

Supplementary Table 2. Tukey HSD contrasts for the chronic combined effects of irradiance and temperature experiments in *Thorea okadae* from Kagoshima, Japan. The table shows the mean differences, standard errors, associated t-values, and *P*-values. Each contrast was performed within each temperature and PAR treatment.

Temperature	PAR	Pairwise contrasts	Difference	S.E.	D.F.	t-value	<i>P</i> -value
4	200	H0 - H6	0.274	0.0055	27	49.7	$P < 0.0001$
4	200	H0 - H18	0.099	0.0055	27	18.0	$P < 0.0001$
4	200	H6 - H18	-0.175	0.0055	27	-31.8	$P < 0.0001$
4	500	H0 - H6	0.236	0.0141	27	16.7	$P < 0.0001$
4	500	H0 - H18	-0.024	0.0141	27	-1.71	0.2217
4	500	H6 - H18	-0.260	0.0141	27	-18.4	$P < 0.0001$
4	1000	H0 - H6	0.446	0.0050	27	89.9	$P < 0.0001$
4	1000	H0 - H18	0.343	0.0050	27	69.2	$P < 0.0001$
4	1000	H6 - H18	-0.103	0.0050	27	-20.7	$P < 0.0001$
16	200	H0 - H6	0.097	0.0050	27	19.5	$P < 0.0001$
16	200	H0 - H18	0.012	0.0050	27	2.44	0.0545
16	200	H6 - H18	-0.085	0.0050	27	-17.1	$P < 0.0001$
16	500	H0 - H6	0.158	0.0248	27	6.36	$P < 0.0001$
16	500	H0 - H18	-0.020	0.0248	27	-0.82	0.6951
16	500	H6 - H18	-0.178	0.0248	27	-7.18	$P < 0.0001$
16	1000	H0 - H6	0.348	0.0064	27	54.3	$P < 0.0001$
16	1000	H0 - H18	0.052	0.0064	27	8.18	$P < 0.0001$
16	1000	H6 - H18	-0.295	0.0064	27	-46.1	$P < 0.0001$
28	200	H0 - H6	0.123	0.0063	27	19.6	$P < 0.0001$
28	200	H0 - H18	0.001	0.0063	27	0.21	0.9765
28	200	H6 - H18	-0.121	0.0063	27	-19.4	$P < 0.0001$
28	500	H0 - H6	0.135	0.0055	27	24.5	$P < 0.0001$
28	500	H0 - H18	-0.023	0.0055	27	-4.16	0.0008
28	500	H6 - H18	-0.159	0.0055	27	-28.6	$P < 0.0001$
28	1000	H0 - H6	0.335	0.0127	27	26.5	$P < 0.0001$
28	1000	H0 - H18	0.044	0.0127	27	3.47	0.0049
28	1000	H6 - H18	-0.291	0.0127	27	-23.0	$P < 0.0001$