

Electronic supplementary material

Online Resource 2 The effects of ice breakup week (IBW), bloom start day (BSD) and average surface chlorophyll *a* concentration from 1 April to 31 August (Chl *a*) on ln mean epipelagic zooplankton backscatter in (a) August (n = 40) and (b) September (n = 23) from linear or logarithmic mixed-effects models. SE: standard error; df: degree of freedom; *P*: p-value; SD: standard deviation

(a)

Effects	Variable	Estimate	SE	df	t-value	<i>P</i>	Variance	SD
Fixed	IBW	-0.170	0.040	30	-4.221	< 0.001	-	-
	Intercept	5.788	1.124	30	5.152	< 0.001	-	-
Mixed	Region	-	-	-	-	-	0.353	0.594
	Residuals	-	-	-	-	-	0.907	0.953
Fixed	BSD	-0.015	0.006	30	-2.622	0.014	-	-
	Intercept	3.942	1.100	30	3.585	0.001	-	-
Mixed	Region	-	-	-	-	-	0.128	0.357
	Residuals	-	-	-	-	-	0.883	0.940
Fixed	ln(Chl <i>a</i>)	0.453	0.490	30	0.924	0.363	-	-
	Intercept	1.341	0.384	30	3.488	0.002	-	-
Mixed	Region	-	-	-	-	-	0.714	0.845
	Residuals	-	-	-	-	-	0.923	0.961

(b)

Effects	Variable	Estimate	SE	df	t-value	<i>P</i>	Variance	SD
Fixed	IBW	-0.098	0.046	13	-2.146	0.051	-	-
	Intercept	4.221	1.250	13	3.376	0.005	-	-
Mixed	Region	-	-	-	-	-	0.276	0.525
	Residuals	-	-	-	-	-	0.504	0.710
Fixed	BSD	-0.011	0.006	13	-1.808	0.094	-	-
	Intercept	3.577	1.129	13	3.169	0.007	-	-
Mixed	Region	-	-	-	-	-	0.338	0.581
	Residuals	-	-	-	-	-	0.509	0.713
Fixed	ln(Chl <i>a</i>)	0.327	0.509	13	0.645	0.530	-	-
	Intercept	1.757	0.379	13	4.634	0.001	-	-
Mixed	Region	-	-	-	-	-	0.437	0.661
	Residuals	-	-	-	-	-	0.553	0.744

Pelagic production and the recruitment of juvenile polar cod *Boreogadus saida* in Canadian Arctic Seas – *Polar Biology*

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