

Table S1. Comparison of light-saturated photosynthesis and respiration rates between samples in this study and values in the literature.

Authors:	This study wild-sourced <i>Sphagnum</i>		This study micropropagated <i>Sphagnum</i>		Rice <i>et al.</i> , 2008		Haraguchi and Yamada, 2011	Kangas <i>et al.</i> , 2014		Bengtsson <i>et al.</i> , 2016	Laine <i>et al.</i> , 2011		Reich <i>et al.</i> , 1997	
<i>Sphagnum</i> species:	P _{max}	Resp	P _{max}	Resp	P _{max}	Resp	P _{max}	P _{max}	Resp	P _{max}	P _{max}	Resp	P _{max}	Resp
<i>S. capillifolium</i> (S)	6.97	-2.54	25.42	-4.97						15.78				
<i>S. fallax</i> (R)	16.14	-4.37	33.29	-5.42	13.90	-5.67	21.00			20.52				
<i>S. girgensohnii</i> (C)								42.49	-5.25	34.72				
<i>S. medium/divinum</i> (S) (open)	1.59	-1.17	21.15	-4.07	11.70	-4.63		35.04	-5.28	22.10				
<i>S. medium/divinum</i> (S) (heavy shade)										37.88				
<i>S. palustre</i> (C S)	15.23	-4.15	39.69	-5.88			20.00							
<i>S. papillosum</i> (S)	3.55	-1.91	36.85	-7.03			35.00			22.10				
<i>S. riparum</i> (R)								54.92	-10.39					
<i>S. squarrosum</i> (C)	25.32	-6.05	47.42	-8.15	15.40	-6.78								
<i>S. tenellum</i> (R)										37.88				
Wide range of <i>Sphagnum</i> spp.											22.44	-4.99		
Vascular leaves*													21 to 289	-4.0 to 35.2

Light-saturated photosynthesis (P_{max}) and respiration (Resp) rates are expressed by dry weight (nmol CO₂ g⁻¹ s⁻¹); leaf gas exchange sign convention used (i.e. CO₂ uptake positive and CO₂ emission negative); Bengtsson *et al.*, 2016 values estimated from graphs; C = competitive; R = ruderal; S = stress-tolerant (from Kangas *et al.*, 2014 [sensu Grime, 1977]); *S. magellanicum* reported assumed to be *S. medium/divinum*. *Vascular leaves range from slow growing evergreens to fast growing herbs.