

An evaluation of transmitter effects on adult and juvenile Common Terns using leg-loop harness attachments – APPENDIX 3 – Juvenile Growth

Table A3.1. Candidate models for the mass growth of Common Tern juveniles up to 30 days old. Modeling was performed using a generalized additive mixed model. “+” indicates that a variable was included in the model.

Intercept	BirdType	Sex	s(AgeAtEncounter, bs = "cr")	s(AgeAtEncounter, by = BirdType, bs = "cr")	s(AgeAtEncounter, by = Sex, bs = "cr")	df	log- likelihood	AICc	ΔAICc	AICc weight
57.426	-	-	+	-	-	7	-3177.25	6368.632	0	0.809
57.214	-	-	+	-	+	11	-3175.37	6373.038	4.407	0.089
58.835	+	+	+	-	-	11	-3176.24	6374.771	6.139	0.038
57.741	-	+	+	+	-	13	-3174.23	6374.873	6.241	0.036
58.72	+	-	+	-	+	13	-3174.77	6375.962	7.33	0.021
58.457	+	+	+	+	-	15	-3174.04	6378.625	9.993	0.005
58.903	+	-	+	+	+	17	-3173.7	6382.09	13.458	0.001
57.745	-	+	+	+	+	17	-3173.88	6382.465	13.833	0.001
58.701	+	+	+	+	+	19	-3173.67	6386.217	17.585	0
57.053	-	-	+	+	-	11	-3223.59	6469.472	100.84	0
58.376	-	+	+	-	-	9	-3226.84	6471.891	103.26	0
58.533	+	-	+	+	-	13	-3222.84	6472.101	103.469	0
58.891	+	-	+	-	-	9	-3226.98	6472.158	103.526	0
57.914	-	+	+	-	+	13	-3223.35	6473.12	104.488	0
57.066	-	-	+	+	+	15	-3222.55	6475.655	107.023	0
58.074	+	+	+	-	+	15	-3223.31	6477.168	108.536	0
67.24	+	+	-	+	+	17	-3279.25	6593.194	224.562	0
66.302	-	+	-	+	+	15	-3349.04	6728.626	359.994	0
65.573	+	-	-	+	+	15	-3375.28	6781.113	412.481	0
57.474	-	-	-	+	+	13	-3386.39	6799.191	430.559	0
57.73	-	-	-	-	+	9	-3414.33	6846.862	478.23	0
68.4	-	+	-	-	+	11	-3449.95	6922.203	553.571	0
68.939	+	+	-	-	+	13	-3449.79	6925.983	557.351	0
63.166	-	+	-	+	-	11	-3480.89	6984.076	615.444	0
64.682	+	-	-	-	+	11	-3496.69	7015.687	647.055	0
72.684	+	-	-	+	-	11	-3585.78	7193.865	825.233	0

77.941	+	+	-	+	-	13	-3684.96	7396.333	1027.701	0
68.524	+	-	-	-	-	7	-4425.09	8864.297	2495.665	0
64.649	-	+	-	-	-	7	-4425.75	8865.633	2497.001	0
69.086	+	+	-	-	-	9	-4423.76	8865.726	2497.094	0
48.69	-	-	-	-	-	5	-4450.74	8911.552	2542.92	0

Figure A3.1 Fitted values (\pm se) for the top generalized additive mixed model for the mass growth of Common Tern juveniles up to 30 days old. Juvenile category, i.e., juveniles fitted with transmitters (treatment), untransmitted controls, and equivalent reference juveniles in the natal colonies, was not included as a covariate in the top model.

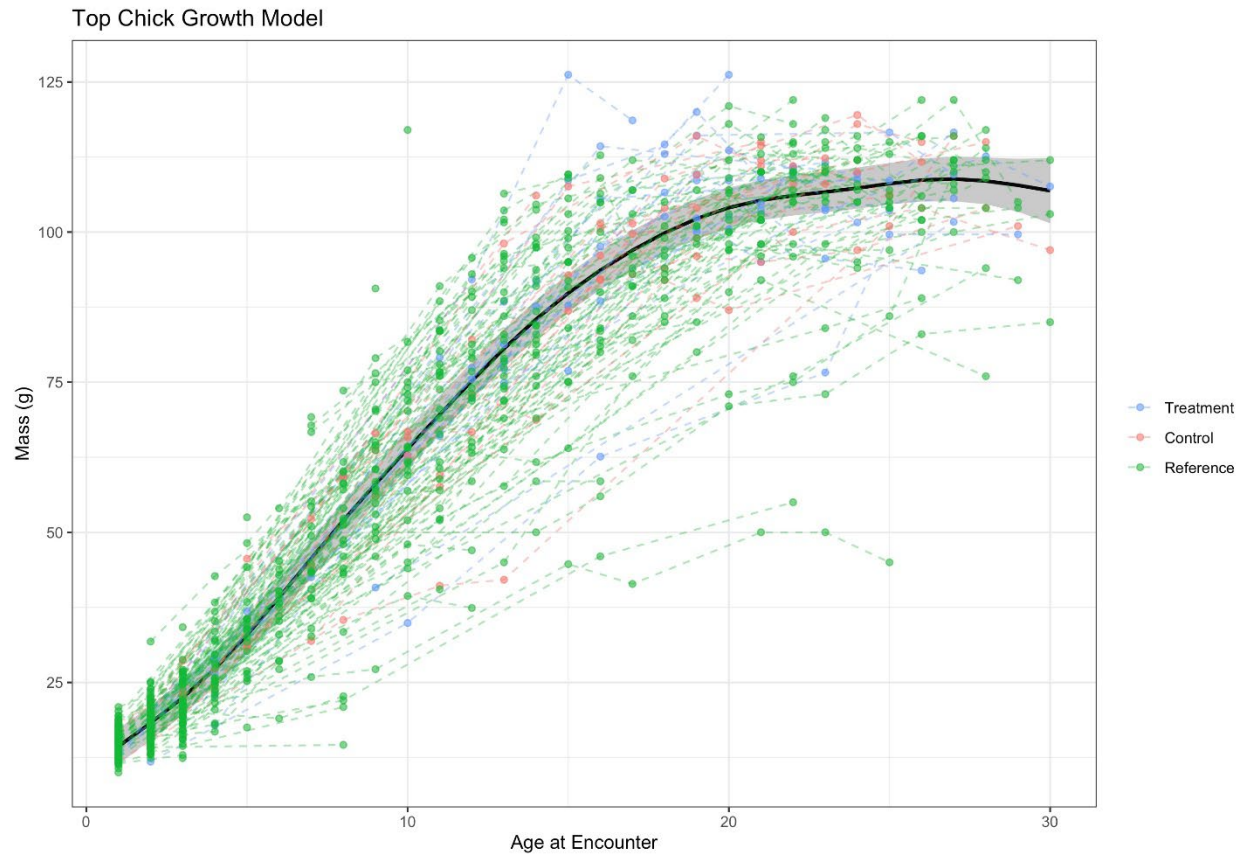


Figure A3.2 Fitted values (\pm se) for the top generalized additive mixed model that includes an effect of BirdType (i.e., any effect of receiving a transmitter) for the mass growth of Common Tern juveniles up to 30 days old. Sex is set to Male (reference group); sex was not included in any interactions in this model. BirdType was not included as a covariate in the top model (Δ AIC = 6.139); the most parsimonious model that included this variable is presented here to demonstrate the lack of effect.

