

Supplementary Table 1. The measured net photosynthetic (*NP*) rate in the photosynthesis - irradiance (*P-E*) curve experiments for *Thorea okadae* from Kagoshima, Japan.

	PAR	<i>NP</i> rate*	S.D.
Blue	0	-1.24	0.32
	5	-1.03	0.25
	10	-0.70	0.43
	30	-0.38	0.54
	60	0.10	0.48
	100	0.26	0.80
	200	1.80	0.88
	500	2.95	0.56
	1000	3.44	0.50
Green	0	-1.60	0.42
	5	-0.86	0.57
	10	-0.29	0.22
	30	0.80	0.46
	60	2.86	0.31
	100	3.86	0.19
	200	4.11	0.74
	500	3.60	0.20
	1000	2.41	0.22
Red	0	-1.16	0.35
	5	-0.65	0.12
	10	-0.14	0.42
	30	2.01	0.51
	60	2.30	0.52
	100	2.94	0.49
	200	2.87	0.40
	500	2.72	0.26
	1000	1.84	0.32
White	0	-2.03	0.41
	5	-1.03	0.14
	10	-0.44	0.13
	30	2.37	0.42
	60	2.82	0.23
	100	3.27	0.35
	200	4.30	0.27
	500	4.29	0.68
	1000	2.79	0.17

* $\mu\text{g O}_2 \text{ g}_{\text{ww}}^{-1} \text{ min}^{-1}$