

**Appendix 3.** Logistic regression models for the combined data and data split by morning and midday.

**Table A3.1.** A comprehensive list of the univariate and bivariate models run for the combined collision risk data. AICc values are listed along with  $\Delta$ AICc scores relative to the top-performing model. Models that improved with the incorporation of an interaction term are also listed with their accompanying AICc values.

Predictors Included in Model	AICc	$\Delta_i$
Velocity at 20 frames * Time of day	82.83	0.00
Interior treatment * Time of day	84.95	2.12
Velocity at 20 frames	85.08	2.25
Null model	86.08	3.25
Velocity at 15 frames	86.18	3.35
Velocity at 5 frames	86.66	3.83
Velocity at 10 frames	86.94	4.11
Red light irradiance ratio	87.66	4.83
Average lux ratio	87.75	4.92
Interior treatment	87.94	5.11
Blue light irradiance ratio	87.94	5.11
Exterior UV irradiance	88.20	5.37
Velocity at 0 frames	88.20	5.37

**Table A3.2.** A comprehensive list of the univariate and bivariate models run for morning flights. AICc values are listed along with  $\Delta$ AICc scores relative to the top-performing model.  $\Delta$ AICc scores were used to calculate akaike weights of the most probable models which are listed along with the cumulative weight of all models included in full model-averaging.

Predictors Included in Model	AICc	$\Delta_i$	$w_i$	acc $w_i$
Velocity at 20 frames	38.93	0.00	0.78	0.78
Velocity at 15 frames	42.41	3.48	0.14	0.92
Exterior UV irradiance + Interior treatment	43.56	4.64	0.08	1.00
Blue light irradiance ratio	45.31	6.38	-	-
Velocity at 10 frames	45.59	6.67	-	-
Average lux ratio	45.82	6.89	-	-
Red light irradiance ratio	46.02	7.09	-	-
Exterior UV irradiance * Interior treatment	46.05	7.12	-	-
Exterior UV irradiance	46.09	7.16	-	-
Null	46.27	7.35	-	-
Interior treatment	46.44	7.52	-	-
Velocity at 5 frames	46.75	7.82	-	-
Velocity at 0 frames	48.53	9.61	-	-

**Table A3.3.** A comprehensive list of the univariate and bivariate models run for midday flights. AICc values are listed along with  $\Delta$ AICc scores relative to the top-performing model.  $\Delta$ AICc scores were used to calculate akaike weights of the most probable models which are listed along with the cumulative weight of all models included in full model-averaging.

Predictors Included in Model	AICc	$\Delta_i$	$w_i$	acc $w_i$
Interior treatment	38.65	0.00	0.63	0.63
Exterior UV irradiance + Interior treatment	39.69	1.04	0.37	1.00
Null	41.88	3.23	-	-
Exterior UV irradiance * Interior treatment	42.26	3.61	-	-
Velocity at 15 frames	44.00	5.35	-	-
Velocity at 20 frames	44.05	5.40	-	-
Velocity at 5 frames	44.05	5.40	-	-
Blue light irradiance ratio	44.11	5.46	-	-
Velocity at 0 frames	44.12	5.47	-	-
Exterior UV irradiance	44.13	5.48	-	-
Velocity at 10 frames	44.14	5.49	-	-
Average lux ratio	44.15	5.50	-	-
Red light irradiance ratio	44.16	5.51	-	-