Supplement 3 Models compared to estimate seal behavioral state (resident or transiting) based on habitat covariates described in Table 1 of manuscript. All model also included the random effects of year and seal within year, as well as a first-order autocorrelation parameter.

Model	AIC	weight	Marginal R^2
Dist_land × Season + Depth × Season + ICE^2 × Season + Dist_edge × Season × ICEcat	13467.03	0.48	0.006
Dist_land × Season + Depth × Season + ICE × Season + Dist_edge × Season × ICEcat	13469.12	0.17	0.005
Depth × Season + ICE^2 × Season + Dist_edge × Season × ICEcat – Depth – ICEcat	13469.17	0.16	0.005
Dist_land + Depth × Season + ICE^2 × Season + Dist_edge × Season × ICEcat – Depth – ICEcat	13470.23	0.09	0.005
Dist_land × Season + Depth × Season + ICE × Season + ICE^2 × Season + Dist_edge × Season × ICEcat	13471.25	0.06	0.006
Depth × Season + ICE × Season + ICE^2 × Season + Dist_edge × Season × ICEcat	13473.41	0.02	0.005
Dist_land × Season + ICE^2 × Season + Dist_edge × Season × ICEcat	13483.06	0.00	0.003
Dist_land × Season + Depth + ICE^2 × Season + Dist_edge × Season × ICEcat	13483.21	0.00	0.003
Depth + ICE + ICE^2	13495.42	0.00	0.001
Depth + ICE + ICE^2 + Dist_edge × ICEcat	13496.10	0.00	0.001
Dist_land + Depth + ICE + ICE^2 + Dist_edge × ICEcat	13496.14	0.00	0.001
Depth + Dist_edge × ICEcat	13497.86	0.00	0.001
Dist_land + ICE + ICE^2 + Dist_edge × ICEcat	13497.96	0.00	0.001
Dist_edge	13498.59	0.00	0.001
Depth	13499.86	0.00	<0.001
ICE + ICE^2	13500.10	0.00	<0.001
ICE + ICE^2 + Dist_edge × ICEcat	13500.46	0.00	0.001
ICE × Season + ICE^2 × Season + Dist_edge × Season × ICEcat	13500.47	0.00	0.003
Dist_edge × Season × ICEcat	13501.62	0.00	0.002
Dist_land	13501.76	0.00	<0.001
Dist_edge × ICEcat	13502.18	0.00	<0.001
ICE	13502.27	0.00	0.001
Intercept only	13504.58	0.00	0
Season	13507.67	0.00	0.001