

Supplemental material

Climatic controls on active layer dynamics: Amsler Island, Antarctica

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Table S1. Palmer Station and Amsler Island monthly air temperature comparisons.

Year	Month	Palmer	Amsler	Difference
		°C	°C	°C
2011	Jan	2.12	-	-
	Feb	2.43	-	-
	Mar	1.50	-	-
	Apr	-1.90	-2.68	0.78
	May	-1.42	-1.87	0.45
	Jun	-4.15	-	-
	Jul	-6.36	-	-
	Aug	-7.16	-	-
	Sept	-5.75	-	-
	Oct	-2.01	-0.92	-1.09
	Nov	0.16	-0.13	0.29
	Dec	1.55	1.49	0.07
2012	Jan	1.14	1.06	0.08
	Feb	0.95	1.03	-0.08
	Mar	1.35	1.22	0.13
	Apr	-0.84	-1.11	0.27
	May	-0.47	-0.83	0.35
	June	-5.01	-5.43	0.42
	July	-3.42	-3.91	0.49
	Aug	-3.29	-3.54	0.24
	Sept	-3.13	-3.43	0.30
	Oct	-4.00	-4.38	0.39
	Nov	-1.36	-1.70	0.34
	Dec	0.94	0.62	0.32
2013	Jan	2.28	2.18	0.11
	Feb	1.84	1.72	0.09
	Mar	1.44	1.39	0.05
	Apr	0.80	0.66	0.14
	May	-1.82	-2.23	0.40
	Jun	-3.52	-4.09	0.57
	Jul	-5.12	-5.65	0.52
	Aug	-6.58	-7.05	0.47
	Sept	-7.25	-7.54	0.29
	Oct	-2.79	-3.01	0.21

	Nov	-2.22	-2.54	0.32
	Dec	-0.21	-0.84	0.62
2014	Jan	1.33	1.20	0.13
	Feb	0.86	1.01	-0.15
Mean				0.24

Monthly mean temperatures recorded from Amsler monitoring station and Palmer climatic database.

Amsler missing data from January to March 2011 = before installation date.

Amsler missing data from June to September 2011 = battery failure.

Palmer Station was 0.24°C warmer than Amsler Island.