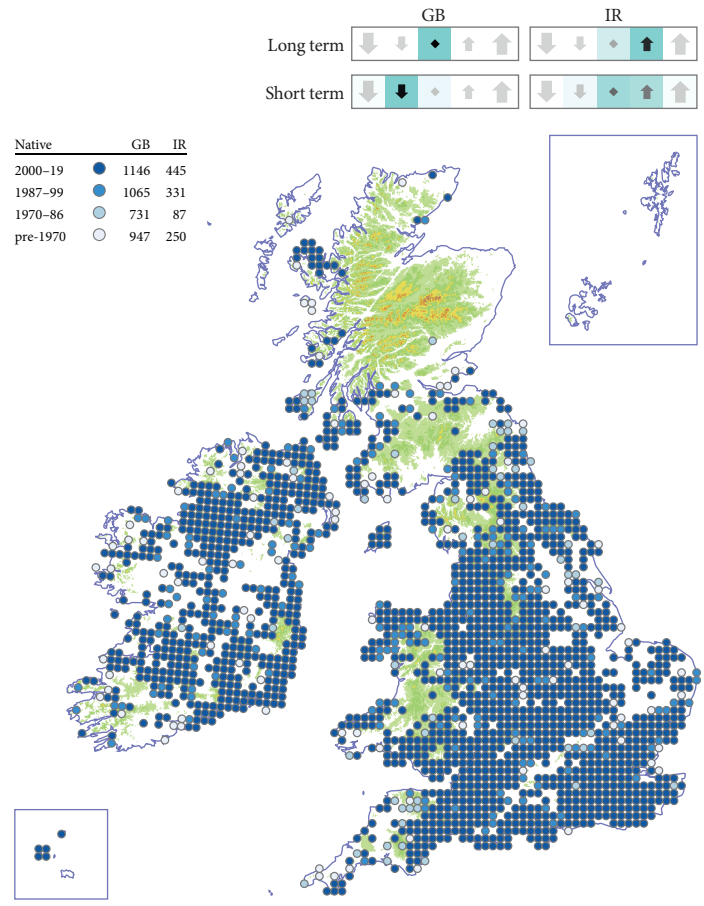
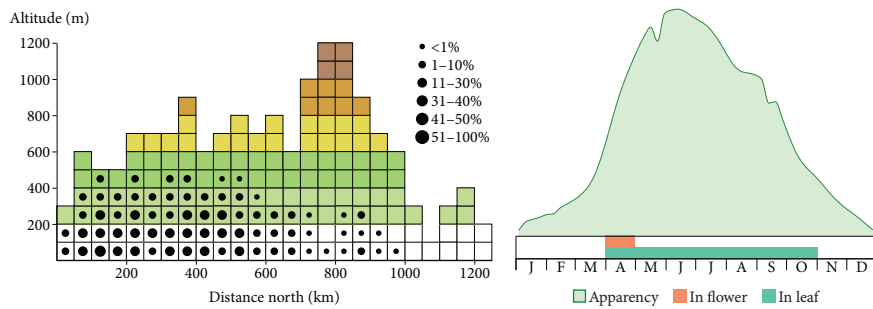
C. DIXON & T.D. DINES

N *Equisetum telmateia* Great Horsetail
Ehrh.

A robust, deciduous, colony-forming horsetail of base-rich clay soils in sites with spring-lines, permanent seepages and open flushes, especially in areas where porous rocks are interbedded with clays. It prefers open habitats and is particularly frequent on eroding sea- and river-cliffs, but also grows on roadsides and railway embankments. Lowland to 365 m in Fossdale (North-west Yorkshire).

Biogeography European Southern-temperate element; also in western North America (*E. telmateia* subsp. *braunii*).

Trends This species has apparently become more frequent in inland parts of south-eastern England in the last 100 years (Kent, 1975) and elsewhere since the 1960s, presumably due to more systematic recording in many areas, especially Ireland. Localized losses have occurred due to drainage and improvement of wetlands.



Key refs Bangerter *et al.* (1978), Kent (1975), Page (1997).

C. DIXON & T.D. DINES

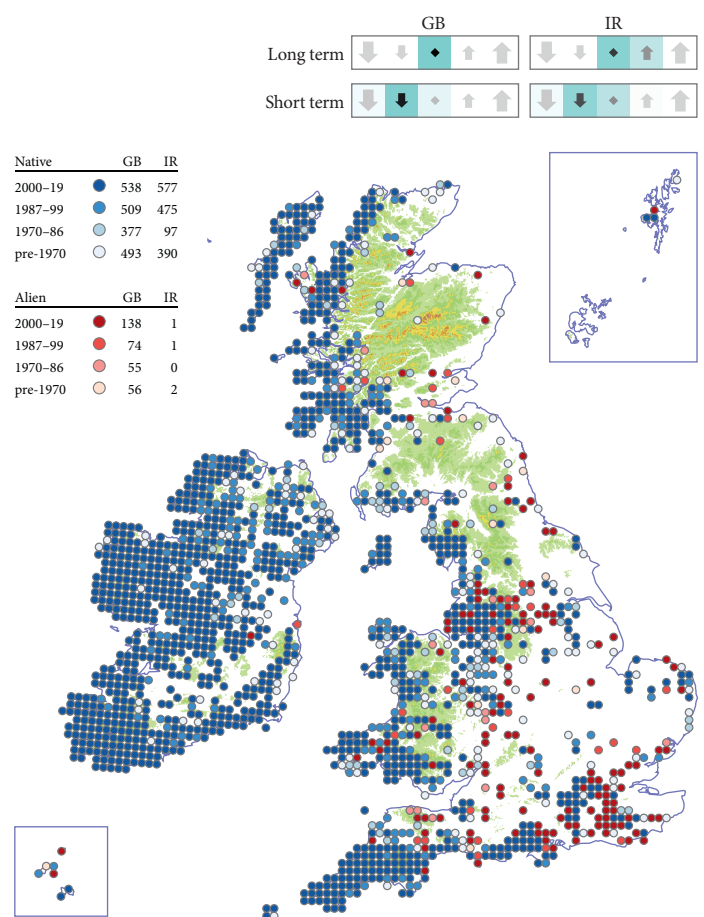
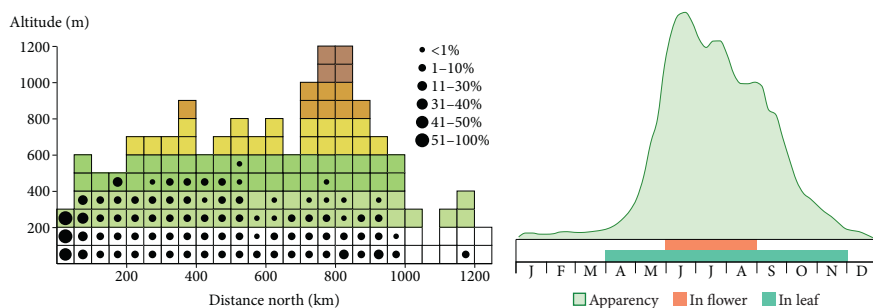
N *Osmunda regalis* Royal Fern
L.

A large fern of neutral or acidic substrates in wet heathland, blanket bog, fen-carr woodland and ditches, and occasionally on riverbanks, rocky lake shores, limestone sea cliffs, mires and sand dune-slacks. In western Ireland it also grows in wet fields. It is often confined to inaccessible sites in grazed areas. Generally lowland but reaching 365 m in South Kerry, and 525 m at Featherbed Moss (Derbyshire).

and occurs as a garden escape, and it is sometimes difficult to distinguish between these and native occurrences.

Biogeography Suboceanic Southern-temperate element; also in eastern Asia and North America.

Trends *O. regalis* was heavily collected in Victorian times for cultivation and osmunda fibre for orchid cultivation. This, together with habitat destruction in the lowlands, caused its decline, although few sites have been lost since the 1960s, and it is now recovering in some areas. There are many new records for Ireland and the north-western Scotland since 2000 due to fuller recording. It is also planted



Key refs Bangerter *et al.* (1978), Marren (1999), Page (1997).

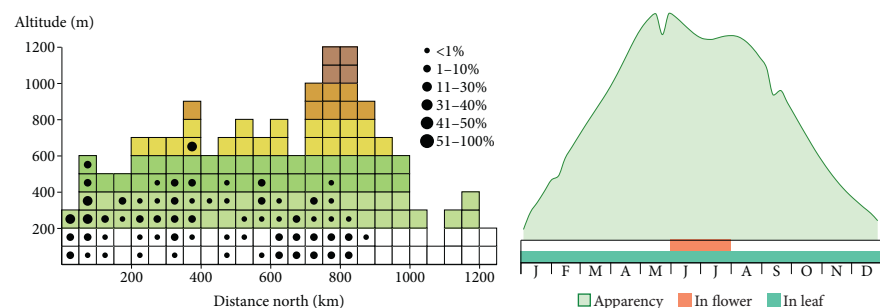
R.J. COOKE

N *Hymenophyllum tunbrigense* Tunbridge Filmy-fern (L.) Sm.

A rhizomatous, perennial, mat-forming fern of very sheltered, often deeply shaded, humid habitats; these include acidic rock faces, humic banks and tree trunks, particularly in deep wooded stream valleys, and crevices on upland boulder scree. 0–760 m (Galtee Mountains, County Tipperary).

Trends The distribution of *H. tunbrigense* is now largely stable, due in part to fuller and more intensive searching, with the majority of losses having occurred before 1930, though a further fifth of sites in south-eastern England were lost by the end of the 20th century, largely through woodland loss and shading by *Rhododendron ponticum*. It is likely to survive in many of the sites in western Scotland where it has not been recorded this century.

Biogeography Oceanic Temperate element; also one site in North America.



Native	GB	IR
2000–19	129	89
1987–99	141	52
1970–86	89	15
pre-1970	169	87

Alien	GB	IR
2000–19	0	1
1987–99	0	0
1970–86	0	0
pre-1970	0	1

Key refs Bangerter *et al.* (1978), Page (1997), Rich *et al.* (1995), Richards & Evans (1972).

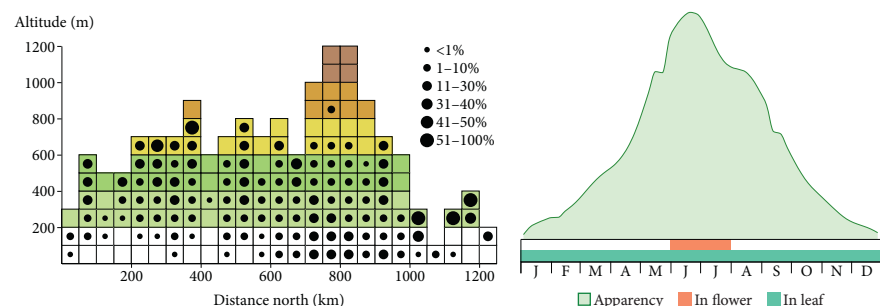
F.J. RUMSEY

N *Hymenophyllum wilsonii* Wilson's Filmy-fern Hook.

A rhizomatous perennial fern, forming dense colonies on a variety of substrates, including sheltered acidic or, rarely, mildly basic rocks, and trees in humid sites. It also occurs on damp upland cliffs, boulder scree and, rarely, old walls in hyper-humid areas. 0–1,005 m (Macgillicuddy's Reeks, South Kerry).

Trends The distribution of *H. wilsonii* is largely stable, although the current map shows losses, particularly in upland areas of southern, central and eastern Scotland. At least some of this apparent decline is almost certainly due to under-recording, and it probably survives in many of the remoter 10 km squares where there are no records this century.

Biogeography Oceanic Boreo-temperate element; confined to the hyperoceanic zone of western Europe and Macaronesia.



Native	GB	IR
2000–19	437	145
1987–99	417	102
1970–86	272	44
pre-1970	481	138

Alien	GB	IR
2000–19	0	0
1987–99	0	0
1970–86	0	0
pre-1970	1	0

Key refs Bangerter *et al.* (1978), Page (1997), Richards & Evans (1972).

F.J. RUMSEY

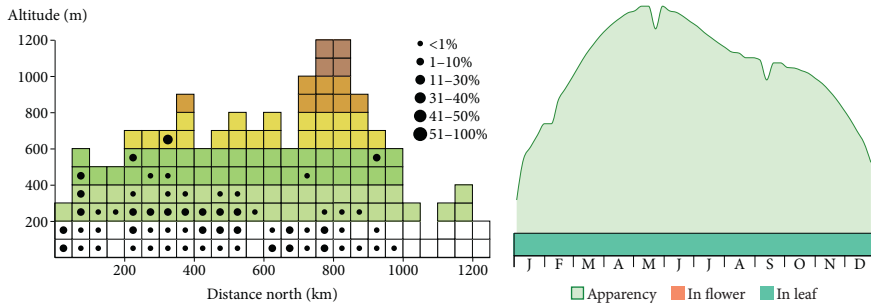
N *Trichomanes speciosum* (gametophyte) Killarney Fern (gametophyte) Willd.

The gametophyte of *T. speciosum* grows deep in clefts, crevices and natural rock hollows on a range of acidic to neutral rocks. Such sites are dark (less than 1% ambient light) and are often humid, being located on sea-cliffs, river-cliffs or streamsides, or are kept damp through soil capillary action. 0–700 m (Mt. Brandon, South Kerry).

Trends Although first described from cultivated material in 1888, the gametophyte was overlooked in the wild until 1989, when it was identified in northern England (Rumsey *et al.*, 1990). Subsequent fieldwork revealed an extensive, and still under-recorded, distribution (Rumsey *et al.*, 1998). Following the initial enthusiasm generated by the discovery, less attention has been devoted to the recording of this unique plant, reflected in the relative lack of records this century

compared with the map produced for the 2002 *Atlas*. The range is likely to be essentially stable, although there is anecdotal evidence that recent climatic conditions may have favoured the production of sporophytes, perhaps to the detriment of gametophytic growth.

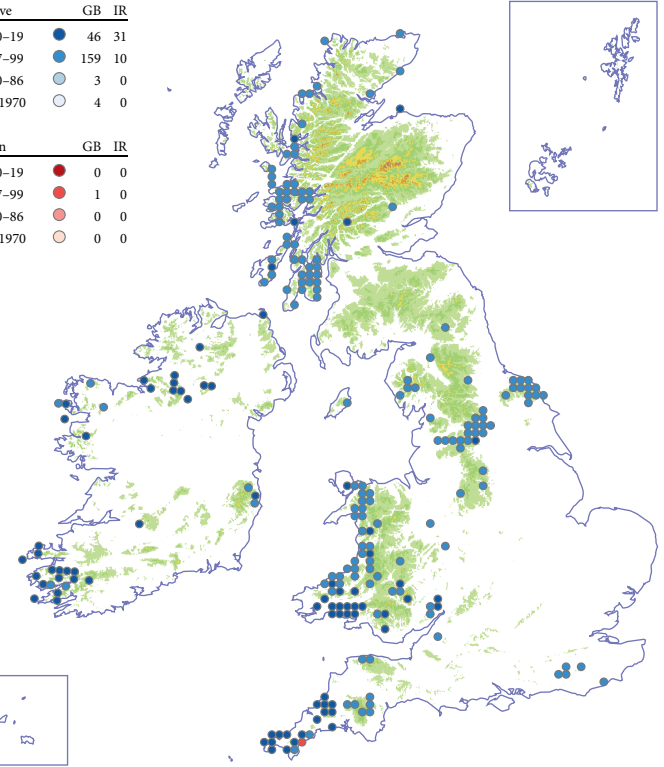
Biogeography Gametophytes occur throughout the European range of the sporophyte, but also extend eastwards to central Europe.



Native	GB	IR
2000–19	46	31
1987–99	159	10
1970–86	3	0
pre-1970	4	0

Alien	GB	IR
2000–19	0	0
1987–99	1	0
1970–86	0	0
pre-1970	0	0

	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend



Key refs Rumsey *et al.* (1990), Rumsey *et al.* (1998).

F.J. RUMSEY

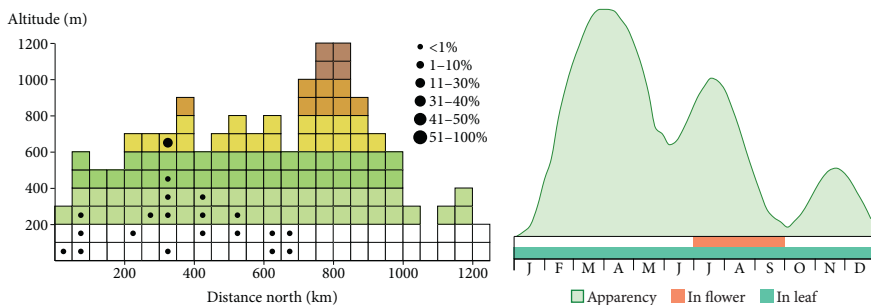
N *Trichomanes speciosum* (sporophyte) Killarney Fern (sporophyte) Willd.

A rhizomatous evergreen fern, with delicate but long-lived fronds, restricted to humid, winter-warm sites. The sporophyte occurs only in constantly damp, shaded localities, usually on acidic, but often base-flushed rocks, rarely on damp humic banks, and exceptionally as an epiphyte. 0–420 m (Caernarvonshire).

Trends *T. speciosum* declined historically due to collecting, habitat disturbance and in response to extremes of climate, as occurred in the winter of 1962/3. Although one site has been lost since mapped in the 1960s (Perring & Walters, 1962) through collection, fieldwork since 1990 has revealed several new populations and over the past two decades recruitment of sporophytes has occurred at sites where previously only gametophytes existed. Climatic change with milder winters and increased

rainfall has benefitted the plant in this regard. Due to its extreme rarity much secrecy surrounds many populations and at least one extant site in Cumbria is not mapped here. A variable species, with several cytotypes reported for our area which may represent cryptic taxa.

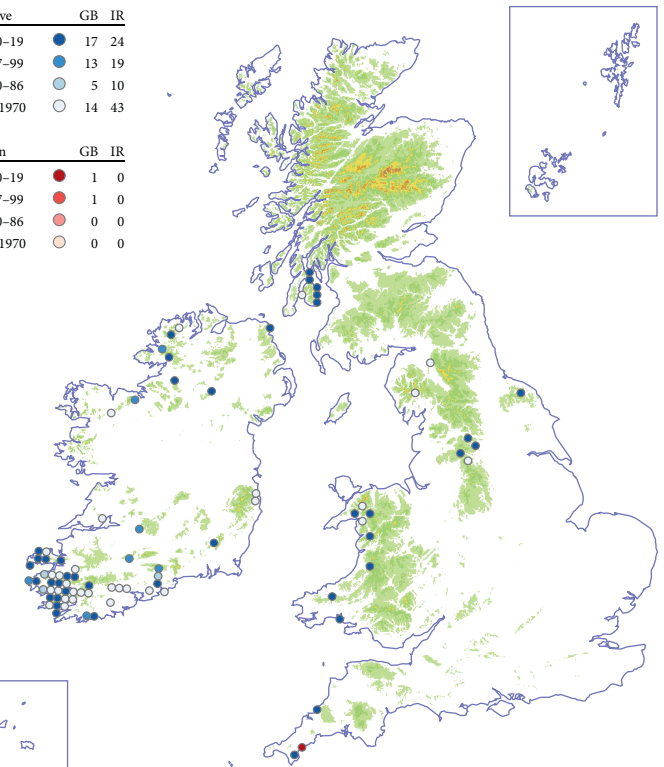
Biogeography Oceanic Temperate element; confined to Macaronesia, western Europe and northern Italy.



Native	GB	IR
2000–19	17	24
1987–99	13	19
1970–86	5	10
pre-1970	14	43

Alien	GB	IR
2000–19	1	0
1987–99	1	0
1970–86	0	0
pre-1970	0	0

	GB	IR
Long term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑
Short term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑



Key refs Bangerter *et al.* (1978), Page (1997), Wigginton (1999).

F.J. RUMSEY

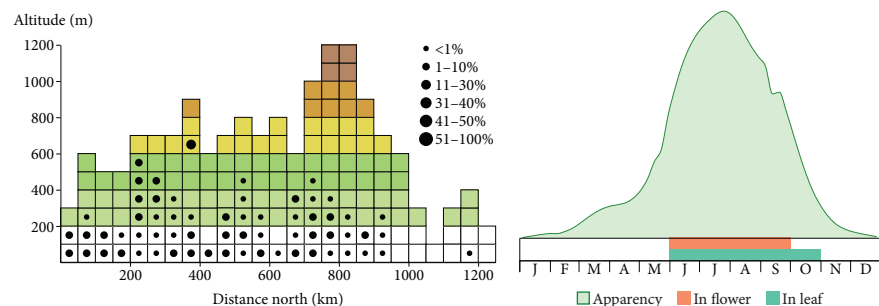
N *Pilularia globulifera* Pillwort

L.

A small, rhizomatous fern growing on the edges of non-calcareous lakes, reservoirs, ponds or slow-flowing rivers, and sometimes in ditches in valley mires and on damp mine workings or as a submerged aquatic. It requires areas where competition is reduced by fluctuating water levels or disturbance. 0–491 m (Pool Hill, Radnorshire).

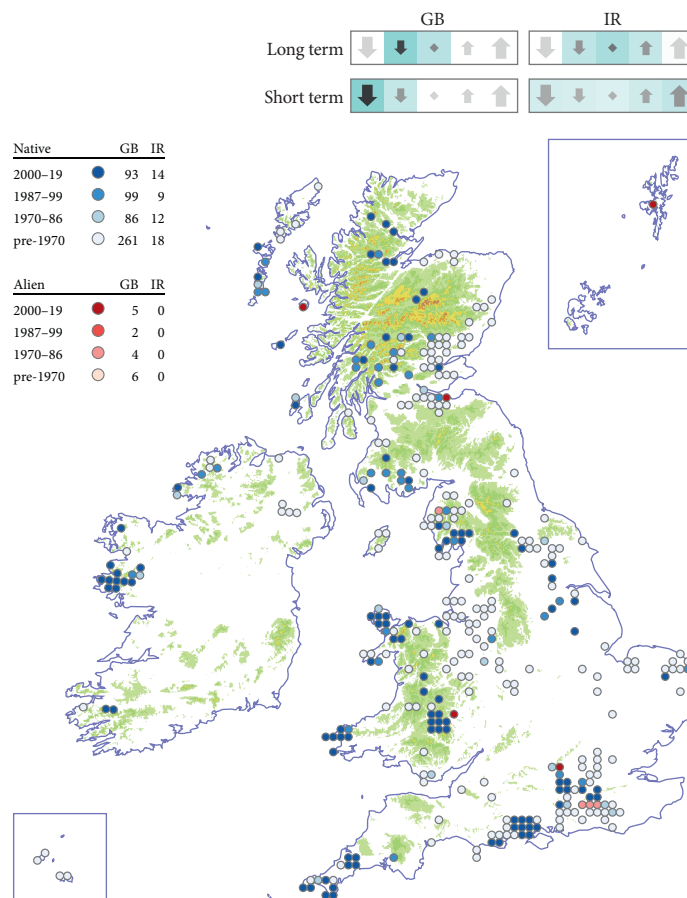
Trends *P. globulifera* persists in those core areas to which it had largely retreated by 1950, having been eliminated from its wider range by habitat destruction, eutrophication and reduced disturbance. In the lowlands its strongholds are extensively grazed landscapes with surviving ponds. Though the species is inconspicuous, it has a high profile and is well recorded in its known range. It has been reintroduced to some former native sites (e.g. Rum, North Ebudes).

Biogeography Suboceanic Temperate element; it is endemic to Europe and has declined throughout its range.



Native	GB	IR
2000–19	93	14
1987–99	99	9
1970–86	86	12
pre-1970	261	18

Alien	GB	IR
2000–19	5	0
1987–99	2	0
1970–86	4	0
pre-1970	6	0



Key refs Bangerter *et al.* (1978), Page (1997), Preston & Croft (1997), Scott *et al.* (1999), Stewart *et al.* (1994).

C.D. PRESTON

Ne *Azolla filiculoides* Water Fern

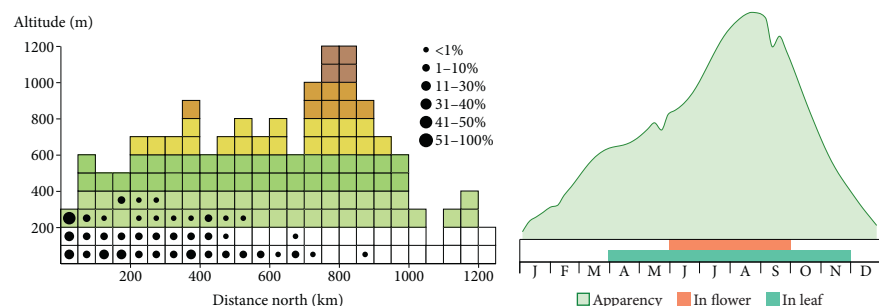
Lam.

A floating fern of canals, ditches, ponds and sheltered bays in lakes and rivers. It is most frequent in calcareous water, or near the sea. It has a symbiotic relationship with the nitrogen-fixing cyanobacterium *Anabaena azollae*. It reproduces vegetatively, often producing dense mats which reduce light penetration and result in lower dissolved oxygen levels and pH in the water below. Sporocarps are frequent and widespread; they are tolerant of desiccation and winter-cold and retain viability for some years. Generally lowland, but reaching 450 m above Rydal Water (Westmorland).

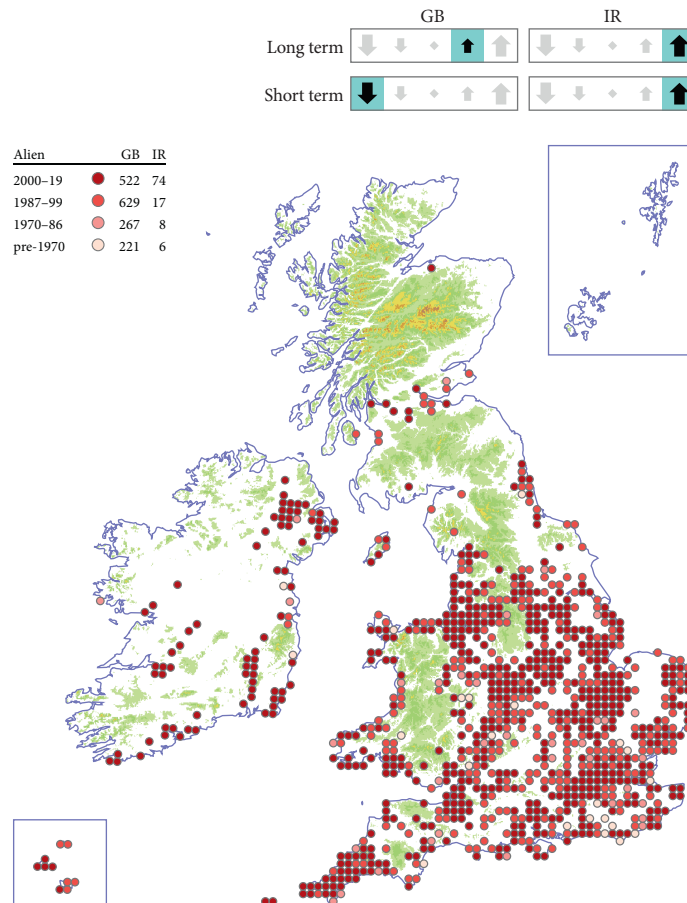
Trends First recorded in Britain in 1883, this species spread rapidly in the second half of the 20th century. Its overall range in Britain has not changed substantially since 2000

though individual populations may come and go, or fluctuate greatly in numbers from year to year. In Ireland it is more widely recorded than it was before 2000 due to more systematic recording. It is widely cultivated and frequently discarded into the wild.

Biogeography Native of western North and South America; widely naturalized in temperate and southern Europe and elsewhere.



Alien	GB	IR
2000–19	522	74
1987–99	629	17
1970–86	267	8
pre-1970	221	6



Key refs Flora of North America Editorial Committee (1993), Janes (1998a), Janes (1998b), Janes *et al.* (1996), Preston & Croft (1997).

C.D. PRESTON

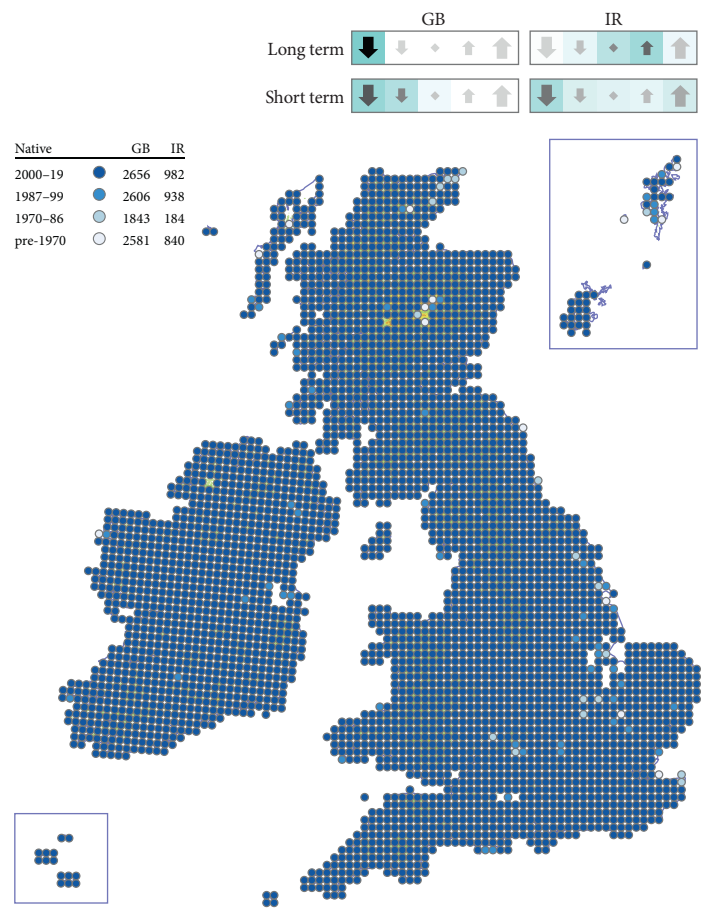
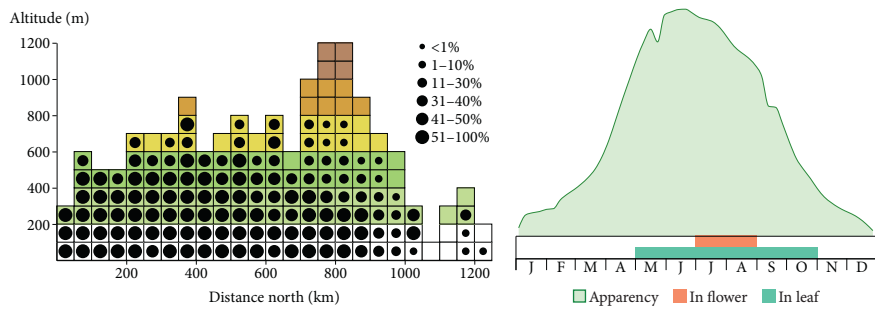
N *Pteridium aquilinum* Bracken
(L.) Kuhn

A large deciduous rhizomatous fern of moorland, hill pasture, open woodland, hedgerows and other habitats on acidic soils. It is most vigorous when growing on deep loam, sands or alluvium and is rare on base-rich soils. 0–670 m (Creag an Lochain, Mid Perthshire), and almost certainly higher elsewhere.

Trends *P. aquilinum* increased markedly in the 20th century, apparently in response to more intensive sheep grazing and more frequent burning of heathland in the uplands. In the 1970s it was invading more than 10,000 hectares of agricultural land annually. This expansion is not apparent at the 10 km scale as the species was almost ubiquitous by the time of the 1962 *Atlas*. It is controlled using chemicals and cutting over large areas of northern Britain, although only repeated applications of the chemical asulam

has so far proved effective due to its ability to reduce the vigour of rhizomes (Stewart *et al.*, 2005). However, the use of asulam has been restricted since 2012.

Biogeography Circumpolar Temperate element.



Key refs Bangerter *et al.* (1978), Cody & Crompton (1975), Grime *et al.* (2007), Marrs & Watt (2006), Page (1982), Page (1997), Smith & Taylor (1995), Stewart *et al.* (2005).

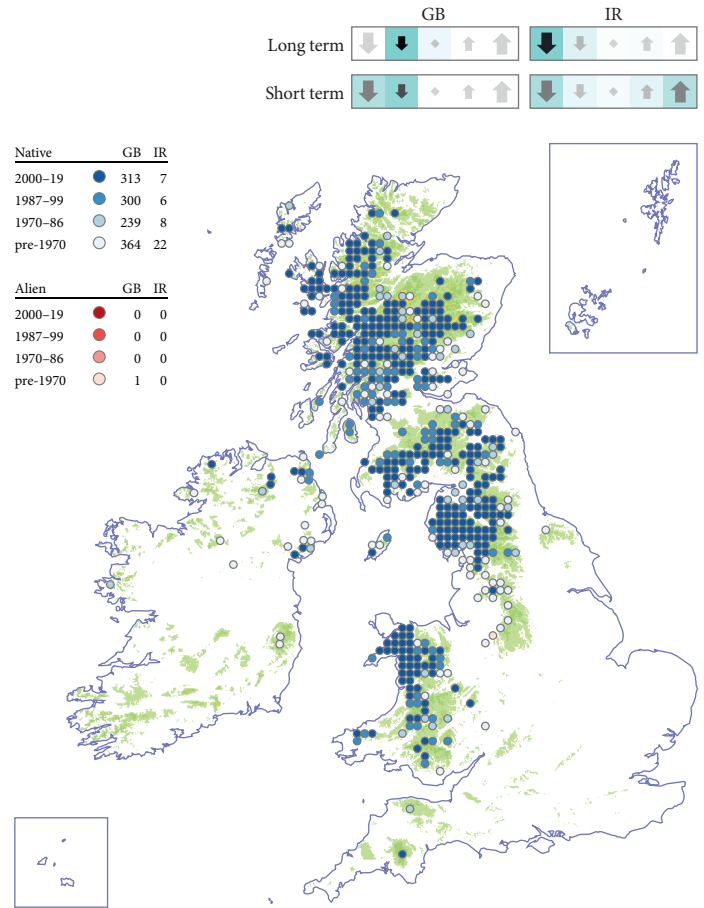
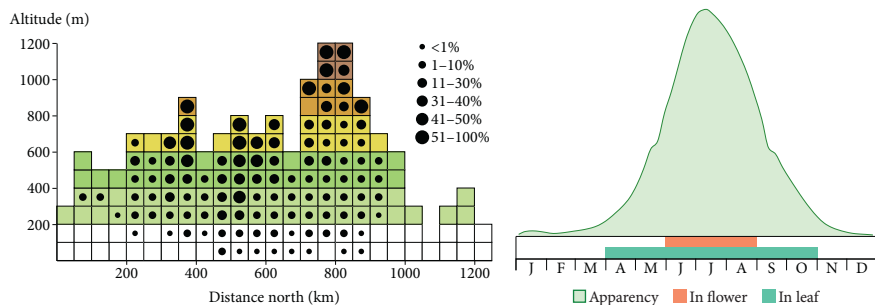
A.C. JERMY & F.J. RUMSEY

N *Cryptogramma crispa* Parsley Fern
R.Br. ex Hook.

This small, deciduous, long-lived clump-forming fern is a strong calcifuge and is found in well-drained sites on relatively stable, steep scree slopes and on slate mine waste, where it is a pioneer species. It also occurs more rarely as small plants on cliff ledges and mortar-free dry-stone walls. From 30 m (Raasay, North Ebuades) to 1,330 m (Ben Nevis, Westernness).

Biogeography European Boreal-montane element; also in eastern Asia.

Trends There is evidence for decline from the more lowland, southerly and drier extremes of the species' British range, although a new site in Cornwall was found (and almost immediately lost) in 2020. Many losses, as in the South Pennines, took place before 1930, although its extirpation from Exmoor followed the 1976 drought. The only surviving population in southern England, on Dartmoor, is extremely small and vulnerable.



Key refs Bangerter *et al.* (1978), Page (1997).

T.D. DINES & F.J. RUMSEY

N *Anogramma leptophylla* Jersey Fern (L.) Link

A small delicate fern found on moist but well-drained shady lane banks, especially where granite is used to support the bank. It prefers bare soil, often on vertical surfaces and where some erosion reduces competition. It is frequently associated with mats of thallose liverworts, typically *Lunularia cruciata*. It is the only British fern with an annual sporophyte; its spores mature early (usually April) and plants die soon afterwards. Its prothallus, however, is perennial and may overwinter to produce new sporophytes the following year. Lowland.

Trends *A. leptophylla* is confined to the Channel Islands (Guernsey, Jersey) where populations vary markedly in size from year to year. They are highly vulnerable to the scraping of lane banks by passing traffic and to over-enthusiastic hedgebank management,

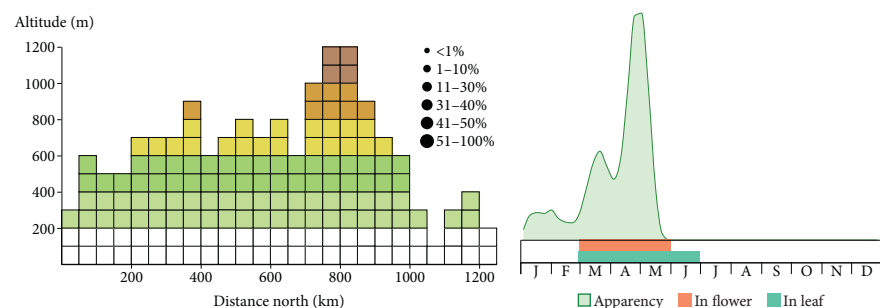
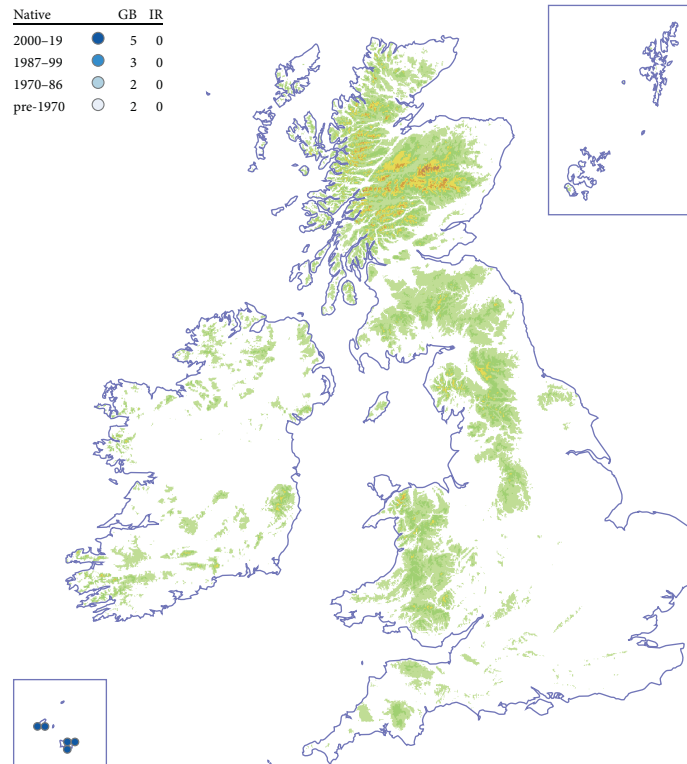
though population numbers have remained remarkably stable. After more than a century with only a single known site in Guernsey, a second population was discovered in 2016.

Biogeography Mediterranean-Atlantic element; widespread in Asia, Africa, Australasia, the Pacific Islands and South America.

Native	GB	IR
2000-19	5	0
1987-99	3	0
1970-86	2	0
pre-1970	2	0

	GB	IR
Long term	No trend	No trend

	GB	IR
Short term	No trend	No trend



Key refs Bangerter *et al.* (1978), Page (1997).

A.C. JERMY & F.J. RUMSEY

N *Adiantum capillus-veneris* Maidenhair Fern L.

A semi-evergreen fern found in areas with an oceanic climate on wet, calcareous cliffs where its rhizomes are protected in crevices, or tufa encrustations; in the Aran Islands (West Donegal) and the Burren (County Clare) it grows in grikes in limestone pavement. Many inland records in sheltered warm sites, such as damp mortared walls, railway bridges and canal locks, are likely to have arisen from spores derived from cultivated plants. It is an outcrossing species, but most populations in Britain (the northernmost extremity of its range) show little or no genetic diversity. Lowland.

Trends In the 19th century native populations were jeopardized by collectors, with most native site losses before 1930. There have been few recent losses and very many gains, some close to natural sites, but most in sheltered

urban habitats which are more likely to have derived from colonization from horticultural sources. Assigning status to any of these populations is problematic in the absence of genetic evidence but in general new colonies on man-made structures have been treated as introductions.

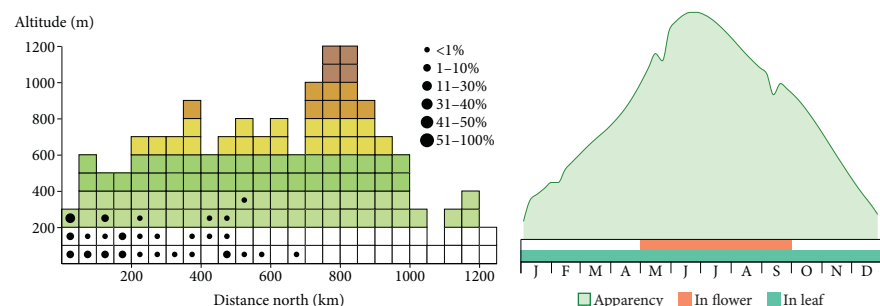
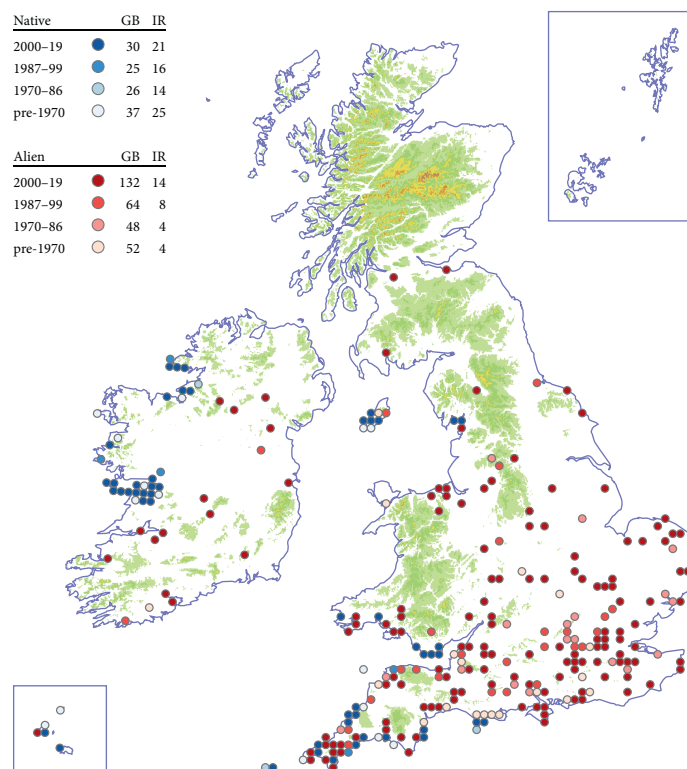
Biogeography Mediterranean-Atlantic element. Pantropical, widely distributed in Africa, central and eastern Asia, America and Oceania, extending into warm temperate regions.

Native	GB	IR
2000-19	30	21
1987-99	25	16
1970-86	26	14
pre-1970	37	25

Alien	GB	IR
2000-19	132	14
1987-99	64	8
1970-86	48	4
pre-1970	52	4

	GB	IR
Long term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑

	GB	IR
Short term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑



Key refs Bangerter *et al.* (1978), Page (1997), Pryor *et al.* (2001), Stewart *et al.* (1994).

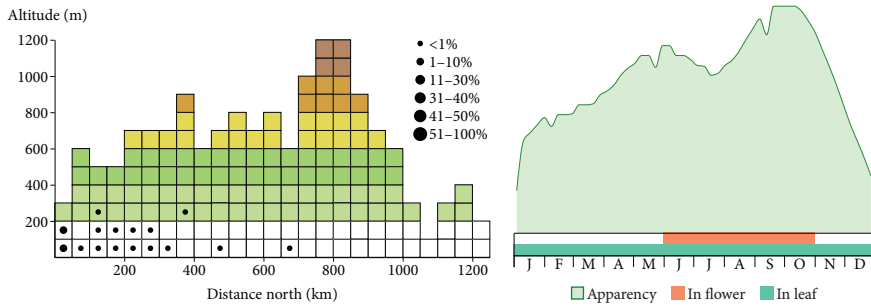
A.C. JERMY & F.J. RUMSEY

Ne *Pteris cretica* Ribbon Fern
L.

An evergreen or semi-evergreen shortly rhizomatous fern, found established on walls in areas with moist, largely frost-free micro-climates, so primarily in large urban or coastal areas, where it is found in basements, on outhouses, in culverts and wells. Reproduction is by spores, but populations are sometimes short-lived as a consequence of tidying operations and for climatic reasons. Lowland.

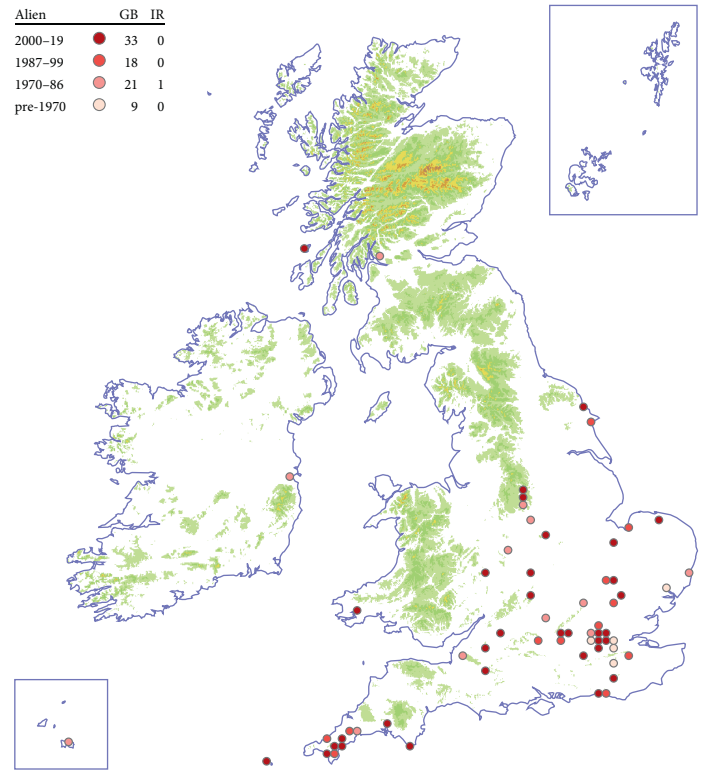
Trends *P. cretica* was first cultivated in Britain in 1820 and was first recorded in the wild in 1950 (Chieveley, Berkshire). It is a very variable species, with many named cultivars commonly grown as houseplants. It was perhaps over-recorded historically for similar *Pteris* species such as *P. multifida*, although it is much better recorded now. New finds have been balanced by regular losses.

Biogeography Widespread in tropical and warm-temperate regions of the Old World; extending north as a native to southern Europe.



	GB	IR
Long term	No trend	No trend
Short term	↓ ↓ ↓ ↓ ↑ ↑	No trend

Alien	GB	IR
2000-19	33	0
1987-99	18	0
1970-86	21	1
pre-1970	9	0



Key refs Grenfell (1983), Jermy & Camus (1991), Kent (1963).

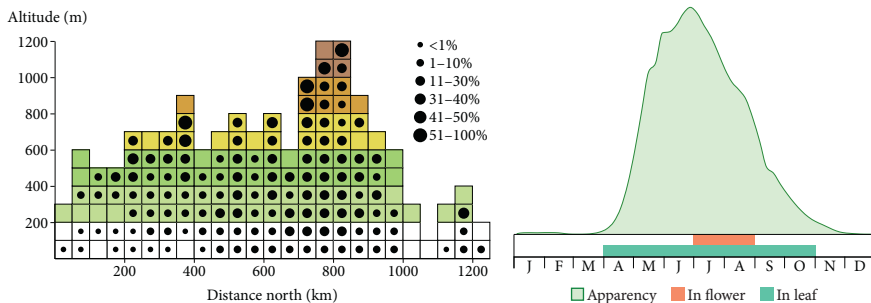
T.D. DINES & F.J. RUMSEY

N *Gymnocarpium dryopteris* Oak Fern
(L.) Newman

A gregarious, deciduous fern of rocky deciduous woodland and ravines, along stream banks, and on cliff ledges and stable block screes. It prefers moist but open, light-textured mineral soils with a high humus content, and tolerates a moderate range of pH. 0-1,007 m (Beinn Hearsarnich, Mid Perthshire).

Trend This species, which is susceptible to heavy grazing, has declined at the edges of its British range, where it has been lost from lowland woods even though the woods themselves often survive. Most of the losses occurred before 1950. It appeared but was soon lost in Surrey in the 2000s and has recently been discovered in Dorset. Curiously rare in Ireland, it was last recorded there in 1986.

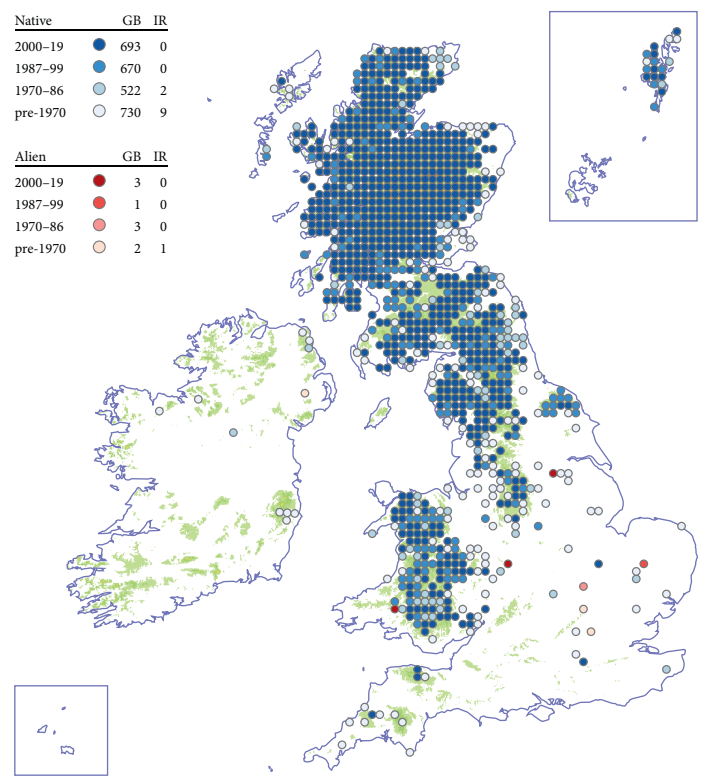
Biogeography Circumpolar Boreo-temperate element.



	GB	IR
Long term	↓ ↓ ↓ ↓ ↑ ↑	No trend
Short term	↓ ↓ ↓ ↓ ↑ ↑	No trend

Native	GB	IR
2000-19	693	0
1987-99	670	0
1970-86	522	2
pre-1970	730	9

Alien	GB	IR
2000-19	3	0
1987-99	1	0
1970-86	3	0
pre-1970	2	1



Key refs Bangerter *et al.* (1978), Page (1997).

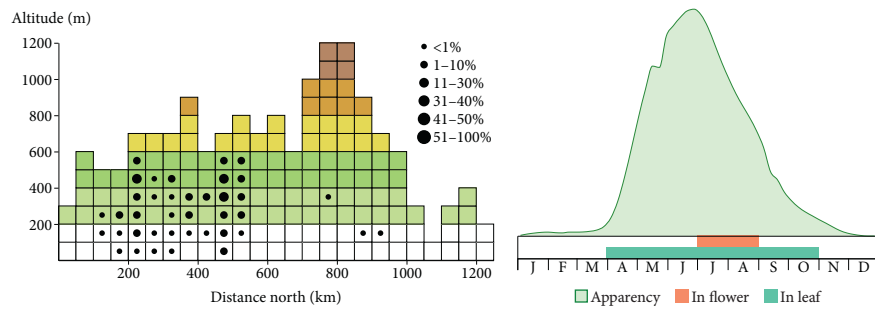
T.D. DINES & F.J. RUMSEY

N *Gymnocarpium robertianum* Limestone Fern (Hoffm.) Newman

A deciduous fern of cracks, fissures and scree in limestone rock, but also found in shallow grikes of limestone pavement, and, rarely, on chalk. It prefers warm, sunny exposures but can tolerate light shading. It has become established on rakes and buildings associated with lead mining and was known from walls and other masonry associated with railways and churchyards. Lowland to 585 m at Carreg yr Ogof (Carmarthenshire).

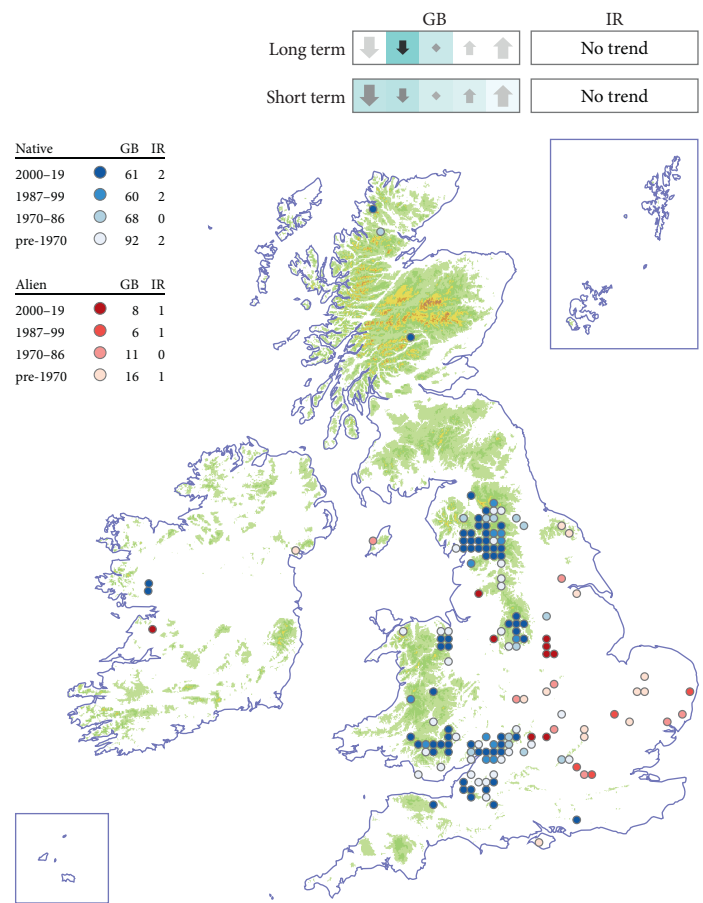
Trends The distribution of this species is essentially stable. Some sites have, however, been lost through competition with *Mercurialis perennis* and *Crataegus monogyna*, while quarrying and overgrazing have had detrimental effects on others. It has been lost from most if not all of its sites east of its 'natural' range where it was almost certainly a natural colonist, usually of built structures.

Biogeography Circumpolar Boreo-temperate element, with a disjunct distribution.



Native	GB	IR
2000-19	61	2
1987-99	60	2
1970-86	68	0
pre-1970	92	2

Alien	GB	IR
2000-19	8	1
1987-99	6	1
1970-86	11	0
pre-1970	16	1



Key refs Bangerter *et al.* (1978), Page (1997), Stewart *et al.* (1994).

T.D. DINES & F.J. RUMSEY

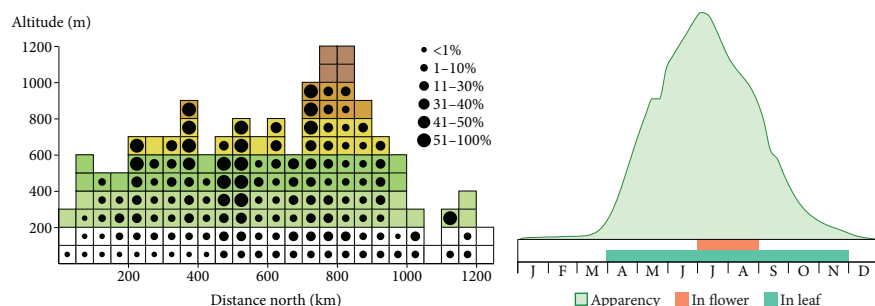
N *Cystopteris fragilis* Brittle Bladder-fern (L.) Bernh.

A small delicate fern of damp, shaded rock crevices, cliffs, cave entrances, ravines and mortared walls, always growing on a mineral-enriched substrate, and most frequent over limestone. A variable complex of taxa, represented in our area by tetraploid and hexaploid cytotypes, and their pentaploid hybrid where sympatric. The relationship of *C. alpina* and the rugose-spored forms here treated as *C. dickieana* in this polyploid complex remains to be fully resolved. 0-1,220 m (Breadalbanes, Mid Perthshire).

Trends The distribution of *C. fragilis* in the uplands is stable. Some lowland sites, particularly those on old buildings, bridges, canal locks and railway platforms, have been lost since the 1960s through demolition or cleaning. Some earlier records in south-western England may relate to *C. diaphana*, which was

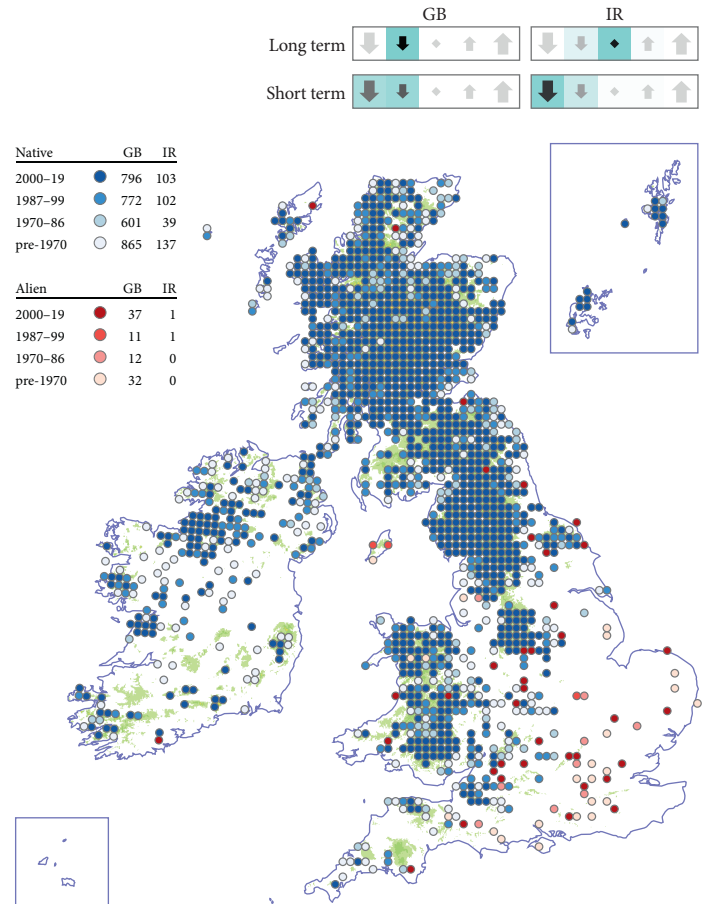
only identified in our area in 2006, while others in the Highlands of Scotland may relate to *C. dickieana*, which can only be separated microscopically.

Biogeography Circumpolar Wide-boreal element.



Native	GB	IR
2000-19	796	103
1987-99	772	102
1970-86	601	39
pre-1970	865	137

Alien	GB	IR
2000-19	37	1
1987-99	11	1
1970-86	12	0
pre-1970	32	0



Key refs Bangerter *et al.* (1978), Grime *et al.* (2007), Jermy & Camus (1991), Page (1997).

A.C. JERMY, T.D. DINES & F.J. RUMSEY

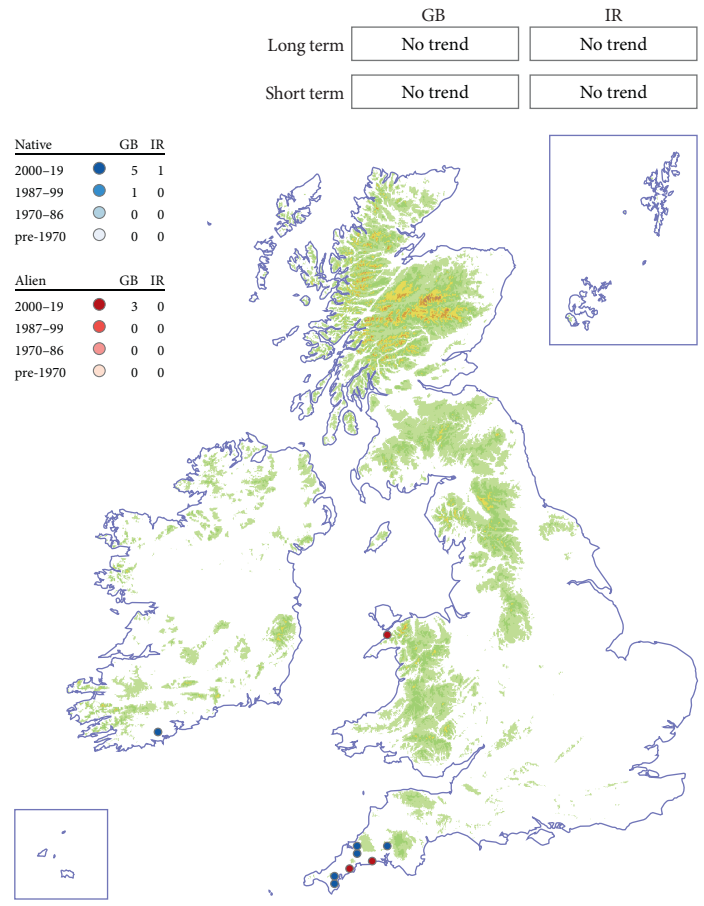
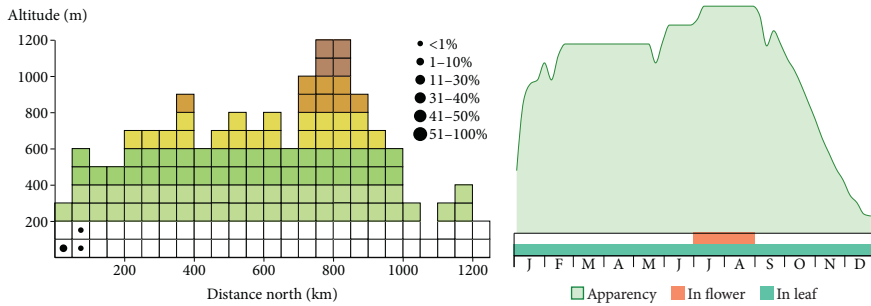
N *Cystopteris diaphana* Diaphanous Bladder-fern
(Bory) Blasdell

A small, delicate, semi-evergreen and shortly rhizomatous fern of sheltered damp walls, dripping rock faces and rocky-loamy riverbanks, also persistent in and around Victorian ferneries and gardens. It was previously overlooked as *C. fragilis*, itself a polyploid complex of many critical taxa, from which it differs in its spore ornamentation, subtle morphological features and in its phenology and ecology. Lowland.

native status, although most extant populations are associated with built structures. Historical records of *C. fragilis* from similar Cornish localities to *C. diaphana's* extant riverbank sites there and in County Cork also suggest it may be a hitherto overlooked native.

Biogeography Widely distributed as a native, from the tropics, through Macaronesia, north on Atlantic coasts to Britain and Ireland.

Trends *C. diaphana* was first recorded as a wild plant scattered over a kilometre of riverbank in Cornwall in 2004 (Murphy & Rumsey, 2005), although it was long known but misidentified on a garden wall elsewhere in the county. A fragmentary herbarium specimen indicates its past presence with other Atlantic species in the Weald in the late 17th century (Rumsey, 2007b), providing some support to a claim for



F.J. RUMSEY

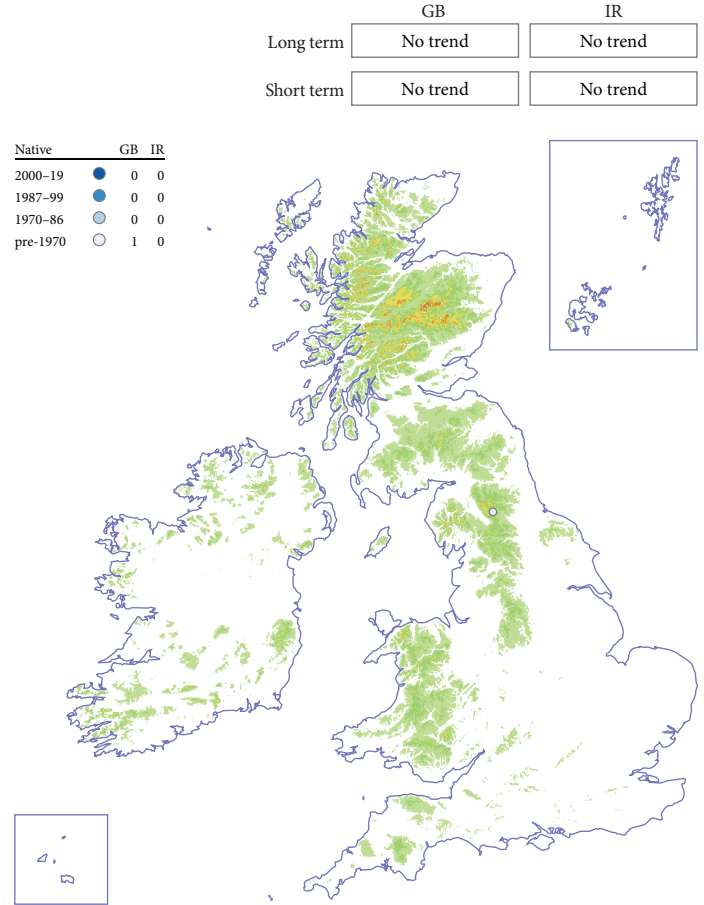
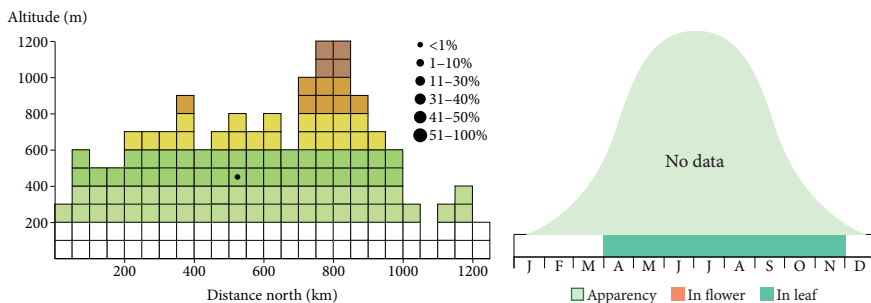
N *Cystopteris alpina* Alpine Bladder-fern
(Lam.) Desv.

A small, delicate, deciduous fern of montane rock crevices, cliff faces and karstic limestones, previously established on a lowland wall. The altitudinal limit is unknown although it has been confirmed from between 400-500 m on Cronkley Scar (North-west Yorkshire).

examples were restricted to a single site on Cronkley Scar in Upper Teesdale, where it was last recorded in 1911. More recently, plants showing similarities to Scandinavian examples referred to this species have been seen in the Orkneys and mainland Scotland, though their identity is still under investigation. Confusion has also previously been made with *C. fragilis* subsp. *huteri*, a glandular plant known only from Snowdon, Caernarvonshire.

Biogeography An Arctic-montane species.

Trends The *C. fragilis* group represents a near-global polyploid complex which defies simple taxonomic treatment. Within this, hexaploid and octoploid plants referable to *C. alpina* are primarily distinguished by the position of their vein terminations. Plants of this species, previously referred to *C. regia*, more closely approach *C. fragilis* in their morphology and were known from an Essex wall for over 50 years in the 19th century, with similar plants (not mapped) reputed to have been collected in the Welsh mountains, but not recorded for over 90 years. More typical



F.J. RUMSEY

N *Cystopteris dickieana* Dickie's Bladder-fern

R.Sim

A small delicate fern of rock crevices, shady ravines, cave entrances, under overhangs and rarely on walls and under stone bridges. It prefers moderately base-rich rocks. 0–420 m (Inshriach forest, Easternness).

Trends This species was originally described from sea caves south of Aberdeen in 1848, where it still occurs, but it is a predominantly montane plant in Britain. The species appears to be recognized primarily by its distinctive rugose spores, and material from the type locality is of an extreme foliose growth form. Plants elsewhere more typically resemble *C. fragilis* and have accordingly been much overlooked for it. British plants are tetraploid, but hexaploid examples are known elsewhere and as with the echinate-spored forms, rugose-spored plants worldwide may represent multiple taxa.

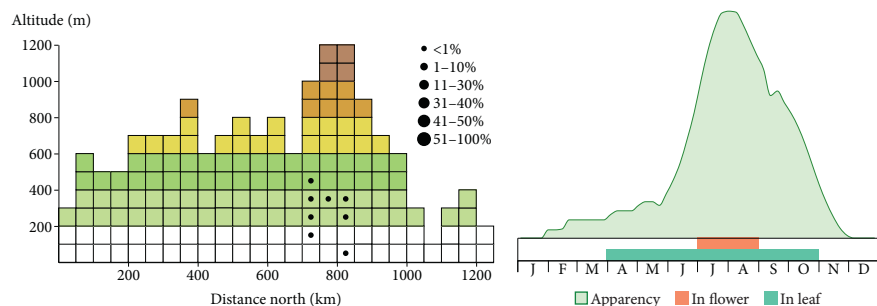
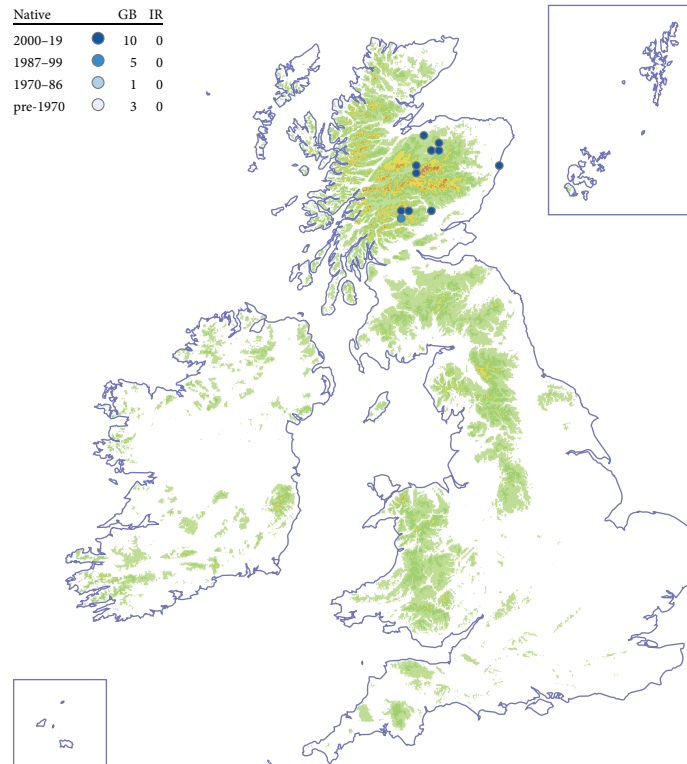
The *C. fragilis* group represents a near-global polyploid complex with taxa from diploid to octoploid level; it defies simple taxonomic treatment with polytopic origins at particular ploidies, reticulate evolution and uncertain genomic constituents. Further work is urgently needed but for now the taxonomic status of *C. dickieana* “remains uncertain and controversial” (Dyer *et al.*, 2000).

Biogeography Rugose-spored plants are widely distributed throughout North America, the mountains of Asia, Europe, northern Africa and the Canaries.

Native	GB	IR
2000–19	10	0
1987–99	5	0
1970–86	1	0
pre-1970	3	0

	GB	IR
Long term	No trend	No trend

	GB	IR
Short term	No trend	No trend



Key refs Bangerter *et al.* (1978), Dyer *et al.* (2000), Marren (1983), Page (1997), Tennant (1996), Wigginton (1999).

F.J. RUMSEY

N *Cystopteris montana* Mountain Bladder-fern

(Lam.) Desv.

A deciduous fern of sheltered, humid, north- or east-facing limestone and mica-schist cliffs where there is periodic irrigation. It prefers dripping rock ledges, cliff bases, gullies and steep, unstable scree slopes. From 490 m on Ben Lui (Main Argyll) to 1,125 m on Aonach Beag (Westernness).

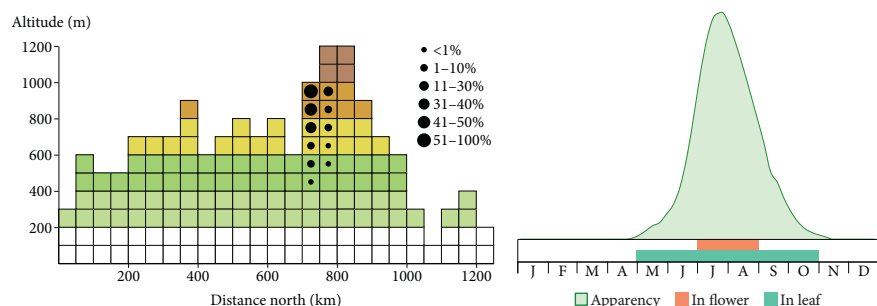
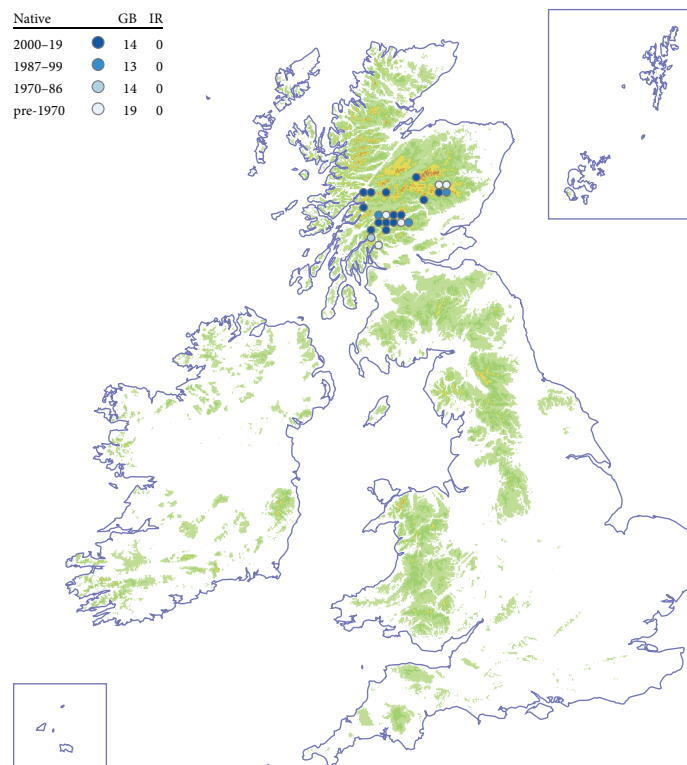
Trends Easily overlooked and sometimes growing in inaccessible sites, *C. montana* is probably present in most 10 km squares for which only pre-1987 records exist. It is susceptible to grazing, and had been lost from some sites before 1930 because of collecting, including the only English site, above Red Tarn on Helvellyn (Cumberland), where it was discovered by Bolton King in 1880.

Biogeography Circumpolar Boreal-montane element.

Native	GB	IR
2000–19	14	0
1987–99	13	0
1970–86	14	0
pre-1970	19	0

	GB	IR
Long term	No trend	No trend

	GB	IR
Short term	No trend	No trend



Key refs Bangerter *et al.* (1978), Halliday (1997), Page (1997), Stewart *et al.* (1994), Wigginton (1999).

A.C. JERMY, T.D. DINES & F.J. RUMSEY

N? *Asplenium fontanum* Smooth Rock-spleenwort
(L.) Bernh.

A small, perennial, evergreen fern of sunny to sheltered limestone rock crevices elsewhere in Europe; in our area it was formerly found as a chance colonist on old walls, boulders and outcrops of a range of rock types, including sandstones and basalts. Lowland.

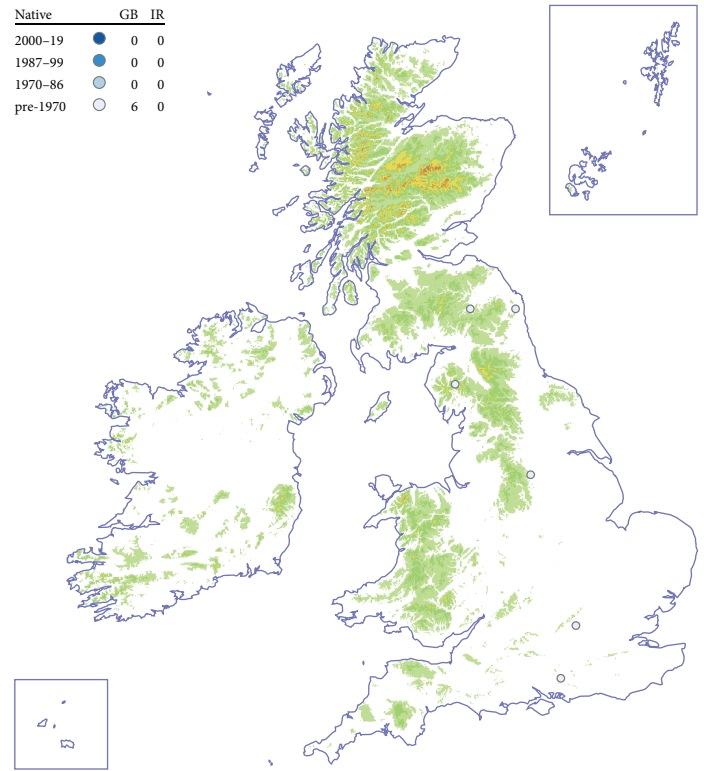
Trends In Britain *A. fontanum* was possibly only a chance colonist resulting from long-distance spore dispersal from its native southern European range, or in some instances possibly from plants in cultivation. Doubt surrounds the provenance and precise localization of many of the specimens of this species in British herbaria. Some early literature reports resulted from misidentifications, but one of the earliest finds, from Buckinghamshire in 1775, is supported by a specimen in the Cambridge University Herbarium. It persisted for

over 17 years at a site near Petersfield (Hampshire), where it was last collected in 1869. The most recent find, from a wall near Hawick (Roxburghshire) was made in 1923. The map shows records supported by specimens that have been critically determined.

Biogeography Native of the Mediterranean region.

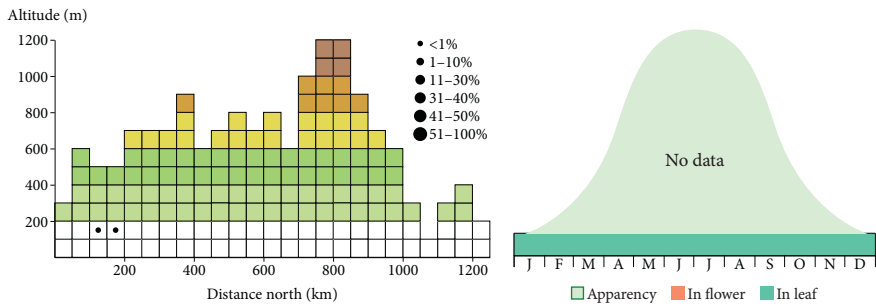
Native	GB	IR
2000–19	0	0
1987–99	0	0
1970–86	0	0
pre-1970	6	0

	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend



Key refs Bolton (1790), Edgington (2011), Wardlaw (2005).

F.J. RUMSEY



N *Asplenium scolopendrium* Hart's-tongue
L.

An evergreen perennial fern of sheltered, humid, moist habitats, including rocky woodlands, streamsides and hedgebanks, grikes in limestone pavement, and on brickwork and walls, where it often grows in a stunted form. It avoids the most acidic substrates. 0–700 m (Great Dun Fell, Westmorland).

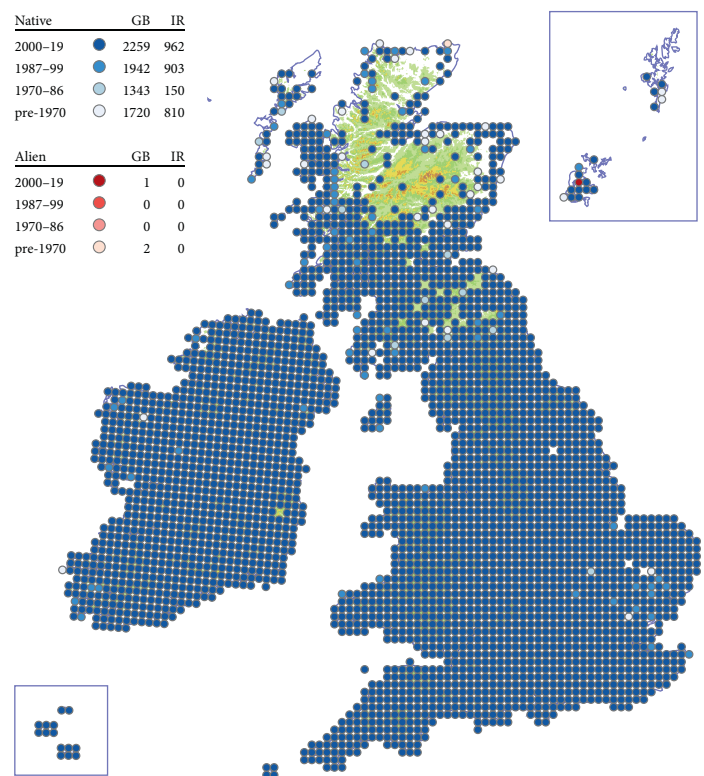
Trends The range of this species has expanded since the 1960s, especially in eastern England and southern Scotland. Much of this increase is likely to have taken place in urban areas given increased habitat availability, the changing climate and reductions in airborne pollutants over recent decades.

Biogeography European Temperate element. Related taxa of different ploidy, usually treated at subspecific level, are present in eastern Asia and North America.

	GB	IR
Long term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑
Short term	↓ ↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↓ ↑ ↑

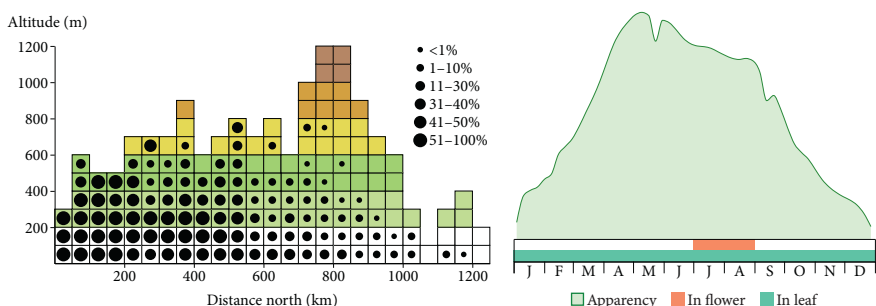
Native	GB	IR
2000–19	2259	962
1987–99	1942	903
1970–86	1343	150
pre-1970	1720	810

Alien	GB	IR
2000–19	1	0
1987–99	0	0
1970–86	0	0
pre-1970	2	0



Key refs Bangerter *et al.* (1978), Page (1997).

F.J. RUMSEY



N *Asplenium adiantum-nigrum* Black Spleenwort

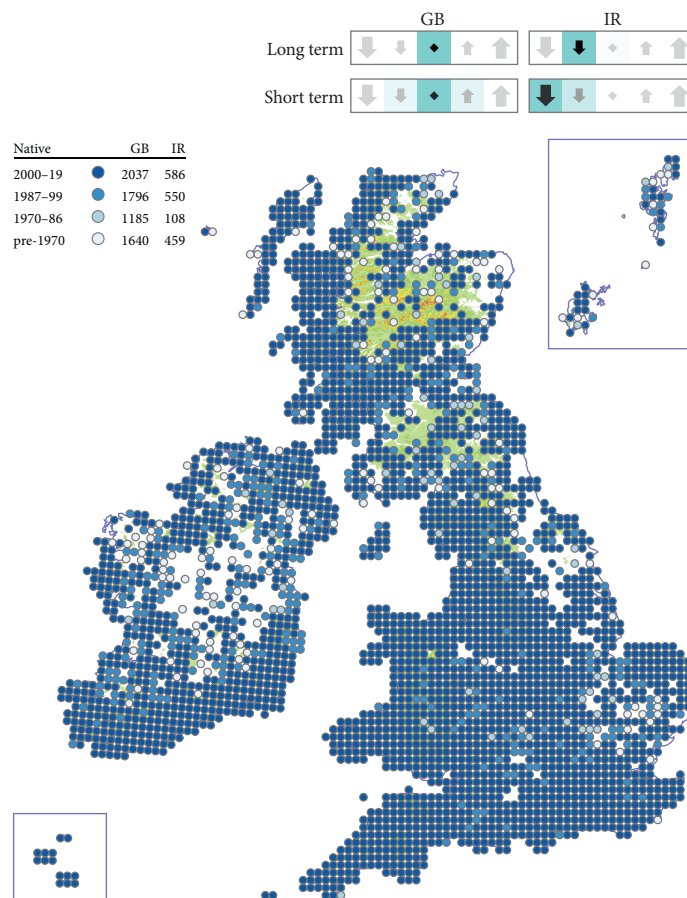
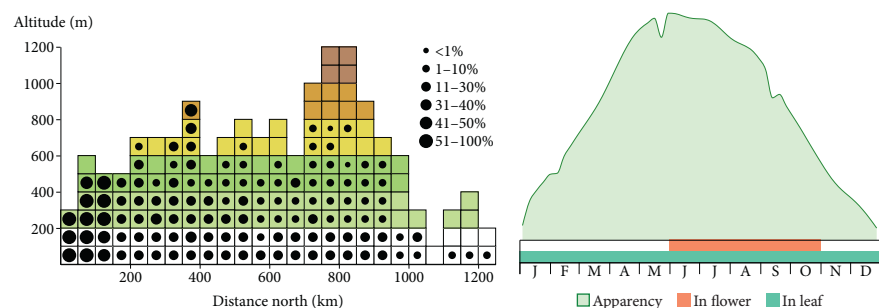
L.

An evergreen perennial fern which occurs on a wide range of well-drained, usually basic substrates, in lightly shaded habitats where there is little competition. These include cliffs and screes, quarries, lane banks and walls. Generally lowland, but reaching 770 m on flushed rocks at Meall Coire Lochain (Westernness).

Trends The 10 km square distribution appears to be stable. It is a very variable species; plants from serpentine rocks in Scotland and western Ireland have previously been confused with the central European *A. cuneifolium*, a diploid which is parental to the tetraploid *A. adiantum-nigrum* and is maternal to these plants. These plants have also been referred to as *A. adiantum-nigrum* subsp. *corunnense*, described from Iberia, and *A. adiantum-nigrum* var. *silesiacum*, described from central Europe. These may be

synonymous but investigation of their respective maternal parentage is ongoing. Morphologically similar plants from the serpentines of Cornwall differ in having *A. onopteris* as their maternal parent, as do all other non-serpentine examples of the species.

Biogeography European Temperate element; also in central Asia and North America.



Key refs Bangerter *et al.* (1978).

F.J. RUMSEY

N *Asplenium onopteris* Irish Spleenwort

L.

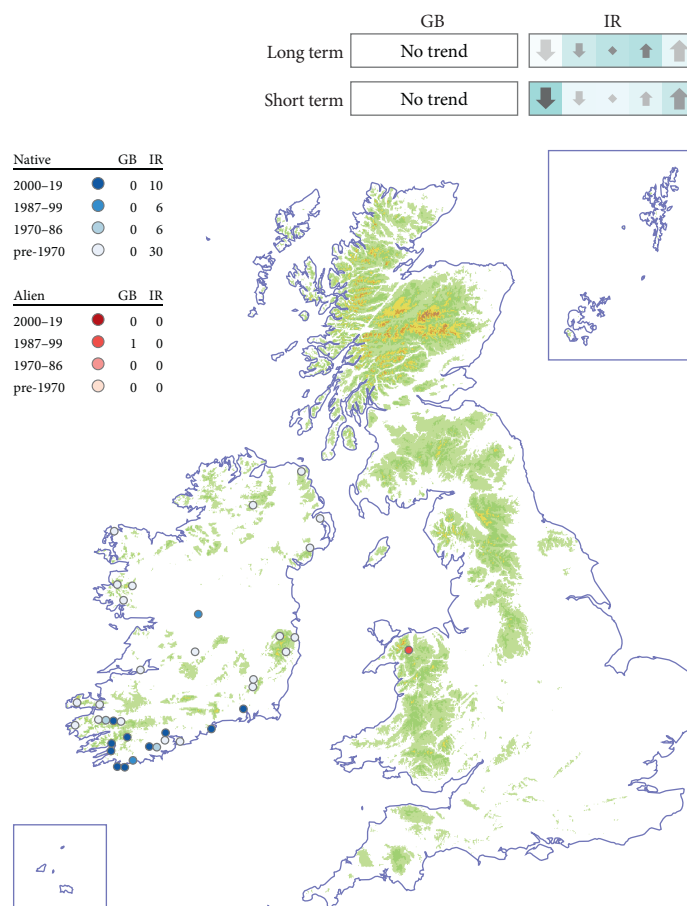
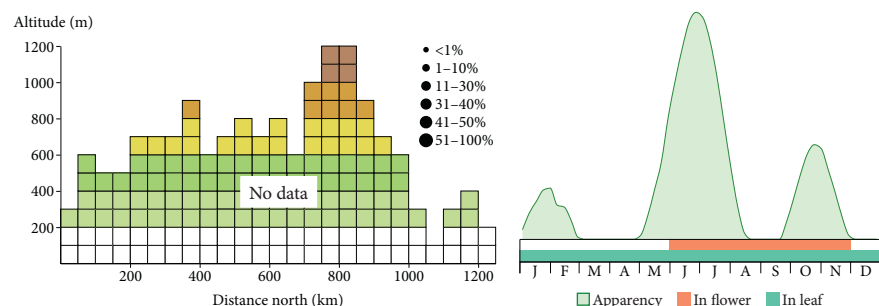
An evergreen perennial fern of dry, warm, lightly shaded, usually basic, earthy banks and rock faces in open deciduous woodland, more rarely on damper maritime rocks and sea-cliffs. Lowland.

Trends The distribution of this species still requires detailed study. *A. adiantum-nigrum* (a polyploid derived in part from *A. onopteris*) and *A. onopteris* freely hybridize to produce the vigorous but sterile hybrid *A. × ticinense* which may persist in the absence of its rarer parent; hybrid populations, and extreme forms of *A. adiantum-nigrum*, are likely to have produced recording errors. A record, treated as an introduction from north Wales, may be just such an error. All Irish populations are small and threatened; historically, collection may have contributed to decline, and

the upgrading of roads has resulted in the loss of some bankside sites.

Native in Ireland and a neophyte in Britain.

Biogeography Mediterranean-Atlantic element; it reaches its northern limit in Ireland where it is morphologically invariable, in contrast to the variation shown in the Mediterranean region.



Key refs Green (2008), O' Mahony (2009), Page (1997), Stace *et al.* (2015).

F.J. RUMSEY

N *Asplenium obovatum* Lanceolate Spleenwort

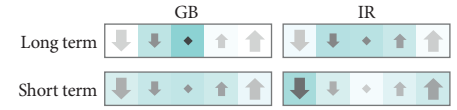
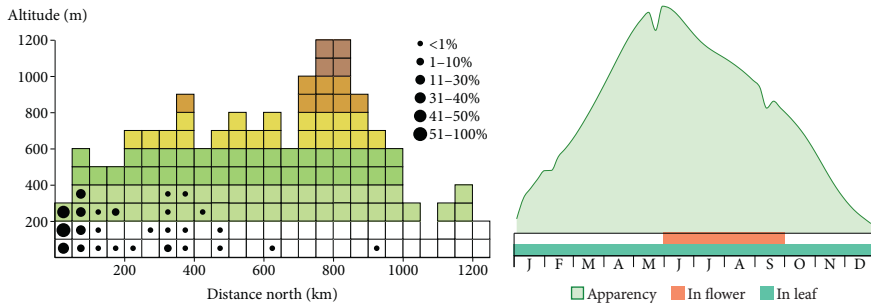
Viv.

A perennial, evergreen, calcifugous fern typically found in sheltered, shady crevices and ledges on maritime cliffs and on rock outcrops. It also occurs on well-drained, acidic, loamy lane banks and dry-stone walls. Most of its sites are near the sea, and the plant is not vigorous in its colder inland sites. Our plant is *A. obovatum* subsp. *billotii*, a tetraploid derived from the distinct Mediterranean diploid *A. obovatum* subsp. *obovatum* and is probably best regarded as a distinct species, *A. billotii*. Lowland.

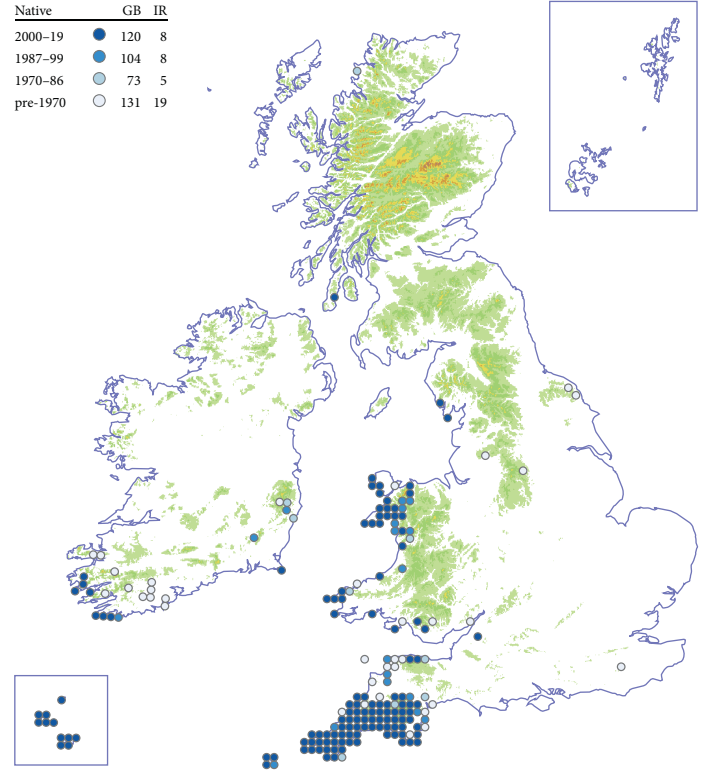
Trends Its 10 km square distribution appears to be stable. Many of the losses of outlying sites are historical and it may to some extent be under-recorded in areas lacking recent records, such as in North Devon, but the lack of recent records in eastern Ireland may represent a genuine loss. Chance

colonists on urban walls resulting from long-range spore dispersal occur rarely and often fail to persist.

Biogeography Mediterranean-Atlantic element.



Native	GB	IR
2000-19	120	8
1987-99	104	8
1970-86	73	5
pre-1970	131	19



Key refs Bangerter *et al.* (1978), Page (1997), Stewart *et al.* (1994).

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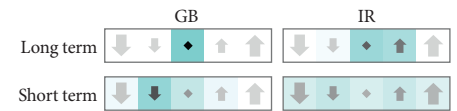
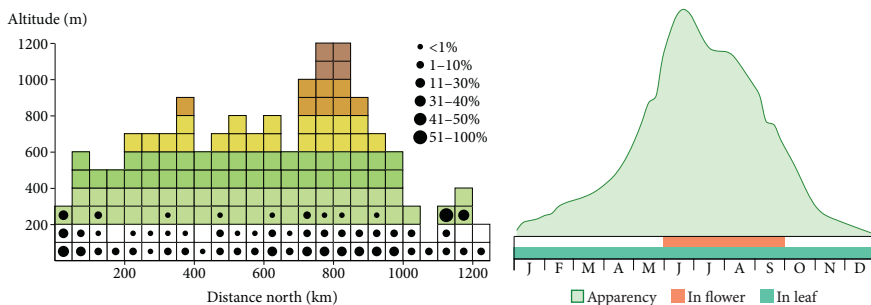
N *Asplenium marinum* Sea Spleenwort

L.

An evergreen perennial fern, predominantly found in cool, moist crevices and fissures in maritime cliffs, on a range of rocky substrates, and often within range of sea-spray. It occasionally grows on walls in coastal areas but, because of its requirement for a frost-free environment and its palatability to molluscs, it is only exceptionally found on rocks or masonry inland. Lowland.

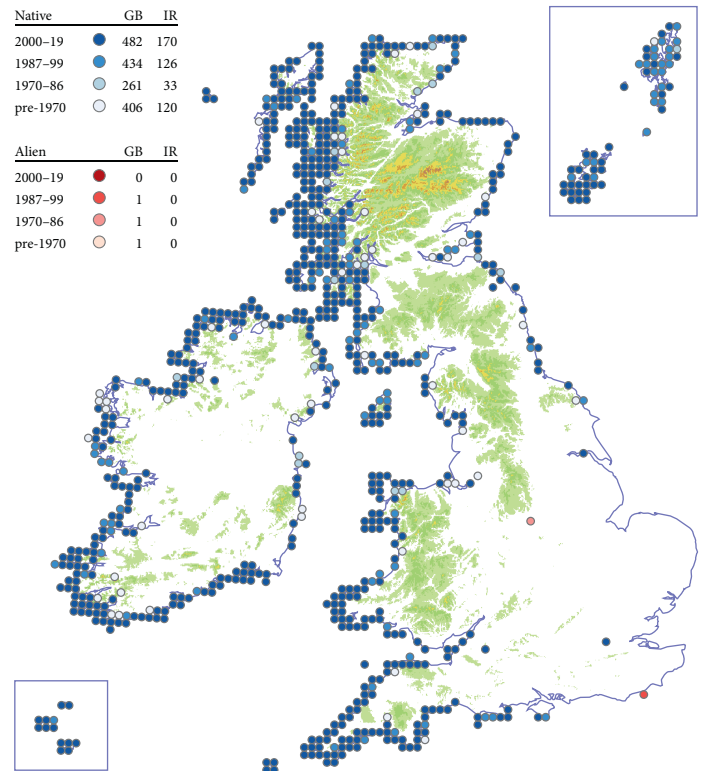
Trends Most of the British sites lacking a post-1970 record were lost before 1930, and the distribution of this species is currently stable. Since 2000 there have been a few discoveries on sheltered urban walls, although these have tended to be ephemeral.

Biogeography Suboceanic Southern-temperate element. This species extends along the Atlantic seaboard from Morocco to south-western Norway.



Native	GB	IR
2000-19	482	170
1987-99	434	126
1970-86	261	33
pre-1970	406	120

Alien	GB	IR
2000-19	0	0
1987-99	1	0
1970-86	1	0
pre-1970	1	0



Key refs Bangerter *et al.* (1978), Page (1997).

F.J. RUMSEY

N *Asplenium trichomanes* Maidenhair Spleenwort

L.

A variable, perennial, evergreen fern which grows in a range of rocky habitats, including cliffs, rock faces, screes, mine waste and, perhaps now most commonly, on walls. 0–870 m (Macgillycuddy's Reeks, South Kerry).

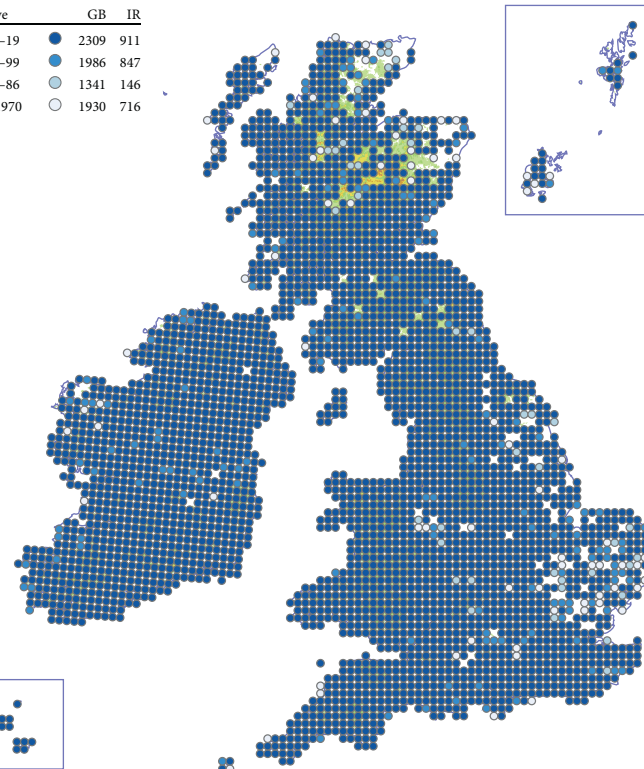
Trends There has been a noticeable increase in the 10 km square distribution of *A. trichomanes* since the 1960s, especially in eastern England, upland Scotland and in Ireland. This has been particularly evident in some urban areas, such as Greater London, although it is perhaps still under-recorded in these situations. This is a polyploid complex within which three ecologically and morphologically fairly distinct taxa (two tetraploid, one diploid) have been recognized within our area, all of which are mapped here separately. However, this taxonomic treatment perhaps oversimplifies a far more complex pattern

of reticulate evolution. The taxonomic ranking of these entities as subspecies versus full species is contentious.

Biogeography Circumpolar Southern-temperate element, with a disjunct distribution.

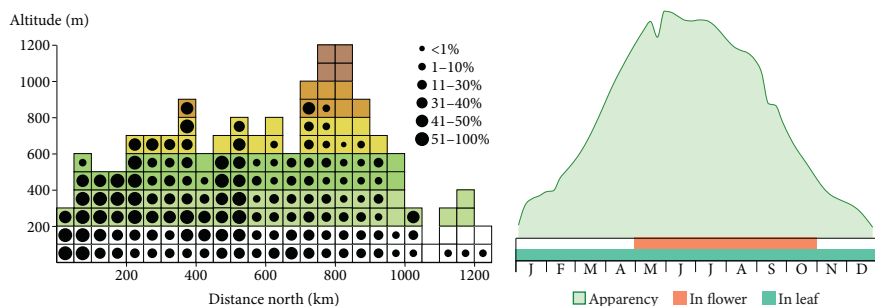
Native	GB	IR
2000–19	2309	911
1987–99	1986	847
1970–86	1341	146
pre-1970	1930	716

	GB	IR
Long term	<input type="button" value="↓"/> <input type="button" value="↓"/> <input checked="" type="button" value="♦"/> <input type="button" value="↑"/> <input type="button" value="↑"/>	<input type="button" value="↓"/> <input checked="" type="button" value="♦"/> <input type="button" value="♦"/> <input type="button" value="↑"/> <input type="button" value="↑"/>
Short term	<input type="button" value="↓"/> <input type="button" value="↓"/> <input type="button" value="♦"/> <input checked="" type="button" value="↑"/> <input type="button" value="↑"/>	<input type="button" value="↓"/> <input type="button" value="↓"/> <input type="button" value="♦"/> <input type="button" value="↑"/> <input type="button" value="↑"/>



Key refs Bangerter *et al.* (1978), Page (1997).

F.J. RUMSEY



N *Asplenium trichomanes* subsp. *trichomanes*

L.

A diploid, evergreen, perennial clump-forming fern, *A. trichomanes* subsp. *trichomanes* is restricted to acidic, siliceous substrates. It is found rooted into crevices in rock outcrops, and on screes, mine waste and dry-stone walls, particularly in oceanic upland areas. 0–540 m (Hartsop, Westmorland).

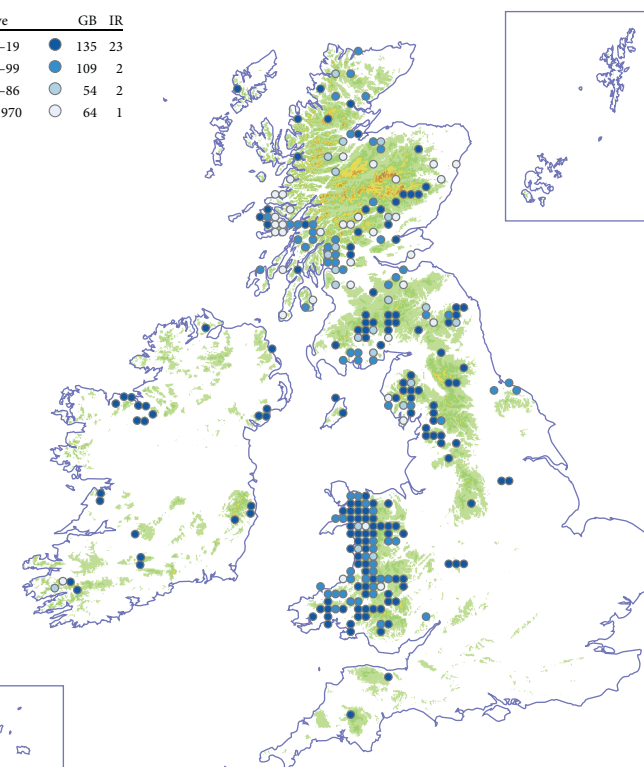
Trends This typically more delicate looking diploid taxon was known to Lovis (1955) and Kent (1965) but did not become widely known until mapped by Jermy *et al.* (1978). It has been much confused with, and is potentially still over-recorded for, forms of the nearly ubiquitous tetraploid subsp. *quadrivalens*. The distinctions are subtle and require microscopic confirmation and although recorders are more aware of it, which has led to recent finds at the southern extremes of range, there may be a reluctance by many to record other

than at aggregate level. The apparent decline in Scotland is most likely a consequence of under-recording.

Biogeography Circumpolar Temperate element. Subsp. *trichomanes* is more frequent than subsp. *quadrivalens* in Scandinavia, but much rarer in the Mediterranean region.

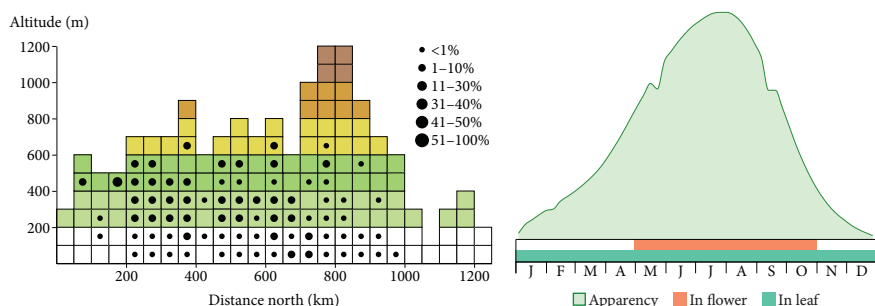
Native	GB	IR
2000–19	135	23
1987–99	109	2
1970–86	54	2
pre-1970	64	1

	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend



Key refs Jermy *et al.* (1978), Kent (1965), Lovis (1955), Page (1997).

F.J. RUMSEY



N *Asplenium trichomanes* subsp. *quadrivalens*

D.E.Mey.

This tetraploid segregate of *A. trichomanes* is found on mortared walls and calcareous rocks. It is replaced by the more montane diploid subsp. *trichomanes* only in the most acidic situations. When growing with the rarer subspecies, noticeably vigorous sterile hybrids may sometimes be found. A variable plant, inbreeding and with distinct morphological and ecological races, some similar to subsp. *pachyrachis*. Generally lowland, but reaching at least 730 m on Cross Fell (Cumberland), and 870 m on Macgillycuddy's Reeks (South Kerry).

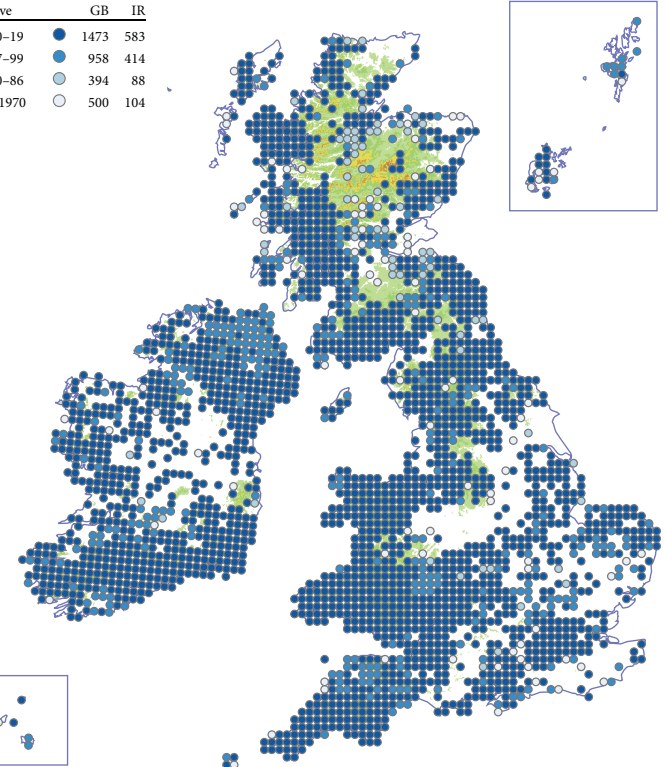
Trends Like subsp. *trichomanes*, this taxon was known to Lovis (1955) and Kent (1965) but did not become widely known until mapped by Jermy *et al.* (1978). As currently defined, this is the most variable and by far the most abundant and widespread

of the *A. trichomanes* subspecies in Britain and Ireland. It is still under-recorded in many areas where recording is not to the subspecies level. The lectotype of *A. trichomanes* is of this taxon which will necessitate a change of name unless a proposal to conserve current usage is successful.

Biogeography Circumpolar Southern-temperate element.

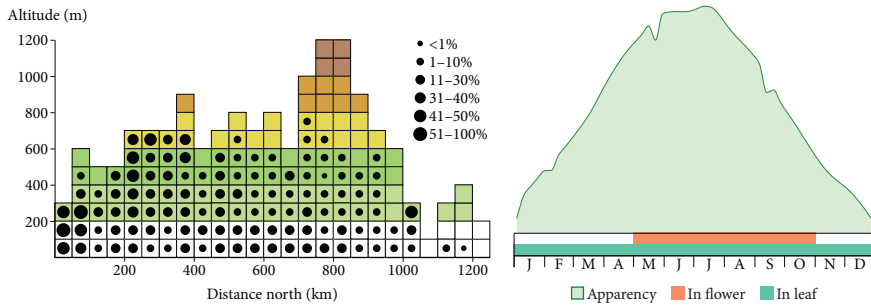
	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend

Native	GB	IR
2000-19	1473	583
1987-99	958	414
1970-86	394	88
pre-1970	500	104



Key refs Grime *et al.* (2007), Jermy *et al.* (1978), Kent (1965), Lovis (1955), Page (1997).

F.J. RUMSEY



N *Asplenium trichomanes* subsp. *pachyrachis* Lobed Maidenhair Spleenwort

(H.Christ) Lovis & Reichst.

A fern of perpendicular limestones, usually in shaded, sheltered, humid places, and often under overhangs. It is rarely found on sandstone rocks with basic inclusions and on old mortared walls, particularly of medieval castles. Generally lowland but with a single record at 420 m (Carlochy, Angus).

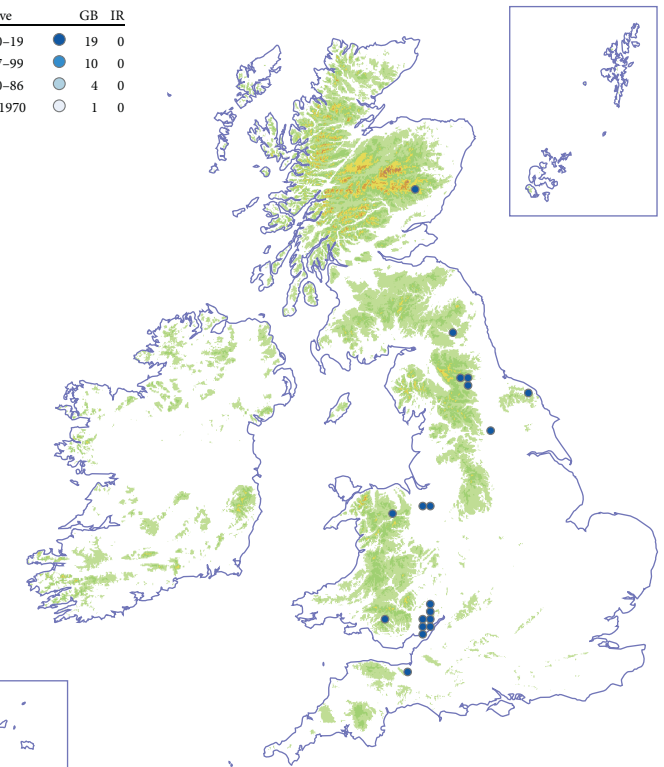
Trends This tetraploid plant was known in Victorian times, but was only identified as the continental subsp. *pachyrachis* comparatively recently (Rickard, 1989). It is treated at specific rank, as *A. csikii*, by Vogel *et al.* (1999), although perhaps better called *A. harovii*, an earlier name for a distinctive member of this species complex which demonstrates the same growth form, and morphological distinctions which discriminate this from other tetraploid examples of the

variable *A. trichomanes* complex. Though it appears to be genuinely rare and strangely absent from many apparently suitable areas, it is possibly still under-recorded. However, it is difficult to separate from similar polyploid lineages which also occur. Some populations on ruined medieval castles, such as at Knaresborough (Mid-west Yorkshire), are quite large, with 100s if not 1,000s of clumps on walls of varying aspects that have not been cleared of vegetation.

Biogeography Widespread but scattered in Europe, centred on limestone massifs in southern Europe with rare occurrences farther north.

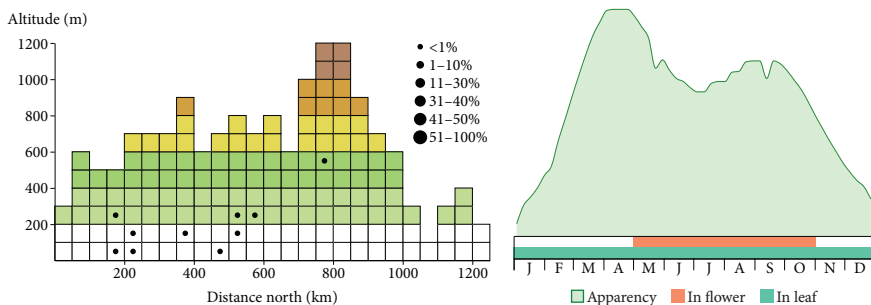
	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend

Native	GB	IR
2000-19	19	0
1987-99	10	0
1970-86	4	0
pre-1970	1	0



Key refs Page (1997), Rickard (1989), Vogel *et al.* (1999), Wigginton (1999).

F.J. RUMSEY



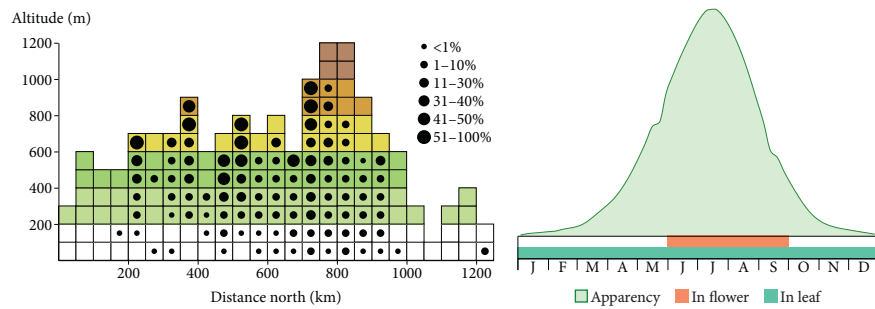
N *Asplenium viride* Green Spleenwort
Huds.

An evergreen fern of moist, sheltered crevices in basic and ultrabasic rocks, the grikes of limestone pavements and very rarely also on mortared walls. It is occasionally a colonist of old metal mine workings. From sea level on the coasts of western Britain and Ireland to 1,000 m on Coire Cheap (Westernness).

Trends There appears to have been a small overall decline throughout the British and Irish range, the causes of which are unclear and may simply reflect an element of under-recording. Because of its requirement for an environment which is cool and humid in summer (Page, 1997), its occasional occurrences in lowland central and eastern England have generally been short-lived, but it has persisted on a London Underground station wall for over 25 years. These occurrences, a consequence of long-distance spore dispersal, have been

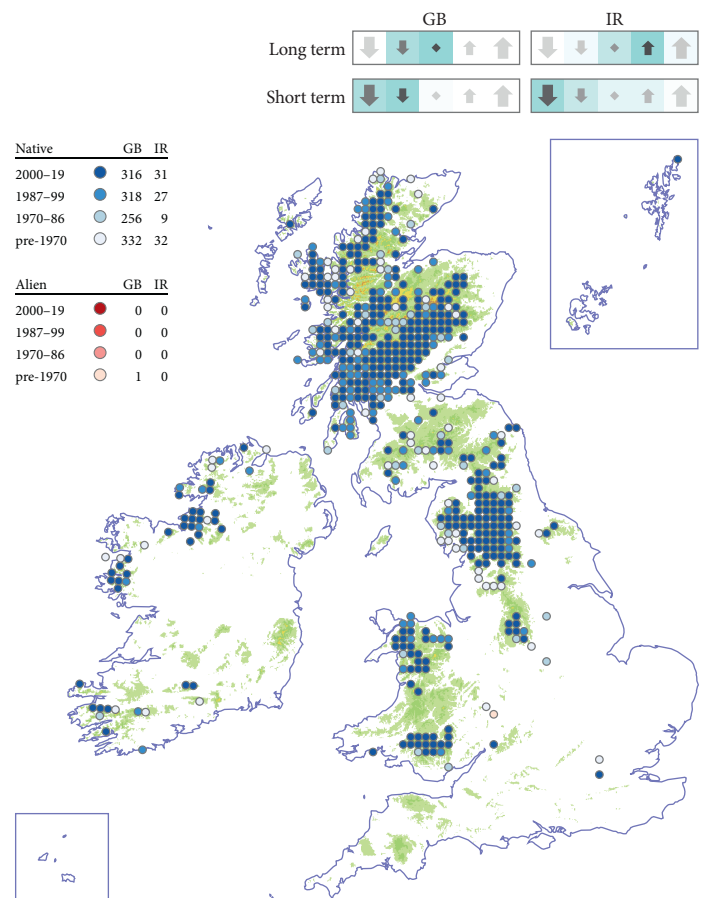
marked as non-native in earlier atlases with little justification.

Biogeography Circumpolar Boreo-montane element, with a disjunct distribution.



Native	GB	IR
2000-19	316	31
1987-99	318	27
1970-86	256	9
pre-1970	332	32

Alien	GB	IR
2000-19	0	0
1987-99	0	0
1970-86	0	0
pre-1970	1	0



Key refs Bangerter *et al.* (1978), Page (1997), Rumsey (1997).

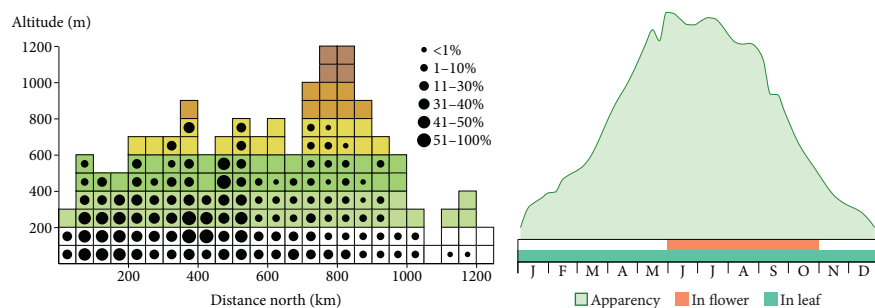
F.J. RUMSEY

N *Asplenium ruta-muraria* Wall-rue
L.

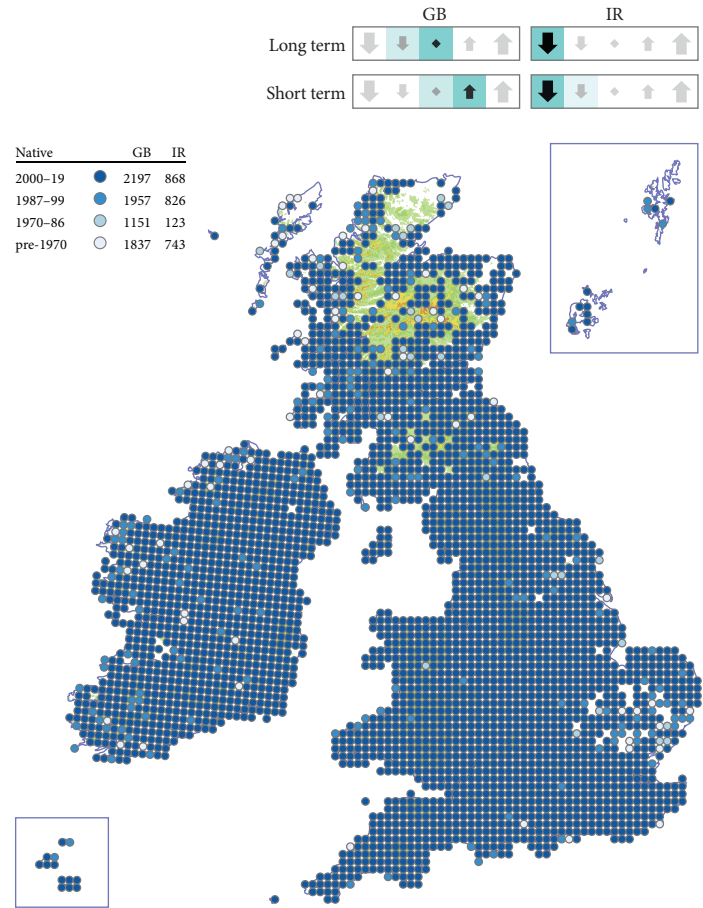
A perennial, evergreen fern that occurs on limestone and other basic rocks, where it grows on steep, bare faces and in crevices; it is also found in hollowed clints in limestone pavement. In most lowland areas it is now equally, if not more abundant on mortared walls and other man-made structures. 0-625 m (Ingleborough, Mid-west Yorkshire).

Trends A variable tetraploid inbreeding species. Historically, there was some decline in industrial areas through acidification (Page, 1997), but in recent years cleaner air has reversed this trend. Populations may be dynamic; losses occur through renovation of walls and the built environment, and this has its most marked influence on distribution in lowland agricultural areas where its habitat is scarcest.

Biogeography Circumpolar Temperate element, with a disjunct distribution.



Native	GB	IR
2000-19	2197	868
1987-99	1957	826
1970-86	1151	123
pre-1970	1837	743



Key refs Bangerter *et al.* (1978), Grime *et al.* (2007), Page (1997).

F.J. RUMSEY

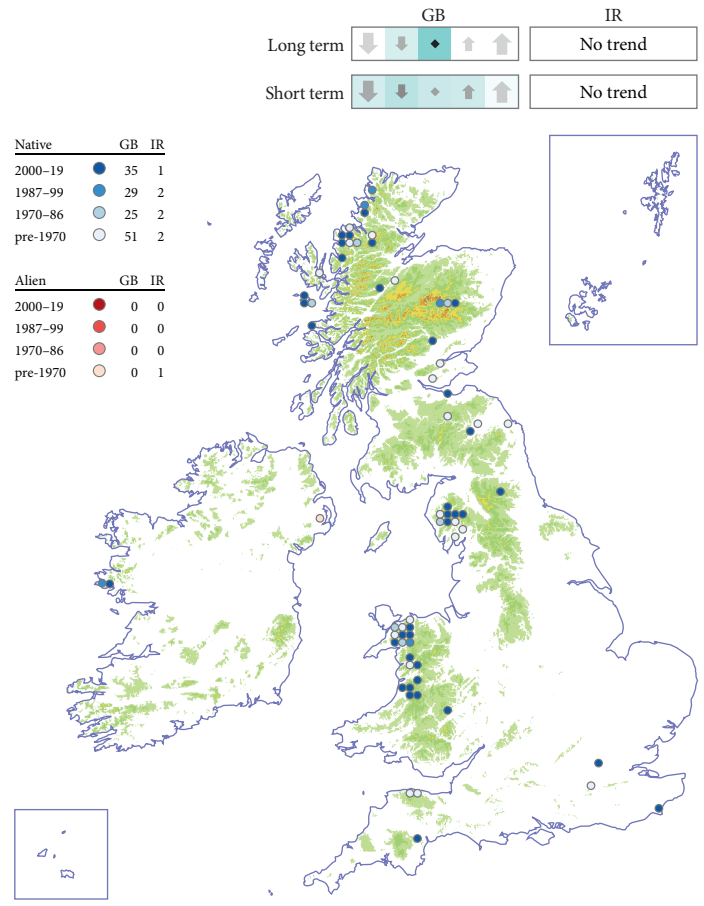
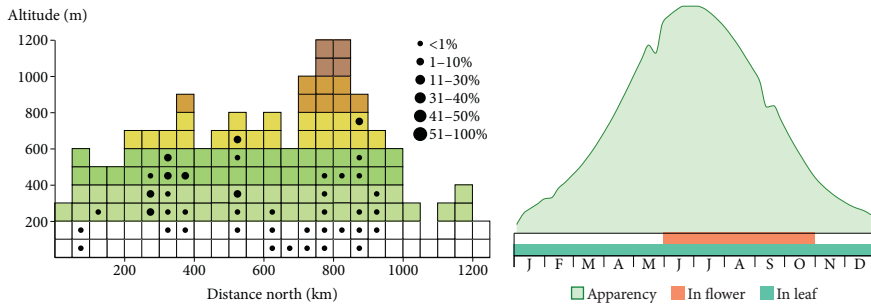
N *Asplenium septentrionale* Forked Spleenwort
(L.) Hoffm.

An often long-lived, small, evergreen fern of well-drained, exposed, sunny, usually acidic rock faces, metalliferous mine spoil and unmortared stone walls. In Ireland, it grows on ultrabasic rocks. 0–535 m (Moel yr Ogof, Caernarvonshire), formerly to 715 m at Llyn y Cwn (Caernarvonshire).

Trends This species has always been highly localized due to its exacting edaphic preferences. Although it is easily overlooked and potentially under-recorded, its distribution is now essentially stable on natural rock faces where its chief threats are scrub growth and encroachment. Historically, it was lost from a number of sites through collection, as on Exmoor (South Somerset), but the greatest continuing threats are through the tidying and restoration of old mining sites and walls. It can rapidly

colonize mine spoil and the adjacent built environment, particularly where influenced by metalliferous substrates. Long distance spore dispersal has allowed colonization of walls far distant from known populations, as on the brickwork of an old bridge on Romney Marsh (East Kent). Such occurrences have previously been treated as non-native, but with little justification. The disjunct lowland populations are extremely small and vulnerable, but in the absence of detrimental management, long-persistent.

Biogeography European Temperate element; also in central Asia and western North America.



Key refs Bangerter *et al.* (1978), Page (1997), Stewart *et al.* (1994).

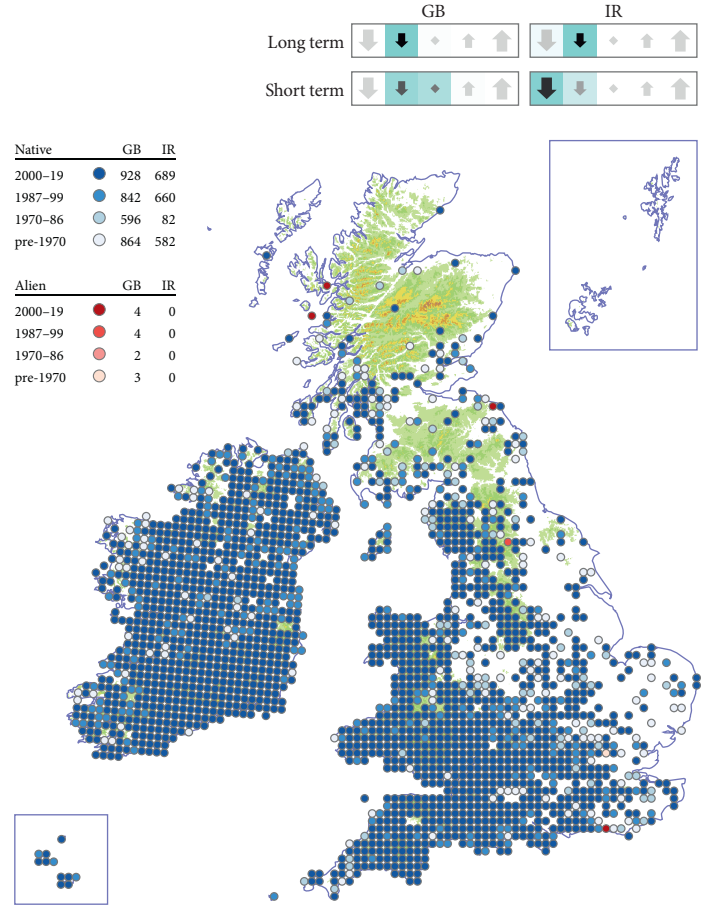
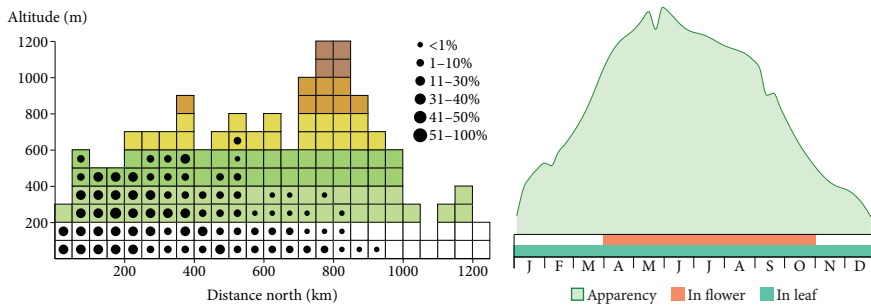
F.J. RUMSEY

N *Asplenium ceterach* Rustyback
L.

A perennial, calcicolous fern found on crags and cliffs of basic rocks, especially limestone, and also on limestone pavements and mortared walls. Generally lowland, reaching 580 m in High Cup Nick (Westmorland).

Trends Historically, this species has benefitted from the increase in available habitat created by the built environment. Its range has increased markedly since the 1960s, particularly in eastern Britain, but recent losses are also greater here, suggesting colonization which is not always successful. The species is distinctive and thus well recorded but its wall habitats are prone to renovation with the loss of small isolated populations.

Biogeography Submediterranean-Subatlantic element; also in central Asia.



Key refs Bangerter *et al.* (1978), Page (1997).

F.J. RUMSEY

N *Thelypteris palustris* Marsh Fern

Schott

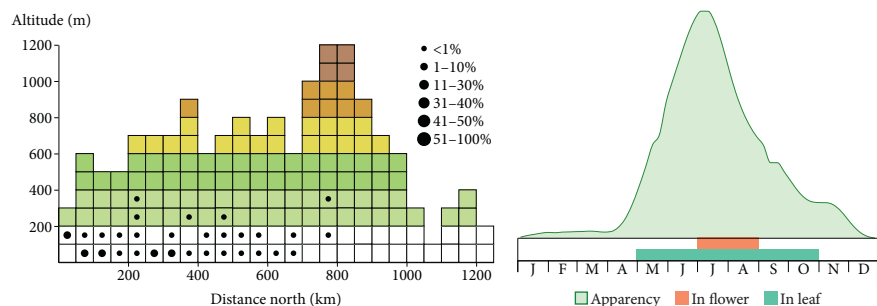
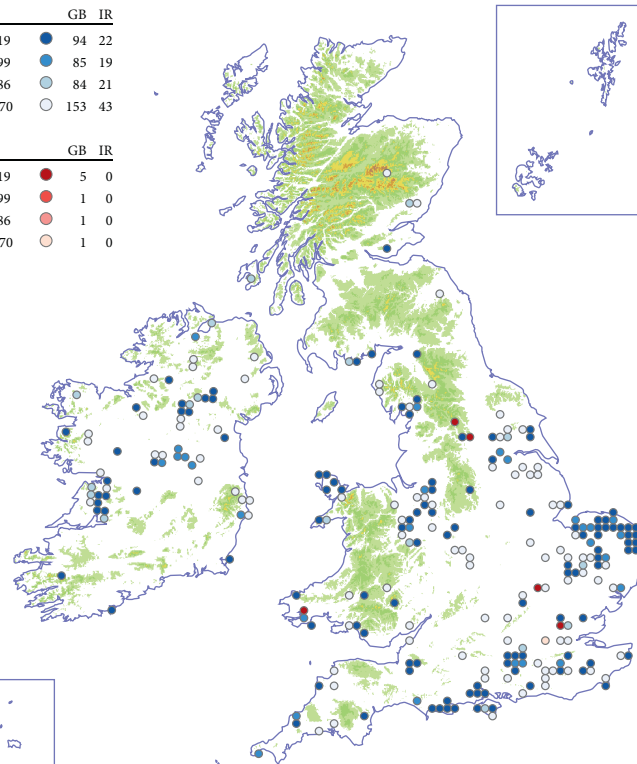
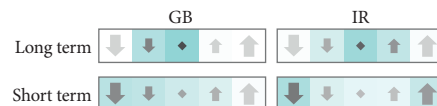
A perennial fern of open or recently wooded fen or open carr, where the soil is permanently wet and organic, but not too acidic. It is a characteristic component of *Phragmites australis*-*Cladium mariscus* fen, but also persists as vigorous colonies in alder- or willow-carr. Generally lowland, but formerly at 335 m (Braemar, South Aberdeenshire).

Trends *T. palustris* declined in the 19th and 20th centuries due to drainage, but can be remarkably tenacious where natural succession has occurred, and has been re-found in several of its stations after many decades. It remains well distributed, with strongholds in wetland landscapes such as the Norfolk Broads, New Forest and Somerset Levels, although away from these areas it does appear to be faring less well. A few new sites for the species have been discovered since 2000, most notably in Kent, Caernarvonshire and County Wexford.

Biogeography Circumpolar Temperate element, with a disjunct distribution.

Native	GB	IR
2000-19	94	22
1987-99	85	19
1970-86	84	21
pre-1970	153	43

Alien	GB	IR
2000-19	5	0
1987-99	1	0
1970-86	1	0
pre-1970	1	0



Key refs Bangerter *et al.* (1978), Page (1997), Stewart *et al.* (1994).

R.J. COOKE

N *Phegopteris connectilis* Beech Fern

(Michx.) Watt

A creeping, rhizomatous fern of ancient woodlands dominated by *Quercus petraea* on neutral to acidic soils, where it frequently occurs on deeper soils on shaded and humid gully sides where base-rich water percolates.

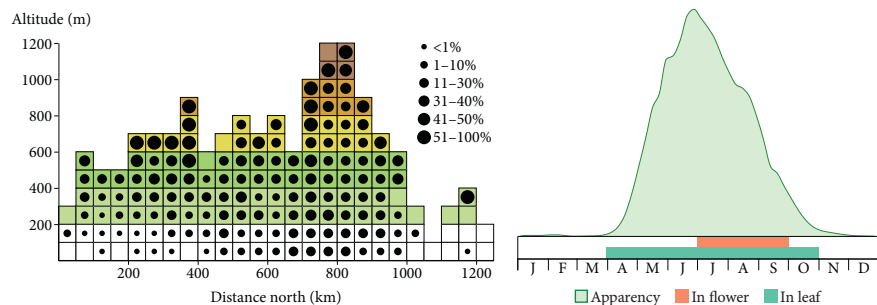
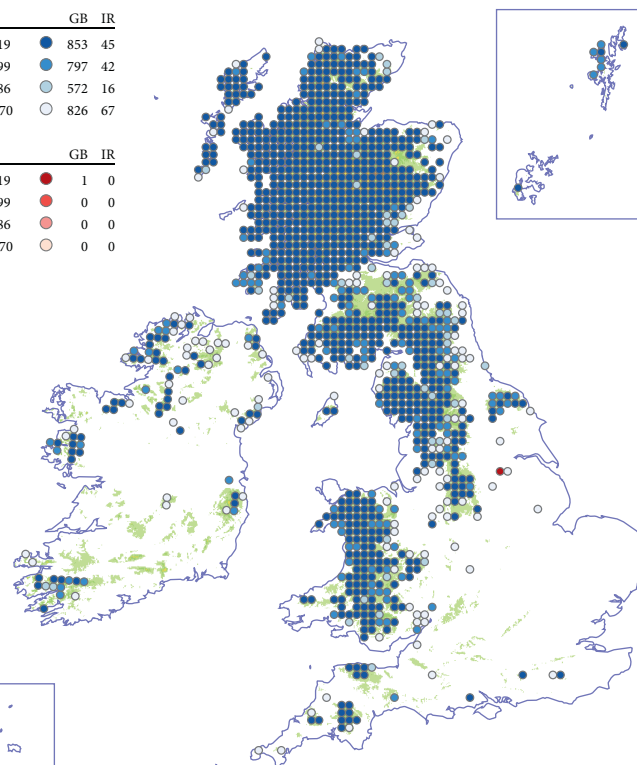
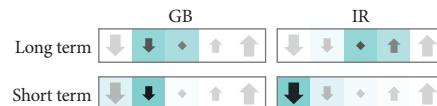
It can also be found amongst boulders and on wet rock faces in the uplands where it is afforded protection from grazing. It is virtually absent from lowland regions of England, Wales and Ireland. 0-1,200 m (Observatory Ridge, Ben Nevis, Westernness).

Trends The distribution of *P. connectilis* is stable, and with many new records on the southern and eastern margins of its Welsh range, and the margins of its Scottish range, since 2000.

Biogeography Circumpolar Boreo-temperate element.

Native	GB	IR
2000-19	853	45
1987-99	797	42
1970-86	572	16
pre-1970	826	67

Alien	GB	IR
2000-19	1	0
1987-99	0	0
1970-86	0	0
pre-1970	0	0



Key refs Bangerter *et al.* (1978), Page (1997).

R.J. COOKE

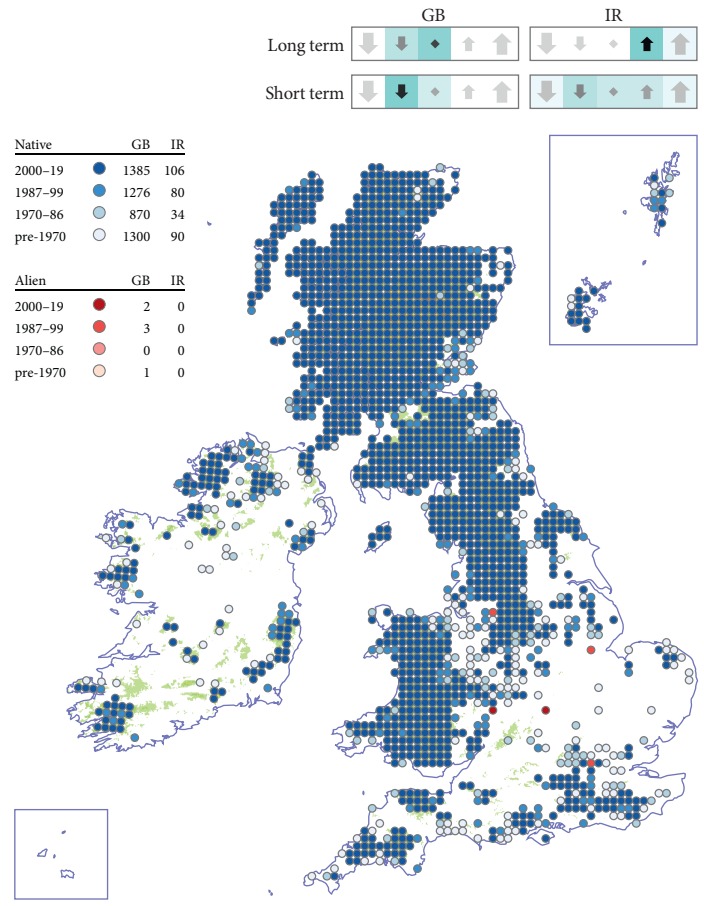
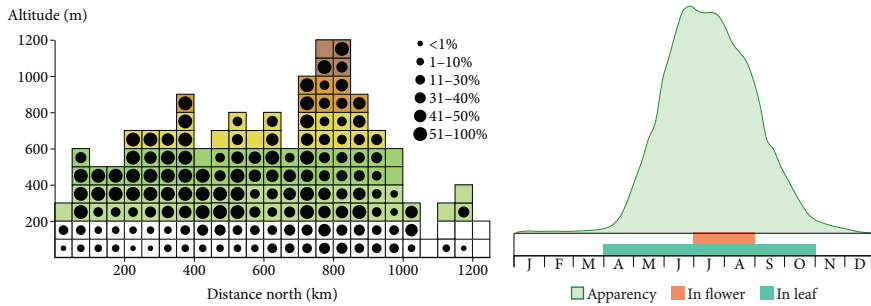
N *Oreopteris limbosperma* Lemon-scented Fern

(All.) Holub

A perennial fern of acidic, peaty or humus-rich soils in open woodland, along drainage ditches and streamsides, and on damp heathlands, upland grassland and damp rock ledges. It is especially associated with the edges of watercourses, including man-made ditches, and is therefore more frequent on poorly drained substrates. 0–1,233 m (summit of Aonach Beag, Westernness).

Trends The distribution of this species in the uplands, where it can be locally abundant, is stable. Many of the losses in the lowlands occurred before 1930, caused especially by the destruction of heathland. This decline continues and remaining populations in south-eastern England are small and vulnerable. The factors responsible for losses are varied, but include changes to woodland management, drainage and eutrophication.

Biogeography European Temperate element.



Key refs Bangerter *et al.* (1978), Page (1997).

T.D. DINES & F.J. RUMSEY

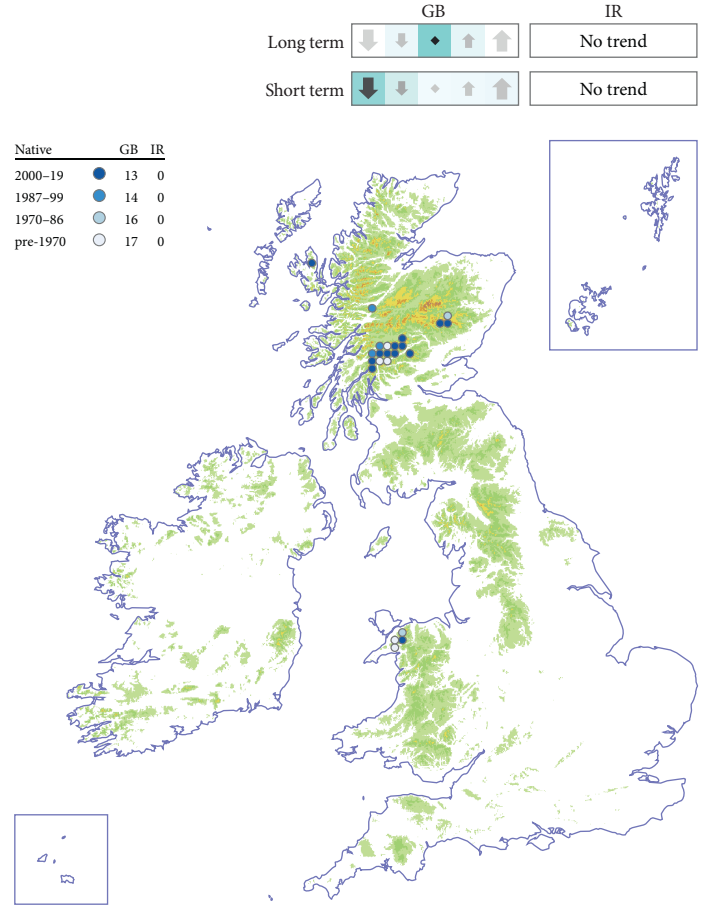
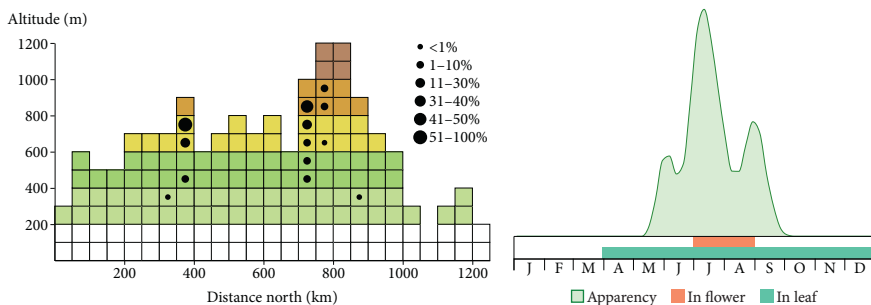
N *Woodsia alpina* Alpine Woodsia

(Bolton) Gray

A diminutive semi-evergreen fern of steep bare faces of calcareous rocks, including pumice tuffs, basalts, mica- and hornblende schists, slates and limestones. Sites are very free-draining, if often quite wet, with little competition. From 391 m on Ben Heasgarnich (Mid Perthshire) to 975 m on Ben Lawers (Mid Perthshire).

Biogeography Circumpolar Boreo-arctic Montane element.

Trends *W. alpina* was first reported from Snowdonia in 1790, and current populations are probably relics from more widespread populations in post-glacial times. It suffered a serious decline through collecting in the 19th century. New sites have been discovered since it was first mapped in the 1962 *Atlas*, and current populations appear to be relatively stable. Some apparent historical losses may be through misidentifications.



Key refs Bangerter *et al.* (1978), Page (1997), Wigginton (1999).

T.D. DINES & F.J. RUMSEY

N *Woodsia ilvensis* Oblong Woodsia

(L.) R.Br.

A diminutive semi-evergreen fern of horizontal cracks and fissures in cliffs and crags, typically on more acidic tuffs, grits and shales. Sites are exposed and very free-draining, with little competition. There is little evidence for sexual reproduction and the plant is reliant on very local vegetative spread and great longevity for survival. From 365 m to 700 m (Cwm Idwal, Caernarvonshire), and possibly to 760 m (Cumberland).

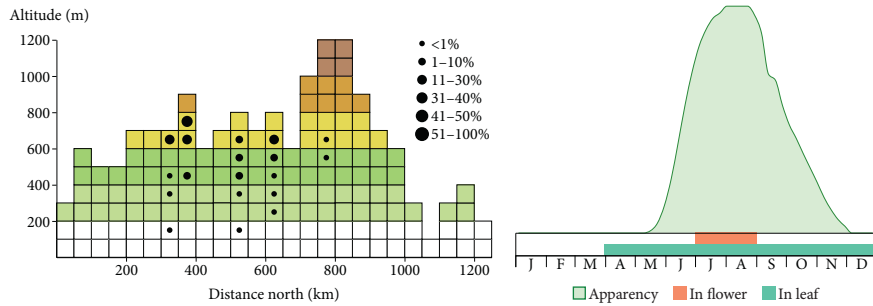
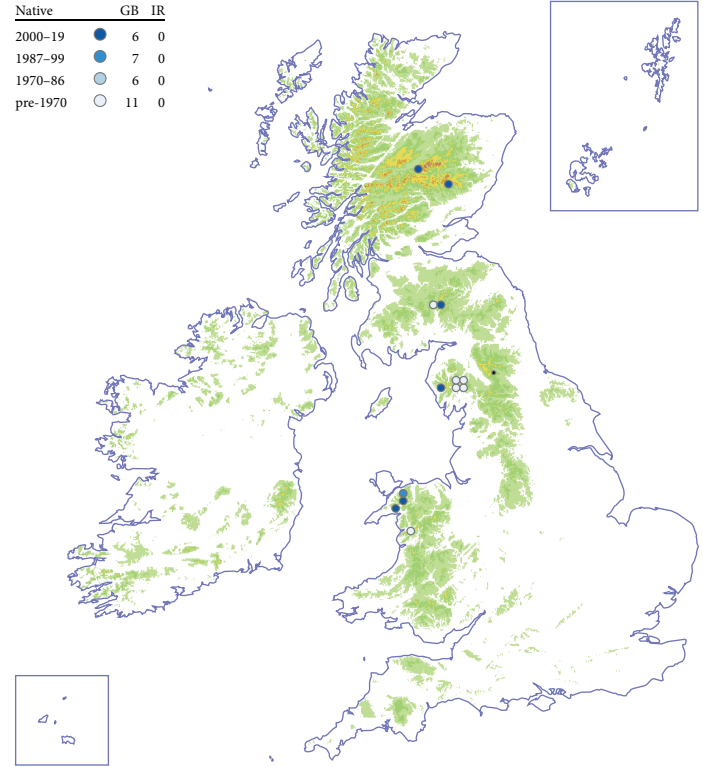
Trends Current populations of *W. ilvensis* are probably relics of a more widespread post-glacial distribution. It suffered serious declines due to collecting in the 19th century but now appears to be stable, if still extremely vulnerable. The total British population is of fewer than 200 individuals, with most sites supporting single figures and with little evidence of recruitment, despite conservation activities. Some

older records (e.g. Cumberland) may be erroneous. Successful reintroductions have taken place at historical locations in Scotland and Upper Teesdale (Falcon Clints, Cronkley Scar).

Biogeography Circumpolar Boreo-arctic Montane element.

Native	GB	IR
2000-19	6	0
1987-99	7	0
1970-86	6	0
pre-1970	11	0

	GB	IR
Long term	No trend	No trend
Short term	No trend	No trend



Key refs Bangerter *et al.* (1978), Page (1997), Wigginton (1999).

E.J. RUMSEY & T.D. DINES

N *Athyrium filix-femina* Lady-fern

(L.) Roth

A deciduous fern that prefers moist but well-drained acidic soils, but can tolerate more basic substrates if these are overlain by mildly acidic layers. It is particularly frequent in deciduous woodland, especially on stream banks, and in moist, rocky habitats, but is also found in hedgerows, drainage ditches and in the uplands on damper cliff ledges and gullies. It is one of few species able to colonize metalliferous lead and tin mine deposits, but unlike other woodland species is rarely found on urban walls, where lack of moisture is a limitation. 0-1,005 m (Carnedd Llewelyn, Caernarvonshire).

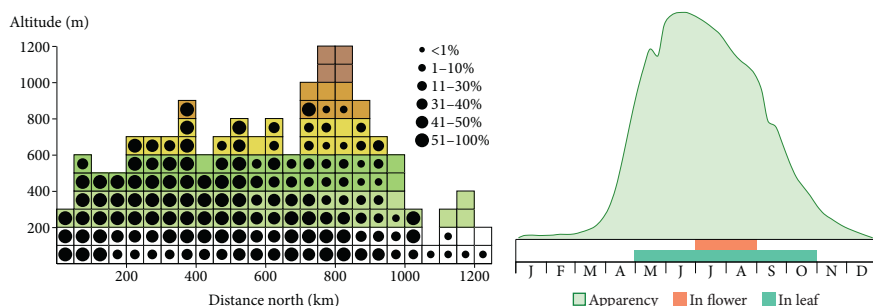
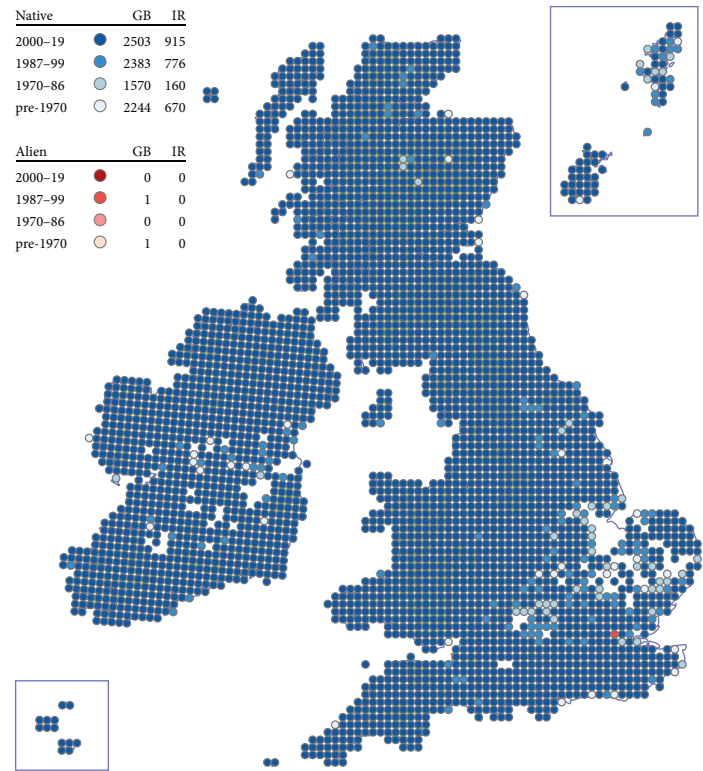
Trends There is little evidence for any recent change in the distribution of this widespread and common species. There have, historically, been some losses in eastern and central England through habitat loss and drainage.

Biogeography Circumpolar Boreo-temperate element.

Native	GB	IR
2000-19	2503	915
1987-99	2383	776
1970-86	1570	160
pre-1970	2244	670

Alien	GB	IR
2000-19	0	0
1987-99	1	0
1970-86	0	0
pre-1970	1	0

	GB	IR
Long term	↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↑ ↑
Short term	↓ ↓ ↓ ↑ ↑	↓ ↓ ↓ ↑ ↑



Key refs Bangerter *et al.* (1978), Grime *et al.* (2007), Page (1997).

T.D. DINES & E.J. RUMSEY

N *Athyrium distentifolium* Alpine Lady-fern

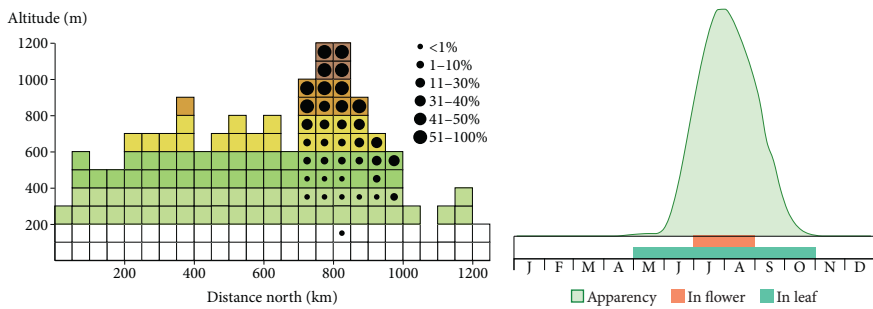
Tausch ex Opiz

A deciduous fern of the higher Scottish mountains, growing in block screes and in shallow hollows where snow lies late into summer, gullies and more rarely on rock ledges. It prefers more stable, acidic block screes with a northerly or north-easterly aspect and some degree of soil accumulation. Found from 455 m in the Breadalbanes (Mid Perthshire) to 1,230 m on the north face of Ben Nevis (Westernness).

Trends Since the latter decades of the 20th century there is evidence for a decline in this species, probably through a combination of overgrazing and decreasing snow-lie as a consequence of climate change, as the decline has been most marked for the endemic late snow bed ecotype previously known as *A. flexile*. This decline is likely to be ongoing. Molecular studies have suggested that the plant

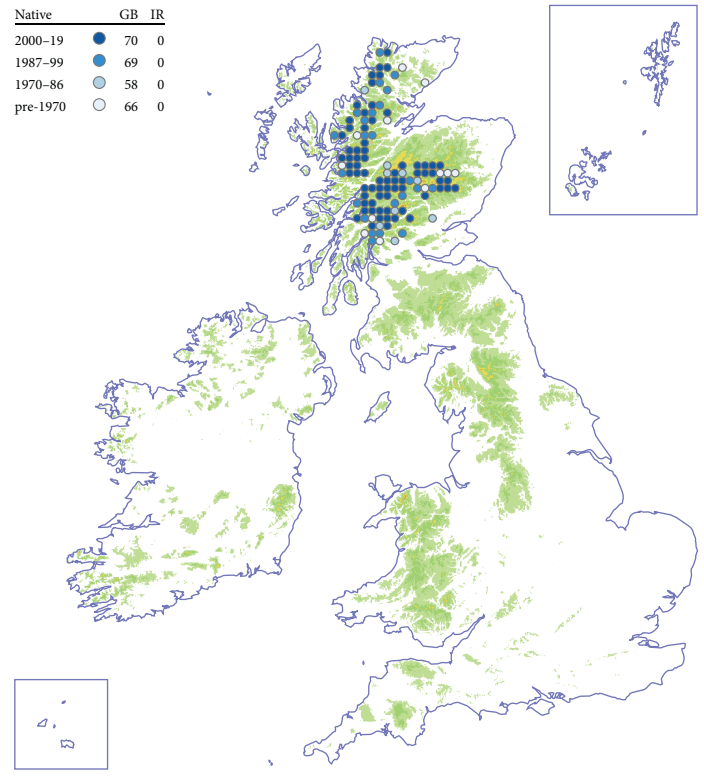
is better reinstated in the monotypic genus *Pseudathyrium* as *P. alpestre*.

Biogeography Circumpolar Arctic-montane element, with a disjunct distribution.



GB IR
 Long term [down arrow] [down arrow] [diamond] [up arrow] [up arrow] No trend
 Short term [down arrow] [down arrow] [diamond] [up arrow] [up arrow] No trend

Native	GB	IR
2000-19	70	0
1987-99	69	0
1970-86	58	0
pre-1970	66	0



Key refs Bangerter *et al.* (1978), McHaffie (2005), Page (1997), Stewart *et al.* (1994).

F.J. RUMSEY

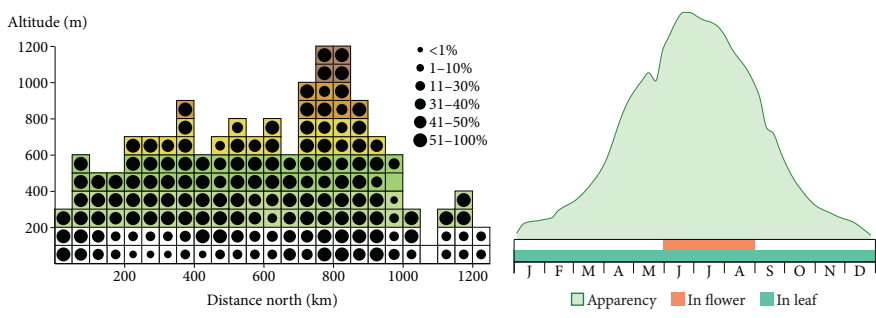
N *Blechnum spicant* Hard-fern

(L.) Roth

An evergreen calcifugous fern of damp peaty or loamy soils, often on ditchbanks, in deciduous and coniferous woodland and heathland. In suitably wet climates it extends onto open moorland, streamsides and hedgerows. 0-1,065 m (Aonach Beag, Westernness), and reportedly to 1,185 m elsewhere in Scotland.

Trends Although still widespread and abundant over much of Britain and Ireland, this species declined through the latter part of the 20th century in central and eastern lowland England and central Ireland due to woodland clearance and the conversion of lowland heathland to improved pasture. It is now treated by many authors as *Struthiopteris spicant* (De Gasper *et al.*, 2016).

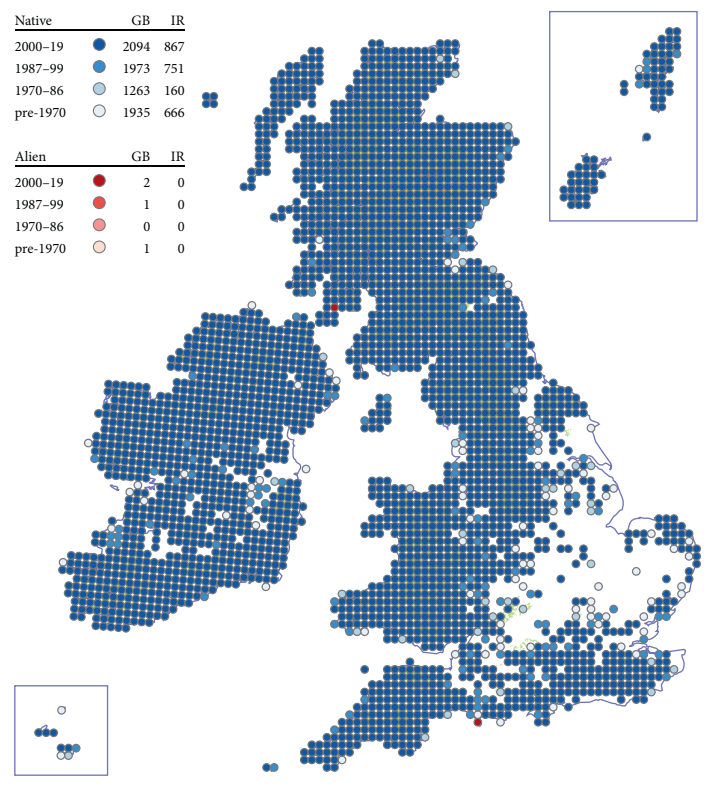
Biogeography European Temperate element; also in northern Africa, western Asia and western North America.



GB IR
 Long term [down arrow] [down arrow] [diamond] [up arrow] [up arrow] No trend
 Short term [down arrow] [down arrow] [diamond] [up arrow] [up arrow] No trend

Native	GB	IR
2000-19	2094	867
1987-99	1973	751
1970-86	1263	160
pre-1970	1935	666

Alien	GB	IR
2000-19	2	0
1987-99	1	0
1970-86	0	0
pre-1970	1	0



Key refs Bangerter *et al.* (1978), de Gasper *et al.* (2016), Page (1997).

T.D. DINES & F.J. RUMSEY

Ne *Blechnum cordatum* Greater Hard-fern

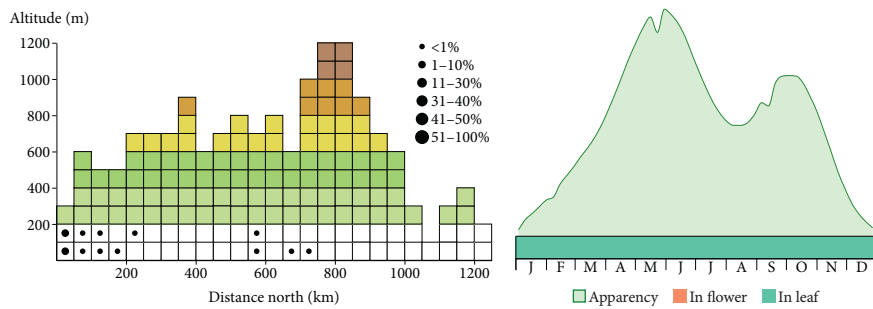
(Desv.) Hieron.

A large, evergreen fern with a shortly creeping rhizome, eventually forming extensive patches, found in hedgerows, on rocky roadsides, by streams and ditches, where it typically occurs as a garden outcast which may then be transported downstream through rhizome fragmentation. It also occurs as a garden relic. Reproduction is primarily by vegetative spread. Lowland.

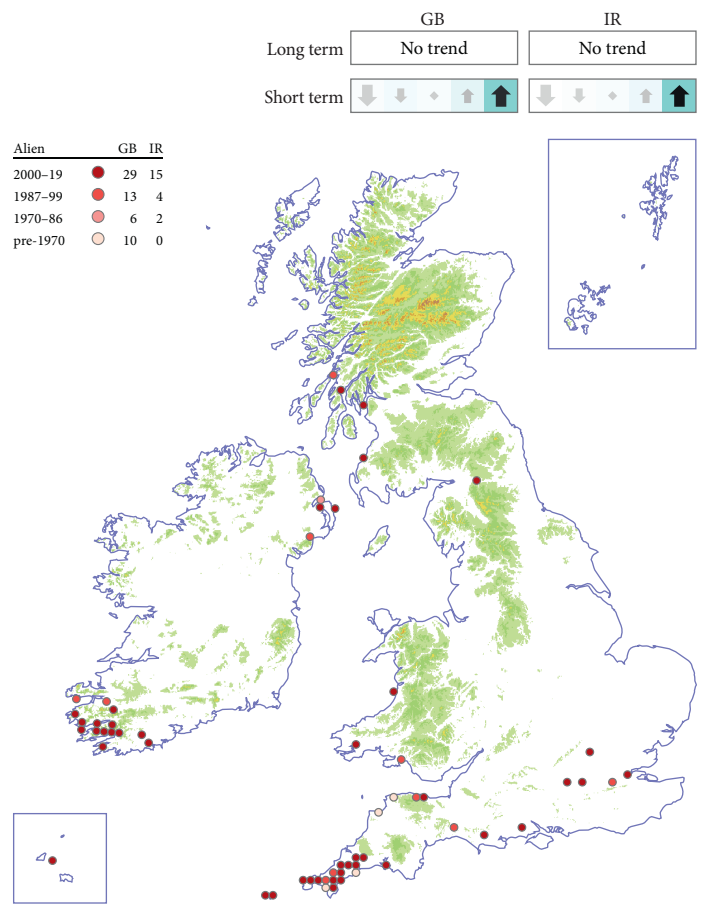
Trends *B. cordatum* is now much more frequently grown in gardens and is widely available in garden centres, often under the name *B. chilense*. It is the most commonly cultivated of a complex of robust, small-trunk forming Austral taxa, often now separated in the genus *Parablechnum*. It was first recorded in the wild in our area from Clooney Loughs, Kenmare (South Kerry) in 1952, with a first British record from a malodorous ditch on St. Mary's,

Isles of Scilly, in 1953. Its increasing popularity and availability has seen it much more widely recorded as a casual garden outcast, with more frequent and persistent occurrences in the far south-west and along our Atlantic coasts.

Biogeography Native of southern South America.



Alien	GB	IR
2000-19	29	15
1987-99	13	4
1970-86	6	2
pre-1970	10	0



Key refs Grenfell (1983).
F.J. RUMSEY

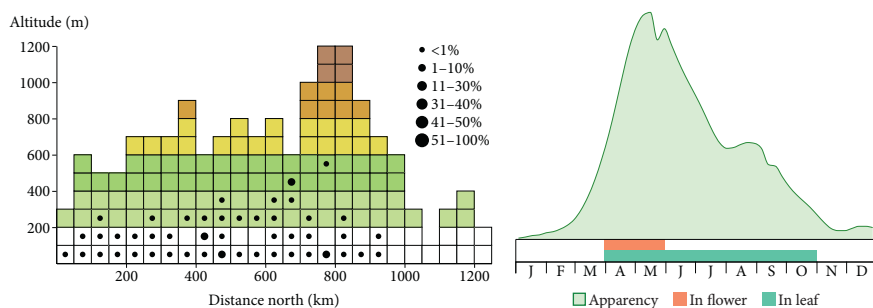
Ne *Matteuccia struthiopteris* Ostrich Fern

(L.) Tod.

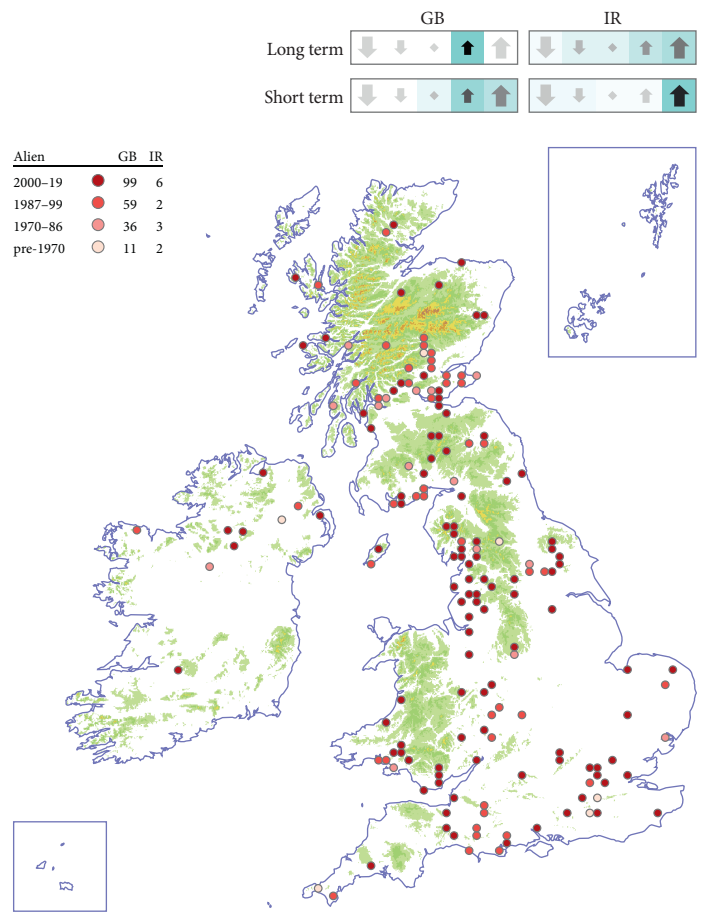
A large deciduous fern found in damp woodland, by streams and lakes, and in fen-carr under birches. It tolerates a range of soil pH, but prefers waterlogged clay substrates. It spreads through the production of stolons. Lowland.

Trends *M. struthiopteris* was introduced to cultivation in Britain in 1760 and is frequently grown for its distinctive shuttlecock shape. It has been known in the wild since 1948 (Lough Neagh, Antrim), and is increasing due to its popularity in water gardens. The number of recorded sites has more than doubled in the last two decades, but the majority are likely to be deliberate plantings in formal parkland or large gardens and there is limited evidence to suggest that it is spreading unaided; however, it spreads aggressively by runners once established.

Biogeography A Circumpolar Boreal-montane species; absent as a native from much of western Europe although it is considered to be native in a small area of north-eastern France where it is at the western extreme of its native Eurasian range (Prelli, 2001).



Alien	GB	IR
2000-19	99	6
1987-99	59	2
1970-86	36	3
pre-1970	11	2



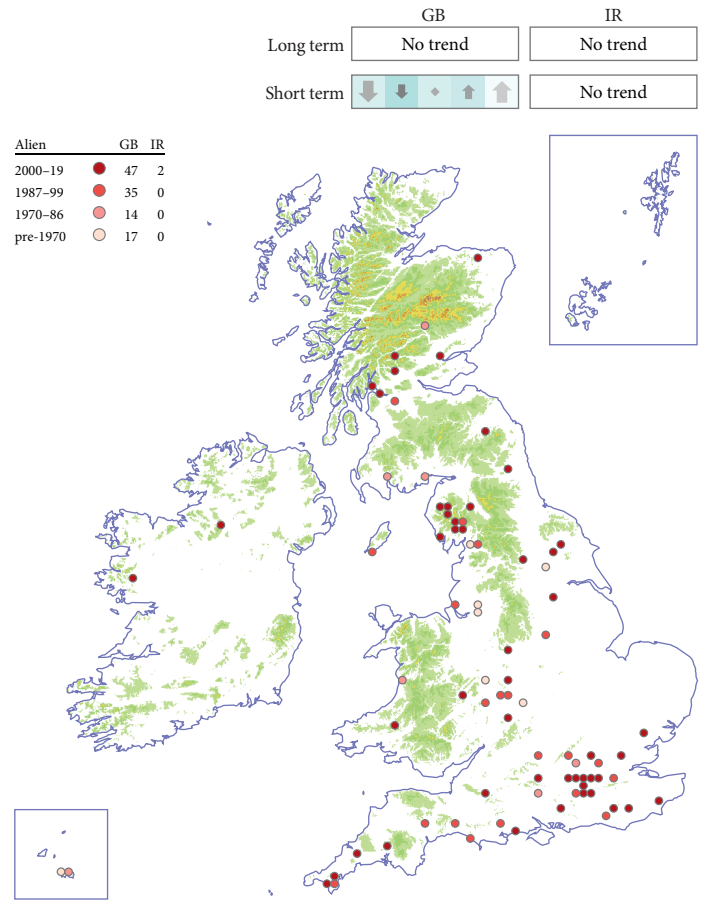
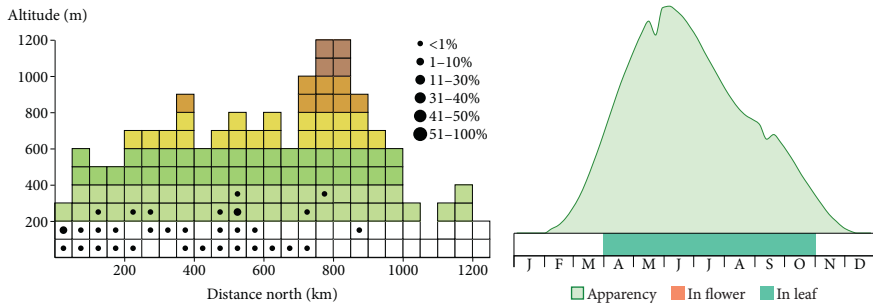
Key refs Gantt & Arnott (1965), Merryweather (2020), Prelli (2001).
T.D. DINES & M.W. RAND

Ne *Onoclea sensibilis* Sensitive Fern

L.
A deciduous rhizomatous fern, found in wet woodland, marshy meadows and on lake and river margins. It spreads by rhizomes and by spores with some colonies established at a considerable distance from gardens. The common name comes from the sensitivity of its leaves to frost. Lowland.

Biogeography Native of eastern North America and eastern Asia.

Trends This species was in cultivation by 1699 and is very popular as a garden plant. It was first recorded in the wild in 1843 (Warrington, South Lancashire), and may be spreading given the marked increase in its 10 km square distribution since 2000, although this may partly reflect the more systematic recording of aliens. Although it is sensitive to frost, drought and full sun, it can be a quite aggressive spreader via its rhizomes where conditions are favourable.



Key refs Flora of North America Editorial Committee (1993), Prelli (2001).

T.D. DINES & M.W. RAND

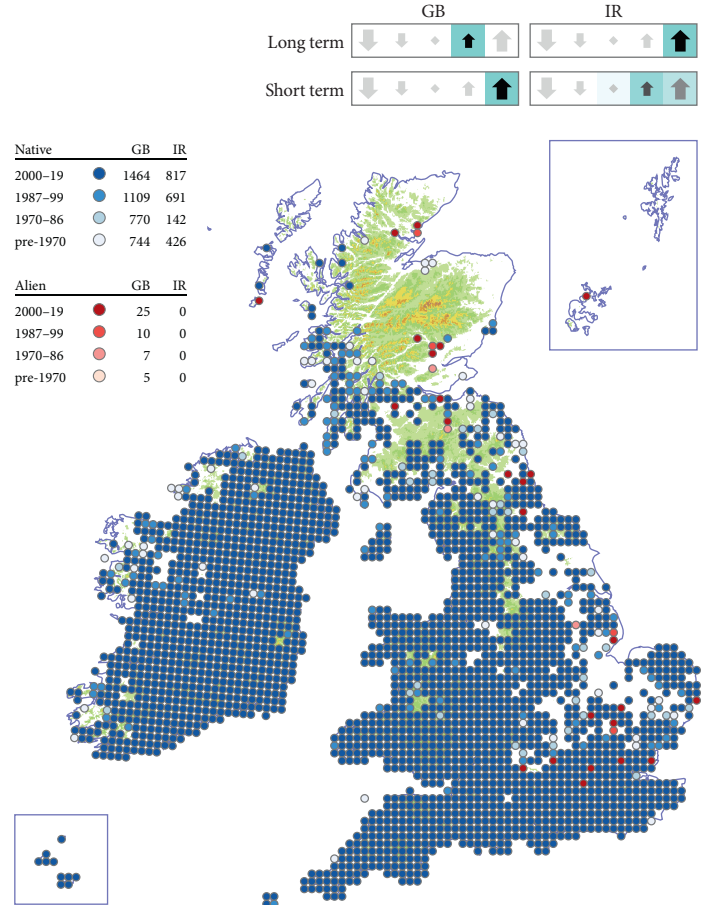
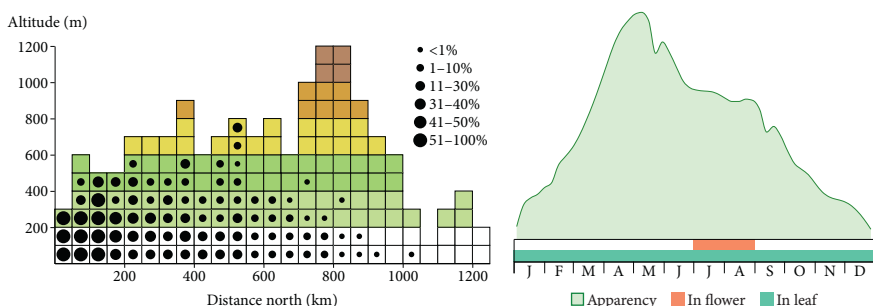
N *Polystichum setiferum* Soft Shield-fern

(Forssk.) T.Moore ex Woyn.
A semi-evergreen fern of moderately base-rich habitats, but less strictly calcicolous than *P. aculeatum* with which it often grows. It occurs in shaded deciduous woodland, hedgerows, lane banks and sheltered streambanks, and also in the peaty bottoms of grikes in limestone pavement. It grows on a wide range of soil types, from those derived from sands to clays, but prefers sloping or well-drained ground. Generally lowland, but reaching 480 m at Peraidd Fynydd (Cardiganshire) and 563 m (Trout Beck, Westmorland).

too, possibly as a result of milder winters farther north and east. As a widely cultivated plant, self-sowing from gardens probably accounts for some of the increase in records this century.

Biogeography Submediterranean-Subatlantic element.

Trends This species has undergone a dramatic expansion in range northwards and eastwards since the 1960s, which has continued this century. Although this may in part be due to increased familiarity with this often overlooked species, it must reflect a genuine increase



Key refs Bangerter *et al.* (1978), Page (1997).

(continued...)
T.D. DINES & P.A. STROH

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This index covers taxa included in both Volume 1 and Volume 2 of this publication, as well as taxa that are included in the *Online Plant Atlas* (plantatlas2020.org) only: these are indicated as “online”. Volume 1 includes taxon accounts up to page 758 (the end of Rubiaceae) and Volume 2 covers taxon accounts from page 759 (Gentianaceae onwards). The page numbers for taxa included in Volume 1 are in **bold type**; those included in Volume 2 are in regular type. Scientific names for taxa that are the subject of an account in these volumes are in **bold italics**; vernacular names are in **regular bold type**. Taxa that are “online” only are included using non-bold type:

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scientific names in *italics*; vernacular names in regular type. Stace (2019) included a number of nomenclatural changes from his earlier edition (Stace, 2010); we have included recent synonyms for all taxa that are mapped in these volumes and in the *Online Plant Atlas*. These Stace (2010) synonyms are included within the index and shown in *italicized* text, with their updated Stace (2019) name placed in brackets alongside. The page number given for each family (presented in CAPITALS) indicates the first page where a taxon account appears. Incidental mentions in a species account of other taxa are not indexed.

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Angelica, Garden	1126	<i>Arctium lappa</i>	955	— <i>cynanchica</i>	749	— <i>longipes</i> × <i>prostrata</i>	678
—, Portuguese	ONLINE	— <i>minus s.l.</i>	956	— <i>taurina</i>	ONLINE	— <i>patula</i>	680
—, Wild	1126	— <i>tomentosum</i>	ONLINE	Asphodel, Bog	1162	— <i>pedunculata</i>	682
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— <i>rigida</i>	1420	<i>Arctotheca calendula</i>	ONLINE	ASPHODELACEAE	1218	— <i>prostrata</i>	677
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—, Six-rowed	1429	<i>Berberis aggregata</i>	ONLINE	Bitter-cress, Hairy	540	—, Mountain	1332
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—, Wood	1429	— <i>darwinii</i> × <i>empetrifolia</i>	131	—, New Zealand	541	<i>Bolboschoenus laticarpus</i>	1286
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—, Yellow	928	— <i>vulgaris</i>	128	Black-eyed-Susan	1051	— <i>pygmaea</i>	ONLINE
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<i>Bassia scoparia</i>	692	<i>Bergenia cordifolia</i>	170	Black-jack	ONLINE	<i>Botrychium lunaria</i>	42
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Beadplant	ONLINE	<i>Berteroa incana</i>	548	—, Highbush	ONLINE	<i>Brachiaria platyphylla</i>	ONLINE
Beak-sedge, Brown	1300	<i>Berula erecta</i>	1097	—, Thornless	ONLINE	<i>Brachyglottis</i> × <i>jubar</i>	1042
—, White	1299	<i>Beta trigyna</i>	ONLINE	<i>Blackstonia perfoliata</i>	763	— <i>monroi</i>	ONLINE
Bean, Broad	215	— <i>vulgaris</i> subsp. <i>cicla</i>	693	Blackthorn	267	— <i>repanda</i>	ONLINE
—, French	ONLINE	— <i>vulgaris</i> subsp. <i>maritima</i>	693	Blackwood, Australian	ONLINE	<i>Brachypodium distachyon</i>	ONLINE
—, Runner	ONLINE	— <i>vulgaris</i> subsp. <i>vulgaris</i>	694	Bladder-fern, Alpine	56	— <i>hybridum</i>	ONLINE
Bear's-breech	858	<i>Betonica officinalis</i>	870	—, Brittle	55	— <i>pinnatum</i> s.l.	1349
—, Spiny	859	Betony	870	—, Diaphanous	56	— <i>sylvaticum</i>	1350
Bearberry	732	<i>Betula</i> × <i>aurata</i>	384	—, Dickie's	57	Bracken	52
—, Alpine	732	— <i>nana</i>	387	—, Mountain	57	Bramble, Arctic	318
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<i>Beckmannia syzigachne</i>	ONLINE	— <i>pendula</i>	384	Bladder-senna	198	—, Parsley-leaved	322
Bedstraw, Fen	751	— <i>pendula</i> × <i>pubescens</i>	384	—, Orange	199	—, Slender-spined	322
—, Heath	755	— <i>pubescens</i>	385	Bladdernut	500	—, Stone	318
—, Hedge	754	— <i>pubescens</i> subsp. <i>celtiberica</i>	385	Bladderseed	1093	—, White-stemmed	321
—, Lady's	753	— <i>pubescens</i> subsp. <i>tortuosa</i>	386	Bladderwort	862	Brambles	324
—, Limestone	755	— <i>utilis</i>	386	—, Greater	862	<i>Brassica carinata</i>	ONLINE
—, Northern	750	BETULACEAE	384	—, Lesser	864	— <i>elongata</i>	ONLINE
—, Slender	754	<i>Bidens cernua</i>	1055	—, New Forest	865	— <i>juncea</i>	559
—, Tree	ONLINE	— <i>connata</i>	ONLINE	—, Nordic	863	— <i>napus</i>	558
—, Wall	757	— <i>ferulifolia</i>	1057	—, Pale	864	— <i>nigra</i>	560
Beech	377	— <i>frondosa</i>	1056	Bladderworts	863	— <i>oleracea</i>	558
—, Southern	376	— <i>pilosa</i>	ONLINE	Blanketflower	1058	— <i>rapa</i>	559
Beet, Caucasian	ONLINE	— <i>tripartita</i>	1056	BLECHNACEAE	68	— <i>tournefortii</i>	ONLINE
—, Foliage	693	Bilberry	744	<i>Blechnum cordatum</i>	69	BRASSICACEAE	525
—, Root	694	—, Bog	743	— <i>penna-marina</i>	ONLINE	Bridal-spray	263
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Beggarticks	1056	—, Hairy	795	Bleeding-heart	121	—, Billard's	260
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—, Chimney	ONLINE	Birch, Downy	385	<i>Blitum bonus-henricus</i>	691	Brideworts	258
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— <i>digitata</i>	1327	— <i>edulis</i>	706	Centaury, Common	760	— <i>fragifera</i>	1452
— <i>dioica</i>	1310	— <i>glaucescens</i>	ONLINE	—, Guernsey	759	— <i>globularis</i>	1452
— <i>distans</i>	1322	Carrot	1108	—, Intermediate	761	— <i>hispida</i>	1453
— <i>disticha</i>	1307	—, Moon	1123	—, Lesser	762	— <i>muscosa</i>	1453
— <i>divisa</i>	1308	—, Sea	1108	—, Perennial	760	— <i>papillosa</i>	1454
— <i>divulsa</i> subsp. <i>divulsa</i>	1305	Carrots	1107	—, Seaside	761	— <i>socotrensis</i>	1454
— <i>divulsa</i> subsp. <i>leersii</i>	1306	<i>Carthamus tinctorius</i>	970	—, Slender	762	— <i>subspinosa</i>	1455
— <i>echinata</i>	1310	<i>Carum carvi</i>	1116	—, Yellow	759	— <i>tomentosa</i>	1455
— <i>elata</i>	1338	— <i>verticillatum</i>		<i>Centranthus ruber</i>	1078	— <i>virgata</i>	1456
— <i>elongata</i>	1311	(<i>Trocdaris verticillata</i>)	1116	<i>Centunculus minimus</i>		— <i>vulgaris</i>	1456
— <i>ericetorum</i>	1330	CARYOPHYLLACEAE	630	(<i>Lysimachia minima</i>)	725	CHARACEAE	1447
— <i>extensa</i>	1323	<i>Castanea sativa</i>	377	Centuryplant	ONLINE	Charlock	560
— <i>filiformis</i>	1329	Castor-oil-plant	ONLINE	<i>Cephalanthera damasonium</i>	1169	Chasmanthe	ONLINE
— <i>flacca</i>	1319	Cat-mint	886	— <i>longifolia</i>	1170	<i>Chasmanthe bicolor</i>	ONLINE
— <i>flava</i>	1325	—, Eastern	ONLINE	— <i>rubra</i>	1170	Checkerberry	ONLINE
— <i>hirta</i>	1313	—, Garden	886	<i>Cephalaria gigantea</i>	1080	Chelidonium majus	119
— <i>hostiana</i>	1324	Cat's-ear	972	<i>Cerastium alpinum</i>	645	<i>Chenopodium hybridum</i>	688
— <i>hostiana</i> × <i>viridula</i> s.l.	1324	—, Smooth	973	— <i>arvense</i>	644	— <i>murale</i>	688
— <i>humilis</i>	1328	—, Spotted	973	— <i>brachypetalum</i>	647	Chenopodium album agg.	685
— × <i>involuta</i>	1316	Cat's-tail, Alpine	1405	— <i>cerastoides</i>	643	— <i>bonus-henricus</i>	
— <i>lachenalii</i>	1312	—, Purple-stem	1406	— <i>diffusum</i>	648	(<i>Blitum bonus-henricus</i>)	691
— <i>laevigata</i>	1321	—, Sand	1406	— <i>fontanum</i>	646	— <i>capitatum</i> (<i>Blitum capitatum</i>)	691
— <i>lasiocarpa</i>	1313	—, Smaller	1405	— <i>fontanum</i>		— <i>chenopodioides</i>	
— <i>lepidocarpa</i>	1325	<i>Catabrosa aquatica</i>	1370	subsp. <i>scoticum</i>	646	(<i>Oxybasis chenopodioides</i>)	690
— <i>leporina</i>	1309	<i>Catananche caerulea</i>	ONLINE	— <i>glomeratum</i>	647	— <i>ficifolium</i>	683
— <i>limosa</i>	1332	<i>Catapodium marinum</i>	1369	— <i>nigrescens</i>	645	— <i>giganteum</i>	687
— <i>magellanica</i>	1333	— <i>rigidum</i>	1368	— <i>pumilum</i>	648	— <i>glaucum</i> (<i>Oxybasis glauca</i>)	689
— <i>maritima</i>	1308	Catchfly, Alpine	671	— <i>semidecandrum</i>	649	— <i>hybridum</i> (<i>Chenopodium hybridum</i>)	688
— <i>microglochin</i>	1339	—, Berry	ONLINE	— <i>tomentosum</i>	644	— <i>murale</i> (<i>Chenopodium murale</i>)	688
— <i>montana</i>	1330	—, Forked	668	<i>Ceratocarpus claviculata</i>	123	— <i>opulifolium</i>	684
— <i>muricata</i> subsp. <i>muricata</i>	1304	—, Italian	ONLINE	<i>Ceratochloa carinata</i>	1424	— <i>polyspermum</i>	
— <i>muricata</i> subsp. <i>pairae</i>	1305	—, Night-flowering	665	— <i>cathartica</i>	1424	(<i>Lipandra polysperma</i>)	687
— <i>nigra</i>	1337	—, Nodding	ONLINE	— <i>marginata</i>	ONLINE	<i>Chenopodium pratericola</i>	ONLINE
— <i>norvegica</i>	1334	—, Nottingham	662	CERATOPHYLLACEAE	112	— <i>probstii</i>	686
— <i>oederi</i> (<i>Carex viridula</i>)	1326	—, Sand	668	<i>Ceratophyllum demersum</i>	112	— <i>quinoa</i>	684
— <i>ornithopoda</i>	1328	—, Small-flowered	667	— <i>submersum</i>	113	— <i>rubrum</i> (<i>Oxybasis rubra</i>)	689
— <i>otrubae</i>	1303	—, Spanish	663	<i>Cercis siliquastrum</i>	254	— <i>strictum</i>	685
— <i>otrubae</i> × <i>remota</i>	1303	—, Sticky	670	<i>Cerinthe major</i>	773	— <i>suecicum</i>	686
— <i>pallescens</i>	1327	—, Sweet-William	665	<i>Chaenomeles japonica</i>	273	— <i>urbicum</i> (<i>Oxybasis urbana</i>)	690
— <i>panicea</i>	1320	—, Worcestershire	ONLINE	— <i>speciosa</i>	272	— <i>vulvaria</i>	683
— <i>paniculata</i>	1300	Caterpillar-plant	209	<i>Chaenorhinum minus</i>	830	<i>Cherleria sedoides</i>	637
— <i>paniculata</i> × <i>remota</i>	1301	<i>Caucalis platycarpus</i>	1107	— <i>organifolium</i>	ONLINE	Cherry, Bird	270
— <i>pauciflora</i>	1340	Cedar, Atlas	87	<i>Chaenostoma cordatum</i>	855	—, Dwarf	269
— <i>pendula</i>	1317	Cedar-of-Lebanon	87	<i>Chaerophyllum aureum</i>	ONLINE	—, Fuji	ONLINE
— <i>pilulifera</i>	1331	<i>Cedrus atlantica</i>	87	— <i>hirsutum</i>	ONLINE	—, Japanese	269
— × <i>pseudoaxillaris</i>	1303	— <i>deodara</i>	86	— <i>temulum</i>	1101	—, Pin	ONLINE
— <i>pseudocyperus</i>	1315	— <i>libani</i>	87	Chaffweed	725	—, Rum	270
— <i>pulicaris</i>	1341	Celandine, Greater	119	<i>Chamaecyparis lawsoniana</i>		—, St Lucie	ONLINE
— <i>punctata</i>	1323	—, Lesser	156	(<i>Cupressus lawsoniana</i>)	104	—, Wild	268
— <i>rariflora</i>	1332	CELASTRACEAE	394	— <i>pisifera</i> (<i>Cupressus pisifera</i>)	105	Chervil, Bur	1103
— <i>recta</i>	1335	<i>Celastrus orbiculatus</i>	ONLINE	<i>Chamaemelum nobile</i>	1022	—, Garden	1102
— <i>remota</i>	1309	Celery, Wild	1118	Chamaenerion		—, Golden	ONLINE
— <i>riparia</i>	1314	<i>Centaurea aspera</i>	ONLINE	— <i>angustifolium</i>	492	—, Hairy	ONLINE
— <i>rostrata</i>	1315	— <i>calcitrapa</i>	968	<i>Chamerion angustifolium</i>		—, Rough	1101
— <i>rostrata</i> × <i>vesicaria</i>	1316	— <i>cyanus</i>	967	(<i>Chamaenerion angustifolium</i>)	492	Chestnut, Sweet	377
— <i>rupestris</i>	1340	— <i>diluta</i>	969	Chamomile	1022	<i>Chiastophyllum</i>	
— <i>salina</i>	1335	— <i>jacea</i>	969	—, Austrian	1025	— <i>oppositifolium</i>	ONLINE
— <i>saxatilis</i>	1317	— <i>macrocephala</i>	ONLINE	—, Corn	1023	Chickweed-wintergreen	727
— <i>simpliciuscula</i>	1341	— <i>montana</i>	967	—, Sicilian	1023	Chickweed, Common	639
— <i>spicata</i>	1304	— <i>nigra</i> s.l.	970	—, Stinking	1024	—, Greater	640
— <i>strigosa</i>	1319	— <i>scabiosa</i>	966	—, Yellow	1024	—, Jagged	643
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— <i>vaginata</i>	1320	— <i>erythraea</i> × <i>littorale</i>	ONLINE	— <i>baltica</i>	1448	—, Water	642
— <i>vesicaria</i>	1316	— <i>intermedium</i>	761	— <i>baltica</i> var. <i>affinis</i>	1448	Chicory	971
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—, <i>Valdivia</i>	ONLINE	(<i>Elymus</i> × <i>laxus</i>)	1426	<i>Eranthis hyemalis</i>	136	— <i>moschata</i>	905
<i>Dysphania ambrosioides</i>	ONLINE	— <i>juncea</i>		<i>Erepisia heteropetala</i>	ONLINE	— <i>peregrina</i>	907
— <i>botrys</i>	ONLINE	(<i>Elymus junceiformis</i>)	1428	<i>Erica arborea</i>	ONLINE	— × <i>robertsii</i>	907
E		— <i>juncea</i> × <i>repens</i>		— <i>carnea</i>	ONLINE	<i>Erythronium dens-canis</i>	1166
<i>Ecballium elaterium</i>	ONLINE	(<i>Elymus</i> × <i>laxus</i>)	1426	— <i>carnea</i> × <i>erigena</i>	739	Escallonia	1060
<i>Echinochloa colona</i>	1436	— × <i>laxa</i> (<i>Elymus</i> × <i>laxus</i>)	1426	— <i>ciliaris</i>	737	<i>Escallonia macrantha</i> (<i>Escallonia</i>	
— <i>crus-galli</i>	1435	— <i>repens</i> (<i>Elymus repens</i>)	1425	— <i>cinerea</i>	738	<i>rubra</i> var. <i>macrantha</i>)	1060
— <i>esculenta</i>	1436	Empetrum nigrum	733	— × <i>darleyensis</i>	739	— <i>rubra</i> var. <i>macrantha</i>	1060
— <i>frumentacea</i>	1437	— <i>nigrum</i>		— <i>erigena</i>	739	ESCALLONIACEAE	1060
<i>Echinops bannaticus</i>	954	subsp. <i>hermaphroditum</i>	733	— <i>lusitanica</i>	ONLINE	<i>Eschscholzia californica</i>	120
— <i>exaltatus</i>	954	Enchanter's-nightshade	498	— <i>mackayana</i>	737	<i>Eucalyptus globulus</i>	ONLINE
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<i>Echium pininana</i>	773	—, Upland	498	— <i>tetralix</i>	738	— <i>johnstonii</i>	ONLINE
— <i>plantagineum</i>	772	Epilobium × aggregatum	485	— <i>vagens</i>	740	— <i>niphophila</i>	ONLINE
— <i>rosulatum</i>	ONLINE	— <i>alsinifolium</i>	490	ERICACEAE	731	— <i>pulchella</i>	ONLINE
— <i>vulgare</i>	772	— <i>anagallidifolium</i>	490	<i>Erigeron acris</i>	1010	— <i>urnigera</i>	ONLINE
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<i>Egeria densa</i>	1141	— <i>ciliatum</i>	489	— <i>borealis</i>	1009	— <i>japonicus</i>	395
<i>Ehrharta erecta</i>	ONLINE	— <i>ciliatum</i> × <i>hirsutum</i>	482	— <i>canadensis</i>	1011	— <i>latifolius</i>	395
<i>Eichhornia crassipes</i>	ONLINE	— <i>ciliatum</i> × <i>montanum</i>	486	— <i>floribundus</i>	1011	Eupatorium cannabinum	1059
ELAEAGNACEAE	366	— <i>ciliatum</i> × <i>obscurum</i>	488	— <i>glaucus</i>	1009	Euphorbia amygdaloides	462
<i>Elaeagnus commutata</i>	ONLINE	— × <i>dacicum</i>	484	— <i>karvinskianus</i>	1010	— <i>amygdaloides</i> subsp. <i>robbiae</i>	463
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<i>Elatine hexandra</i>	411	— <i>lanceolatum</i>	486	ERIOCAULACEAE	1260	— <i>cyparissias</i>	462
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Elder	1061	— <i>montanum</i>	485	<i>Eriophorum angustifolium</i>	1282	— <i>cyparissias</i> × <i>waldsteinii</i>	460
—, American	1062	— <i>montanum</i> × <i>obscurum</i>	485	— <i>gracile</i>	1283	— <i>dulcis</i>	455
—, Dwarf	1062	— <i>montanum</i> × <i>parviflorum</i>	483	— <i>latifolium</i>	1282	— <i>esula</i>	461
—, Red-berried	1061	— × <i>novae-civitatis</i>	482	— <i>vaginatum</i>	1283	— <i>esula</i> × <i>waldsteinii</i>	460
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<i>Eleocharis acicularis</i>	1292	— <i>obscurum</i> × <i>parviflorum</i>	484	— <i>crinitum</i>	ONLINE	— × <i>gayeri</i>	460
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— <i>repens</i> × <i>junceiformis</i>	1426	— <i>palustre</i>	47	<i>perofskianum</i>	525	— <i>confusa</i> × <i>micrantha</i>	920
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— × <i>drucei</i> (<i>Elymus</i> × <i>drucei</i>)	1426	— × <i>trachyodon</i>	43	— <i>cuprea</i> × <i>lutea</i>	909	— <i>heslop-harrisonii</i>	926
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<i>Lappula squarrosa</i>	— <i>draba</i>	subsp. <i>britannicum</i>	— <i>multiflorum × perenne</i>
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subsp. <i>intermedia</i>	— <i>heterophyllum</i>	subsp. <i>coombense</i>	— <i>temulentum</i>
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— × <i>marschlinsii</i>	— <i>virginicum</i>	— <i>normannicum</i>	Longleaf
Larkspur	Leptinella	— <i>paradoxum</i>	<i>Lonicera caprifolium</i>
<i>Lathraea clandestina</i>	—, Hairless	— <i>parvum</i>	— <i>caprifolium × etrusca</i>
— <i>squamaria</i>	Lettuce, Blue	— <i>platyphyllum</i>	— <i>henryi</i>
<i>Lathyrus annuus</i>	—, Garden	— <i>procerum</i> subsp. <i>cambrense</i>	— <i>involuta</i>
— <i>aphaca</i>	—, Great	— <i>procerum</i> subsp. <i>devoniense</i>	— × <i>italica</i>
— <i>grandiflorus</i>	—, Least	— <i>procerum</i> subsp. <i>procerum</i>	— <i>japonica</i>
— <i>heterophyllum</i>	—, Prickly	— <i>recurvum</i> subsp. <i>humile</i>	— <i>nitida</i>
— <i>hirsutus</i>	—, Wall	— <i>recurvum</i>	— <i>periclymenum</i>
— <i>japonicus</i>	<i>Leucanthemella serotina</i>	subsp. <i>portlandicum</i>	— <i>pileata</i>
— <i>latifolius</i>	<i>Leucanthemum lacustre</i>	— <i>recurvum</i> subsp.	— <i>tatarica</i>
— <i>linifolius</i>	× <i>maximum</i>	<i>pseudotranswallianum</i>	— <i>xylosteum</i>
— <i>niger</i>	— × <i>superbum</i>	— <i>recurvum</i> subsp. <i>recurvum</i>	Loosestrife, Dotted
— <i>nissolia</i>	— <i>vulgare</i>	— <i>transwallianum</i>	—, Fringed
— <i>odoratus</i>	<i>Leucojum aestivum</i>	— <i>vulgare</i>	—, Lake
— <i>oleraceus</i>	— <i>vernum</i>	<i>Limosella aquatica</i>	—, Tufted
— <i>palustris</i>	<i>Leucothoe fontanesiana</i>	— <i>australis</i>	—, Yellow
— <i>pratensis</i>	<i>Levisticum officinale</i>	LINACEAE	Lords-and-Ladies
— <i>sativus</i>	<i>Leycesteria formosa</i>	<i>Linaria arenaria</i>	—, Italian
— <i>sylvestris</i>	<i>Leymus arenarius</i>	— <i>dalmatica</i>	—, Lotus angustissimus
— <i>tuberosus</i>	<i>Libertia elegans</i>	— × <i>dominii</i>	— <i>corniculatus</i>
— <i>vernus</i>	— <i>formosa</i>	— <i>maroccana</i>	— <i>corniculatus</i> var. <i>sativus</i>
LAURACEAE	<i>Ligularia dentata</i>	— <i>pelissieriana</i>	— <i>maritimus</i>
Laurel, Cherry	— <i>przewalskii</i>	— <i>purpurea</i>	— <i>pedunculatus</i>
—, Portugal	<i>Ligusticum scoticum</i>	— <i>purpurea × repens</i>	— <i>subbiflorus</i>
<i>Laurus nobilis</i>	<i>Ligustrum ovalifolium</i>	— <i>repens</i>	— <i>tenuis</i>
Laurustinus	— <i>vulgare</i>	— <i>repens × vulgaris</i>	Lousewort
<i>Lavandula angustifolia</i>	Lilac	— × <i>sepium</i>	—, Marsh
Lavender, Garden	LILIACEAE	— <i>supina</i>	Lovage
Lavender-cotton	<i>Lilium candidum</i>	— <i>vulgaris</i>	—, Scots
Leek	— <i>martagon</i>	<i>Linnaea borealis</i>	Love-grass, African
—, Broad-leaved	— <i>pyrenaicum</i>	<i>Linum bienne</i>	—, Jersey
—, Round-headed	Lily, African	— <i>catharticum</i>	—, Small
—, Sand	—, Jersey	— <i>perenne</i>	Love-in-a-mist
—, Wild	—, Kaffir	— <i>radiola</i>	Love-lies-bleeding
<i>Leersia oryzoides</i>	—, Kerry	— <i>usitatissimum</i>	Lucerne
<i>Legousia hybrida</i>	—, Madonna	<i>Lipandra polysperma</i>	—, Sand
— <i>speculum-veneris</i>	—, Martagon	<i>Liparis loeselii</i>	<i>Ludwigia grandiflora</i>
<i>Lemna gibba</i>	—, May	Liquorice, Wild	— <i>palustris</i>
— <i>minor</i>	—, Peruvian	<i>Liriodendron tulipifera</i>	<i>Luma apiculata</i>
— <i>minuta</i>	—, Pyrenean	<i>Lithospermum arvense</i>	<i>Lunaria annua</i>
— <i>trisolca</i>	—, Snowdon	(<i>Buglossoides arvensis</i>)	Lungwort
— <i>turionifera</i>	—, Triplet	— <i>officinale</i>	—, Mawson's
— <i>valdiviana</i>	<i>Lily-of-the-valley</i>	— <i>purpureocaeruleum</i>	—, Narrow-leaved
<i>Lens culinaris</i>	—, False	(<i>Aegonychon</i>	—, Red
Lenten-rose	<i>Limbarda crithmoides</i>	<i>purpureocaeruleum</i>)	—, Suffolk
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Lentil	—, Large-leaved	<i>Littorella uniflora</i>	—, Garden
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— campestris	1279	Maltese-Cross	670	—, Bulbous	1413	— spicata	895
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— <i>cambrica</i>	495	—, Musk	1180	— <i>glauca</i>	689	Pasqueflower	141
— × <i>fallax</i>	494	—, Pyramidal	1197	— <i>rubra</i>	689	Passiflora caerulea	423
— <i>glazioviana</i>	494	—, Small-white	1181	— <i>rubica</i>	690	PASSIFLORACEAE	423
— <i>stricta</i>	496	ORCHIDACEAE	1169	Oxyria digyna	627	Passionflower, Blue	423
OLEACEAE	807	Orchis anthropophora	1197	Oxytropis campestris	201	Pastinaca sativa	1112
<i>Olearia avicenniifolia</i>	ONLINE	— <i>mascula</i>	1195	— <i>halleri</i>	201	<i>Paulownia tomentosa</i>	ONLINE
— <i>avicenniifolia</i> × <i>moschata</i>	1013	— <i>militaris</i>	1196	Oxytropis, Purple	201	Pea, Black	ONLINE
— × <i>haastii</i>	1013	— <i>purpurea</i>	1195	—, Yellow	201	—, Chick	225
— <i>macrodonta</i>	1014	— <i>simia</i>	1196	Oysterplant	784	—, Fodder	ONLINE
— <i>paniculata</i>	ONLINE	Oregon-grape	132			—, Garden	224
— <i>traversii</i>	1014	—, Newmarket	132	P		—, Indian	ONLINE
Oleaster, Broad-leaved	367	Oreopteris limbosperma	66	<i>Pachyphragma macrophyllum</i>	ONLINE	—, Marsh	218
—, Spiny	368	Origanum vulgare	891	<i>Pachysandra terminalis</i>	ONLINE	—, Sea	219
—, Spreading	367	Ornithogalum nutans	1245	<i>Paeonia lactiflora</i>	ONLINE	—, Spring	ONLINE
<i>Oloptum miliaceum</i>	ONLINE	— <i>pyrenaicum</i>	1244	— <i>mascula</i>	ONLINE	—, Sweet	223
Omalothea norvegica	996	— <i>umbellatum s.l.</i>	1245	Paeonia officinalis	164	—, Tuberous	222
— <i>supina</i>	997	<i>Ornithopus compressus</i>	ONLINE	PAEONIACEAE	164	Peach	265
— <i>sylvatica</i>	997	— <i>perpusillus</i>	207	Palm, Date	ONLINE	Peanut	ONLINE
— <i>verna</i>	791	— <i>pinnatus</i>	208	Pampas-grass	1444	Pear, Plymouth	273
ONAGRACEAE	482	<i>Ornithopus sativus</i>	ONLINE	—, Early	1444	Pearlwort, Alpine	651
Onehunga-weed	ONLINE	OROBANCHACEAE	909	Pancratium maritimum	1241	—, Annual	653
Onion	1221	Orobanche alba	937	Panicum capillare	1437	—, Heath	651
—, Wild	1229	— <i>caryophyllacea</i>	936	— <i>miliaceum</i>	1438	—, Knotted	650
Oniongrass	ONLINE	— <i>crenata</i>	938	— <i>schinzii</i>	ONLINE	—, Procumbent	652
Onobrychis viciifolia	202	— <i>elatior</i>	936	Pansy, Dwarf	423	—, Sea	654
Onoclea sensibilis	70	— <i>hederae</i>	938	—, Field	422	—, Slender	653
ONOCLEACEAE	69	— <i>minor</i>	939	—, Garden	422	—, Snow	650
Ononis reclinata	226	— <i>picridis</i>	939	—, Horned	419	Pearlworts, Annual & Slender	652
— <i>repens</i>	225	— <i>purpurea</i>		—, Mountain	420	Pears	274
— <i>spinosa</i>	226	(<i>Phelipanche purpurea</i>)	940	—, Seaside	421	Pedicularis palustris	933
Onopordum acanthium	964	— <i>rapum-genistae</i>	935	—, Wild	420	— <i>sylvatica</i>	933
— <i>nervosum</i>	ONLINE	— <i>reticulata</i>	937	<i>Papaver argemone</i>		— <i>sylvatica</i> subsp. <i>hibernica</i>	934
OPHIOGLOSSACEAE	40	<i>Orontium aquaticum</i>	ONLINE	(<i>Roemeria argemone</i>)	118	<i>Pelargonium tomentosum</i>	ONLINE
Ophioglossum azoricum	41	Orpine	192	— <i>atlanticum</i>	114	Pellitory-of-the-wall	374
— <i>lusitanicum</i>	41	Orthilia secunda	746	— <i>bivalve</i> subsp. <i>hybridum</i>		—, Eastern	ONLINE
— <i>vulgatum</i>	40	<i>Oryzopsis miliacea</i>	ONLINE	(<i>Roemeria hybrida</i>)	117	<i>Peltaria alliacea</i>	ONLINE
Ophrys apifera	1202	<i>Oscularia deltoides</i>	ONLINE	— <i>cambricum</i>	117	Penny-cress, Alpine	572
— <i>fuciflora</i>	1203	Osier	437	— <i>dubium</i>	116	—, Caucasian	ONLINE
— <i>insectifera</i>	1201	—, Broad-leaved	438	— <i>dubium s.l.</i>	115	—, Field	571
— <i>sphegodes</i>	1202	—, Eared	439	— <i>hybridum</i> (<i>Roemeria hispida</i>)	118	—, Garlic	ONLINE
Orache, Babington's	678	—, Fine	436	— <i>lecoqii</i>	116	—, Perfoliate	572
—, Common	680	—, Shrubby	440	— <i>pseudoorientale</i>		Pennyroyal	900
—, Early	679	—, Silky-leaved	440	(<i>Papaver setiferum</i>)	113	—, Floating	1087
—, Frosted	681	Osmunda regalis	48	— <i>rhoeas</i>	115	—, Hairy	ONLINE
—, Garden	677	OSMUNDACEAE	48	— <i>setiferum</i>	113	—, Marsh	1086
—, Grass-leaved	680	Osoberry	ONLINE	— <i>sonniferum</i>	114	Pentaglottis sempervirens	782
—, Kattegat	678	Osteospermum	1048	PAPAVERACEAE	113	Peony	ONLINE
—, Long-stalked	679	Osteospermum jucundum	1048	<i>Parapholis incurva</i>	1370	—, Chinese	ONLINE
—, Purple	ONLINE	OXALIDACEAE	396	— <i>strigosa</i>	1369	—, Garden	164

Pepper, Sweet	ONLINE	<i>Phedimus stellatus</i>	ONLINE	<i>Pilosella praealta</i>		<i>Plantago media</i>	840
Peppermint	897	— <i>stoloniferus</i>	191	subsp. <i>thaumasia</i>	ONLINE	Plantain, Branched	841
Peppermint-gum, White	ONLINE	<i>Phegopteris connectilis</i>	65	<i>Pilularia globulifera</i>	51	—, Buck's-horn	838
Pepper-saxifrage	1110	<i>Phelipanche purpurea</i>	940	Pimpernel, Blue	727	—, Glandular	ONLINE
Pepperwort, Argentine	ONLINE	<i>Philadelphus coronarius</i>	711	—, Bog	725	—, Greater	839
—, Field	542	— Lemoinei Group	ONLINE	—, Scarlet	726	—, Hoary	840
—, Least	543	— Virginalis Group	712	—, Yellow	726	—, Ribwort	840
—, Narrow-leaved	543	<i>Phleum alpinum</i>	1405	<i>Pimpinella major</i>	1109	—, Sea	838
—, Perfoliate	544	— <i>arenarium</i>	1406	— <i>saxifraga</i>	1109	PLATANACEAE	162
—, Smith's	542	— <i>bertolonii</i>	1405	PINACEAE	86	<i>Platanthera bifolia</i>	1181
—, Tall	ONLINE	— <i>phleoides</i>	1406	Pine, Bhutan	91	— <i>chlorantha</i>	1180
<i>Pericallis hybrida</i>	ONLINE	— <i>pratense</i>	1404	—, Black	88	<i>Platanus × hispanica</i>	162
Periwinkle, Greater	769	— <i>pratense s.l.</i>	1404	—, Lodgepole	89	— <i>occidentalis × orientalis</i>	162
—, Intermediate	769	<i>Phlomis fruticosa</i>	880	—, Macedonian	ONLINE	— <i>orientalis</i>	162
—, Lesser	768	— <i>russeliana</i>	ONLINE	—, Maritime	90	<i>Platycladus orientalis</i>	ONLINE
<i>Persicaria alpina</i>	ONLINE	Phlox	718	—, Monterey	90	<i>Plecostachys serpyllifolia</i>	ONLINE
— <i>amphibia</i>	599	<i>Phlox paniculata</i>	718	—, Scots	88	<i>Pleioblastus chino</i>	ONLINE
— <i>amplexicaulis</i>		<i>Phoenix dactylifera</i>	ONLINE	—, Weymouth	91	— <i>pygmaeus</i>	ONLINE
(<i>Bistorta amplexicaulis</i>)	604	<i>Phormium cookianum</i>	ONLINE	Pineappleweed	1028	— <i>simonii</i>	ONLINE
— <i>bistorta</i> (<i>Bistorta officinalis</i>)	604	— <i>tenax</i>	1220	<i>Pinguicula alpina</i>	860	Ploughman's-spikenard	1000
— <i>campanulata</i>		<i>Photinia davidiana</i>	299	— <i>grandiflora</i>	861	Plum, Cherry	266
(<i>Koenigia campanulata</i>)	602	<i>Phragmites australis</i>	1443	— <i>lusitanica</i>	859	—, Wild	268
— <i>capitata</i>	602	PHYRMACEAE	905	— <i>vulgaris</i>	860	PLUMBAGINACEAE	583
— <i>hydropiper</i>	600	<i>Phuopsis stylosa</i>	749	Pink	675	Plume-poppy, Hybrid	120
— <i>lapathifolia</i>	600	<i>Phygelius capensis</i>	854	—, Cheddar	674	<i>Poa alpina</i>	1414
— <i>maculosa</i>	599	<i>Phyllodoce caerulea</i>	735	—, Childing	673	— <i>angustifolia</i>	1410
— <i>minor</i>	601	<i>Phymatosorus diversifolius</i>	ONLINE	—, Clove	674	— <i>annua</i>	1407
— <i>mitis</i>	601	<i>Physalis alkekengi</i>		—, Deptford	676	— <i>bulbosa</i>	1413
— <i>mollis</i>	ONLINE	(<i>Alkekengi officinarum</i>)	801	—, Jersey	ONLINE	— <i>chaixii</i>	1410
— <i>nepalensis</i>	ONLINE	— <i>ixocarpa</i>	ONLINE	—, Maiden	675	— <i>compressa</i>	1411
— <i>pennsylvanica</i>	ONLINE	— <i>peruviana</i>	800	—, Proliferous	673	— <i>flabellata</i>	ONLINE
— <i>sagittata</i>	ONLINE	— <i>philadelphica</i>	ONLINE	Pink-sorrel	398	— <i>flexuosa</i>	1411
— <i>vivipara</i> (<i>Bistorta vivipara</i>)	605	<i>Physocarpus opulifolius</i>	257	—, Annual	ONLINE	— <i>glauca</i>	1412
— <i>wallichii</i>		<i>Physospermum cornubiense</i>	1093	—, Four-leaved	ONLINE	— <i>humilis</i>	1409
(<i>Koenigia polystachya</i>)	603	<i>Phyteuma orbiculare</i>	949	—, Garden	400	— <i>infrma</i>	1407
— <i>weyrichii</i>	ONLINE	— <i>scheuchzeri</i>	ONLINE	—, Large-flowered	399	— <i>nemoralis</i>	1413
<i>Persicaria, Nepal</i>	ONLINE	— <i>spicatum</i>	949	—, Pale	401	— <i>palustris</i>	1412
—, Pale	600	<i>Phytolacca acinosa</i>	707	—, Ten-leaved	ONLINE	— <i>pratensis</i>	1409
—, Pink-headed	602	— <i>polyandra</i>	ONLINE	Pinkweed	ONLINE	— <i>pratensis s.l.</i>	1408
<i>Petasites albus</i>	1046	PHYTOLACCACEAE	707	<i>Pinus contorta</i>	89	— <i>trivialis</i>	1408
— <i>fragrans</i>		<i>Picea abies</i>	93	— <i>mugo</i>	89	POACEAE	1342
(<i>Petasites pyrenaicus</i>)	1046	— <i>engelmannii</i>	ONLINE	— <i>nigra</i>	88	Pokeweed, Chinese	ONLINE
— <i>hybridus</i>	1045	— <i>glauca</i>	93	— <i>peuce</i>	ONLINE	—, Indian	707
— <i>japonicus</i>	1045	— <i>omorika</i>	92	— <i>pinaster</i>	90	POLEMONIACEAE	718
— <i>pyrenaicus</i>	1046	— <i>pungens</i>	ONLINE	— <i>ponderosa</i>	ONLINE	<i>Polemonium caeruleum</i>	718
<i>Petrorhagia nanteuilii</i>	673	— <i>sitchensis</i>	92	— <i>radiata</i>	90	<i>Polycarpon tetraphyllum</i>	658
— <i>prolifera</i>	673	Pick-a-back-plant	182	— <i>strobilus</i>	91	<i>Polygala amarella</i>	256
— <i>saxifraga</i>	ONLINE	Pickeralweed	1256	— <i>sylvestris</i>	88	— <i>calcareo</i>	256
<i>Petrosedum forsterianum</i>	193	<i>Picris hieracioides</i>	975	— <i>wallichiana</i>	91	— <i>serpyllifolia</i>	255
— <i>rupestre</i>	192	Pigmyweed	184	Pipewort	1260	— <i>vulgaris</i>	255
— <i>sediforme</i>	ONLINE	—, Jersey	ONLINE	Pirri-pirri-bur	340	POLYGALACEAE	255
<i>Petroselinum crispum</i>	1119	—, New Zealand	184	—, Bronze	341	POLYGONACEAE	599
— <i>segetum</i> (<i>Sison segetum</i>)	1115	—, Scilly	ONLINE	—, Glaucous	ONLINE	<i>Polygonatum × hybridum</i>	1242
Petunia	807	Pignut	1104	<i>Pistia stratiotes</i>	ONLINE	— <i>multiflorum</i>	1242
<i>Petunia axillaris</i> ×		—, Great	1114	<i>Pisum sativum</i>		— <i>multiflorum × odoratum</i>	1242
<i>integrifolia</i>	807	Pigweed, Guernsey	704	(<i>Lathyrus oleraceus</i>)	224	— <i>odoratum</i>	1243
— × <i>hybrida</i>	807	—, Perennial	ONLINE	Pitcherplant	731	— <i>verticillatum</i>	1243
<i>Peucedanum officinale</i>	1124	—, Prostrate	705	PITTOSPORACEAE	1083	<i>Polygonum arenarium</i>	ONLINE
Phacelia	770	—, Short-tepalled	ONLINE	<i>Pittosporum crassifolium</i>	1083	— <i>arenastrum</i>	607
<i>Phacelia tanacetifolia</i>	770	—, White	705	— <i>tenuifolium</i>	1083	— <i>aviculare</i>	608
<i>Phalaris aquatica</i>	1380	Pillwort	51	<i>Plagiobothrys scouleri</i>	ONLINE	— <i>aviculare</i> agg.	607
— <i>arundinacea</i>	1380	<i>Pilosella aurantiaca</i>	992	Plane, London	162	— <i>bellardii</i>	ONLINE
— <i>brachystachys</i>	ONLINE	— <i>caespitosa</i>	991	—, Oriental	162	— <i>boreale</i>	608
— <i>canariensis</i>	1381	— <i>caespitosa × lactucella</i>	991	PLANTAGINACEAE	838	— <i>cognatum</i>	ONLINE
— <i>minor</i>	1381	— <i>flagellaris</i> subsp. <i>bicapitata</i>	990	<i>Plantago afra</i>	ONLINE	— <i>maritimum</i>	606
— <i>paradoxa</i>	1382	— <i>flagellaris</i> subsp. <i>flagellaris</i>	989	— <i>arenaria</i>	841	— <i>oxyspermum</i>	606
<i>Phaseolus coccineus</i>	ONLINE	— × <i>floribunda</i>	991	— <i>coronopus</i>	838	— <i>patulum</i>	ONLINE
<i>Phaseolus vulgaris</i>	ONLINE	— <i>officinarum</i>	989	— <i>lanceolata</i>	840	— <i>rurivagum</i>	609
Pheasant's-eye	159	— <i>peleteriana</i>	988	— <i>major</i>	839	POLYPODIACEAE	82
Pheasant's-tail	1345	— <i>praealta</i>	990	— <i>major</i> subsp. <i>intermedia</i>	839	Polypodies	82
<i>Phedimus kamtschaticus</i>	190	— <i>praealta</i> subsp. <i>praealta</i>	ONLINE	— <i>maritima</i>	838	<i>Polypodium cambricum</i>	85
— <i>spurius</i>	190						

<i>Polypodium cambricum</i>	<i>Populus balsamifera</i>	429	<i>Potentilla</i> × <i>suberecta</i>	330	<i>Pulmonaria longifolia</i>	775
× <i>interjectum</i>	— <i>balsamifera</i> × <i>deltoides</i>	428	— <i>tabernaemontani</i>		— ‘Mawson’s Blue’	ONLINE
— <i>cambricum</i> × <i>vulgare</i>	— <i>balsamifera</i> × <i>trichocarpa</i>	429	(<i>Potentilla verna</i>)	329	— <i>obscura</i>	774
— × <i>font-queri</i>	— × <i>berolinensis</i>	427	— <i>verna</i>	329	— <i>officinalis</i>	774
— <i>interjectum</i>	— × <i>canadensis</i>	426	<i>Poterium sanguisorba</i>		— <i>rubra</i>	775
— <i>interjectum</i> × <i>vulgare</i>	— × <i>canescens</i>	424	subsp. <i>balearicum</i>	340	<i>Pulsatilla vulgaris</i>	141
— × <i>mantoniae</i>	— <i>deltoides</i> × <i>nigra</i>	426	— <i>sanguisorba</i>		Pumpkin	ONLINE
— × <i>shivasiae</i>	— <i>deltoides</i> × <i>trichocarpa</i>	427	subsp. <i>sanguisorba</i>	339	<i>Purple-loosestrife</i>	480
— <i>vulgare</i>	— × <i>generosa</i>	427	<i>Pratia angulata</i>	952	<i>Purslane, Common</i>	711
— <i>vulgare s.l.</i>	— × <i>hastata</i>	429	<i>Prickly-sedge, Large-fruited</i>	1304	—, <i>Pink</i>	708
<i>Polypody</i>	— × <i>jackii</i>	428	—, <i>Small-fruited</i>	1305	<i>Pyracantha coccinea</i>	310
—, <i>Intermediate</i>	— <i>nigra</i>	425	Pride-of-India	ONLINE	— <i>rogersiana</i>	311
—, <i>Southern</i>	— <i>nigra</i> ‘ <i>Italica</i> ’ × <i>laurifolia</i>	427	<i>Primrose</i>	719	Pyrenean-violet	ONLINE
<i>Polypogon monspeliensis</i>	— <i>nigra</i> subsp. <i>betulifolia</i>	426	—, <i>Bird’s-eye</i>	721	<i>Pyrola media</i>	745
— <i>viridis</i>	— <i>tremula</i>	425	—, <i>Scottish</i>	721	— <i>minor</i>	744
<i>Polystichum aculeatum</i>	— <i>trichocarpa</i>	428	<i>Primrose-peerless</i>	1237	— <i>rotundifolia</i> subsp. <i>maritima</i>	746
— × <i>bicknellii</i>	<i>Portulaca oleracea</i>	711	<i>Primula auricula</i>	ONLINE	— <i>rotundifolia</i>	
— <i>lonchitis</i>	PORTULACACEAE	711	— <i>elatior</i>	720	subsp. <i>rotundifolia</i>	745
— <i>munitum</i>	<i>Potamogeton acutifolius</i>	1157	— <i>farinosa</i>	721	<i>Pyrus communis s.l.</i>	274
— <i>setiferum</i>	— <i>alpinus</i>	1152	— <i>florindae</i>	ONLINE	— <i>cordata</i>	273
— <i>setiferum</i> × <i>aculeatum</i>	— × <i>angustifolius</i>	1150	— <i>japonica</i>	ONLINE		
<i>Pond-sedge, Greater</i>	— <i>berchtoldii</i>	1156	— × <i>polyantha</i>	719	Q	
—, <i>Lesser</i>	— <i>coloratus</i>	1148	— <i>pulverulenta</i>	ONLINE	<i>Quaking-grass</i>	1388
<i>Pondweed, American</i>	— <i>compressus</i>	1157	— <i>scotica</i>	721	—, <i>Greater</i>	1389
—, <i>Blunt-leaved</i>	— <i>crispus</i>	1158	— <i>sikkimensis</i>	ONLINE	—, <i>Lesser</i>	1389
—, <i>Bog</i>	— <i>epihydus</i>	1153	— <i>veris</i>	720	<i>Quercus canariensis</i>	ONLINE
—, <i>Bright-leaved</i>	— <i>filiformis</i>		— <i>veris</i> × <i>vulgaris</i>	719	— <i>cerris</i>	378
—, <i>Broad-leaved</i>	(<i>Stuckenia filiformis</i>)	1158	— <i>vulgaris</i>	719	— <i>cerris</i> × <i>suber</i>	378
—, <i>Curled</i>	— <i>friesii</i>	1154	PRIMULACEAE	719	— <i>coccinea</i>	381
—, <i>Fen</i>	— <i>gramineus</i>	1151	Prince’s-feather	ONLINE	— × <i>crenata</i>	378
—, <i>Fennel</i>	— <i>gramineus</i> × <i>lucens</i>	1150	<i>Privet, Garden</i>	811	— <i>ilex</i>	379
—, <i>Flat-stalked</i>	— <i>gramineus</i> × <i>perfoliatus</i>	1151	—, <i>Wild</i>	811	— <i>petraea</i>	379
—, <i>Grass-wrack</i>	— <i>lucens</i>	1149	<i>Prunella grandiflora</i>	ONLINE	— <i>petraea</i> × <i>robur</i>	380
—, <i>Hairlike</i>	— <i>lucens</i> × <i>perfoliatus</i>	1150	— <i>laciniata</i>	888	— <i>robur</i>	380
—, <i>Horned</i>	— <i>natans</i>	1147	— <i>vulgaris</i>	887	— × <i>rosacea</i>	380
—, <i>Lesser</i>	— × <i>nitens</i>	1151	<i>Prunus avium</i>	268	— <i>rubra</i>	381
—, <i>Loddon</i>	— <i>nodosus</i>	1149	— <i>cerasifera</i>	266	<i>Quillwort</i>	39
—, <i>Long-leaved</i>	— <i>obtusifolius</i>	1155	— <i>cerasus</i>	269	—, <i>Land</i>	40
—, <i>Long-stalked</i>	— <i>pectinatus</i>		— <i>domestica</i>	268	—, <i>Spring</i>	39
—, <i>Opposite-leaved</i>	(<i>Stuckenia pectinata</i>)	1159	— <i>domestica</i> × <i>spinosa</i>	267	<i>Quince</i>	272
—, <i>Perfoliate</i>	— <i>perfoliatus</i>	1153	— <i>dulcis</i>	266	—, <i>Chinese</i>	272
—, <i>Red</i>	— <i>polygonifolius</i>	1148	— × <i>fruticans</i>	267	—, <i>Japanese</i>	273
—, <i>Sharp-leaved</i>	— <i>praelongus</i>	1152	— <i>incisa</i>	ONLINE	<i>Quinoa</i>	684
—, <i>Shetland</i>	— <i>pusillus</i>	1155	— <i>laurocerasus</i>	271		
—, <i>Shining</i>	— <i>rutilus</i>	1154	— <i>lusitanica</i>	271	R	
—, <i>Slender-leaved</i>	— × <i>salicifolius</i>	1150	— <i>mahaleb</i>	ONLINE	<i>Radiola linoides (Linum radiola)</i>	467
—, <i>Small</i>	— <i>trichoides</i>	1156	— <i>padus</i>	270	<i>Radish, Garden</i>	567
—, <i>Variou-leaved</i>	POTAMOGETONACEAE	1147	— <i>pennsylvanica</i>	ONLINE	—, <i>Mediterranean</i>	ONLINE
—, <i>Willow-leaved</i>	<i>Potato</i>	804	— <i>persica</i>	265	—, <i>Sea</i>	567
<i>Pontederia cordata</i>	—, <i>Purple</i>	ONLINE	— <i>serotina</i>	270	—, <i>Wild</i>	566
PONTERIACEAE	<i>Potentilla anglica</i>	331	— <i>serrulata</i>	269	<i>Ragged-Robin</i>	669
<i>Poplar, Berlin</i>	— <i>anglica</i> × <i>erecta</i>	330	— <i>spinosa</i>	267	<i>Ragweed</i>	1049
—, <i>Generous</i>	— <i>anserina</i>	324	<i>Pseudofumaria alba</i>	123	—, <i>Giant</i>	1049
—, <i>Grey</i>	— <i>argentea</i>	326	— <i>lutea</i>	122	—, <i>Perennial</i>	ONLINE
—, <i>Lombardy</i>	— <i>crantzii</i>	328	<i>Pseudognaphalium</i>		<i>Ragwort, Broad-leaved</i>	1031
—, <i>White</i>	— <i>cryeri</i>	328	<i>undulatum</i>	ONLINE	—, <i>Chamois</i>	ONLINE
—, <i>Atlas</i>	— <i>erecta</i>	329	<i>Pseudorchis albida</i>	1181	—, <i>Chinese</i>	ONLINE
—, <i>Californian</i>	— <i>erecta</i> subsp. <i>strictissima</i>	330	<i>Pseudosasa japonica</i>	1342	—, <i>Common</i>	1037
—, <i>Common</i>	— <i>fruticosa</i>		<i>Pseudotsuga menziesii</i>	94	—, <i>Fen</i>	1039
—, <i>Long-headed</i>	(<i>Dasiphora fruticosa</i>)	333	<i>Pseudoturritis turrita</i>	ONLINE	—, <i>Golden</i>	ONLINE
—, <i>Mexican</i>	— <i>inclinata</i>	ONLINE	PTERIDACEAE	52	—, <i>Hedge</i>	ONLINE
—, <i>Opium</i>	— <i>indica</i>	325	<i>Pteridium aquilinum</i>	52	—, <i>Hoary</i>	1039
—, <i>Oriental</i>	— <i>intermedia</i>	327	<i>Pteris cretica</i>	54	—, <i>Magellan</i>	1032
—, <i>Prickly</i>	— × <i>mixta s.l.</i>	331	<i>Pterocarya fraxinifolia</i>	383	—, <i>Marsh</i>	1038
—, <i>Rough</i>	— <i>montana</i>	ONLINE	<i>Puccinellia distans</i>	1371	—, <i>Monro’s</i>	ONLINE
—, <i>Welsh</i>	— <i>norvegica</i>	327	— <i>distans</i> subsp. <i>borealis</i>	1372	—, <i>Narrow-leaved</i>	1031
—, <i>Yellow-juiced</i>	— <i>recta</i>	326	— <i>fasciculata</i>	1372	—, <i>Oxford</i>	1032
<i>Populus alba</i>	— <i>reptans</i>	332	— <i>maritima</i>	1371	—, <i>Shrub</i>	1042
— <i>alba</i> × <i>tremula</i>	— <i>rivalis</i>	ONLINE	— <i>rupestris</i>	1373	—, <i>Silver</i>	1036
— ‘ <i>Balsam Spire</i> ’	— <i>rupestris</i>	325	<i>Pulicaria dysenterica</i>	1001	—, <i>Woad-leaved</i>	ONLINE
(<i>Populus</i> × <i>hastata</i>)	— <i>sterilis</i>	332	— <i>vulgaris</i>	1002	—, <i>Wood</i>	ONLINE

Ragwort, York	1034	Redwood, Dawn	99	Rocket, French	ONLINE	<i>Rosa tomentosa</i>	363
<i>Ramonda myconi</i>	ONLINE	Reed, Common	1443	—, Garden	561	— <i>virginiana</i>	355
Ramping-fumitory, Common	125	Reedmace, Hybrid	1259	—, Hairy	562	— <i>vosagiaca</i>	362
—, Martin's	ONLINE	Reineckea	ONLINE	—, Perennial	ONLINE	ROSACEAE	257
—, Purple	126	<i>Reineckea carnea</i>	ONLINE	—, Sea	564	Rose, Burnet	353
—, Tall	125	<i>Reseda alba</i>	524	—, Tall	569	—, Dutch	ONLINE
—, Western	124	— <i>lutea</i>	524	—, White	557	—, Japanese	354
—, White	124	— <i>luteola</i>	523	<i>Rodgersia podophylla</i>	ONLINE	—, Many-flowered	351
Rampion, Oxford	ONLINE	— <i>odorata</i>	ONLINE	<i>Rodgersia, Japanese</i>	ONLINE	—, Memorial	ONLINE
—, Round-headed	949	— <i>phyteuma</i>	ONLINE	<i>Roemeria argemone</i>	118	—, Prairie	ONLINE
—, Spiked	949	RESEDACEAE	523	— <i>hispidata</i>	118	—, Red	ONLINE
Ramsons	1225	Restharrow, Common	225	— <i>hybrida</i>	117	—, Red-leaved	355
Rannoch-rush	1144	—, Small	226	<i>Romulea columnae</i>	1210	—, Virginian	355
RANUNCULACEAE	133	—, Spiny	226	— <i>rosea</i>	ONLINE	Rosemary	901
<i>Ranunculus aconitifolius</i>	ONLINE	<i>Reynoutria</i> × <i>bohemica</i>	612	<i>Rorippa amphibia</i>	534	Rose-of-heaven	ONLINE
— <i>acris</i>	143	— <i>japonica</i>	611	— <i>amphibia</i> × <i>sylvestris</i>	533	Rose-of-Sharon	401
— <i>aquatilis</i>	153	— <i>japonica</i> × <i>sachalinensis</i>	612	— × <i>anceps</i>	533	Roseroot	186
— <i>arvensis</i>	145	— <i>sachalinensis</i>	612	— <i>austriaca</i>	534	<i>Rosmarinus officinalis</i>	901
— <i>auricomus</i>	146	RHAMNACEAE	368	— <i>islandica</i>	532	<i>Rostraria cristata</i>	ONLINE
— <i>baudotii</i>	152	<i>Rhamnus alaternus</i>	ONLINE	— <i>palustris</i>	532	Rowan	276
— <i>bulbosus</i>	144	— <i>cathartica</i>	368	— <i>sylvestris</i>	533	—, Chinese	ONLINE
— <i>circinatus</i>	156	— <i>repens</i>	ONLINE	<i>Rosa agrestis</i>	366	—, False	277
— <i>flammula</i>	148	<i>Rheum</i> × <i>rhabarbarum</i>	613	— × <i>andegavensis</i>	356	<i>Rubia peregrina</i>	758
— <i>flammula</i> subsp. <i>minimus</i>	148	— <i>palmatum</i>	ONLINE	— <i>arvensis</i>	351	RUBIACEAE	748
— <i>flammula</i> subsp. <i>scoticus</i>	149	<i>Rhinanthus angustifolius</i>	929	— <i>arvensis</i> × <i>canina</i>	352	<i>Rubus allegheniensis</i>	ONLINE
— <i>fluitans</i>	155	— <i>minor</i>	929	— <i>arvensis</i> × <i>stylosa</i>	352	— <i>arcticus</i>	318
— <i>hederaceus</i>	150	— <i>minor</i> subsp. <i>borealis</i>	932	— <i>caesia</i>	361	— <i>armeniacus</i>	323
— <i>lingua</i>	147	— <i>minor</i> subsp. <i>calcareus</i>	931	— <i>caesia</i> s.l. × <i>canina</i>	357	— <i>caesius</i>	323
— <i>marginatus</i>	ONLINE	— <i>minor</i> subsp. <i>lintonii</i>	932	— <i>caesia</i> s.l. × <i>sherardii</i>	361	— <i>canadensis</i>	ONLINE
— <i>muricatus</i>	ONLINE	— <i>minor</i> subsp. <i>minor</i>	930	— <i>caesia</i> subsp. <i>caesia</i>		— <i>chamaemorus</i>	317
— <i>omiophyllus</i>	151	— <i>minor</i> subsp. <i>monticola</i>	931	(<i>Rosa caesia</i>)	361	— <i>cockburnianus</i>	321
— <i>ophioglossifolius</i>	150	— <i>minor</i> subsp. <i>stenophyllus</i>	930	— <i>caesia</i> subsp. <i>vosagiaca</i>	362	— <i>elegantispinosus</i>	322
— <i>paludosus</i>	146	<i>Rhodiola rosea</i>	186	(<i>Rosa vosagiaca</i>)	362	— × <i>fraseri</i>	319
— <i>parviflorus</i>	145	<i>Rhododendron</i>	734	— <i>canina</i> × <i>micrantha</i>	360	— <i>fruticosus</i> agg.	324
— <i>peltatus</i>	153	<i>Rhododendron</i>		— <i>canina</i> × <i>mollis</i>	359	— <i>idaeus</i>	319
— <i>penicillatus</i>	154	— <i>groenlandicum</i>	ONLINE	— <i>canina</i> × <i>rubiginosa</i>	360	— <i>laciniatus</i>	322
— <i>penicillatus</i>		— <i>luteum</i>	734	— <i>canina</i> × <i>sherardii</i>	359	— × <i>loganobaccus</i>	321
subsp. <i>penicillatus</i>	154	— <i>ponticum</i>	734	— <i>canina</i> × <i>stylosa</i>	356	— <i>odoratus</i>	ONLINE
— <i>penicillatus</i>		Rhodostachys	ONLINE	— <i>canina</i> × <i>tomentella</i>	358	— <i>odoratus</i> × <i>parviflorus</i>	319
subsp. <i>pseudofluitans</i>	155	—, Tresco	ONLINE	— <i>canina</i> × <i>tomentosa</i>	358	— <i>parviflorus</i>	ONLINE
— <i>repens</i>	143	<i>Rhubarb, Ornamental</i>	ONLINE	— <i>canina</i> × <i>stylosa</i>	356	— <i>phoenicolasius</i>	320
— <i>reptans</i>	149	<i>Rhus copallina</i>	ONLINE	— <i>canina</i> × <i>tomentosa</i>	358	— <i>saxatilis</i>	318
— <i>sardous</i>	144	— <i>coriaria</i>	ONLINE	— <i>canina</i> agg.	357	— <i>spectabilis</i>	320
— <i>sceleratus</i>	147	— <i>typhina</i>	501	— × <i>dumetorum</i>	358	— <i>tricolor</i>	317
— <i>trichophyllus</i>	152	<i>Rhynchospora alba</i>	1299	— <i>ferruginea</i> (<i>Rosa glauca</i>)	355	<i>Rudbeckia hirta</i>	1051
— <i>tripartitus</i>	151	— <i>fusca</i>	1300	— <i>gallica</i>	ONLINE	— <i>laciniata</i>	1051
Rape	558	<i>Ribes alpinum</i>	167	— <i>glauca</i>	355	Rue	507
—, Ethiopian	ONLINE	— <i>divaricatum</i>	ONLINE	— 'Hollandica'	ONLINE	<i>Rumex</i> × <i>abortivus</i>	623
—, Long-stalked	ONLINE	— <i>nigrum</i>	166	— × <i>involuta</i>	353	— <i>acetosa</i>	614
<i>Raphanus raphanistrum</i>		— <i>odoratum</i>	167	— × <i>irregularis</i>	352	— <i>acetosa</i> subsp. <i>ambiguus</i>	ONLINE
subsp. <i>landra</i>	ONLINE	— <i>rubrum</i>	165	— <i>luciae</i>	ONLINE	— <i>acetosa</i> subsp. <i>biformis</i>	615
— <i>raphanistrum</i>		— <i>sanguineum</i>	166	— <i>micrantha</i>	365	— <i>acetosa</i> subsp. <i>hibernicus</i>	615
subsp. <i>maritimus</i>	567	— <i>spicatum</i>	165	— × <i>molletorum</i>	359	— <i>acetosa</i> subsp. <i>acetosella</i>	613
— <i>raphanistrum</i>		— <i>uva-crispa</i>	168	— <i>mollis</i>	364	— <i>alpinus</i>	616
subsp. <i>maritimus</i> ×		Rice-grass, Manchurian	ONLINE	— <i>mollis</i> × <i>sherardii</i>	364	— <i>aquaticus</i>	616
subsp. <i>raphanistrum</i>	566	<i>Ricinus communis</i>	ONLINE	— <i>mollis</i> × <i>spinosissima</i>	354	— <i>confertus</i>	ONLINE
— <i>raphanistrum</i>		Robin's-plantain	ONLINE	— <i>multiflora</i>	351	— <i>conglomeratus</i>	623
subsp. <i>raphanistrum</i>	566	<i>Robinia pseudoacacia</i>	197	— × <i>nitidula</i>	360	— <i>conglomeratus</i> × <i>crispus</i>	621
— <i>sativus</i>	567	Roble	375	— <i>obtusifolia</i> (<i>Rosa tomentella</i>)	362	— <i>conglomeratus</i> × <i>obtusifolius</i>	623
<i>Rapistrum rugosum</i>	565	Rock-cress, Alpine	550	— × <i>perthensis</i>	364	— <i>crispus</i>	620
Raspberry	319	—, Bristol	551	— × <i>pseudorusticana</i>	352	— <i>crispus</i> × <i>longifolius</i>	617
—, Purple-flowered	ONLINE	—, Hairy	551	— × <i>rothschildii</i>	359	— <i>crispus</i> × <i>obtusifolius</i>	622
Raspwort, Creeping	ONLINE	—, Northern	526	— <i>rubiginosa</i>	365	— <i>crispus</i> × <i>sanguineus</i>	622
Rauli	376	—, Prostrate	ONLINE	— <i>rugosa</i>	354	— <i>crispus</i> × <i>obtusifolius</i>	622
Red-cedar, Japanese	100	—, Sand	ONLINE	— × <i>sabinii</i>	354	— <i>crispus</i> subsp. <i>littoreus</i>	620
—, Western	102	Rock-rose, Common	520	— × <i>scabriuscula</i>	358	— <i>crispus</i> subsp. <i>uliginosus</i>	621
Red-hot-poker	1219	—, Hoary	521	— <i>setigera</i>	ONLINE	— <i>cristatus</i>	619
—, Greater	1220	—, Spotted	520	— <i>sherardii</i>	363	— <i>cuneifolius</i>	ONLINE
Red-knotgrass	ONLINE	—, White	521	— <i>sherardii</i> × <i>spinosissima</i>	353	— <i>dentatus</i>	ONLINE
—, Lesser	ONLINE	Rock-spleenwort	58	— <i>spinosissima</i>	353	— × <i>dufftii</i>	624
Redshank	599	Rocket, Eastern	569	— <i>stylosa</i>	356	— <i>frutescens</i>	ONLINE
Redwood, Coastal	99			— × <i>toddiae</i>	360	— × <i>hybridus</i>	618
				— <i>tomentella</i>	362		

<i>Rumex hydrolapathum</i>	618	<i>Sabulina verna</i>	635	<i>Salix lanata</i>	449	Sandwort, Sea	634
— <i>longifolius</i>	617	Safflower	970	— <i>lapponum</i>	449	—, Slender	631
— <i>longifolius</i> × <i>obtusifolius</i>	618	Saffron, Meadow	1164	— × <i>laurina</i>	445	—, Spring	635
— <i>maritimus</i>	627	Sage	903	— × <i>meyeriana</i>	430	—, Teesdale	636
— <i>obovatus</i>	ONLINE	—, Jerusalem	880	— × <i>mollissima</i>	434	—, Three-nerved	634
— <i>obtusifolius</i>	626	—, Turkish	ONLINE	— × <i>multinervis</i>	444	—, Thyme-leaved	631
— <i>obtusifolius</i> × <i>sanguineus</i>	624	—, Wood	882	— <i>myrsinifolia</i>	447	Sandworts, Thyme-leaved	
— <i>palustris</i>	626	<i>Sagina apetala</i>	653	— <i>myrsinifolia</i> × <i>phylicifolia</i>	447	& Slender	630
— <i>patientia</i>	619	— <i>apetala</i> s.l.	652	— <i>myrsinites</i>	450	<i>Sanguisorba canadensis</i>	ONLINE
— × <i>pratensis</i>	622	— <i>filicaulis</i>	653	— × <i>pendulina</i>	432	— <i>officinalis</i>	339
— × <i>propinquus</i>	617	— <i>maritima</i>	654	— <i>pentandra</i>	430	Sanicle	1088
— <i>pulcher</i>	625	— <i>nivalis</i>	650	— <i>phylicifolia</i>	448	<i>Sanicula europaea</i>	1088
— <i>rupestris</i>	625	— <i>nodosa</i>	650	— × <i>puberula</i>	445	SANTALACEAE	581
— × <i>sagorskii</i>	622	— <i>procumbens</i>	652	— <i>purpurea</i>	435	<i>Santolina chamaecyparissus</i>	1020
— <i>sanguineus</i>	624	— <i>saginoides</i>	651	— <i>purpurea</i> × <i>viminalis</i>	435	SAPINDACEAE	502
— × <i>schulzei</i>	621	— <i>subulata</i>	651	— <i>repens</i>	448	<i>Saponaria ocymoides</i>	672
— <i>scutatus</i>	614	<i>Sagittaria latifolia</i>	1136	— × <i>reichardtii</i>	442	— <i>officinalis</i>	671
<i>Ruppia cirrhosa</i>		— <i>rigida</i>	ONLINE	— <i>reticulata</i>	451	<i>Sarcocornia perennis</i>	694
(<i>Ruppia spiralis</i>)	1161	— <i>sagittifolia</i>	1135	— × <i>rubra</i>	435	<i>Sarracenia purpurea</i>	731
— <i>maritima</i>	1161	— <i>subulata</i>	ONLINE	— × <i>sepulcralis</i>	433	SARRACENIACEAE	731
— <i>spiralis</i>	1161	Sainfoin	202	— × <i>smithiana</i>	438	<i>Sasa palmata</i>	1343
RUPIACEAE	1161	SALICACEAE	424	— × <i>stipularis</i>	439	— <i>veitchii</i>	ONLINE
Rupturewort, Fringed	657	<i>Salicornia</i> agg.	695	— × <i>strepida</i> (<i>Salix</i> × <i>puberula</i>)	445	<i>Sasaella ramosa</i>	1342
—, Hairy	ONLINE	— <i>disarticulata</i>	695	— × <i>tetrapla</i>	447	<i>Satureja montana</i>	ONLINE
—, Smooth	657	— <i>disarticulata</i> × <i>ramosissima</i>	696	— <i>triandra</i>	434	<i>Saussurea alpina</i>	956
<i>Ruschia caroli</i>	ONLINE	— <i>dolichostachya</i>	699	— <i>triandra</i> × <i>viminalis</i>	434	Savory, Winter	ONLINE
<i>Ruscus aculeatus</i>	1254	— <i>emerici</i>	698	— <i>udensis</i>	ONLINE	Saw-wort	966
— <i>hypoglossum</i>	ONLINE	— <i>europaea</i>	697	— <i>viminalis</i>	437	—, Alpine	956
Rush, Alpine	1262	— <i>fragilis</i>	698	— <i>viminalis</i> × <i>caprea</i>	438	<i>Saxifraga aizoides</i>	175
—, Baltic	1273	— × <i>marshallii</i>	696	— <i>viminalis</i> × <i>cinerea</i>	440	— <i>cernua</i>	176
—, Blunt-flowered	1262	— <i>obscura</i>	697	Sally-my-handsome	ONLINE	— <i>cespitosa</i>	179
—, Broad-leaved	1261	— <i>pusilla</i>		Salmonberry	320	— <i>cuneifolia</i>	ONLINE
—, Bulbous	1264	(<i>Salicornia disarticulata</i>)	695	<i>Salpichroa origanifolia</i>	ONLINE	— <i>cymbalaria</i>	171
—, Chestnut	1266	— <i>ramosissima</i>	696	Salsify	978	— × <i>geum</i>	173
—, Compact	1276	<i>Salix acutifolia</i>	437	—, Slender	ONLINE	— <i>granulata</i>	177
—, Dudley's	ONLINE	— <i>alba</i>	433	<i>Salsola kali</i>	700	— <i>hirculus</i>	171
—, Dwarf	1261	— <i>alba</i> × <i>babylonica</i>	433	— <i>kali</i> subsp. <i>kali</i> (<i>Salsola kali</i>)	700	— <i>hirsuta</i>	174
—, Frog	1272	— <i>alba</i> × <i>euxina</i> × <i>pentandra</i>	430	— <i>kali</i> subsp. <i>tragus</i>		— <i>hirsuta</i> × <i>spathularis</i>	174
—, Hard	1274	— <i>alba</i> × <i>pentandra</i>	431	(<i>Salsola tragus</i>)	701	— <i>hirsuta</i> × <i>umbrosa</i>	173
—, Heath	1268	— × <i>ambigua</i>	446	— <i>tragus</i>	701	— <i>hypnoides</i>	177
—, Jointed	1263	— <i>arbuscula</i>	450	Saltmarsh-grass, Borrer's	1372	— <i>nivalis</i> (<i>Micranthes nivalis</i>)	180
—, Lax-flowered	ONLINE	— <i>aurita</i>	446	—, Common	1371	— <i>oppositifolia</i>	175
—, Leafy	1271	— <i>aurita</i> × <i>caprea</i>	442	—, Northern	1372	— <i>paniculata</i>	ONLINE
—, Pigmy	1265	— <i>aurita</i> × <i>caprea</i> × <i>viminalis</i>	439	—, Reflexed	1371	— × <i>polita</i>	174
—, Round-fruited	1269	— <i>aurita</i> × <i>cinerea</i>	444	—, Stiff	1373	— <i>rivularis</i>	176
—, Saltmarsh	1269	— <i>aurita</i> × <i>repens</i>	446	Saltwort, Prickly	700	— <i>rosacea</i> subsp. <i>hartii</i>	178
—, Sea	1267	— <i>aurita</i> × <i>viminalis</i>	440	—, Spineless	701	— <i>rosacea</i> subsp. <i>rosacea</i>	178
—, Sharp	1267	— <i>babylonica</i> × <i>alba</i> × <i>euxina</i>	432	<i>Salvia glutinosa</i>	ONLINE	— <i>rotundifolia</i>	ONLINE
—, Sharp-flowered	1264	— × <i>calodendron</i>	439	— <i>officinalis</i>	903	— <i>spathularis</i>	173
—, Slender	1268	— <i>caprea</i>	441	— <i>pratensis</i>	902	— <i>spathularis</i> × <i>umbrosa</i>	172
—, Somerset	1272	— <i>caprea</i> × <i>cinerea</i>	442	— <i>reflexa</i>	903	— <i>stellaris</i> (<i>Micranthes stellaris</i>)	180
—, Sword-leaved	ONLINE	— <i>caprea</i> × <i>cinerea</i> × <i>viminalis</i>	439	— <i>sclarea</i>	ONLINE	— <i>stolonifera</i>	ONLINE
—, Thread	1273	— <i>caprea</i> subsp. <i>sphacelata</i>	441	— <i>verbenaca</i>	902	— <i>tridactylites</i>	179
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—, Irish	59	— <i>arvensis</i>	869	—, Dark	1459	Sweet-grass, Floating	1346
—, Lanceolate	60	— <i>byzantina</i>	866	—, Delicate	1456	—, Hybrid	1347
—, Lobed Maidenhair	62	— <i>germanica</i>	867	—, Dwarf	1462	—, Plicate	1348
—, Maidenhair	61	— <i>palustris</i>	869	—, Few-branched	1461	—, Reed	1346
—, Sea	60	— <i>palustris</i> × <i>sylvatica</i>	868	—, Foxtail	1457	—, Small	1347
Spotted-laurel	748	— <i>recta</i>	ONLINE	—, Fragile	1452	Sweet-William	676
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—, Heath	1187	Staff-vine	ONLINE	—, Hedgehog	1447	—, Lesser	546
Spring-sedge	1329	<i>Staphylea pinnata</i>	500	—, Least	1458	Sword-fern, Western	ONLINE
—, Rare	1330	STAPHYLEACEAE	500	—, Lesser Bearded	1451	Sycamore	505
Springbeauty	707	Star-of-Bethlehem	1245	—, Lizard	1448	<i>Symphoricarpos albus</i>	1066
Spruce, Colorado	ONLINE	—, Drooping	1245	—, Many-branched	1460	— × <i>chenaultii</i>	1066
—, Engelmann	ONLINE	—, Early	1165	—, Many-fruited	1462	— <i>orbicullatus</i> ×	
—, Norway	93	—, Spiked	1244	—, Mossy	1453	<i>orbicullatus</i>	1066
—, Serbian	92	—, Yellow	1164	—, Opposite	1450	— <i>orbicullatus</i>	1067
—, Sitka	92	Star-thistle, Lesser	969	—, Pointed	1461	<i>Symphotrichum</i>	1004
—, White	93	—, Red	968	—, Rough	1447	— <i>laeve</i>	ONLINE
Spurge, Balkan	455	—, Rough	ONLINE	—, Rugged	1455	— <i>laeve</i> × <i>novi-belgii</i>	1005
—, Broad-leaved	456	—, Yellow	968	—, Slender	1460	— <i>lanceolatum</i>	1007
—, Canary	454	Starflower, Spring	1230	—, Slimy-fruited	1457	— <i>novae-angliae</i>	1005
—, Caper	457	Starfruit	1139	—, Smooth	1459	— <i>novi-belgii</i>	1006
—, Coral	ONLINE	Steeple-bush	261	—, Starry	1463	— <i>novi-belgii</i> ×	
—, Cypress	462	<i>Stellaria alsine</i>	642	—, Strawberry	1452	<i>lanceolatum</i>	1006
—, Dwarf	458	— <i>aquatica</i>	642	—, Tassel	1464	— <i>pilosum</i>	ONLINE
—, Gáyer's	460	— <i>graminea</i>	641	—, Translucent	1463	— <i>pumiceum</i>	ONLINE
—, Irish	454	— <i>holostea</i>	640	Stork's-bill, Common	479	— × <i>salignum</i>	1006
—, Leafy	461	— <i>media</i>	639	—, Eastern	ONLINE	— × <i>versicolor</i>	1005
—, Mediterranean	463	— <i>neglecta</i>	640	—, Garden	ONLINE	<i>Symphytum asperum</i>	777
—, Petty	458	— <i>nemorum</i>	638	—, Musk	478	— <i>asperum</i> × <i>officinale</i>	776
—, Portland	459	— <i>nemorum</i> subsp. <i>montana</i>	638	—, Sea	478	— <i>bulbosum</i>	ONLINE
—, Purple	453	— <i>pallida</i>	639	—, Sticky	479	— <i>caucasicum</i>	779
—, Sea	459	— <i>palustris</i>	641	Stranvaesia	299	— <i>grandiflorum</i>	778
—, Spotted	453	<i>Stenogrammitis myosuroides</i>	85	<i>Stranvaesia davidiana</i>		— <i>officinale</i>	776
—, Sun	457	<i>Sternbergia lutea</i>	ONLINE	(<i>Photinia davidiana</i>)	299	— <i>orientale</i>	778
—, Sweet	455	Stink-grass	ONLINE	Strapwort	656	— <i>tauricum</i>	ONLINE
—, Twiggy	460	Stitchwort, Bog	642	<i>Stratiotes aloides</i>	1140	— <i>tuberosum</i>	777
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—, Portuguese	ONLINE	—, Caucasian	190	<i>Suaeda maritima</i>	700	— <i>gallica</i>	583
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—, Cabbage	ONLINE	—, Red	ONLINE	— <i>occidentale</i>	233	<i>Typha angustifolia</i>	1260
—, Carlina	955	—, Sweet	806	— <i>ochroleucon</i>	240	— <i>angustifolia</i> × <i>latifolia</i>	1259
—, Cotton	964	—, Wild	ONLINE	— <i>ornithopodioides</i>	232	— × <i>glauca</i>	1259
—, Creeping	964	<i>Tofieldia pusilla</i>	1135	— <i>pannonicum</i>	ONLINE	— <i>latifolia</i>	1259
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—, Meadow	960	<i>Tolypella glomerata</i>	1464	— <i>resupinatum</i>	236	<i>Ugni molinae</i>	ONLINE
—, Mediterranean	ONLINE	— <i>intricata</i>	1464	— <i>scabrum</i>	242	<i>Ulex</i> × <i>breoganii</i>	253
—, Melancholy	962	— <i>nidifica</i>	1465	— <i>squamosum</i>	243	— <i>europaeus</i>	252
—, Milk	965	— <i>prolifera</i>	1465	— <i>stellatum</i>	ONLINE	— <i>europaeus</i> × <i>gallii</i>	253
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—, Slender	957	Tongue-orchid	1201	— <i>suffocatum</i>	235	<i>Ulmus glabra</i>	369
—, Spear	960	—, Lesser	1200	— <i>tomentosum</i>	ONLINE	— <i>glabra</i> × <i>minor</i> agg.	370
—, Tuberous	961	Toothpick-plant	1121	<i>Triglochin maritima</i>	1146	— <i>laevis</i>	ONLINE
—, Weltd	957	Toothwort	934	— <i>palustris</i>	1145	— <i>minor</i> agg.	370
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—, Tall	598	<i>Tradescantia fluminensis</i>	ONLINE	<i>Triteleia laxa</i>	ONLINE	— <i>ochroleuca</i>	864
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