

Electronic supplementary material

Online Resource 3 The effects of ice breakup week (IBW) and mean epipelagic zooplankton backscatter (Zoo) on ln mean epipelagic age-0 polar cod biomass 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	-0.254	0.051	30	-4.953	< 0.001	-	-
	Intercept	10.684	1.429	30	7.476	< 0.001	-	-
Mixed	Region	-	-	-	-	-	0.260	0.509
	Residuals	-	-	-	-	-	1.328	1.153
Fixed	ln(Zoo)	0.762	0.178	30	4.288	< 0.001	-	-
	Intercept	2.861	0.331	30	8.651	< 0.001	-	-
Mixed	Region	-	-	-	-	-	0.284	0.533
	Residuals	-	-	-	-	-	1.479	1.216

(b)

Effects	Variable	Estimate	SE	df	t-value	<i>P</i>	Variance	SD
Fixed	IBW	-0.158	0.048	13	-3.268	0.006	-	-
	Intercept	9.333	1.304	13	7.160	< 0.001	-	-
Mixed	Region	-	-	-	-	-	0.000	0.000
	Residuals	-	-	-	-	-	0.929	0.964
Fixed	ln(Zoo)	0.579	0.232	13	2.493	0.027	-	-
	Intercept	4.212	0.425	13	9.904	< 0.001	-	-
Mixed	Region	-	-	-	-	-	0.000	0.000
	Residuals	-	-	-	-	-	1.081	1.040

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

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