

Biomass by Nest Size

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Biomass per capita calculated as insect biomass over total number of adult females

Checking AICs of two models

Biomass per adult female = nest size + (1|ColonyID) + (1|Date)

AIC: 72.30014

Biomass per adult female = nest size + nest size squared + (1|ColonyID) + (1|Date)

AIC: 74.18827

Testing full against reduced model

Model without square value has the lowest AIC

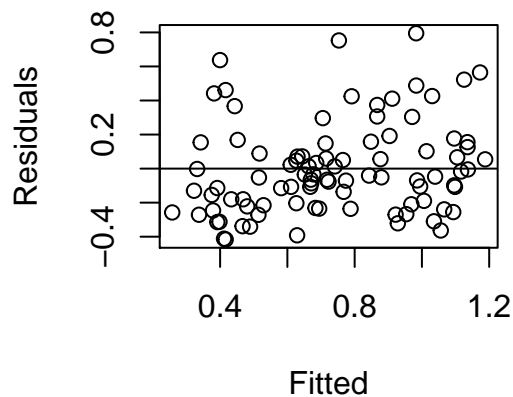
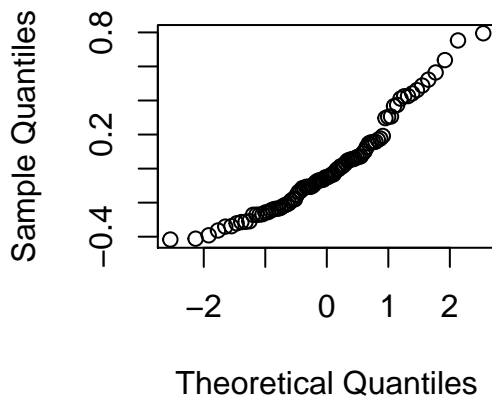
Table 1: Lowest AIC model Against Reduced Model $p < 0.05$ SIGNIFICANT *

	Df	AIC	BIC	logLik	deviance	Chisq	Chi Df	Pr(>Chisq)
..1	4	76.162	86.205	-34.081	68.162			
object	5	72.300	84.854	-31.150	62.300	5.862	1	0.015

Full: log10AdFm + (1 | ColonyID) + (1 | Date) vs. Reduced: (1 | ColonyID) + (1 | Date)

Checking full model fit

BiomsPerAdFm = logOAdFm + ColonyID + Date



Graph of biomass against nest size

