Table S2: Core incubation data

STN **1**

Water Height (cm)		Before	After
	Core A	**14.6**	**9.1**
	Core B	**15.0**	**9.5**

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**
A1	03/08/2017	15:26	2.4	~40	59.0	5.0	14.6	1.4	1.4	91.46	10464	10619	54126
A2	04/08/2017	00:15	2.0	~40	50.0	13.8	13.8	2.7	4.1	91.32	10460	10619	53980
A3	04/08/2017	13:49	1.5	~40	52.0	27.4	13.2	4.3	8.4	91.22	10443	10626	54030
A4	05/08/2017	13:12	1.2	~36	51.8	50.8	12.5	7.8	16.2	91.28	10443	10613	54244
A5	07/08/2017	23:04	2.3	~36	51.0	108.7	11.8	20.4	36.6	91.05	10477	10621	54211
A6	09/08/2017	16:05	2.3	~36	48.5	149.7	11.2	15.3	51.8	90.68	10420	10560	54040
A7	19/08/2017	12:12	2.0	~36	49.0	385.8	10.6	93.1	144.9	90.12	10381	10589	54257
		Average	**2.0**		361.3		9.9						
		Target	1.5										

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**
B1	03/08/2017	15:40	0.2	~36	51.0	5.3	15.0	1.5	1.5	91.67	10483	10636	54147
B2	04/08/2017	00:22	2.4	~36	50.0	14.0	14.3	2.5	4.0	91.27	10482	10639	53973
B3	04/08/2017	14:00	0.5	~36	51.2	27.6	13.7	4.1	8.1	91.12	10471	10664	53941
B4	05/08/2017	13:20	0.2	~36	53.0	50.9	13.0	7.5	15.6	91.12	10433	10601	54060
B5	07/08/2017	22:57	2.0	~36	56.0	108.5	12.4	19.4	35.0	91.07	10456	10599	54218
B6	09/08/2017	16:12	2.5	~36	51.5	149.8	11.6	14.8	49.8	90.81	10456	10591	54074
B7	19/08/2017	12:22	1.9	~36	50.0	386.0	11.0	89.5	139.3	90.23	10419	10601	54117
		Average	**1.4**		362.7		10.4						
		Target	1.5										

STN **2**

Water Height (cm)	Before	After
Core A	**14.6**	**6.9**
Core B	**12.1**	**8.4**

ID	Date	Time	Temp (ºC)	Stir (rpm)	Volume (mL)	total time (h)	height (cm)	delta t/ h (day/m)	sum of t/h (day/m)	Sr (µmol L^{-1})	K (µmol L^{-1})	Ca (µmol L^{-1})	Mg (µmol L^{-1})
A1	07/08/2017	13:05	2.2	32	48.5	8.3	14.6	2.36	2.36	91.35	10422	10538	54088
A2	07/08/2017	22:31	4.0	32	50.5	17.7	12.9	3.04	5.40	90.99	10470	10614	53871
A3	08/08/2017	13:43	0.9	32	49.0	32.9	12.3	5.15	10.56	91.20	10464	10638	54084
A4	09/08/2017	15:55	0.9	32	50.0	59.1	11.7	9.36	19.91	91.09	10417	10643	54279
A5	18/08/2017	16:15	0.5	32	48.0	275.4	11.0	81.7	101.7	90.33	10342	10557	54304
A6	24/08/2017	12:34	2.9	32	49.5	415.7	10.4	56.1	157.8	89.06	10310	10562	54215
		Average	**1.9**		295.5		6.8						
		Target	1.6										

ID	Date	Time	Temp (ºC)	Stir (rpm)	Volume (mL)	total time (h)	height (cm)	delta t/ h (day/m)	sum of t/h (day/m)	Sr (µmol L^{-1})	K (µmol L^{-1})	Ca (µmol L^{-1})	Mg (µmol L^{-1})
B1	07/08/2017	13:18	2.1	32	52.0	8.5	12.1	2.9	2.9	91.14	10479	10589	53938
B2	07/08/2017	22:40	1.2	32	47.0	17.8	11.5	3.4	6.3	91.26	10474	10579	54137
B3	08/08/2017	13:50	2.0	32	62.0	33.0	10.9	5.8	12.1	90.91	10434	10603	53979
B4	09/08/2017	14:02	2.5	32	50.0	59.2	10.1	10.8	23.0	90.72	10457	10595	54038
B5	18/08/2017	16:07	3.0	32	49.0	275.3	9.4	95.4	118.4	90.12	10432	10583	54101
B6	24/08/2017	12:39	3.9	32	51.0	415.5	8.8	66.3	184.7	88.95	10371	10553	54165
		Average	**2.5**		311.0		8.2						
		Target	1.6										

STN **3**

Water Height (cm)	Before	After
Core A	**12.8**	**8.7**
Core B	**12.5**	**7.4**

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/ h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**
A1	13/08/2017	23:10	1.5		49.0	4.4	12.8	1.43	1.43	91.78	10459	10594	54221
A2	14/08/2017	08:32	1.5		50.5	13.8	12.2	3.21	4.63	91.45	10476	10590	54120
A3	15/08/2017	21:49	0.8		49.5	51.0	11.5	13.47	18.10	91.51	10458	10608	54162
A4	19/08/2017	12:50	1.1		48.0	138.1	10.9	33.26	51.36	90.89	10411	10616	54104
A5	24/08/2017	12:23	3.2		52.5	257.6	10.3	48.41	99.77	90.76	10406	10627	54089
A6	26/08/2017	14:38	2.1		53.5	307.9	9.6	21.76	121.53	90.41	10406	10640	54038
		Average	**1.7**		303.0		8.9						
		Target	1.6										

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/ h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**
B1	13/08/2017	23:18	0.9	~36	50.0	4.5	12.5	1.50	1.50	91.49	10486	10622	54034
B2	14/08/2017	08:40	0.5	~36	50.0	13.9	11.9	3.28	4.79	91.39	10474	10590	54023
B3	15/08/2017	21:55	1.1	~36	49.5	51.1	11.3	13.79	18.58	91.12	10434	10612	54060
B4	19/08/2017	12:55	0.0	~36	46.5	138.1	10.6	34.13	52.71	90.57	10400	10625	54104
B5	24/08/2017	12:29	2.9	~36	50.5	257.7	8.8	56.43	109.14	90.17	10380	10643	54075
B6	26/08/2017	14:45	2.9	~36	52.0	308.0	8.2	25.59	134.73	90.38	10363	10570	54260
		Average	**1.4**		298.5		7.5						
		Target	1.6										

STN **4**

Water Height (cm)	Before	After
Core A	**14.0**	**9.9**
Core B	**13.5**	**8.1**

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/ h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(μmol L^{-1})**	**(μmol L^{-1})**	**(μmol L^{-1})**	**(μmol L^{-1})**
A1	18/08/2017	02:30	2.9	~40	52.5	4.5	14.0	1.34	1.34	91.72	10486	10630	54043
A2	18/08/2017	12:32	1.3	~40	54.5	14.5	13.3	3.13	4.47	91.70	10527	10627	53964
A3	19/08/2017	12:34	1.9	~40	49.5	38.6	12.6	7.93	12.40	91.49	10492	10657	53989
A4	20/08/2017	22:13	3.6	~36	49.5	72.2	12.0	11.68	24.08	91.68	10467	10608	54168
A5	24/08/2017	12:11	4.0	~36	48.5	158.2	11.4	31.49	55.56	91.68	10485	10597	54142
A6	27/08/2017	21:34	2.9	~36	50.5	239.6	10.8	31.52	87.09	91.24	10494	10654	54018
		Average	**2.8**				9.9						
		Target	1.6										

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/ h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(μmol L^{-1})**	**(μmol L^{-1})**	**(μmol L^{-1})**	**(μmol L^{-1})**
B1	18/08/2017	02:36	2.9	~36	52.0	4.6	13.5	1.43	1.43	91.48	10521	10684	53978
B2	18/08/2017	12:38	1.5	~36	50.5	14.6	12.8	3.27	4.69	91.66	10487	10622	54136
B3	19/08/2017	12:40	1.5	~36	48.5	38.7	12.1	8.25	12.94	91.61	10506	10653	54192
B4	20/08/2017	22:18	2.1	~36	49.0	72.3	10.1	13.84	26.78	91.56	10501	10625	54162
B5	24/08/2017	12:15	4.0	~36	50.0	158.3	9.5	37.69	64.47	91.22	10473	10644	53978
B6	27/08/2017	21:38	3.6	~36	53.0	239.6	8.9	38.25	102.72	91.20	10480	10728	53950
		Average	**2.6**				8.2						
		Target	1.6										

STN **5**

Water Height (cm)	Before	After
Core A	**12.0**	**8.6**
Core B	**11.5**	**8.1**

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/ h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**
A1	24/08/2017	16:45	3.5	~32	52.5	4.0	12.0	1.39	1.39	91.54	10475	10612	54058
A2	25/08/2017	01:10	3.8	~32	52.0	12.4	11.3	3.09	4.48	91.41	10507	10676	53937
A3	25/08/2017	16:31	3.0	~32	49.5	27.8	10.7	5.99	10.48	91.59	10497	10604	54131
A4	27/08/2017	08:05	4.2	~32	51.0	67.3	10.0	16.42	26.90	91.45	10522	10615	54062
A5	29/08/2017	10:54	3.7	~32	51.0	118.2	9.4	22.55	49.45	91.27	10507	10622	54014
		Average	**3.6**										
		Target	1.6										

ID	**Date**	**Time**	**Temp**	**Stir**	**Volume**	**total time**	**height**	**delta t/ h**	**sum of t/h**	**Sr**	**K**	**Ca**	**Mg**
			(ºC)	**(rpm)**	**(mL)**	**(h)**	**(cm)**	**(day/m)**	**(day/m)**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**	**(µmol L^{-1})**
B1	24/08/2017	16:50	2.7	~32	52.0	4.1	11.5	1.48	1.48	91.66	10526	10644	54045
B2	25/08/2017	01:02	4.5	~32	52.5	12.3	10.8	3.15	4.63	91.53	10529	10688	53984
B3	25/08/2017	16:37	3.9	~32	50.5	27.9	10.2	6.39	11.02	91.72	10476	10618	54121
B4	27/08/2017	08:12	4.2	~32	49.0	67.5	9.5	17.31	28.33	91.44	10521	10668	53941
B5	29/08/2017	10:59	3.7	~32	49.0	118.2	8.8	23.94	52.27	91.54	10491	10645	54084
		Average	**3.8**										
		Target	1.6										