BRECOG 1b

BBS bryophyte habitats survey

Environmental setting		Substratum class (inc. specific comments)							Soil texture analysis (if relevant)					Soil/bark pH				
Locality and vice-county	De	Description of microhabitat (inc. NVC class if									now	n and	relev	ant)				
Locarity and vice-county		Description of interonabilat (inc. iv ve class if knowli allu f												ant)				
	<u> </u>										Veer Decorder(a)							
Grid reference (to 8 fig	s)) 			tude (m) Day			ay	Month		Year I		Recorder(s)					
Percentage cover: estimate to nearest 5%; but if cover <5%, estimate to nearest 1%; assign 0.1% if cover <1% Percentage cover: estimate to nearest 5%; but if cover <5%, estimate to nearest 1%; assign 0.1% if cover <1%																		
Reproductive biology: score for all s	productive biology: score for all species in all quadrats completed; use a								iemar	k tall	y lor	all ex	cept	tive biology				
Species (in full or BRC code)	1			aurai A	5 5	6	7	8	onau o	10	Te T	F	C	DIDIC	G G			
Total bryophyte cover	1	2	5	+	5	0	1	0		10	0	1	<u> </u>	1	U			
1																		
2																		
3																		
4																		
5																		
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11																		
12																		
13																		
14																		
15																		
16																		
17											_							
% Litter											<u>Reproductive biology</u>							
% Cover of lichens											 c), male inflores, present*. F, sporophytes or perianths present*. C, enter codes for prevalent developmental stages of current season's sporophytes in all quadrats P, previous season's sporophytes present* 							
% Cover of vascular plants																		
% Bare surface																		
Shade index (1-7)																		
Quadrat aspect (degrees)																		
Quadrat slope (degrees)																		
Average sward height (mm)																		
Average soil or water depth (mm)											G, g	emma	e, tube	rs, bul	bils			
Water pH	_										or de	ciduou	ıs leav	es/sho	ots			
Water conductivity											(lens) present*.							
Soil or bark collected?											*, enter gatemark for each							
Son of dark conected?											quadrat where applicable.							

Additional species	Replicate quadrat samples from microhabitat											Reproductive biology					
	1	2	3	4	5	6	7	8	9	10	5	F	С	Р	G		
18																	
19																	
20																	
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ENVIRONMENTAL SETTINGS

Marine

Saltmarsh (Ma1)

Coastal

Coastal dune (Co1) Shingle beach (Co2) Coastal cliffs and rocky shores (Co3)

Freshwater

Standing freshwater (Fr1) Flowing freshwater (Fr2) Littoral zone of lakes and rivers (Fr3)

Bogs, Fens & Flushes

Raised bogs and blanket bogs (BF1) Valley bogs, poor fens and flushes (BF2) Base-rich fens (BF3) Sedge and reed beds without free-standing water (BF4)

Grasslands

Dry grasslands (Gr1) Mesic grasslands (Gr2) Wet and seasonally-wet grasslands (Gr3) Alpine and subalpine grasslands (Gr4) Tall-herb communities (Gr5) Parkland (Gr6)

Heath, Scrub & Tundra

Montane scrub and tundra (HS1) Temperate scrub (HS2) Heathland (HS3) Riverine and fen scrubs (HS4) Hedgerows (HS5)

Woodland

Broadleaved deciduous woodland (Wo1) Coniferous woodland (Wo2) Mixed broadleaved and coniferous woodland (Wo3) Young plantations, coppices and shelter-belts (Wo4)

Sparse vegetation

Screes (SV1) Inland cliffs, rock pavements and outcrops (SV2) Sparsely vegetated inland habitats (SV3)

Arable

Arable land (Ar1)

Built environment

Buildings in cities, towns and villages (BE1) Low density buildings (BE2) Extractive industry sites (BE3) Roads and pavements (BE4)

SUBSTRATUM TYPES

Soil (A)
Natural rock (B)
Bark (C)*
Dead wood (D): (i) bark intact; (ii) decorticated but wood firm; (iii) wood soft and rough; (iv) humified.
Masonry (E)
Drystone (F)
Tarmac (G)
Thatch (H)
Wood (I)
Free-floating (J)

EPIPHYTE TREES (not flood zone)

Fagus sylvatica (Beech) or Betula sp. (Birch) Fraxinus excelsior (Ash) or Acer pseudoplatanus (Sycamore)

Quercus sp. (native Oak) or Sorbus aucuparia (Rowan)

TREES IN FLOOD ZONE

Alnus glutinosa (Alder), or Fraxinus excelsior (Ash), or a Salix sp. (tree Willows)

TRUNK ZONES

(Trunk girth must be >75 cm at 1.3 m)

Base, rest narrow edge (25 cm) of quadrat on ground

Mid, place lower edge of quadrat at 62.5 cm above ground

Upper, place lower edge of quadrat at 125 cm above ground

BRANCH EPIPHYTES

Only sample these multi-stemmed shrubs, in a zone 1-2 m above ground, use half-quadrat (two per shrub on separate branches):

Sambucus nigra (Elder) or a Salix sp. (Willow, Sallow) or Corylus avellana (Hazel)

SHADE INDEX

- 1, Fully exposed to sunlight all day.
- 2, Sunlit for > half the day.
- 3, Significant sunlight, but for < half the day.
- 4, Moderate shade, e.g. light-medium deciduous canopy with sun flecks.
- 5, Permanently shaded from direct sunlight but otherwise open to sky.
- 6, Deep woodland (e.g. coniferous or in ravine) shade, no sun flecks.
- 7, perpetual deep shade, e.g. cave entrance.

Reproductive Biology Recording

Put a diagonal line through the repro. biol. columns if you deliberately did not score reproductive characters.

Male inflorescences are not easily observable in the field in many species.

Developmental stages: accumulate codes for the most abundant stage in each quadrat, e.g. if in 10 quadrats stage D was prevalent in 7 quadrats, stage B in one quadrat and stage E in 2 quadrats, you would simply write DBE.

MOSS SPOROPHYTE MATURITY

(excluding embryo stages)

- C, calyptra partially exerted from perichaetial leaves.
- S, seta elongating with calyptra on top.
- W, distal end of seta expands in width.
- G, green capsule widens fully, lid starting to brown.
- B, capsule brown, lid still closed.
- D, lid detaches, >1/2 spore mass remains.
- E, empty, fewer than $\frac{1}{2}$ spores remain.
- A, abortive, seta apex browns or shrivels.

LIVERWORT SPOROPHYTE MATURITY

V, no capsule visible in perianths (lens)

- P, capsule present but < half mature diam.
- M, capsule in perianth, >half mature diam.
- X, capsule exserted from perianth but undehisced.
- R, capsule dehisced but seta remains erect.
- F, capsule dehisced and seta shrivelled.