

Rocky intertidal temperature variability along the southeast coast of Australia: comparing data from *in situ* loggers, satellite-derived SST and terrestrial weather stations

Justin A. Lathlean*, David J. Ayre, Todd E. Minchinton

Institute for Conservation Biology and Environmental Management & School of Biological Sciences, University of Wollongong, New South Wales 2522, Australia

*Email: jl887@uowmail.edu.au

Marine Ecology Progress Series 439:83–95 (2011)

Supplement. Temperature comparisons made between two *in situ* loggers within a single location

Table S1. Summary of paired *t*-tests and Pearson correlations comparing daily mean, maximum and minimum *in situ* logger air and water temperatures across 2 sites within the high, mid and low intertidal zones at Garie Beach from 3 February to the 5 October 2010 (see Fig. 3 in the main text). Mean and max. difference refers to the average and maximum differences between temperatures measured by loggers within each of the 2 sites. * $p < 0.001$

	df	Difference (°C)		<i>t</i>	p	Pearson's correlation (r)
		Mean	Max.			
Air temperature						
<i>High</i>						
Mean	168	0.41	7.10	2.72	0.007	0.784*
Max	168	2.28	20.05	6.96	<0.0001	0.660*
Min	168	2.10	10.78	11.21	<0.0001	0.609*
<i>Mid</i>						
Mean	115	0.38	9.5	1.93	0.057	0.712*
Max	115	2.67	22.56	5.86	<0.0001	0.524*
Min	115	1.12	7.69	6.15	<0.0001	0.664*
<i>Low</i>						
Mean	63	0.16	2.28	2.04	0.046	0.932*
Max	63	0.13	4.65	1.09	0.280	0.954*
Min	63	0.18	2.09	2.04	0.046	0.908*
Water temperature						
<i>High</i>						
Mean	209	0.29	5.24	3.04	0.003	0.880*
Max	209	0.33	7.25	1.47	0.142	0.545*
Min	209	0.02	7.09	0.16	0.873	0.759*
<i>Mid</i>						
Mean	209	0.32	4.62	6.73	<0.0001	0.951*
Max	209	0.21	9.99	1.67	0.096	0.790*
Min	209	0.47	5.53	5.75	<0.0001	0.876*
<i>Low</i>						
Mean	209	0.04	1.86	2.07	0.040	0.987*
Max	209	0.35	7.87	4.54	<0.0001	0.920*
Min	209	0.62	7.45	7.00	<0.0001	0.861*

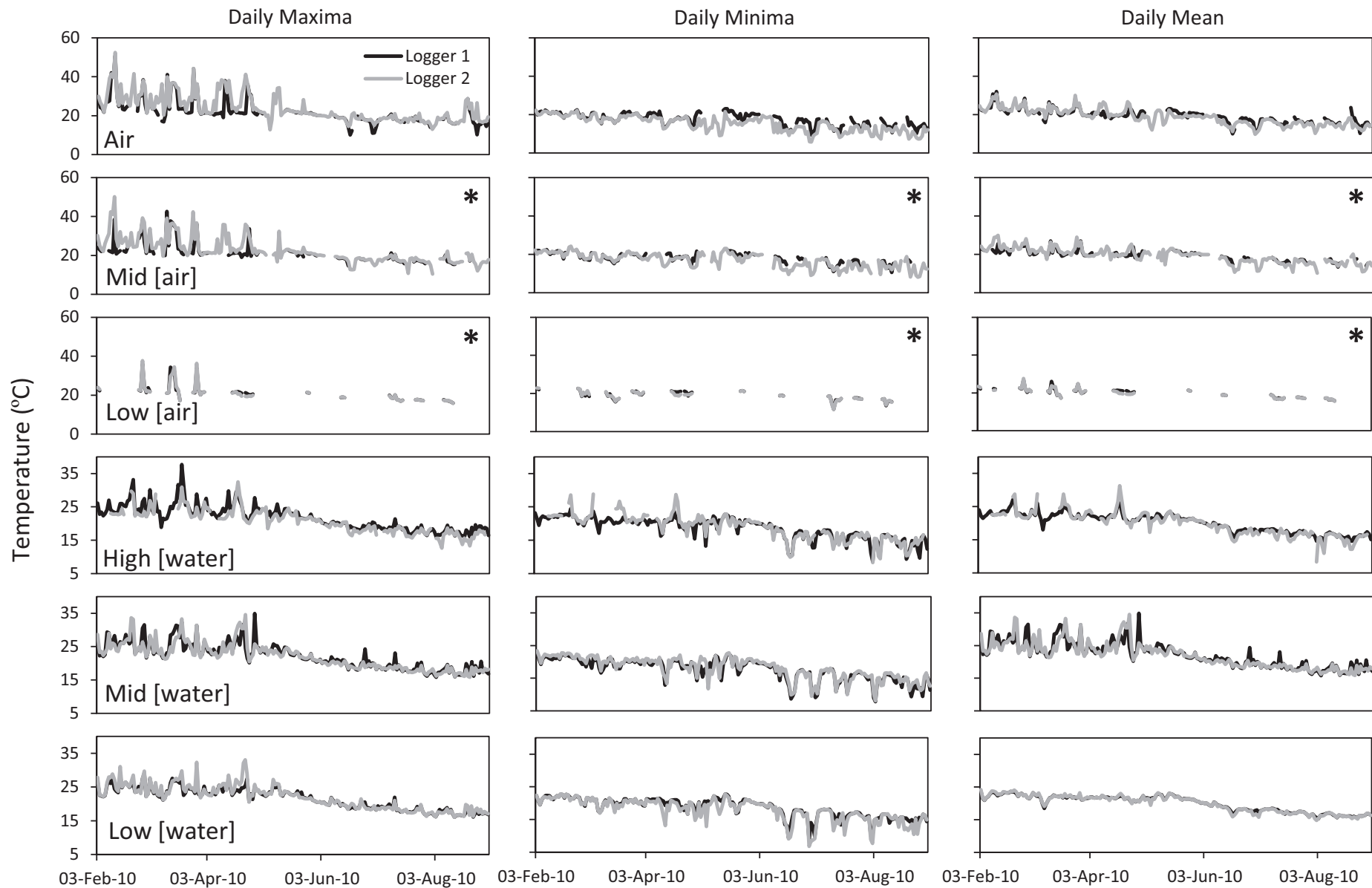


Fig. S1. Comparisons of air and water temperatures between 2 sites at Garie Beach and across high, mid and low intertidal heights from 3 February to 31 August 2010. Daily maximum, minimum and mean temperatures were calculated from *in situ* temperature loggers which recorded temperatures every hour. Asterisks denote incomplete data; see ‘Materials and methods’ in the main text