Biogeosciences

Supplement of

The effect of salinity on the biogeochemistry of the coccolithophores with implications for coccolith-based isotopic proxies

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Specific division rates vs salinity (Fig. 2)		Linear fit		Second-order polynomial fit	
		r^2	p-value	r^2	p-value
RCC1314	*G. oceanica*	0.84	0.0002	0.93	8.09E-06
RCC4032	G. ericsonii	0.0018	0.90548	0.45	0.0036141
RCC1212	*E. huxleyi* B	0.39	0.029963	0.87	8.09E-06
RCC1256	*E. huxleyi* A	0.002	0.87619	0.91	8.09E-06

Cell size vs salinity (Fig. 3)		Linear fit		Second-order polynomial fit	
		r^2	p-value	r^2	p-value
RCC1314	*G. oceanica*	0.8054	0.00043	0.86	0.00011
RCC4032	G. ericsonii	0.82254	0.00029	0.95	0.01105
RCC1212	*E. huxleyi* B	0.026086	0.61603	0.03	0.00011
RCC1256	*E. huxleyi* A	0.1565	0.20305	0.81	0.00011

Oxygen isotope composition vs salinity (Fig. 5)		Linear fit		Second-order polynomial fit	
		r^2	p-value	r^2	p-value
RCC1314	*G. oceanica*	0.14324	0.28084	0.57	0.01153
RCC4032	G. ericsonii	0.51126	0.03037	0.53	0.06904
RCC1212	*E. huxleyi* B	3.55E-05	0.98613	0.32	0.01349
RCC1256	*E. huxleyi* A	0.0006052	0.94991	0.006	0.01153

Carbon isotope composition vs salinity (Fig.6)		Linear fit		Second-order polynomial fit	
		r^2	p-value	r^2	p-value
RCC1314	*G. oceanica*	0.32566	0.08492	0.68	0.00343
RCC4032	G. ericsonii	0.025911	0.67908	0.91	0.07549
RCC1212	*E. huxleyi* B	0.65176	0.00150	0.72	0.00343
RCC1256	*E. huxleyi* A	0.1212	0.32423	0.12	0.00343

Table S1: Goodness of fit of the regression between the various measured parameters and salinity.