

**Table 1.** Models of the daily nest survival of Spectacled Eiders nesting on Kigigak Island (1994-2015, 2019) and the Arctic Coastal Plain (2010-2019). Models are ranked by the highest weight (Weight). K = Parameter count, AIC<sub>c</sub> = model fit value,  $\Delta AIC_c$  = difference in AIC<sub>c</sub> relative to the samlles AIC<sub>c</sub>, Weight = AIC<sub>c</sub> model weight, Deviance = measure of fit of the model to the data.

Model Set	Models	K	AIC <sub>c</sub>	$\Delta AIC_c$	Weight	Deviance
<b>Temporal</b>	-1 + Site:Year	33	3906.579	0.000	0.999	3840.521
	Site + Year	27	3920.534	13.954	0.0009	3866.495
	Site + Init + NestAge	4	4120.307	213.727	0.00	4112.306
	Site + Init	3	4122.377	215.797	0.00	4116.376
	Site + Init + Site*Init	4	4123.001	216.421	0.00	4115.000
	Site + NestAge	3	4146.922	240.342	0.00	4140.922
	Site + NestAge + Site*NestAge	4	4147.104	240.524	0.00	4139.103
<b>Ice Conditions</b>	Site + Win_Lo + Win_Lo <sup>2</sup> + Site*Win_Lo + Site*Win_Lo <sup>2</sup>	6	4004.197	0.000	1.000	3992.195
	Site + Win_Hi + Win_Hi <sup>2</sup> + Site*Win_Hi + Site*Win_Hi <sup>2</sup>	6	4075.284	71.086	0	4063.282
	Site + Win_Lo	3	4075.563	71.365	0.00	4069.562
	Site + Win_Lo + Win_Lo <sup>2</sup>	4	4076.839	72.641	0.00	4068.838
	Site + Win_Hi + Win_Hi <sup>2</sup>	4	4089.825	85.627	0.00	4081.824
	Site + Win_Hi	3	4095.838	91.641	0.00	4089.838
	Site + Spr_Lo + Spr_Lo <sup>2</sup> + Site*Spr_Lo + Site*Spr_Lo <sup>2</sup>	6	4108.572	104.374	0.00	4096.570
	Site + Spr_Lo + Spr_Lo <sup>2</sup>	4	4115.962	111.764	0.00	4107.961
	Site + Spr_Lo	3	4139.059	134.862	0.00	4133.059
	Site + Spr_Hi + Spr_Hi <sup>2</sup>	4	4146.510	142.312	0.00	4138.509
	Site + Spr_Hi + Spr_Hi <sup>2</sup> + Site*Spr_Hi + Site*Spr_Hi <sup>2</sup>	6	4147.197	142.999	0.00	4135.195
	Site + Spr_Hi	3	4149.437	145.239	0.00	4143.436

Model Set	Models	K	AIC <sub>c</sub>	ΔAIC <sub>c</sub>	Weight	Deviance
Temporal+Ice	-1 + Site:Year	33	3906.579	0.000	1	3840.521
	Site + Win_Lo + Win_Lo <sup>2</sup> + Site*Win_Lo + Site*Win_Lo <sup>2</sup>	6	4004.197	97.61774	0.0	3992.195