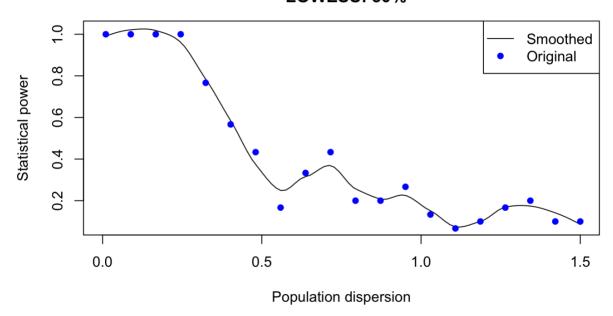
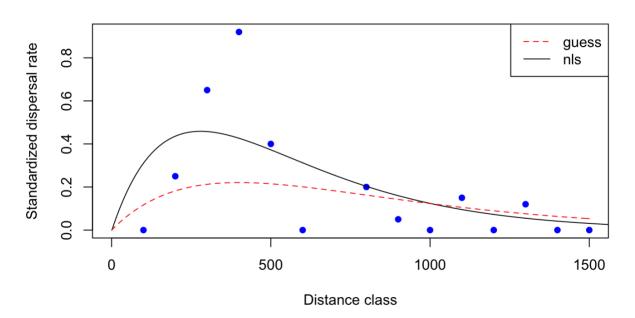
Lab 12 Feipeng Huang Q1

Population Dispersion/Power Simulation LOWESS: 30%



Q2

Plot of Marbled Salamander - first time breeders



> AIC(fit_GCKI_slope)

[1] 1432.615

> AIC(fit_GCKI_ba_tot)

[1] 1369.379

> AIC(fit_GCKI_both_additive)

[1] 1355.951

> AIC(fit_GCKI_both_interactive)

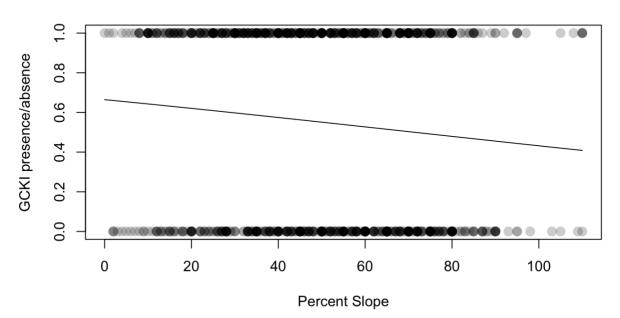
[1] 1353.007

Q4 I will choose the interactive model (fit_GCKI_both_interactive) because it has the lowest AIC value.

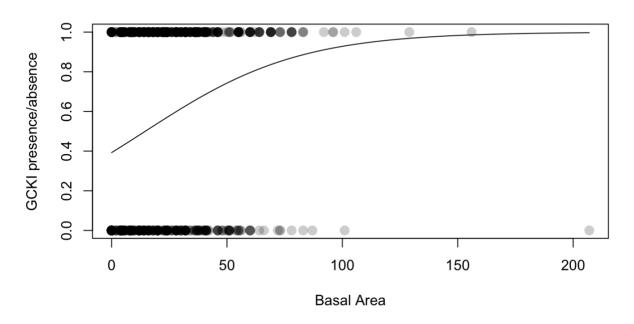
Q5 Total basal area has a significant positive impact on the Golden-crowned Kinglet presence. The interaction between slope and total basal area has a significant negative impact on the Golden-crowned Kinglet presence. The negative impact of slope on the Golden-crowned Kinglet presence is not significant.

Q6

GCKI Slope Model Plot



GCKI Basal Area Model Plot



Q7



Percent Slope 0 50 40 60 80 100 0 50 100 150 200 Total Basal Area

Interactive

