

Supplementary Table 2. Summary of analyses from the water column, irradiance variables and nearshore location from the coast. Water quality parameters for each season shown are dissolved inorganic nitrogen (DIN, includes NO<sub>3</sub>, NO<sub>2</sub> and NH<sub>4</sub>), dissolved organic carbon (DOC), salinity, Secchi disc depth, total suspended solids (TSS), chlorophyll *a* (Chl *a*) and temperature. Mean (standard deviation).

Island	Nearshore location	Season	DIN (μmol l <sup>-1</sup> )	DOC (μmol l <sup>-1</sup> )	Salinity (ppt)	Secchi depth (m)	TSS (mg l <sup>-1</sup> )	Chl <i>a</i> (μg l <sup>-1</sup> )	Temperature (°C)
Pine	inner	dry	0.21 (0.02)	60.13 (2.52)	35.71 (0.59)	3.75 (1.73)	3.45 (0.21)	0.48 (0.09)	23.90 (1.08)
		wet	0.63 (0.06)	70.74 (1.00)	33.60 (0.60)	7.50 (2.70)	2.85 (0.20)	0.82 (0.02)	28.95 (1.00)
Daydream	inner	dry	0.22 (0.07)	60.13 (2.34)	35.70 (1.20)	4.10 (1.23)	2.71 (0.45)	0.47 (0.04)	24.25 (2.19)
		wet	0.52 (0.23)	75.4 (2.19)	33.35 (0.22)	6.80 (3.01)	2.03 (0.40)	0.90 (0.17)	29.5 (1.92)
Double cone	inner	dry	0.22 (0.10)	63.47 (4.47)	35.20 (0.32)	5.50 (2.10)	1.50 (0.31)	0.33 (0.09)	23.25 (2.93)
		wet	0.48 (0.13)	62.81 (2.25)	33.60 (1.11)	5.52 (1.21)	1.55 (0.46)	0.94 (0.12)	29.35 (3.21)
Deloraine	outer	dry	0.09 (0.03)	69.40 (2.11)	35.12 (2.19)	7.75 (2.93)	1.50 (0.21)	0.29 (0.06)	22.60 (1.90)
		wet	0.17 (0.09)	70.60 (3.71)	35.10 (4.10)	9.25 (3.00)	1.14 (0.73)	0.60 (0.09)	28.80 (0.96)
Edward	outer	dry	0.06 (0.01)	69.15 (2.43)	35.05 (1.70)	8.00 (4.08)	1.35 (0.23)	0.36 (0.08)	22.55 (1.92)
		wet	0.24 (0.07)	69.15 (2.00)	34.85 (2.12)	7.50 (2.31)	1.85 (0.27)	0.49 (0.12)	28.60 (2.34)