

Differences between *Conocephalum conicum* and *Conocephalum salebrosum*
(as identified by the BBS *Conocephalum* survey, 2005)

Character	<i>C. conicum</i>	<i>C. salebrosum</i>	Notes
Size of plant	Usually large, 50-110 (-135) mm long 8-12(-16) mm wide	Somewhat smaller, (20-)30-60(-190) mm long 5-10.5(-12.5) mm wide	Genetically dwarf plants of <i>C. conicum</i> with thalli sometimes as short as 20 mm and only 2-4 mm wide occur rarely e.g. the Isle of Man plant discussed by Paton (1999)
Texture and pattern of dorsal surface of thallus	Shiny, with pores conspicuous but borders between air chambers inconspicuous	Dull, with borders of air chambers more conspicuous than pores so thallus has a reticulate pattern	<i>C. salebrosum</i> may appear shiny when wet because of rain or spray. Droughted plants and dried herbarium specimens of <i>C. conicum</i> are dull but do not develop conspicuous borders to air chambers
Smoothness of dorsal surface of thallus	Smooth, with junctions of air chambers flush with surface	Undulating, with junctions of air chambers in shallow 'valleys' in thallus	Most clearly seen in cross-sections, but can be detected in field
Number of air chambers between midrib-like elongated chambers in centre of thallus and the edge	Usually 5-8(-9)	3-5(-6)	The 'Isle of Man' variant of <i>C. conicum</i> has fewer (3-4)
Number of rows of +/- elongated hyaline cells at margin of thallus	(2-)3-4(-5)	2-3	Szweykowski <i>et al.</i> (2005) give 1-2 for <i>C. salebrosum</i> but their figure illustrates 2-3 and the latter accords with our limited experience. Occasional irregularities of margin (including deeper 'bays' of hyaline cells) should be disregarded.
Junction of air chamber wall with dorsal epidermis	Highest cell of air chamber wall reaches dorsal epidermal cells but is not inserted between them	Highest cell of air chamber wall is inserted between dorsal epidermal cells	Most clearly visible in cross section
Shape of hyaline cells in layer immediately below pores	Flask-shaped	Pyriiform	
Stomata on archegoniophore heads	66-121 μ m long x 33-77 μ m wide	99-165 μ m long x 44-88 μ m wide	We have not yet examined fertile material