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*Supplement of*

**Biogeochemical implications of comparative growth rates of *Emiliana huxleyi* and *Coccolithus* species**

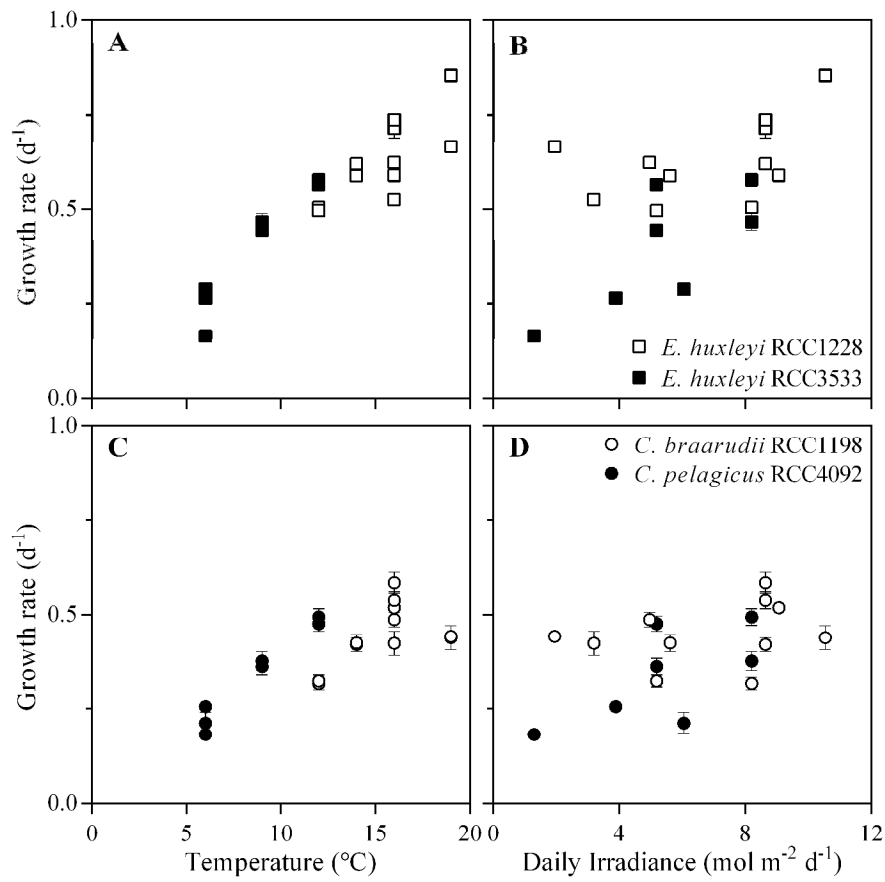
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**Supplementary Table S1:** Sample locations and the abundances of *Emiliana huxleyi*, *Coccolithus pelagicus* and other coccolithophore species, collected from the three cruises in 2010.

Cruise	Latitude (°N)	Longitude (°W)	Coccolithophore abundance (cells mL <sup>-1</sup> )		
			<i>E. huxleyi</i>	<i>C. pelagicus</i>	Others
D350 (26/4 – 9/5)	59.01	24.20	68.5	0.4	175.4
	60.97	34.95	153.0	25.7	16.1
	60.02	34.96	171.3	13.5	85.4
	60.00	31.99	585.5	22.7	250.2
	59.99	29.00	983.7	74.1	135.6
	59.94	26.12	390.4	8.7	67.2
	60.85	21.75	178.7	9.3	6.8
	62.00	20.00	936.3	32.0	196.4
	63.13	19.92	701.8	59.9	97.1
D351 (10/5 – 28/5)	62.67	19.69	166.4	5.3	27.7
	61.25	20.00	48.6	1.8	83.4
	60.50	20.00	22.9	1.3	87.9
	59.40	18.42	101.4	2.1	65.1
	58.95	17.19	307.7	1.4	71.4
	57.95	15.58	13.4	20.4	56.3
	57.51	12.25	22.8	1.6	22.8
	57.15	9.70	11.7	0.1	5.2
	56.76	7.83	2.4	0.3	0.6
	56.67	6.13	0	0	0.0
D354 (4/7 – 11/8)	60.00	19.99	6.5	0	0.5
	61.82	21.02	20.0	2.7	20.0
	60.01	19.98	25.8	1.8	21.4
	59.99	23.63	27.9	0	18.3
	60.01	28.14	15.2	0	54.2
	59.98	41.36	28.5	6.2	130.9
	60.00	42.67	5.9	0.5	16.0
	62.99	35.00	16.0	12.8	156.1
	63.00	35.00	17.7	7.8	189.5
	63.00	29.98	5.3	1.3	249.9
	60.87	31.53	4.1	1.4	266.8
	59.24	34.97	4.3	1.1	86.6
	58.14	34.98	5.3	4.3	100.5
	63.82	35.04	11.8	1.1	182.8
	63.82	35.09	12.5	0	160.2
	62.48	28.36	0	0	27.8
63.43	23.59	5.3	0	116.5	
62.14	24.35	6.4	0	128.3	

Supplementary Fig. S1



**Fig. S1:** Growth rates of A,B) *Emiliana huxleyi* RCC1228 and RCC3533, and C,D) *Coccolithus pelagicus* RCC4092 and *Coccolithus braarudii* RCC1198, against A,C) temperature and B,D) daily irradiance. Error bars are ± 1 standard deviation.