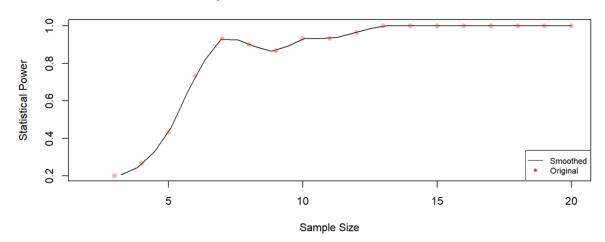
Julian Burgoff

12/16/2022

Analysis of Environmental Data

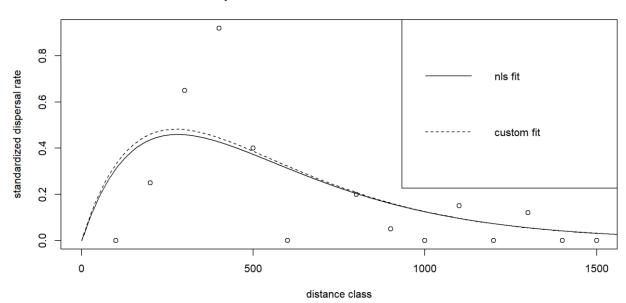
Lab 12

Sample Size/Power Simulation LOWESS: 30%



1.

Julian's plot of marbled salamander first time breeders

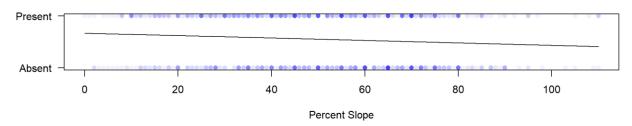


2.

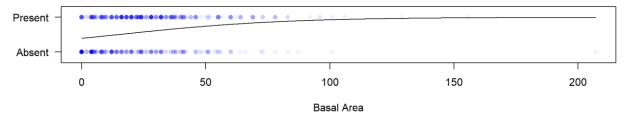
3. df AIC fit_GCKI_ba_tot 2 1369.379 fit_GCKI_slope 2 1432.615 fit_GCKI_both_additive 3 1355.951 fit_GCKI_both_interactive 4 1353.007

- 4. I would choose the interactive model because it has the lowest AIC
- 5. There is an insignificant negative relationship between GCKI presence and slope. There is a significant positive relationship between GCKI presence and basal area. There is a (barely) significant negative relationship between GCKI and the interactive effects of slope and basal area.

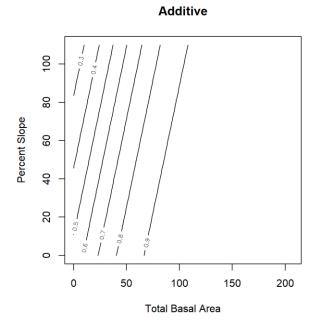
GCKI Presence/Absence vs Percent Slope

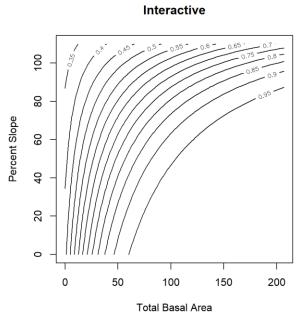


GCKI Presence/Absence vs Basal Area



6.





7.