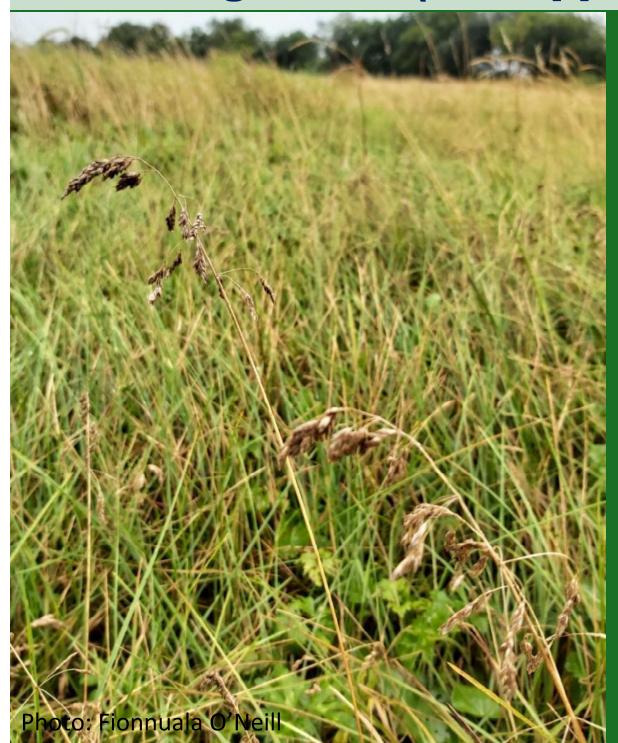
Meadow-grasses (Poa spp.)



Vegetative characteristics of Poa spp.

- Leaf tip is boat-shaped/hooded/keeled leaves cannot be flattened without splitting the tip
- Shoot base and stems at least slightly flattened
- Young leaves folded in the shoot, not rolled
- Usually hairless (but see Poa humilis)
- "Tramlines" 2 grooves running either side of midrib on upper leaf surface
- No cross-veins on leaves or sheaths (contrast *Glyceria*)
- Most are perennial, just one annual (P. annua)

Floral characteristics of *Poa* spp.

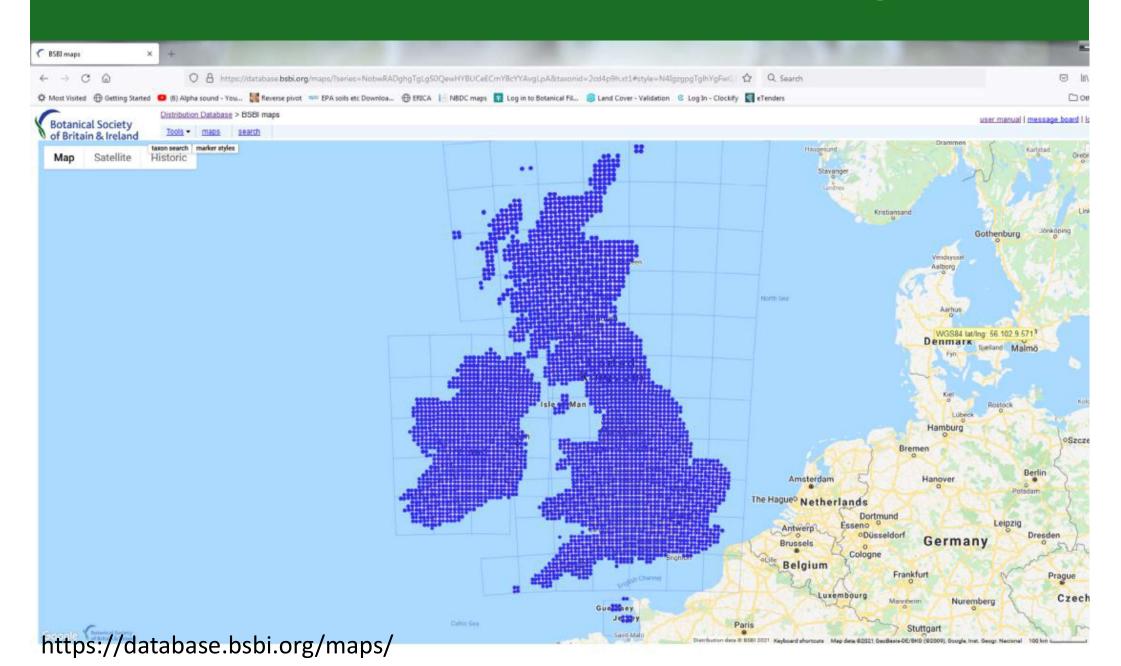
- Inflorescence is always a panicle
- Spikelets contain 2 or more florets

Poa species in Ireland

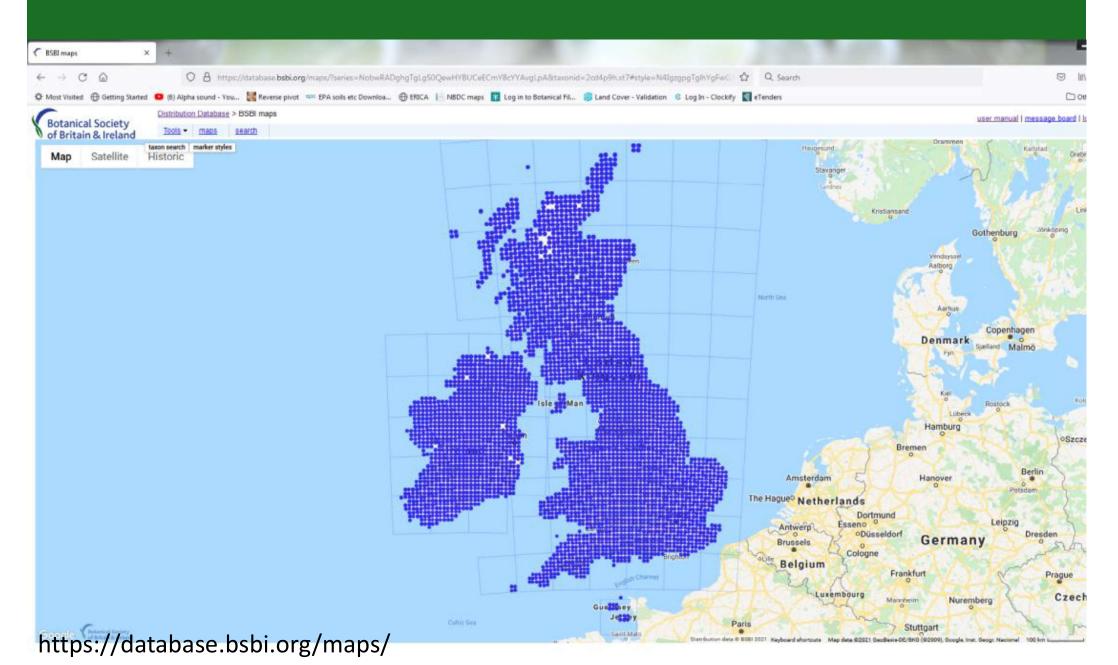
Scientific Name	Common Name	No. of records in NBDC*
Poa annua	Annual Meadow-grass	6,536
Poa trivialis	Rough Meadow-grass	5,911
Poa pratensis	Smooth Meadow-grass	3,733
Poa humilis	Spreading Meadow-grass	919
Poa nemoralis	Wood Meadow-grass	169
Poa palustris	Swamp Meadow-grass	46
Poa compressa	Flattened Meadow-grass	32
Poa alpina	Alpine Meadow-grass	19
Poa bulbosa	Bulbous Meadow-grass	4
Poa chaixii	Broad-leaved Meadow-grass	3
Poa infirma	Early Meadow-grass	3

^{*} National Biodiversity Data Centre: https://maps.biodiversityireland.ie

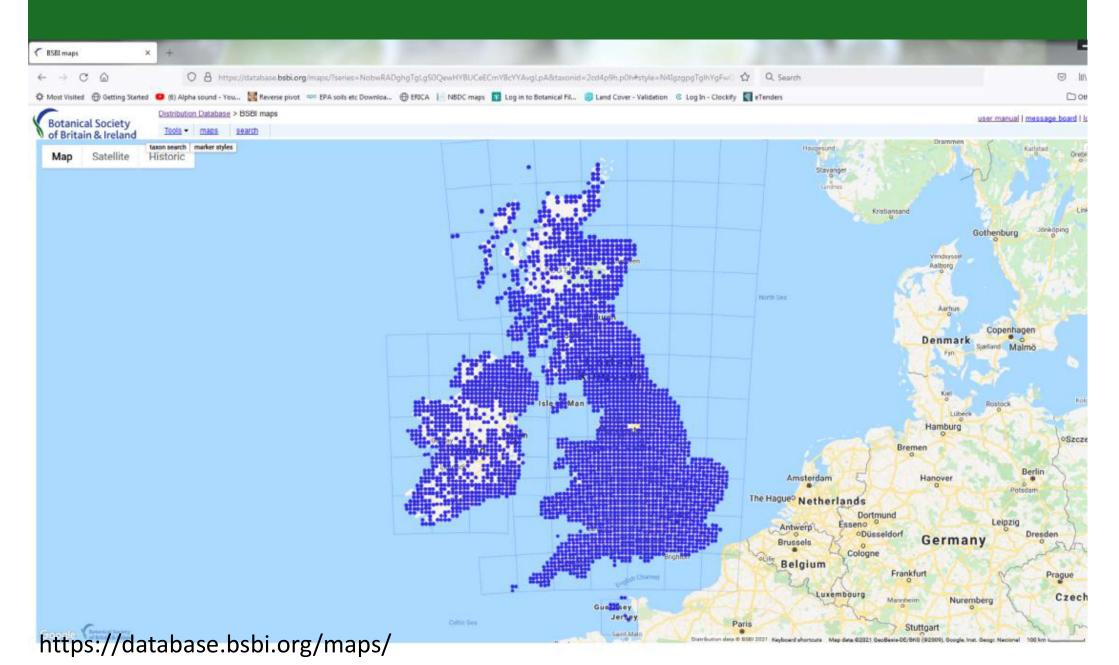
Poa annua - Annual Meadow-grass



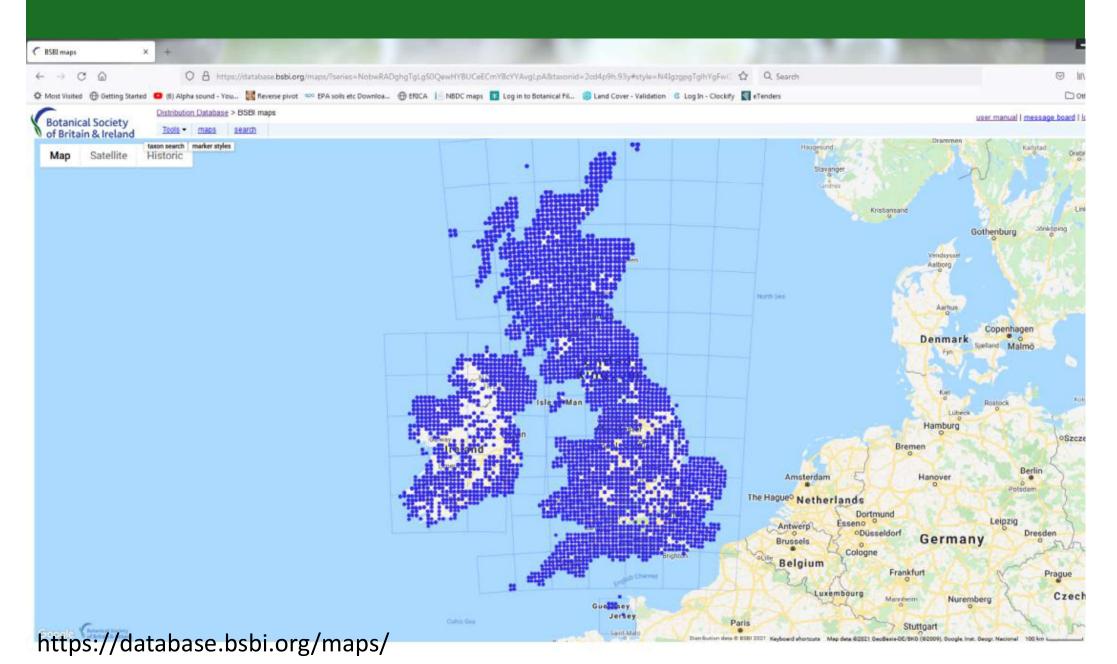
Poa trivialis - Rough Meadow-grass



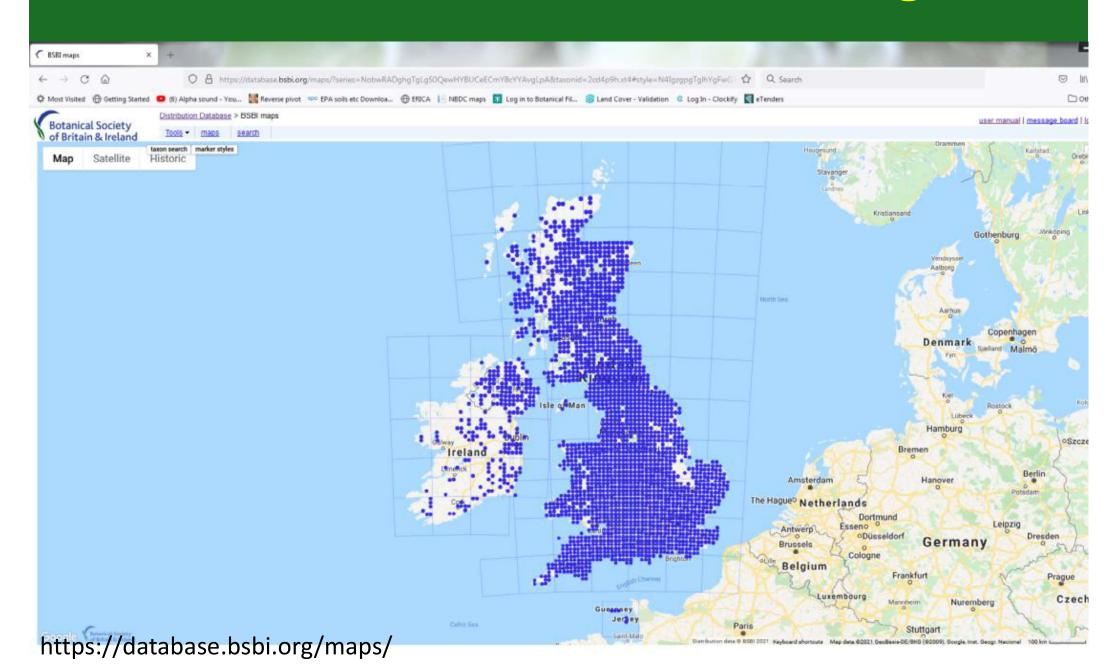
Poa pratensis – Smooth Meadow-grass



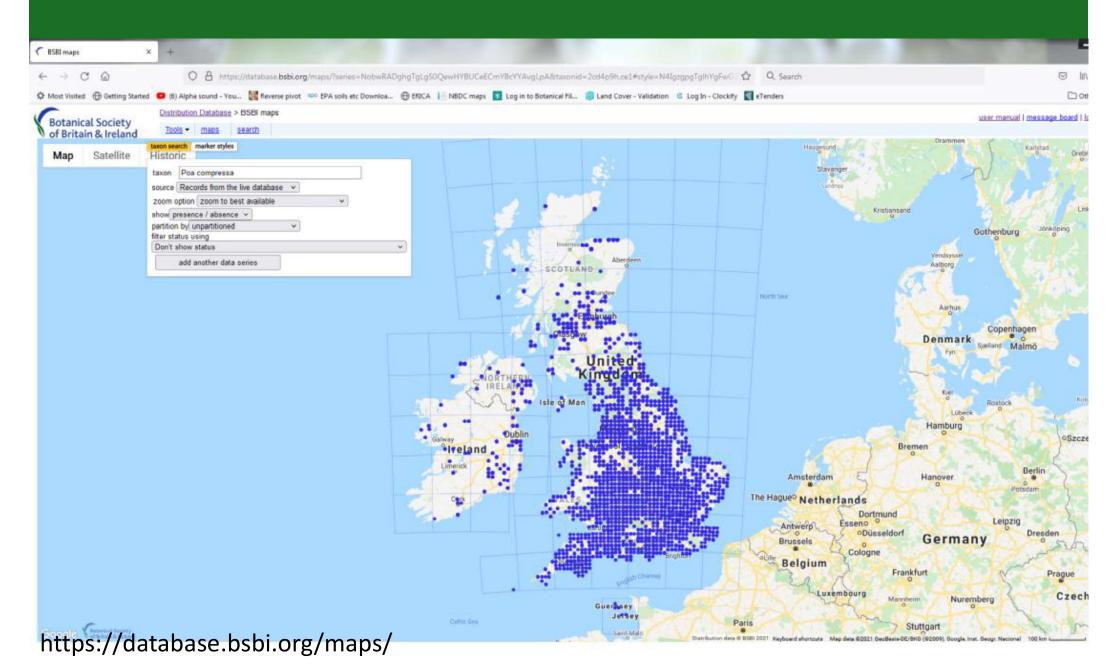
Poa humilis - Spreading Meadow-grass



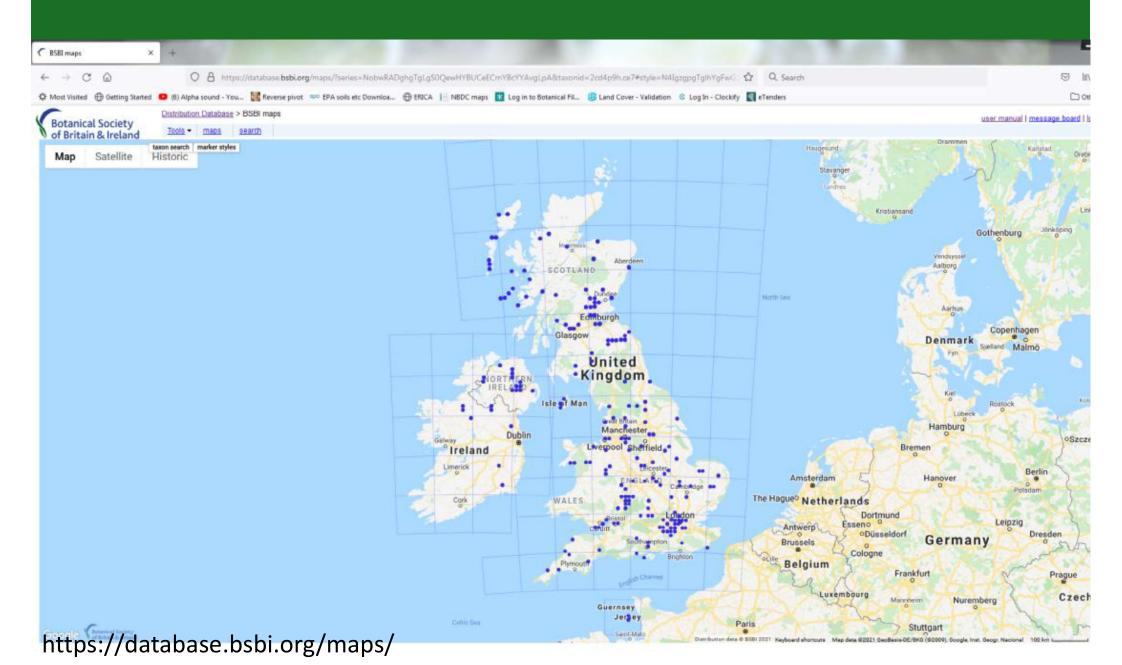
Poa nemoralis - Wood Meadow-grass



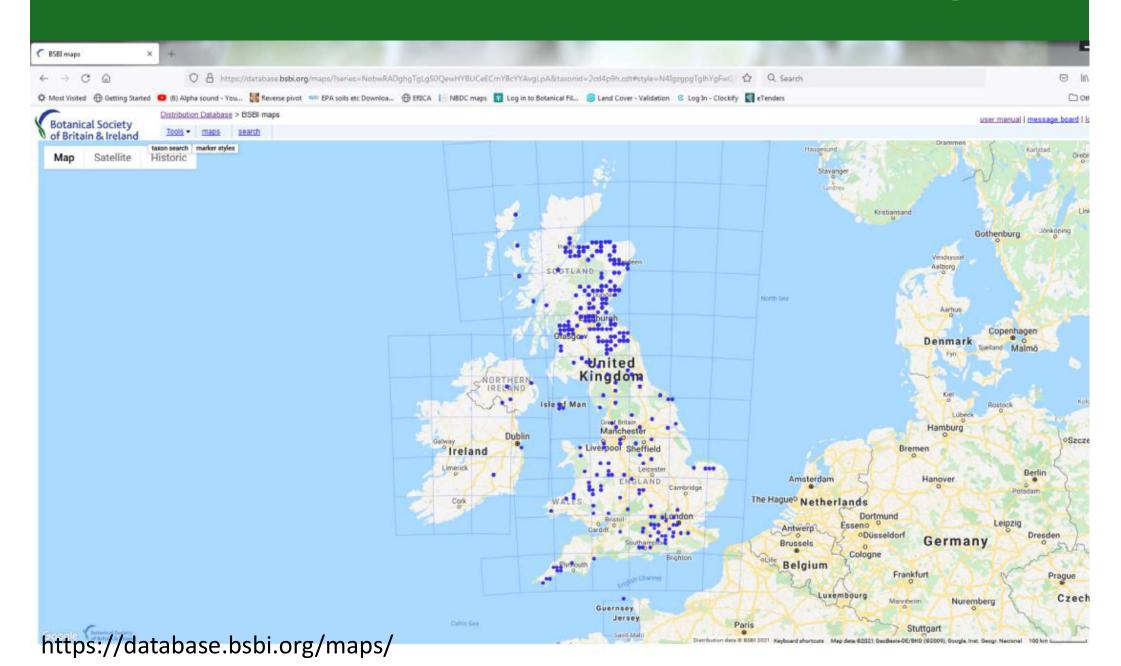
Poa compressa – Flattened Meadow-grass



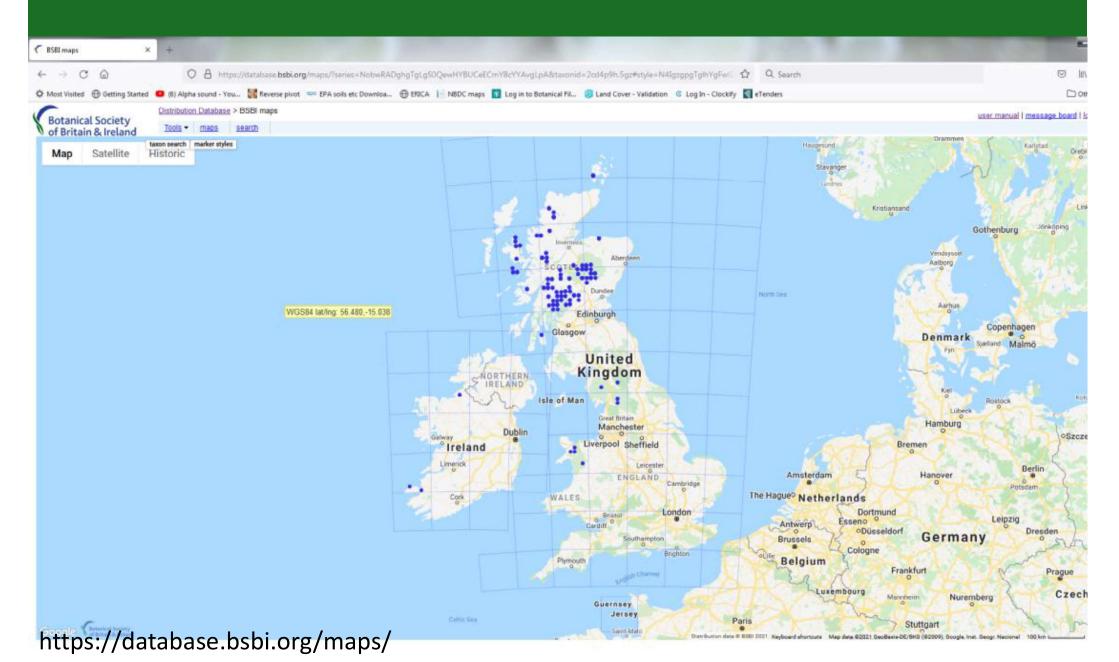
Poa palustris – Swamp Meadow-grass



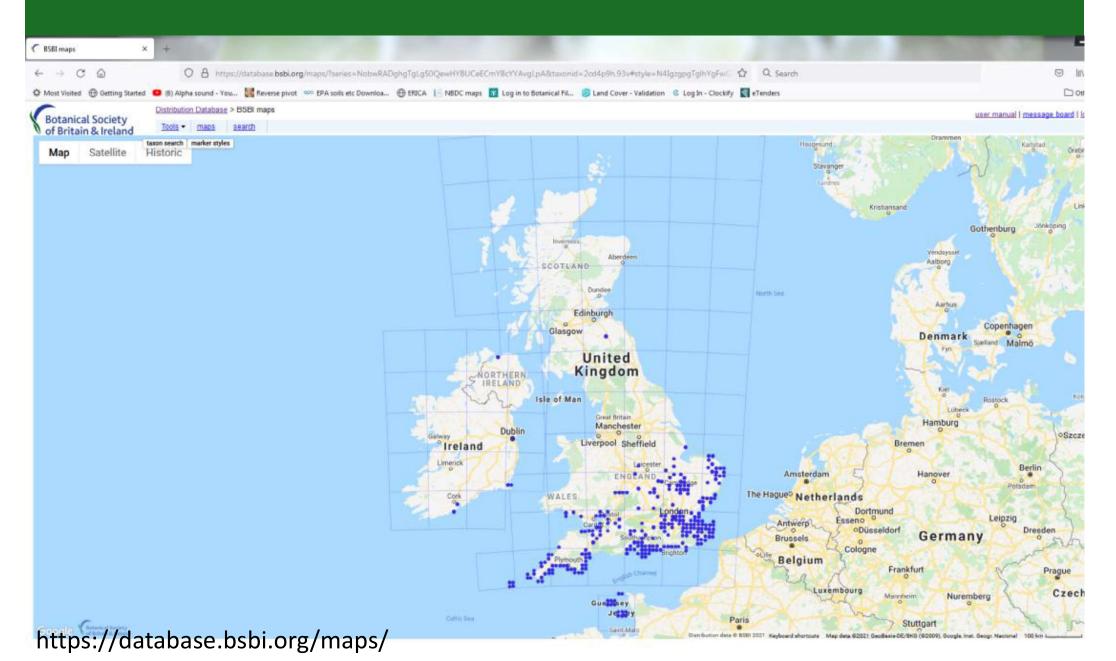
Poa chaixii - Broad-leaved Meadow-grass



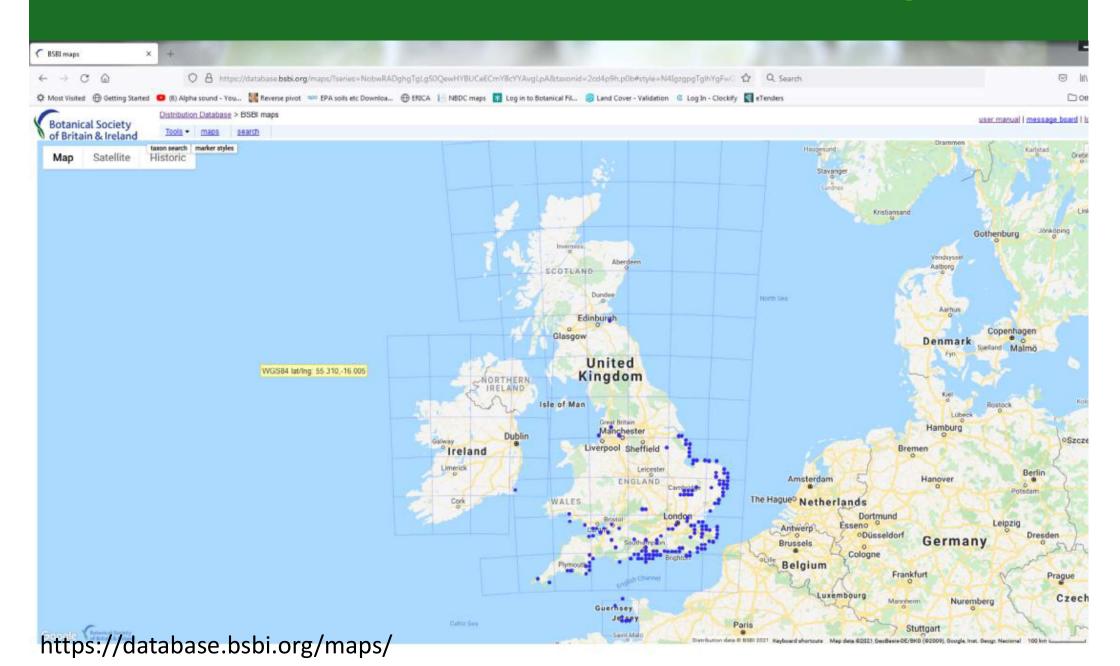
Poa alpina – Alpine Meadow-grass



Poa infirma – Early Meadow-grass



Poa bulbosa – Bulbous Meadow-grass

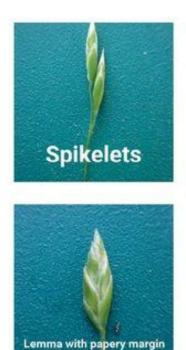


Poa annua Annual Meadow-grass





Small, annual grass – usually dies back after flowering Flowers more or less all year round Likes trampled areas, e.g. paths, amenity grassland















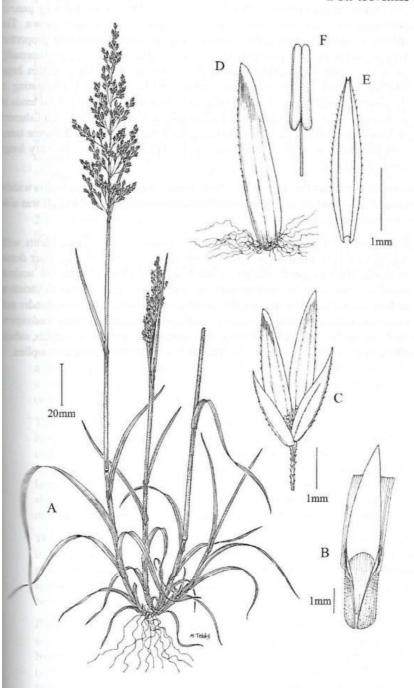


Poa trivialis - Rough Meadow-grass





Triangular flower head
Triangular, pointed ligule
Triangular leaf (tapering towards tip)
Tufted (or shortly stoloniferous)
Leaves bright green, glossy on the back



privialis: A, habit; B, ligule; C, spikelet; D, lemma in profile; E, palea; F, anther.

Wide range of conditions tolerated

- Damp or humid, e.g.
 wet grassland
- Bare, waste ground,
 may be weedy in
 arable fields and
 cultivated grassland
- Open woodland, hedgerows, etc.
- Dislikes very acid, dry or infertile soils

Leaf sheath colour



Poa trivialis sometimes develops purple colour on leaf sheaths, especially if recolonising bare ground

Not a very reliable character on its own – other species also have purple sheaths. DO NOT CONFUSE with *Glyceria fluitans* – always check to see if cross-walls are present. If so, it's *Glyceria*.

Poa pratensis - Smooth Meadow-grass







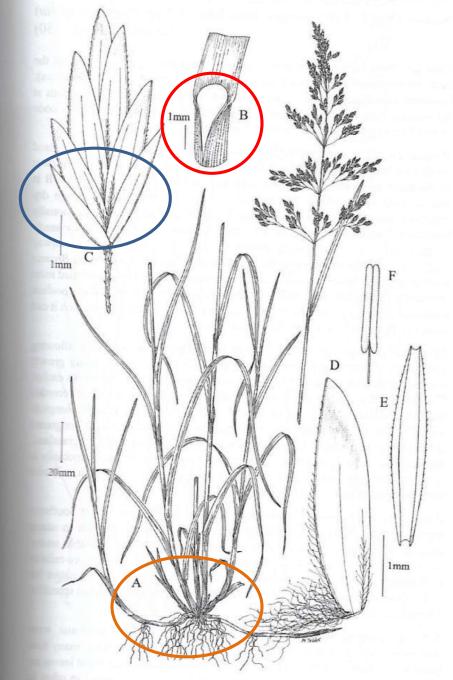
ANGSGRÖE, POA PRATENSIS L

Poa pratensis (sensu stricto)

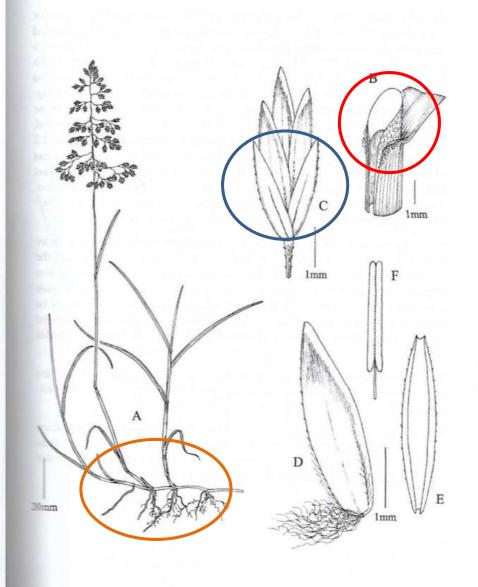
- Leaf is <u>parallel-sided</u> for most of its length, then narrows fairly abruptly to the tip
 - Fold leaf over in half (top to base) to see if upper third is same width as lower third
- Ligule is short (paltry)
- Spikelets of gone-over heads droop
- Colour is more blue-green than bright green
- Rhizomatous; culms usually in dense tufts at the nodes of the rhizome

Poa humilis – Spreading Meadow-grass

- Taxonomically problematic: Has alternated between a *Poa pratensis* sub-species and a species in its own right
 - Old names include *Poa pratensis* ssp. *irrigata, Poa subcaerulea*
- Currently recognised as a separate species
- If it looks like Poa pratensis but is in a damp or coastal habitat, consider Poa humilis and look for distinguishing characteristics



ensis subsp. pratensis: A, habit; B, ligule; C, spikelet; D, lemma in profile; F, anther.



Poa pratensis subsp. *irrigata*: A, habit; B, ligule; C, spikelet; D, lemma in profile; E, palea; F, anther.

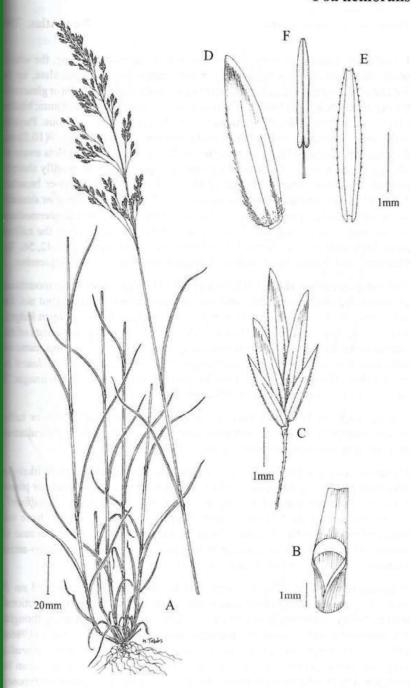
Poa pratensis vs. Poa humilis

- Veins on glumes
 - P. pratensis: Lower glume usually has only 1 vein
 - P. humilis: Both glumes have 3 veins
- Size of glumes
 - P. pratensis: Lower glume of P. pratensis is slightly but noticeably smaller
 - P. humilis: Glumes are more or less the same size
- Shape of glumes
 - Glumes of *P. humilis* are more sharply pointed than those of *P. pratensis*
- Hairs on sheath on P. humilis variable character

Poa nemoralis

Poa nemoralis Wood Meadow-grass

- Woods and shady places
- Delicate grass, leaves soft, not firm
- Tufted
- Leaves with tramlines visible only near apex
- Blackish nodes
- Very common in Britain, much less so in Ireland where it is not native (introduced, e.g. via sheep wool)



nemoralis: A, habit; B, ligule; C, spikelet; D, lemma in profile; E, palea; F, anther.

Image acknowledgements

Line drawings from BSBI Handbook no. 13 "Grasses of the British Isles" by T. Cope & A. Gray (2009)

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Go raibh míle maith agaibh! Thank you!



National Parks & Wildlife Service



An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta Department of Housing, Local Government and Heritage

