

Supplementary Material

Impact of fog drip versus fog immersion on the physiology of Bishop pine saplings

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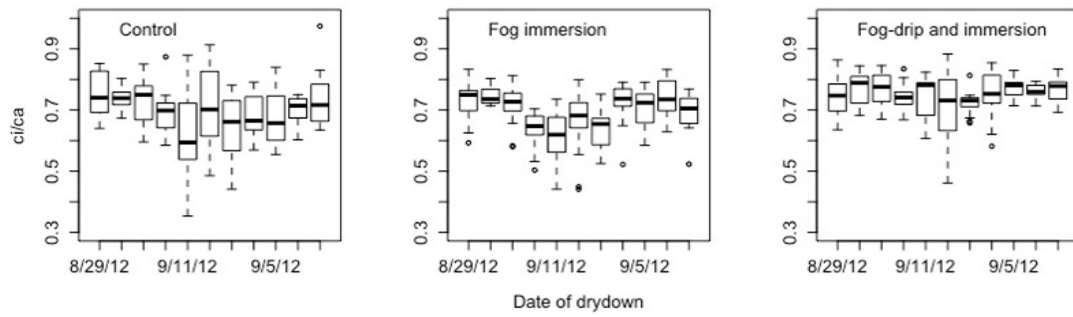


Fig. S1. Intercellular to ambient CO₂ ratio (c_i/c_a ratio) of sapling Bishop pines in fog treatment and control groups during the dry-down period. The boxplot represents the median (solid line) and the 75% and 25% quartile. Whiskers represent the maximum and minimum c_i/c_a values, and dots represent outliers. Coefficient of variation in c_i/c_a ratios was higher in the control group (7.4 ± 5.2) than in either of the fog treatment groups (FI: 5.4 ± 4.1 ; FDI: 5.2 ± 3.0).

Table S1. Fit of non-linear regressions to light-response curve data (see Fig. 4a–f) including 95% confidence intervals ($n = 5$)

A non-rectangular hyperbolic response equation was used to fit the relationship of leaf-level ETR to PPFD (Thornley 2002, Fig. 4a–c). A negative exponential equation was used to fit photochemical efficiency of photosystem II (Φ PSII) to PPFD (Fig. 4d–f). See methods section for description of equations

Group	Day of dry-down	ETR vs PPFD			Φ PSII vs PPFD		
		a	b	r^2	a	b	r^2
Control	Beginning	0.46 (0.40, 0.51)	357 (337, 377)	0.98	0.73 (0.68, 0.79)	-0.0006 (-0.0007, -0.0005)	0.88
	End	0.35 (0.24, 0.46)	237 (213, 262)	0.87	0.63 (0.59, 0.68)	-0.0008 (-0.0009, -0.0007)	0.93
Fog immersion	Beginning	0.47 (0.40, 0.53)	403 (371, 435)	0.97	0.73 (0.69, 0.78)	-0.0006 (-0.0006, -0.0005)	0.91
	End	0.41 (0.29, 0.53)	324 (289, 360)	0.91	0.58 (0.52, 0.64)	-0.0005 (-0.0006, -0.0004)	0.82
Fog-drip and immersion	Beginning	0.43 (0.35, 0.51)	401 (364, 438)	0.96	0.73 (0.69, 0.78)	-0.0006 (-0.0006, -0.0005)	0.91
	End	0.38 (0.29, 0.48)	359 (315, 403)	0.94	0.58 (0.52, 0.64)	-0.0005 (-0.0006, -0.0004)	0.82