

1 **Supplementary**

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Treatment		TA start	TA end	Δ TA	DIC start	DIC end	Δ DIC
0 μ M AZ	1	2283.9	2234.0		2109.7	2062.9	
	2	2283.9	2238.8		2109.7	2084.1	
	3	2283.9	2219.3		2109.7	2068.5	
	Average	2283.9	2230.7	54.7	2109.7	2071.8	37.9
4 μ M AZ	1	2285.0	2277.3		2105.4	2104.5	
	2	2285.0	2279.8		2105.4	2101.0	
	3	2285.0	2277.3		2105.4	2105.9	
	Average	2285.0	2278.1	7.3	2105.4	2103.8	1.6
8 μ M AZ	1	2285.4	2280.1		2105.3	2100.0	
	2	2285.4	2279.0		2105.3	2116.3	
	3	2285.4	2281.8		2105.3	2107.6	
	Average	2285.4	2280.3	5.1	2105.3	2108.0	-2.7
16 μ M AZ	1	2292.0	2289.9		2108.8	2111.5	
	2	2292.0	2295.1		2108.8	2097.7	
	3	2292.0	2286.3		2108.8	2106.9	
	Average	2292.0	2290.4	1.6	2108.8	2105.4	3.4
light control	1	2280.1	2211.1		2115.0	2085.7	
	2	2280.1	2219.0		2115.0	2106.5	
	3	2280.1	2201.1		2115.0	2089.7	
	Average	2280.1	2210.4	69.7	2115.0	2094.0	21.0
dark	1	2280.1	2250.4		2115.0	2150.9	
	2	2280.1	2264.1		2115.0	2121.5	
	3	2280.1	2258.7		2115.0	2121.6	
	Average	2280.1	2257.8	22.3	2115.0	2131.3	-16.3
DCMU	1	2286.0	2275.3		2090.7	2130.0	
	2	2286.0	2254.4		2090.7	2128.6	
	3	2286.0	2272.7		2090.7	2140.2	
	Average	2286.0	2267.4	18.6	2090.7	2132.9	-42.2

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Total alkalinity and DIC values (μ m/kg) measured in the vials for every experimental treatment. The initial values are deduced from 6 to 7 measurements for the total alkalinity and a single measurement for the DIC.