Lab 12

Feipeng Huang

Q1

Chart, line chart

Description automatically generated

Q2

Chart, line chart

Description automatically generated

Q3

> 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

Chart

Description automatically generated

Chart

Description automatically generated

Q7

Chart, histogram

Description automatically generated