Table S5. Assignments of the samples to the various categories used to test for significant trends (see Fig. 1 and Table 1).

		Analysis Factor					
Sample#	Date	lce Extent	Geography	Year	Season	PAR ^a	Chl <i>a</i> Distribution ^b
1	Oct.2003	<2007	Open Ocean	2003	Fall	Low	Shared
2	Nov.2003	<2007	Franklin Bay	2003	Fall	Low	Shared
3	July 2004	<2007	Franklin Bay	2004	Summer	Med	Shared
4	Aug.2004	<2007	Franklin Bay	2004	Summer	High	Nano
5	Sep.2005	<2007	Open Ocean	2005	Summer	High	Nano
6	Oct.2006	<2007	Open Ocean	2006	Fall	Med	Nano
7	Nov.2007	>2007	Open Ocean	2007	Fall	Low	Nano
8	July 2008	>2007	Open Ocean	2008	Summer	Med	Pico
9	Aug.2009	>2007	Open Ocean	2009	Summer	High	Pico
10	Oct.2009	>2007	Open Ocean	2009	Fall	Low	Pico
11	Oct.2010	>2007	Open Ocean	2010	Fall	Low	Nano

^a Low-light was considered as <0.1 μ E m⁻² s⁻¹, medium-light as 0.1-1.0 μ E m⁻² s⁻¹ and high-light as >1.0 μ E m⁻² s⁻¹ PAR (Photosynthetically-Active Radiation) as measured at the depth sampled (see Fig.1). ^b The percent distribution of Chlorophyll *a* in the small (<3 μ m) vs. large (>3 μ m) fractions was taken as a proxy for successional stage. Communities were binned as >60% (Nano-dominated), 40-60% (shared), or <40% (Pico-dominated) in the large fraction as measured at the depth sampled (see Fig.1).