

Atlas 2020 – some early findings by Andy Amphlett



Crassula tillaea (Mossy Stonecrop) – Fort George (E. of) (NH768566) vc96. Masses on old track. A native species (assumed alien in Scotland) with an expanding distribution.

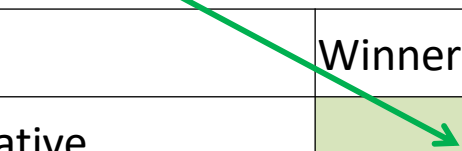
Atlas 2020 – some early findings – Scotland

Top 45 winners cf losers pre cf post 2000

	Winners	Losers
Native	2	35
Archaeophyte	0	8
Neophyte	43	2

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Crassula tillaea (Mossy Stonecrop)
Carex pendula (Pendulous Sedge)



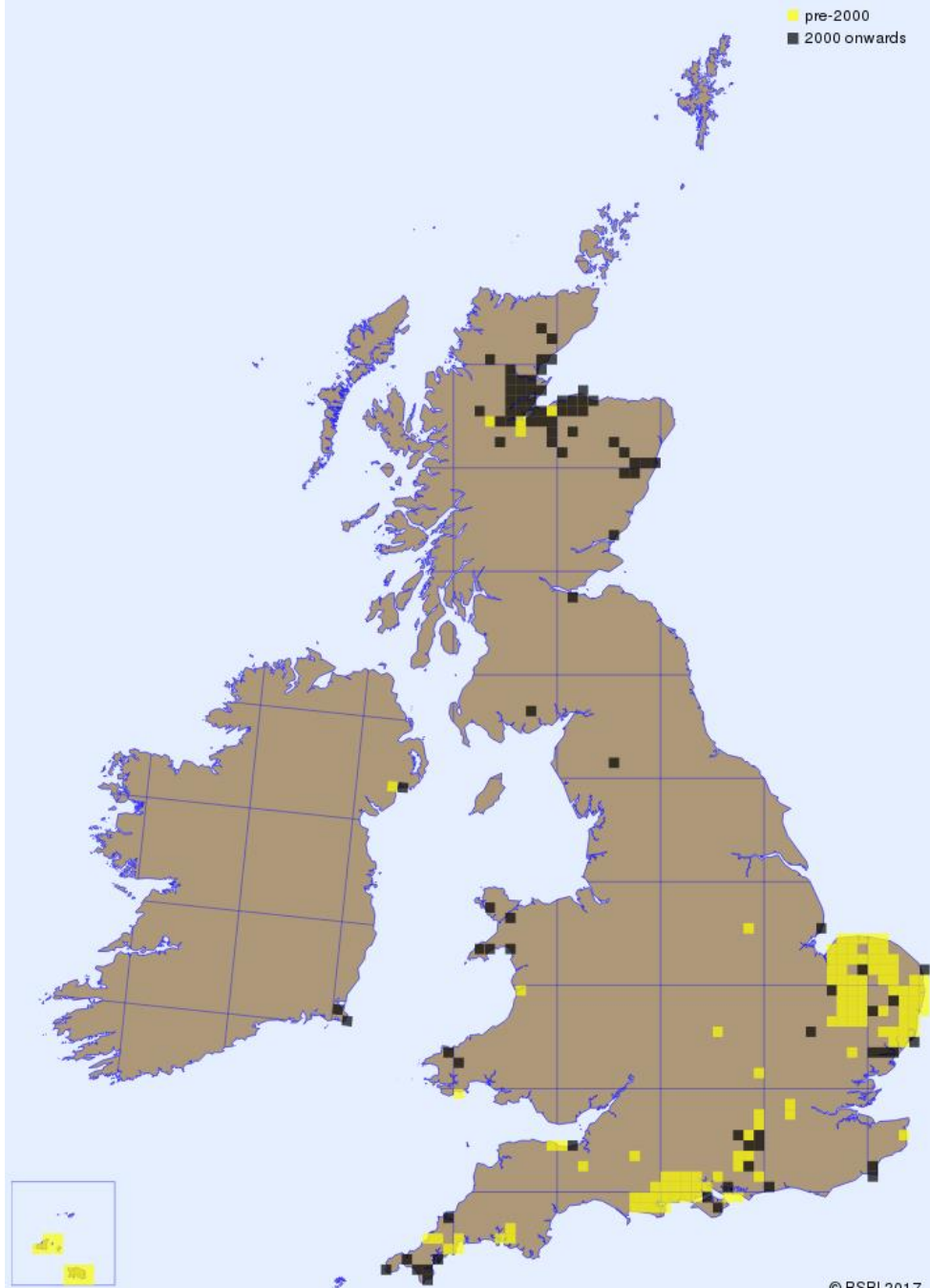
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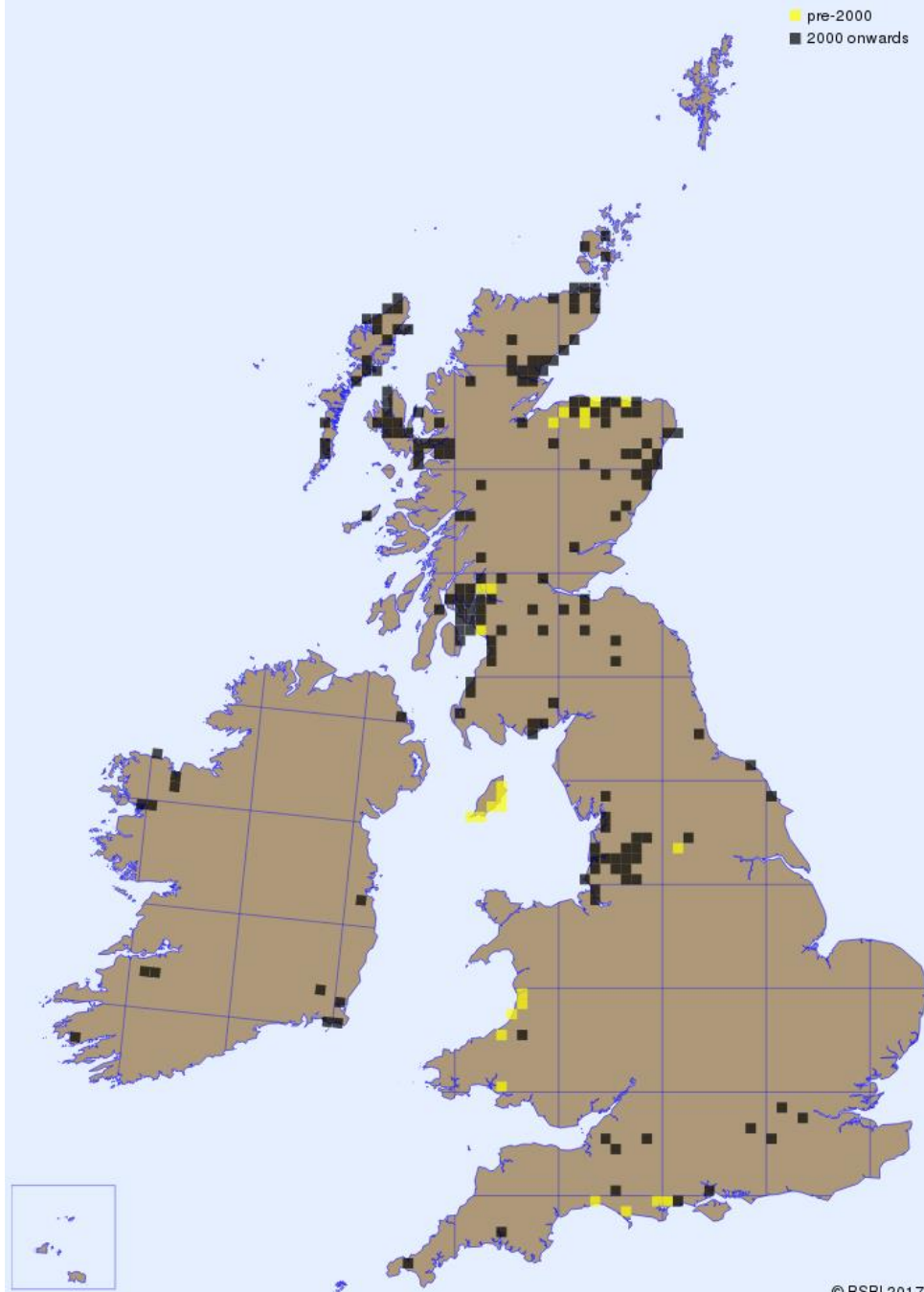
The top 45 winners

<i>Abies grandis</i>	<i>Juncus tenuis</i>
<i>Abies procera</i>	<i>Lamium galeobdolon</i>
<i>Acer platanoides</i>	<i>Larix decidua</i> x <i>kaempferi</i> = <i>L. x marschlinsii</i>
<i>Alchemilla mollis</i>	<i>Ligustrum ovalifolium</i>
<i>Berberis darwinii</i>	<i>Lonicera nitida</i>
<i>Berberis thunbergii</i>	<i>Lysichiton americanus</i>
<i>Buddleja davidii</i>	<i>Lysimachia punctata</i>
<i>Carex pendula</i>	<i>Muscari armeniacum</i>
<i>Centaurea montana</i>	<i>Paeonia officinalis</i>
<i>Chamaecyparis lawsoniana</i>	<i>Phacelia tanacetifolia</i>
<i>Cortaderia richardii</i>	<i>Picea sitchensis</i>
<i>Crassula tillaea</i>	<i>Pinus contorta</i>
<i>Crocodymia aurea</i> x <i>pottsii</i> = <i>C. x crocosmiiflora</i>	<i>Polygonatum multiflorum</i> x <i>odoratum</i> = <i>P. x hybridum</i>
<i>Crocodymia paniculata</i>	<i>Pseudotsuga menziesii</i>
<i>Epilobium ciliatum</i>	<i>Rhododendron luteum</i>
<i>Escallonia rubra</i>	<i>Rosa rugosa</i>
<i>Fuchsia magellanica</i>	<i>Salix euxina</i>
<i>Geranium endressii</i> x <i>versicolor</i> = <i>G. x oxonianum</i>	<i>Sedum spectabile</i>
<i>Geranium macrorrhizum</i>	<i>Tellima grandiflora</i>
<i>Gunnera tinctoria</i>	<i>Tsuga heterophylla</i>
<i>Hyacinthoides hispanica</i>	<i>Tulipa gesneriana</i>
<i>Hyacinthoides non-scripta</i> x <i>hispanica</i> = <i>H. x massartiana</i>	<i>Viola altaica</i> x <i>lutea</i> x <i>tricolor</i> = <i>V. x wittrockiana</i>
<i>Hypericum androsaemum</i>	

Earliest on top

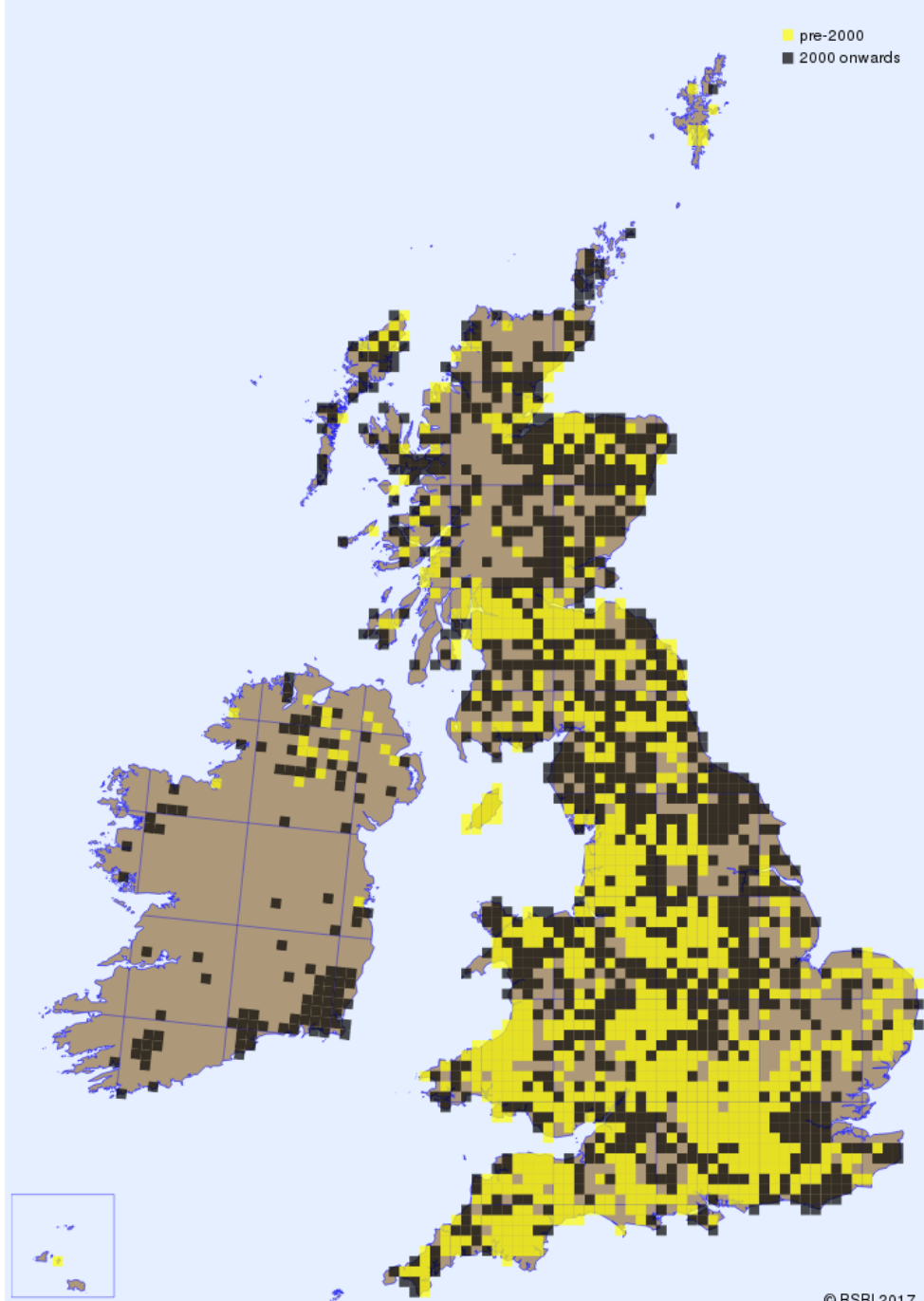


Earliest on top



Cortaderia richardii (Early Pampas-grass)

Earliest on top




Alchemilla mollis (Garden Lady's-mantle)

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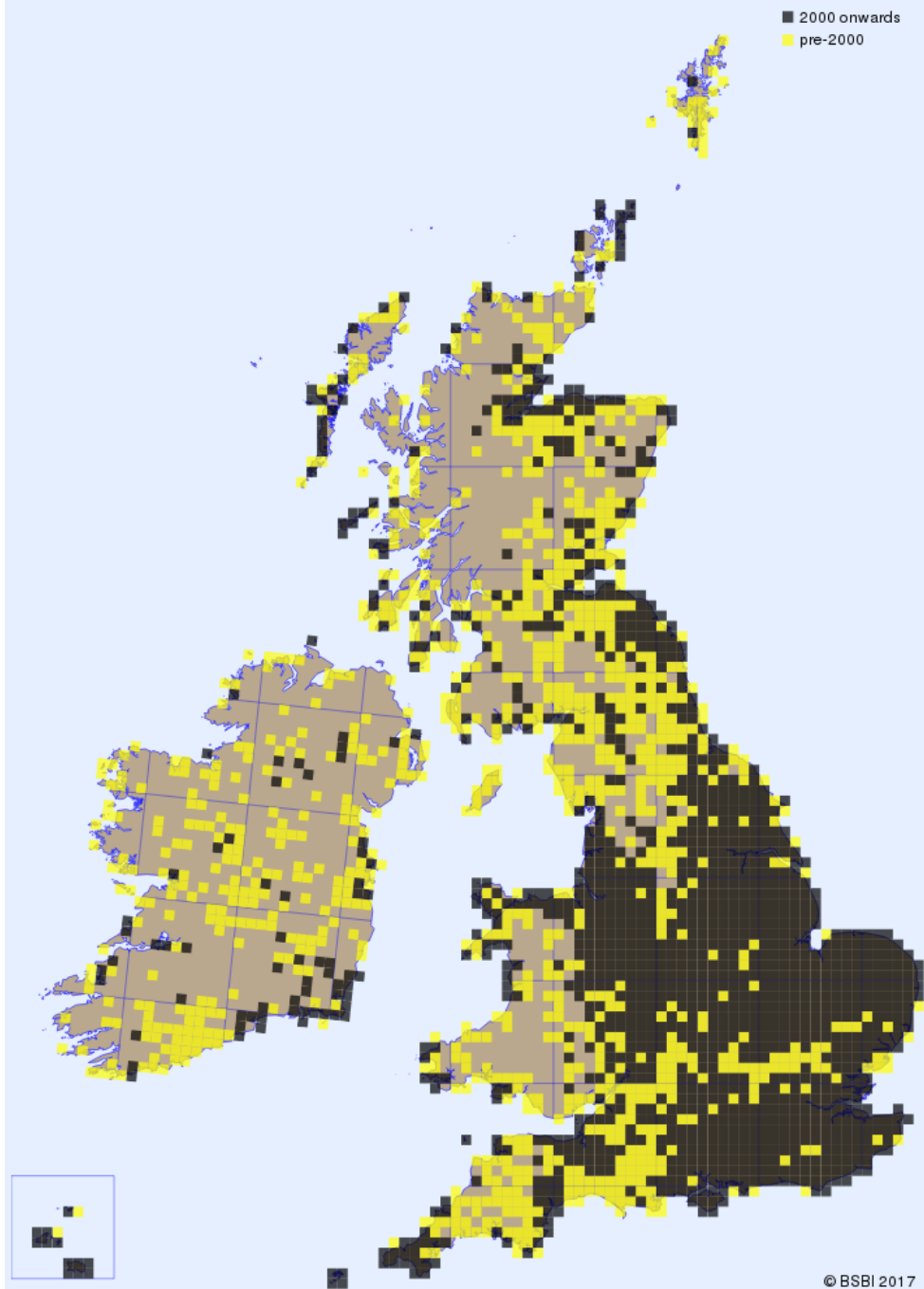
Lolium multiflorum (Italian Rye-grass)
Trifolium hybridum (Alsike Clover)

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The top 45 losers

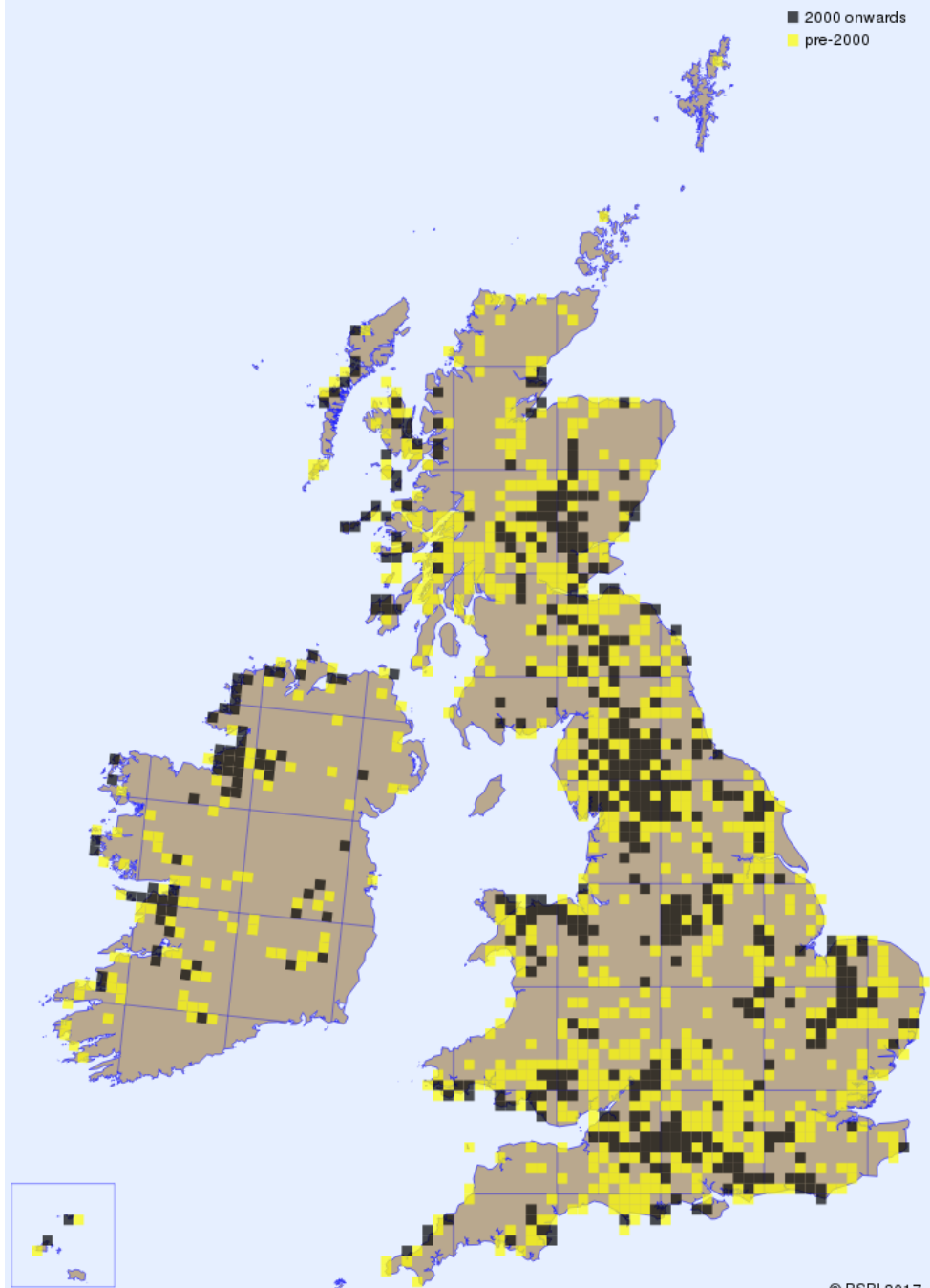
<i>Arabis hirsuta</i>	<i>Lolium multiflorum</i>
<i>Arctium nemorosum</i>	<i>Mentha arvensis</i>
<i>Arenaria serpyllifolia</i>	<i>Phleum bertolonii</i>
<i>Botrychium lunaria</i>	<i>Potamogeton alpinus</i>
<i>Callitriche brutia</i>	<i>Potamogeton berchtoldii</i>
<i>Callitriche hermaphrodita</i>	<i>Potamogeton gramineus</i>
<i>Coeloglossum viride</i>	<i>Potamogeton perfoliatus</i>
<i>Euphrasia arctica</i>	<i>Pseudorchis albida</i>
<i>Euphrasia confusa</i>	<i>Raphanus raphanistrum</i>
<i>Euphrasia micrantha</i>	<i>Sagina filicaulis</i>
<i>Euphrasia nemorosa</i>	<i>Schedonorus pratensis</i>
<i>Euphrasia scottica</i>	<i>Sinapis arvensis</i>
<i>Fallopia convolvulus</i>	<i>Sorbus aria</i>
<i>Festuca filiformis</i>	<i>Sparganium emersum</i>
<i>Galeopsis speciosa</i>	<i>Sparganium natans</i>
<i>Glebionis segetum</i>	<i>Subularia aquatica</i>
<i>Gnaphalium sylvaticum</i>	<i>Trifolium hybridum</i>
<i>Hieracium vulgatum</i>	<i>Urtica urens</i>
<i>Hypericum humifusum</i>	<i>Veronica agrestis</i>
<i>Isoetes lacustris</i>	<i>Viola canina</i>
<i>Lamium amplexicaule</i>	<i>Viola tricolor</i>
<i>Lamium confertum</i>	<i>Vulpia bromoides</i>
<i>Ligustrum vulgare</i>	

Recent on top



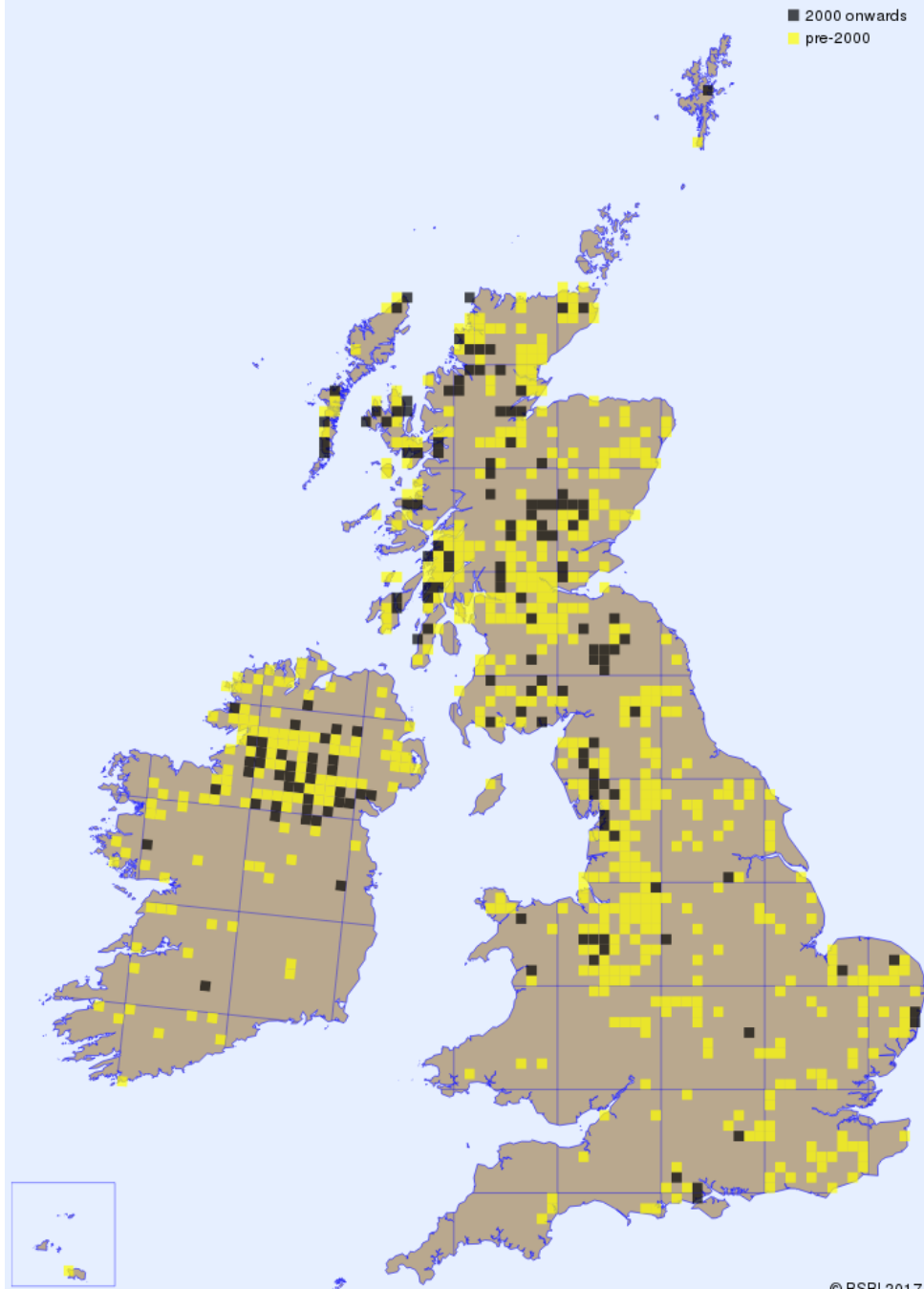
Urtica urens (Small Nettle)

Recent on top



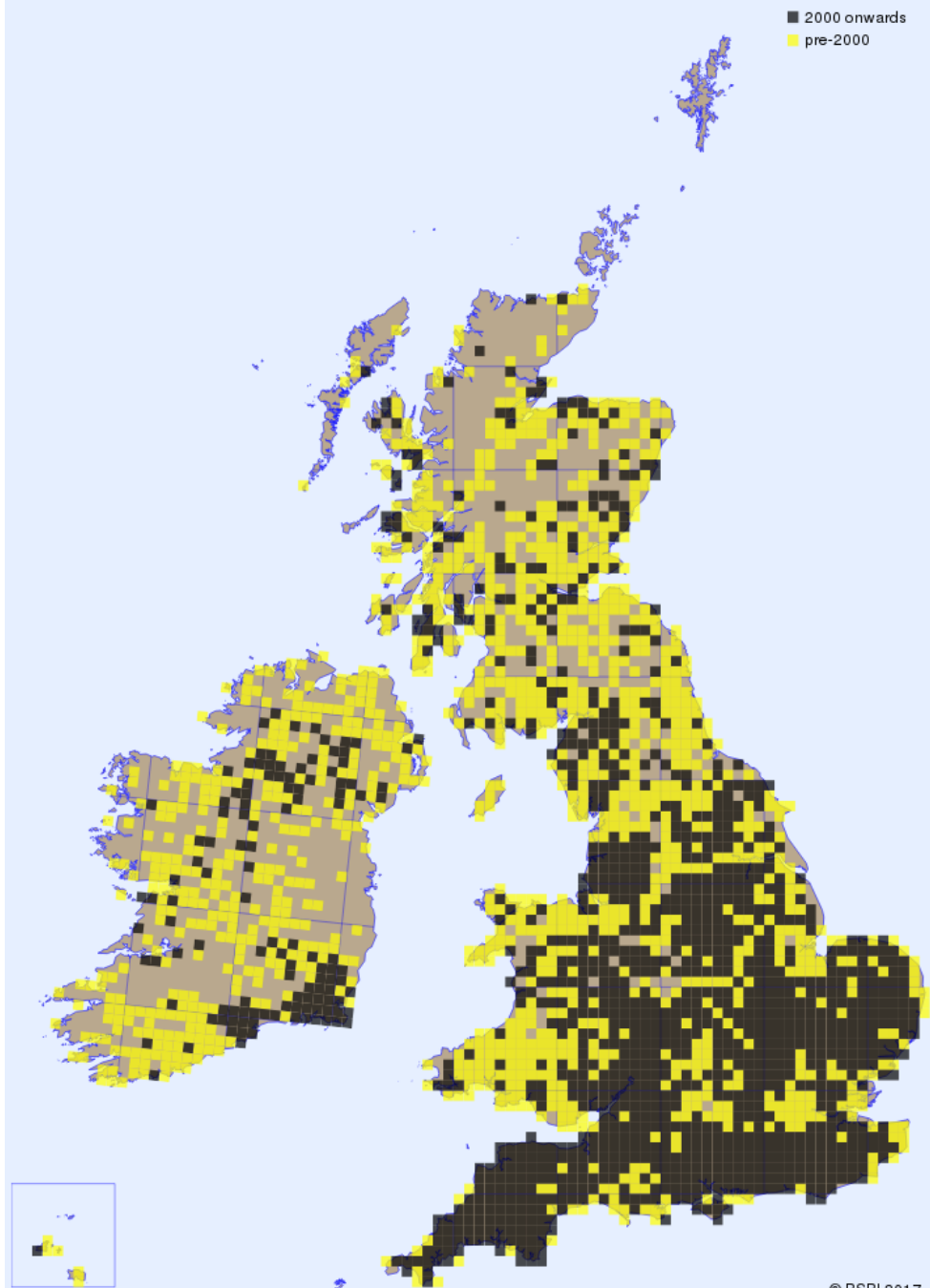
Arabis hirsuta (Hairy Rock-cress)

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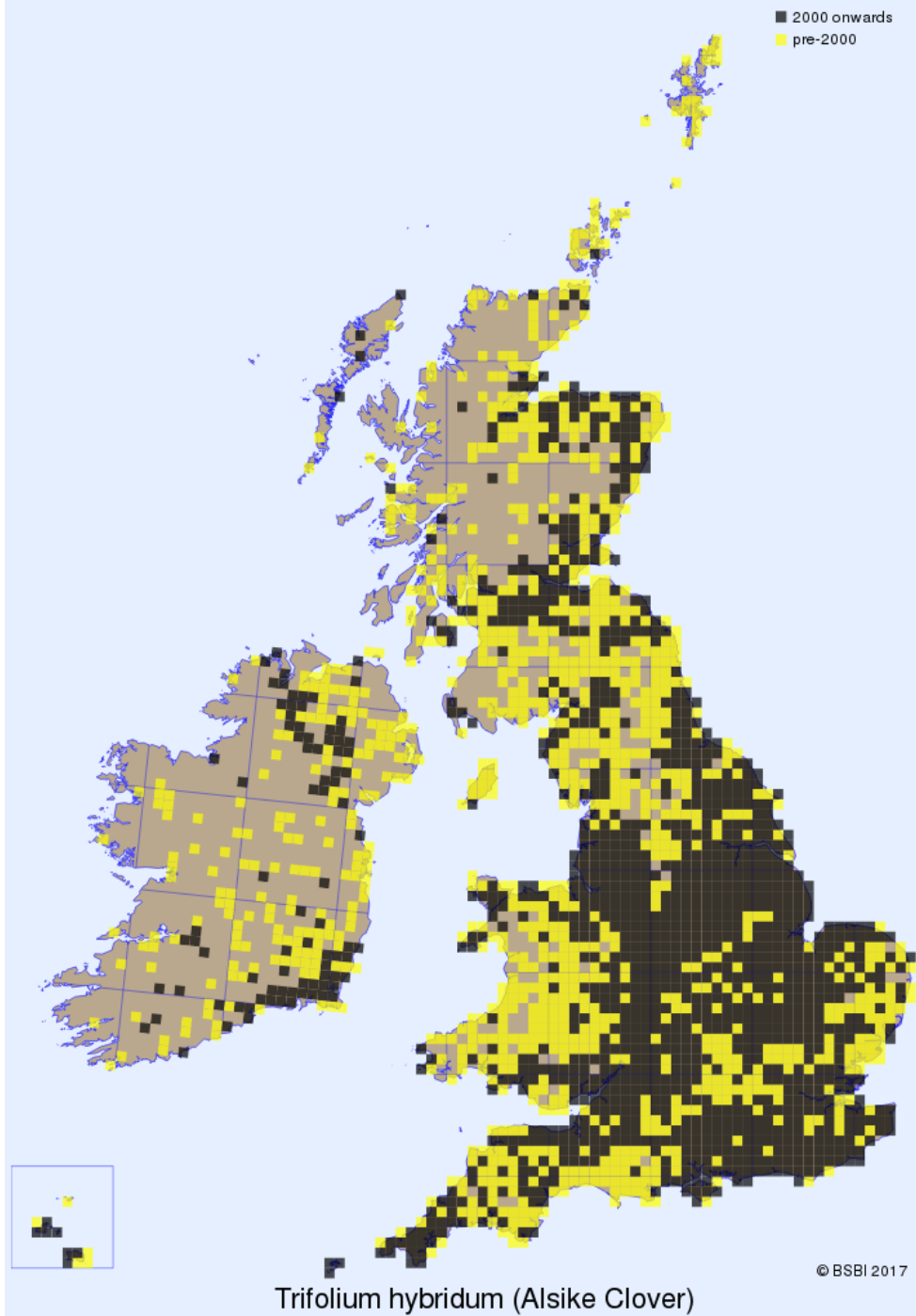
Potamogeton alpinus (Red Pondweed)

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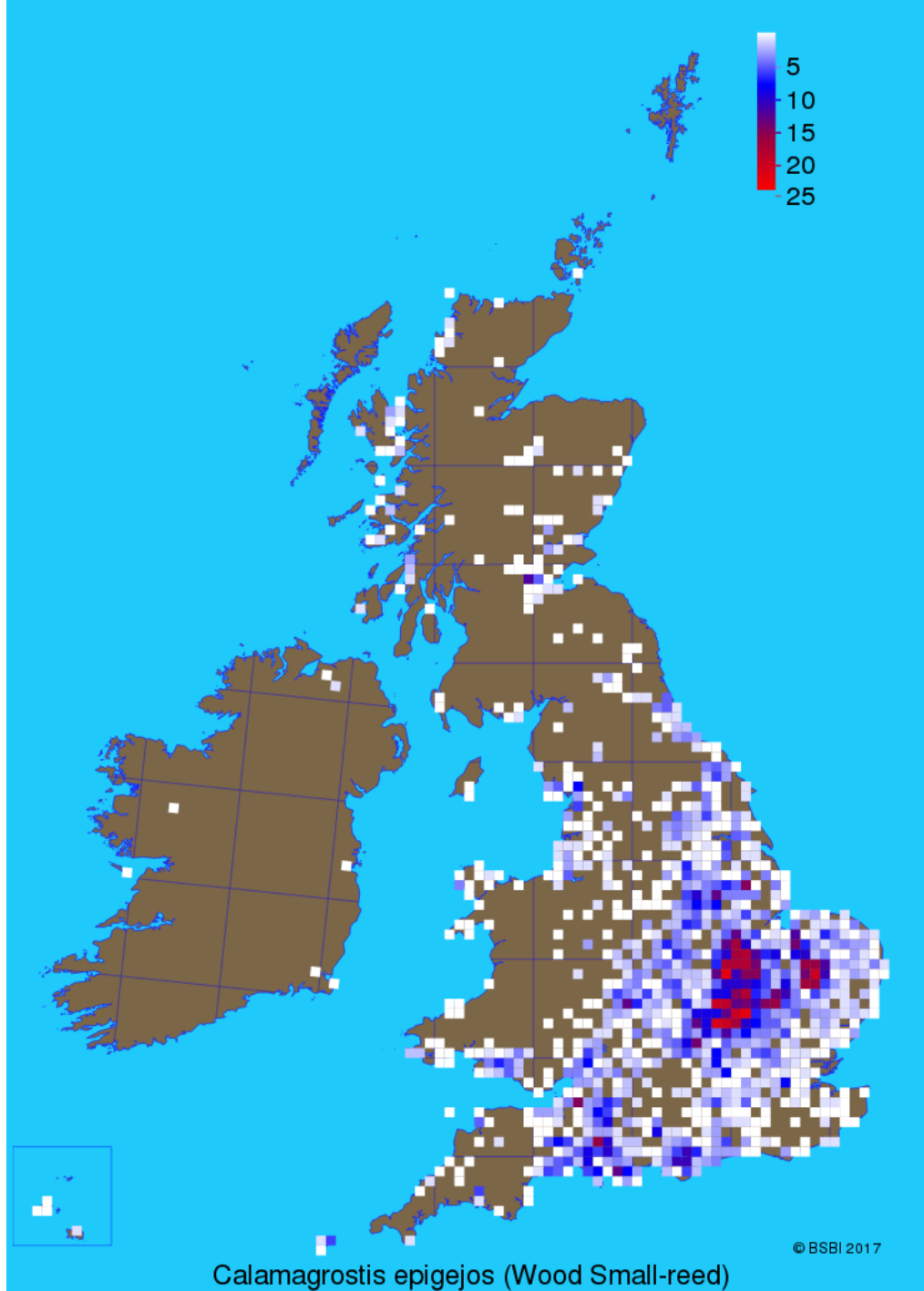
Mentha arvensis (Corn Mint)

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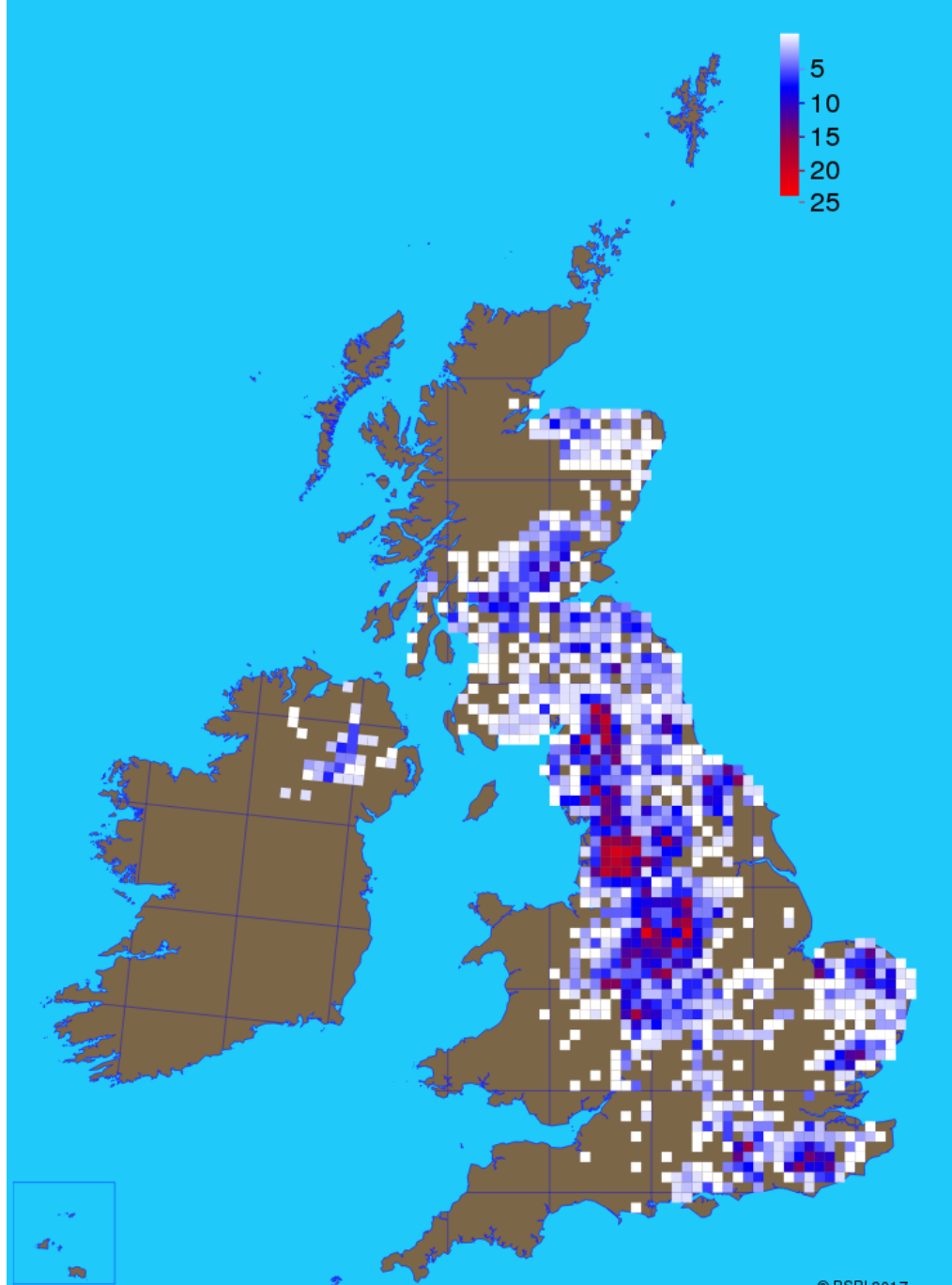


Tetrad frequency

Another way to map distributions, made possible by the huge number of detailed records now held on the DDb. Map shows number of tetrads with records per hectad.



Tetrad frequency



Cardamine amara (Large Bitter-cress)

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Taxa new to Scotland since 2000

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- Native taxa new to Scotland since 2000 include:

Callitriche palustris

Carex elata x *nigra* = *C. x turfosa*

Carex nigra x *recta* = *C. x spiculosa*

Carex salina

Carex saxatilis x *lepidocarpa* = *C. x marshallii*

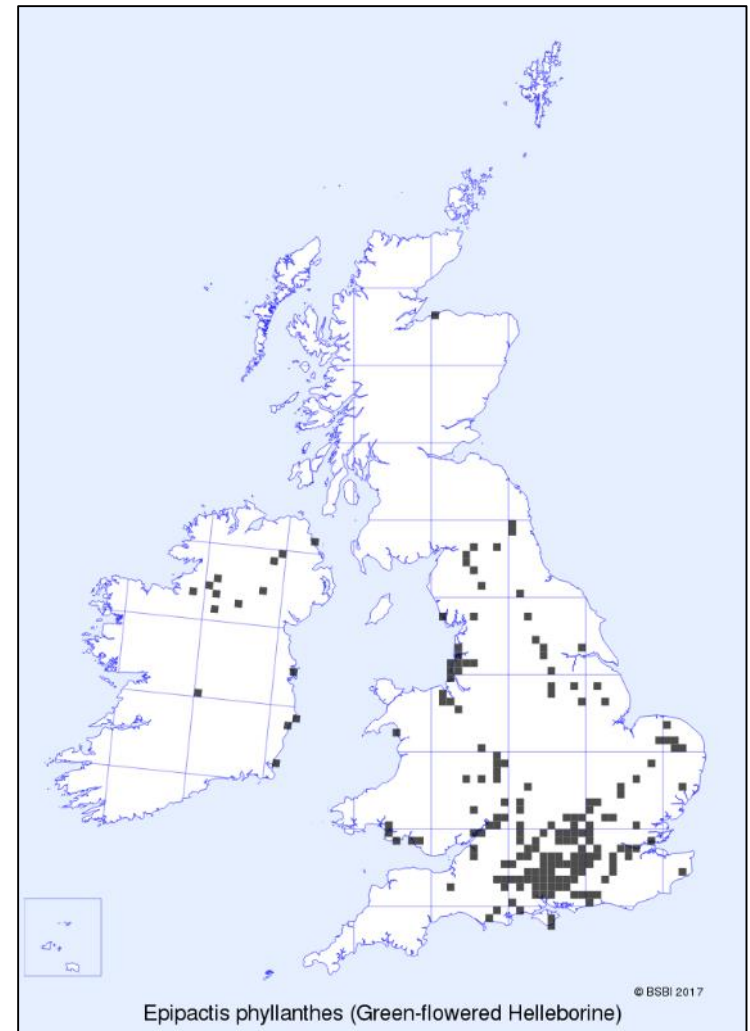
Epipactis phyllanthos

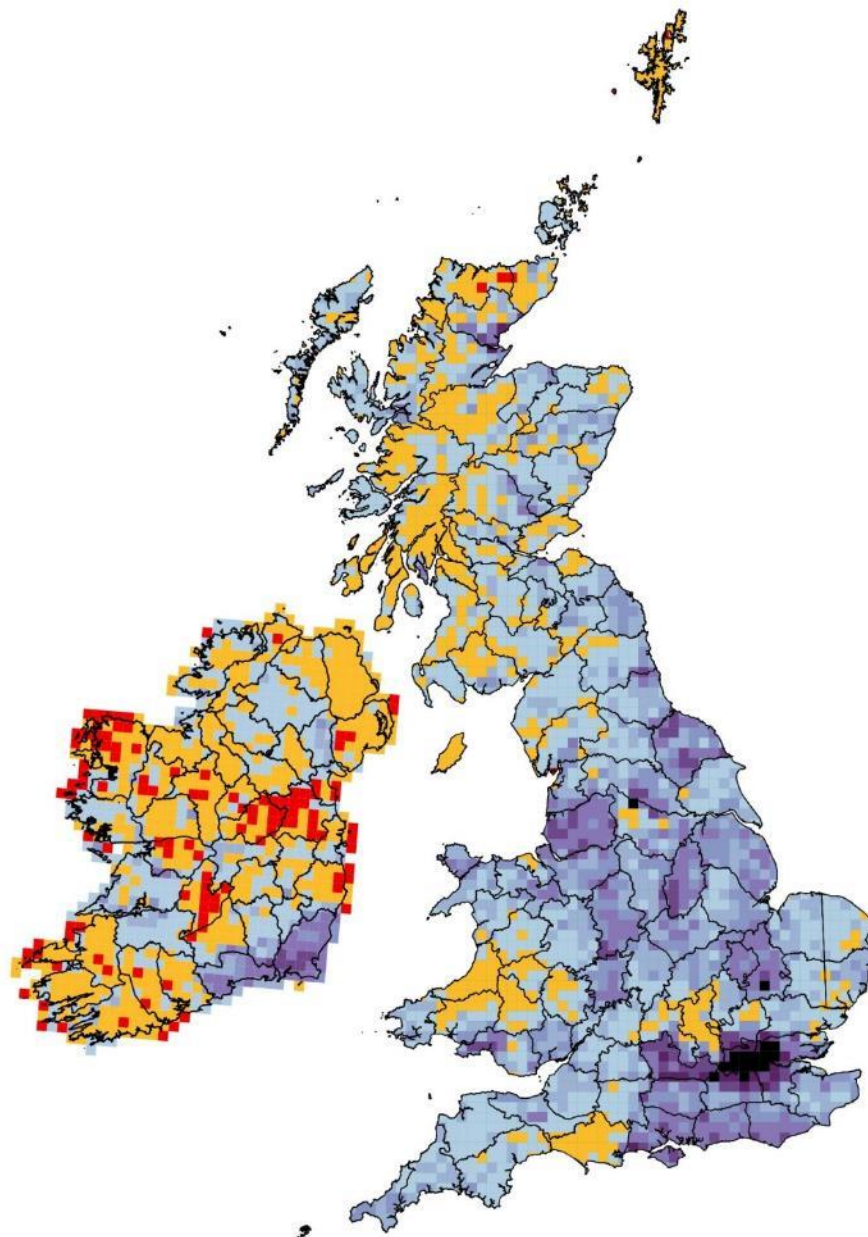
Equisetum fluviatile x *pratense* = *E. x mchaffieae*

Mibora minima

Ophrys apifera

Persicaria mitis





- Map shows the number of taxa per hectad first recorded after 1999.
- Hectads with <50 new taxa may be relatively under-recorded.
- Marked contrast between adjacent vice-counties indicates different intensities of recent recording.
- 'Flora of London' effect – botanising in urban and suburban areas, with many alien and planted taxa, is apparent.

New taxa per hectad since 2000

From DDb 17th Feb 2017

