

GAM Assumption Checks

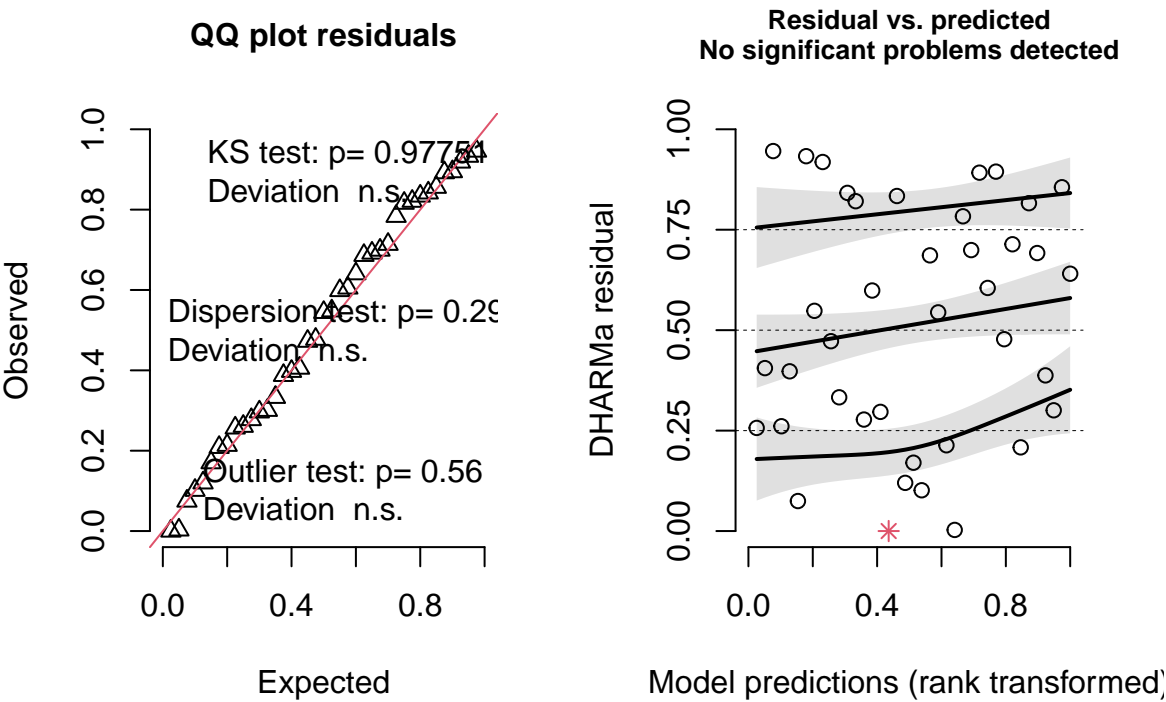
Michael W Belitz

2024-03-16

Pooled Macro-moth checks

First negative binomial distributions

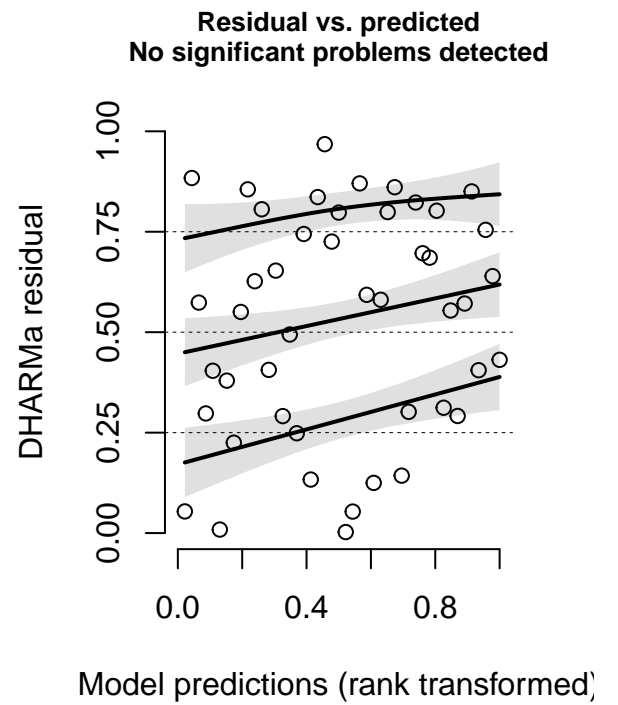
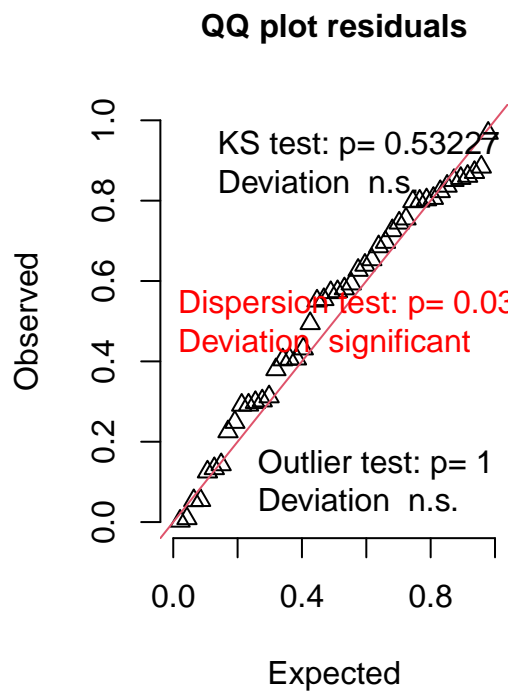
DHARMA residual



Site: AUCA

NULL

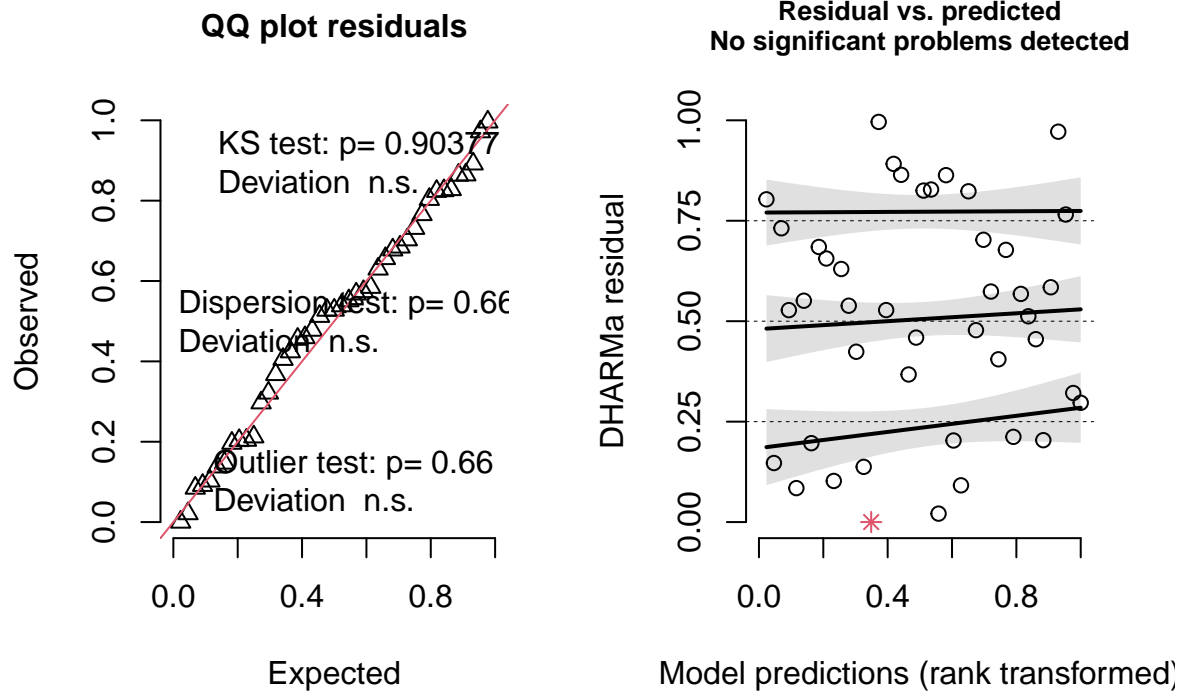
DHARMA residual



Site: PRCR

NULL

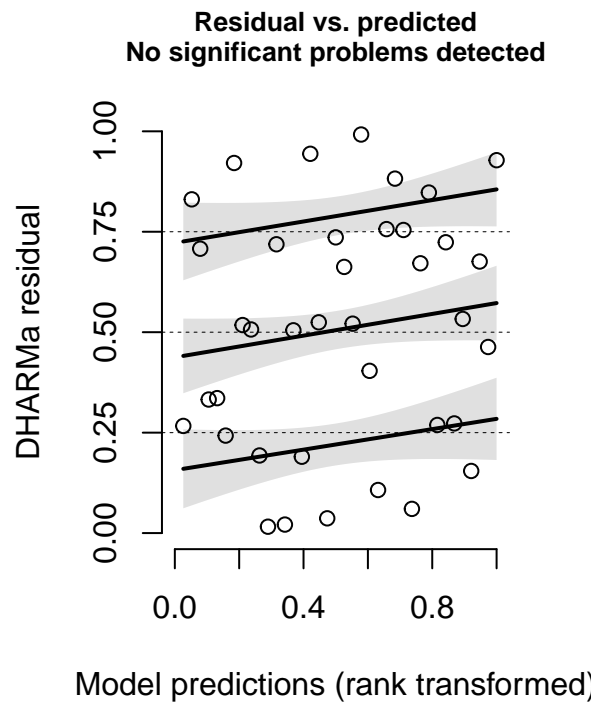
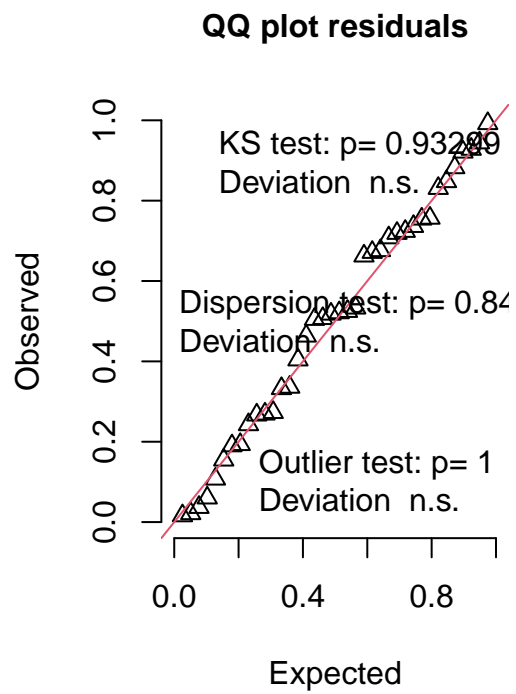
DHARMA residual



Site: Rist

NULL

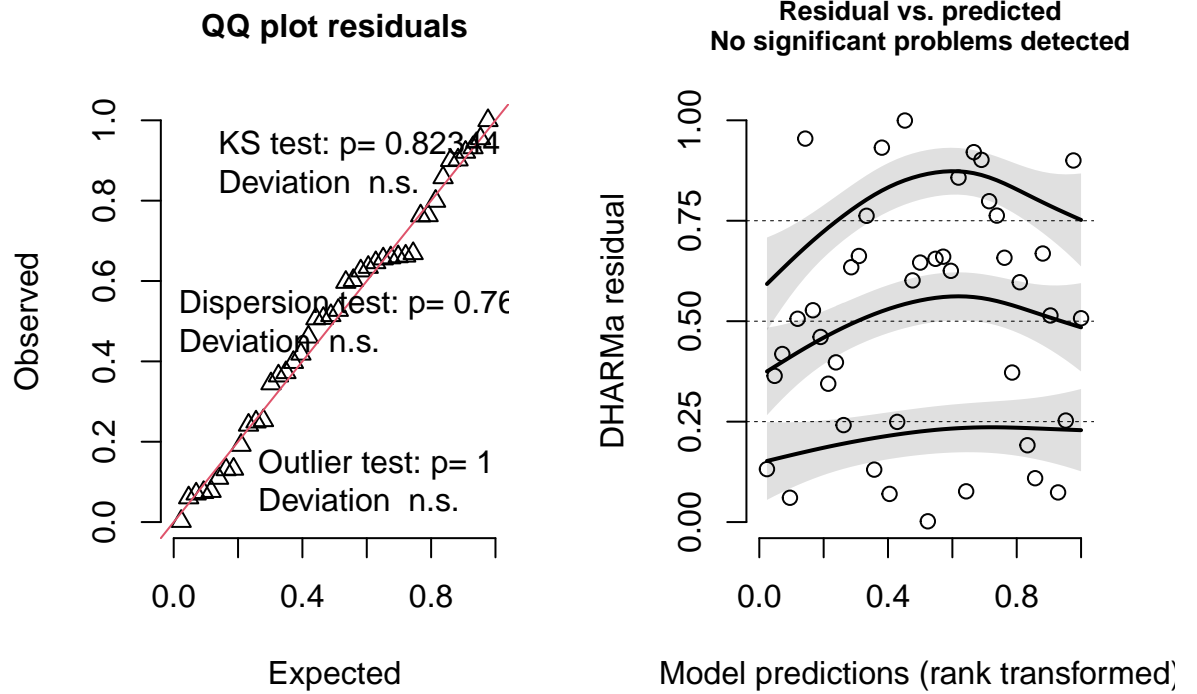
DHARMA residual



Site: Demi

NULL

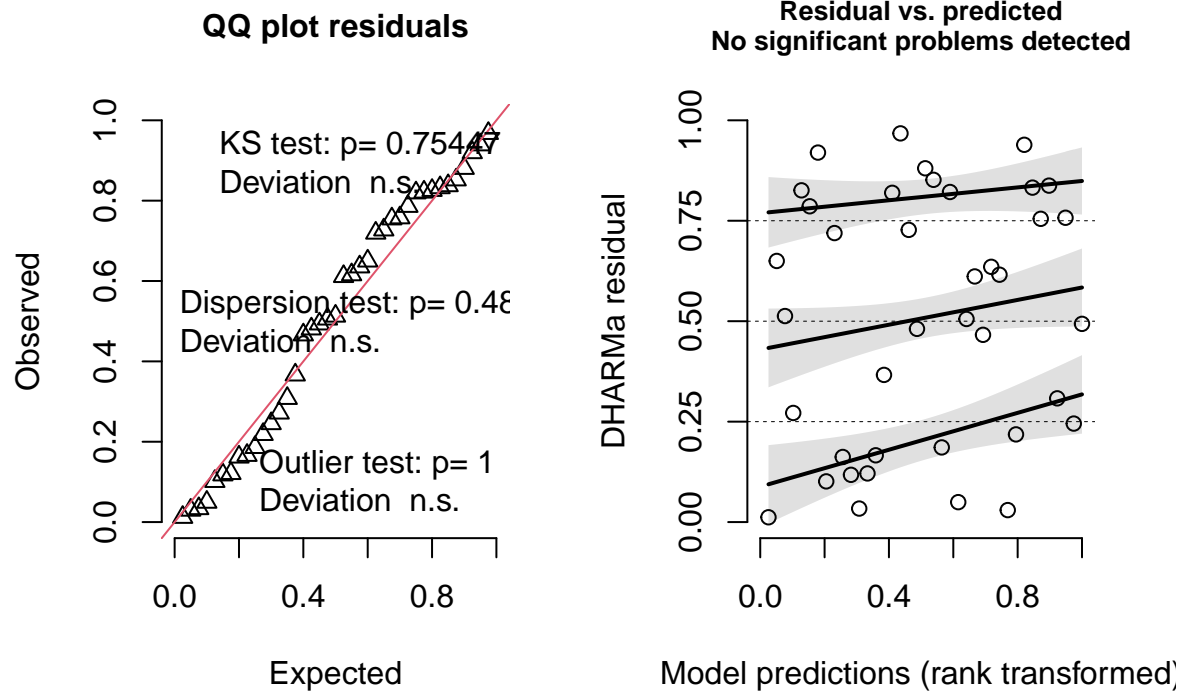
DHARMA residual



Site: Bowa

NULL

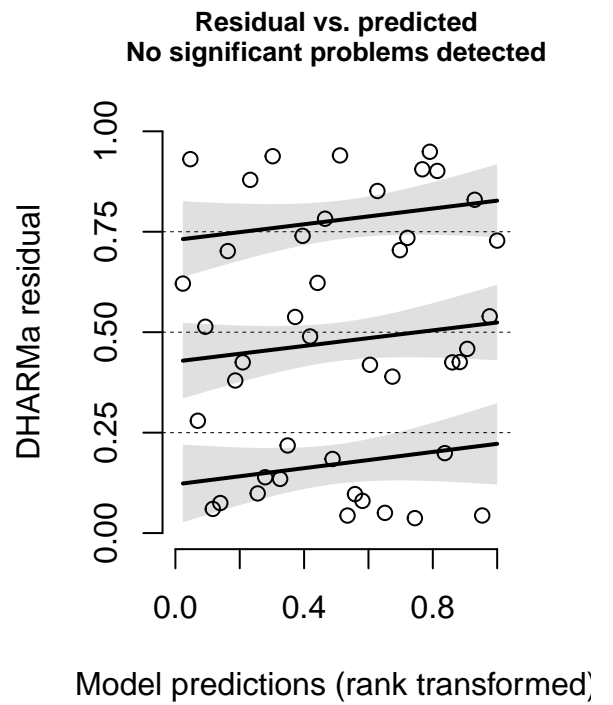
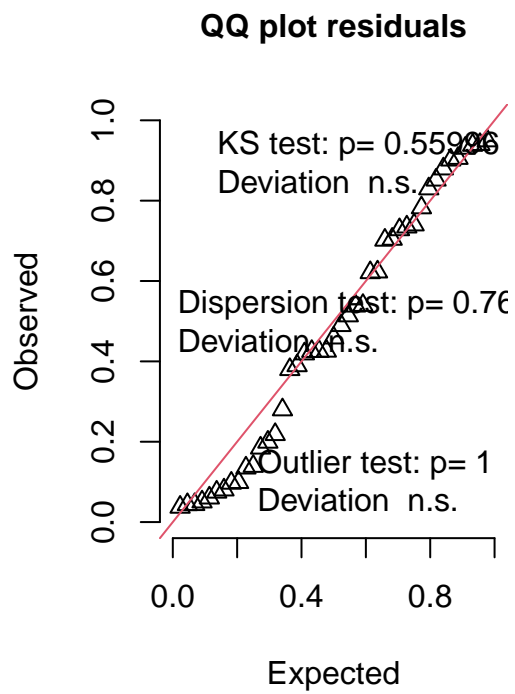
DHARMa residual



Site: Biva

NULL

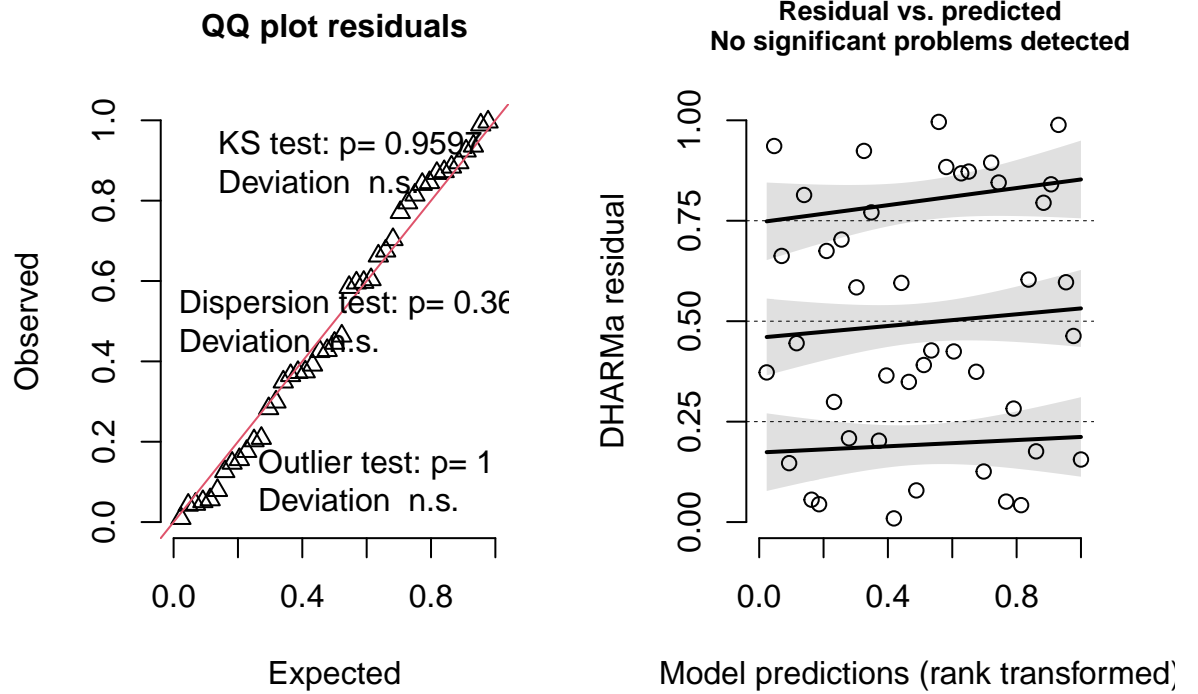
DHARMa residual



Site: Baca

NULL

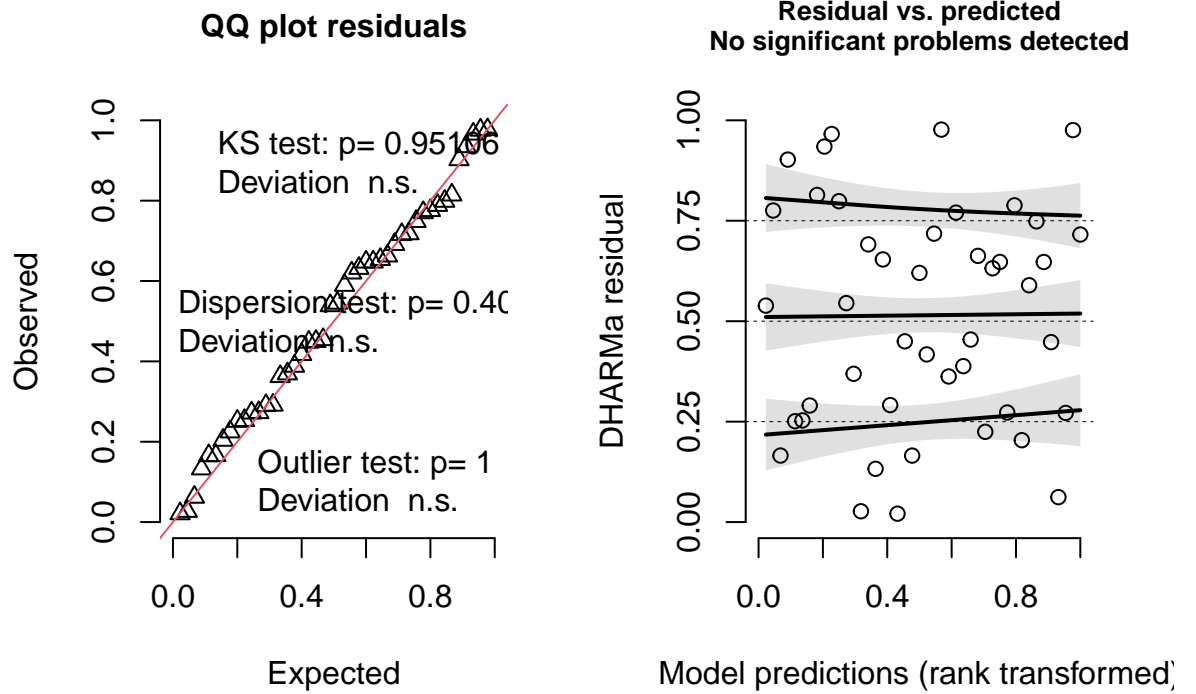
DHARMa residual



Site: Cofr

NULL

DHARMA residual

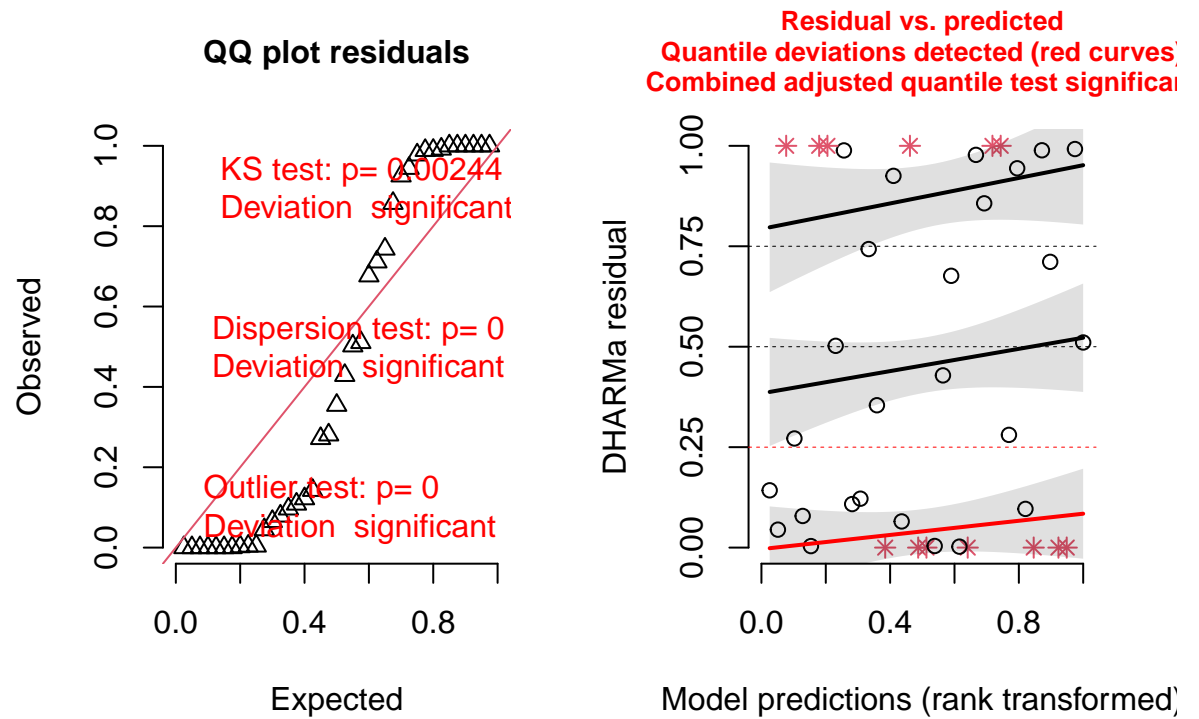


Site: Joma

NULL

Now fit using poisson

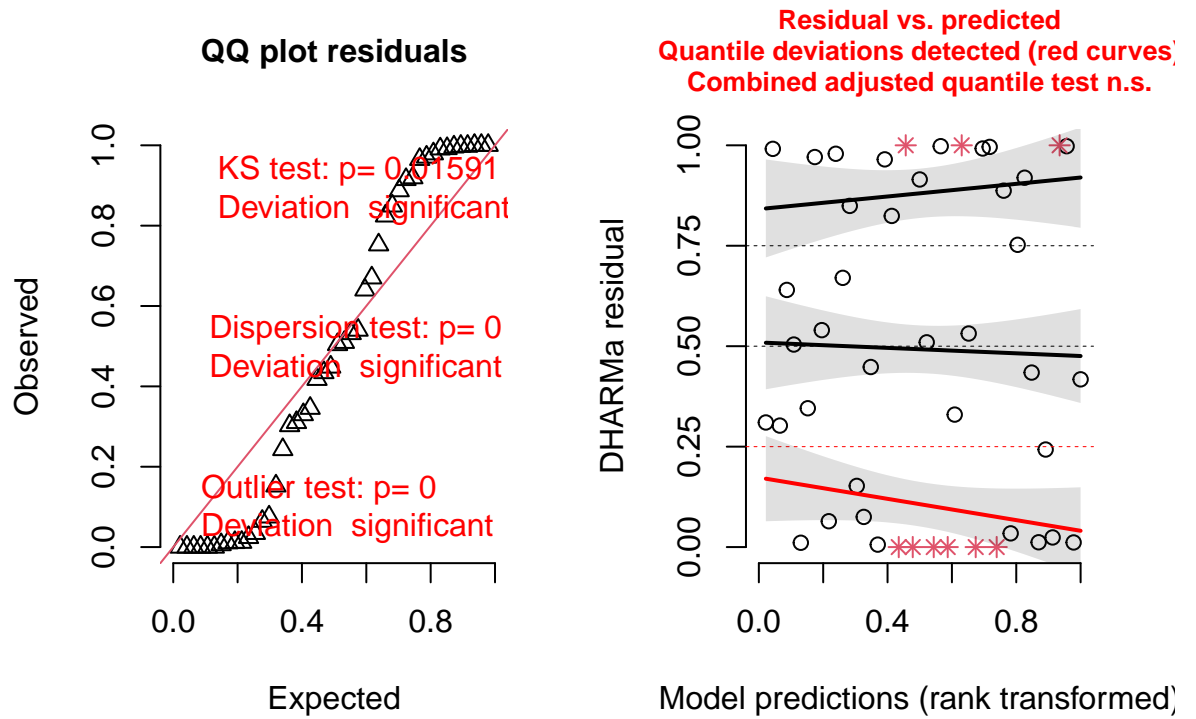
DHARMA residual



Site: AUCA

NULL

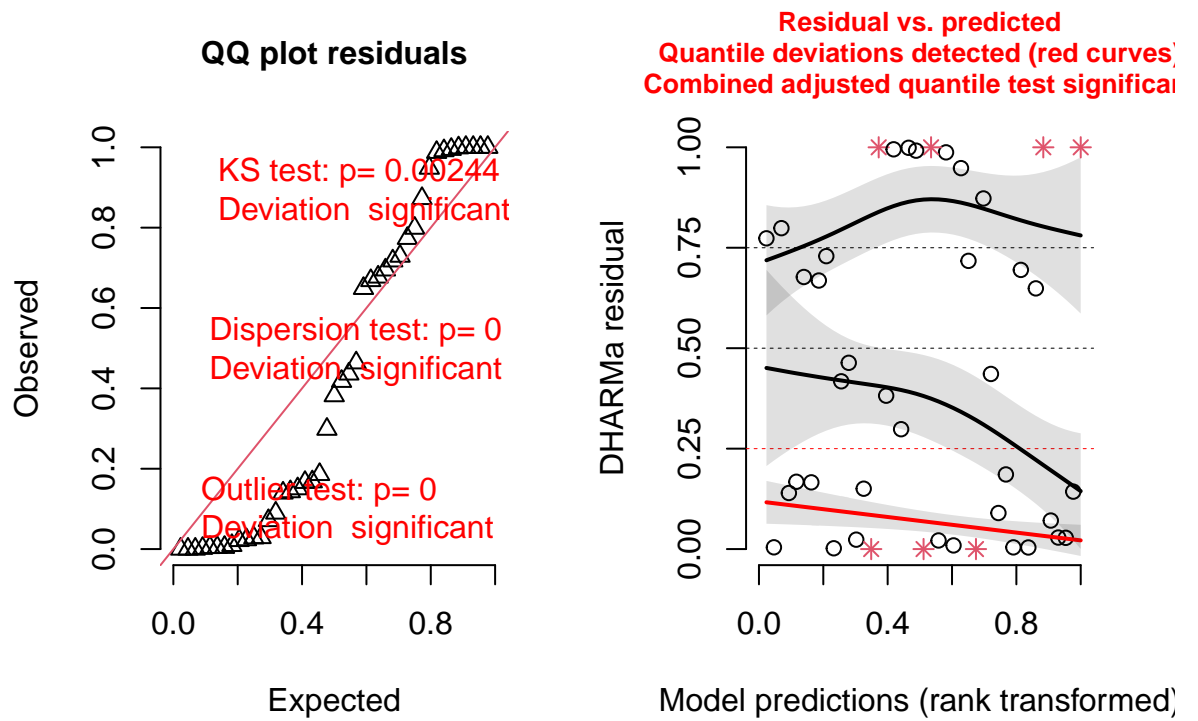
DHARMA residual



Site: PRCR

NULL

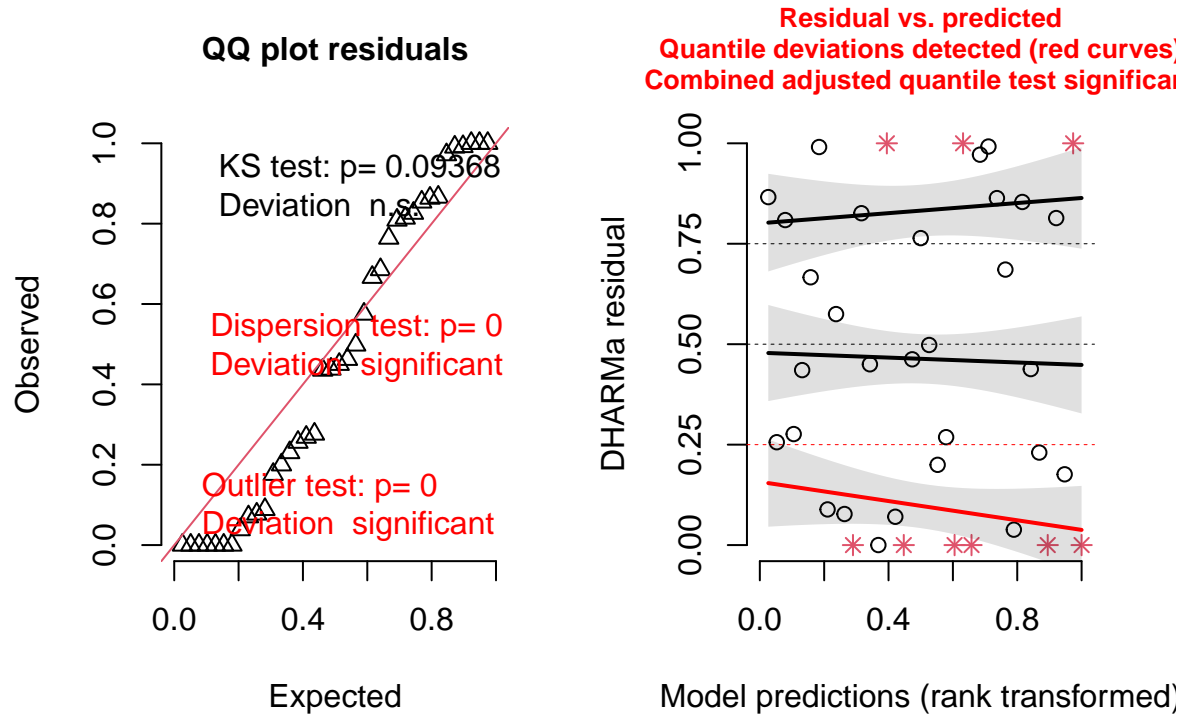
DHARMa residual



Site: Rist

NULL

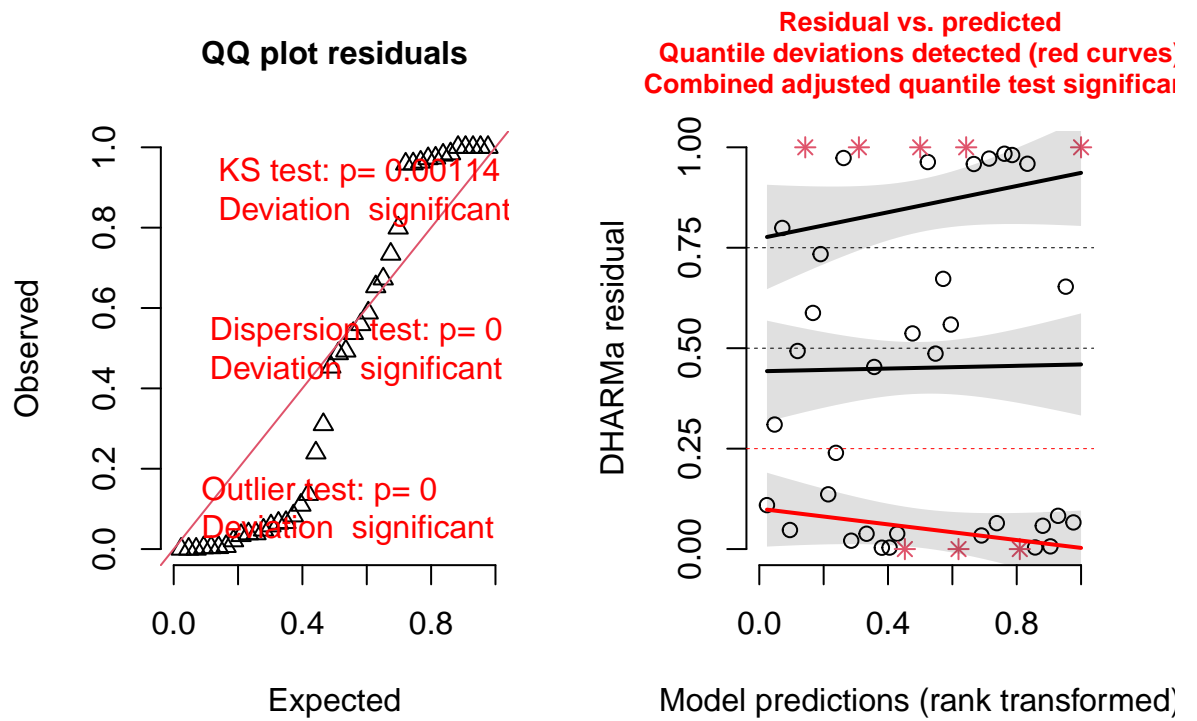
DHARMa residual



Site: Demi

NULL

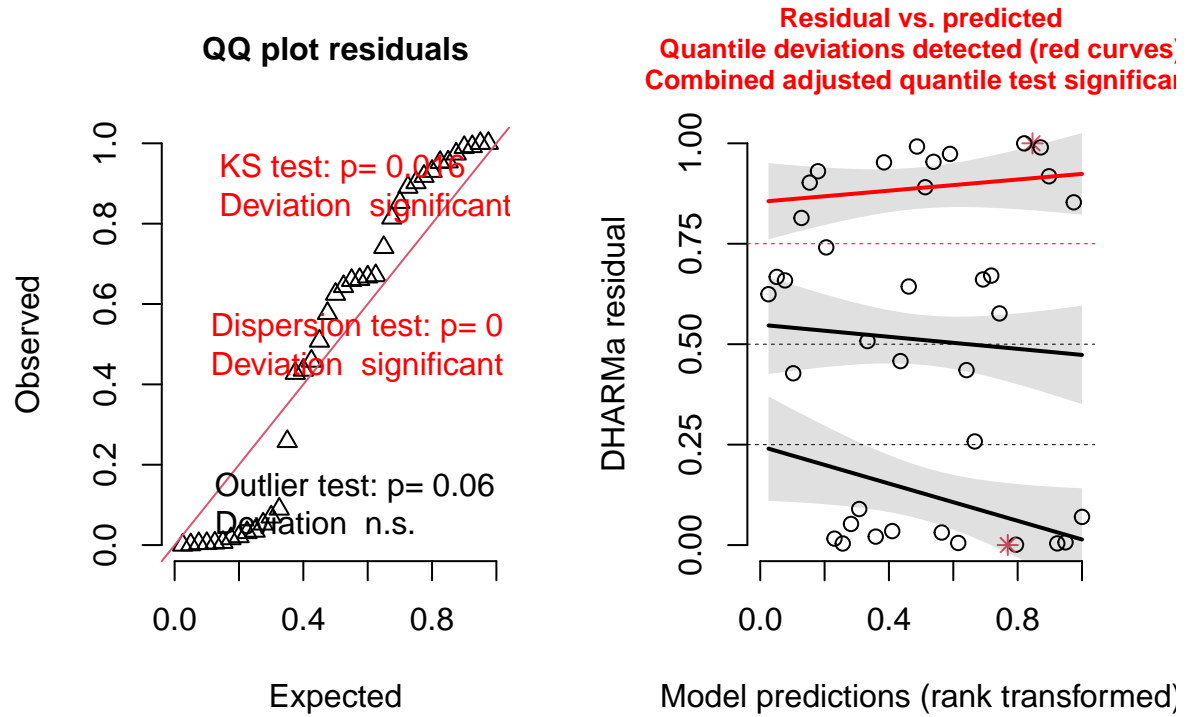
DHARMA residual



Site: Bowa

NULL

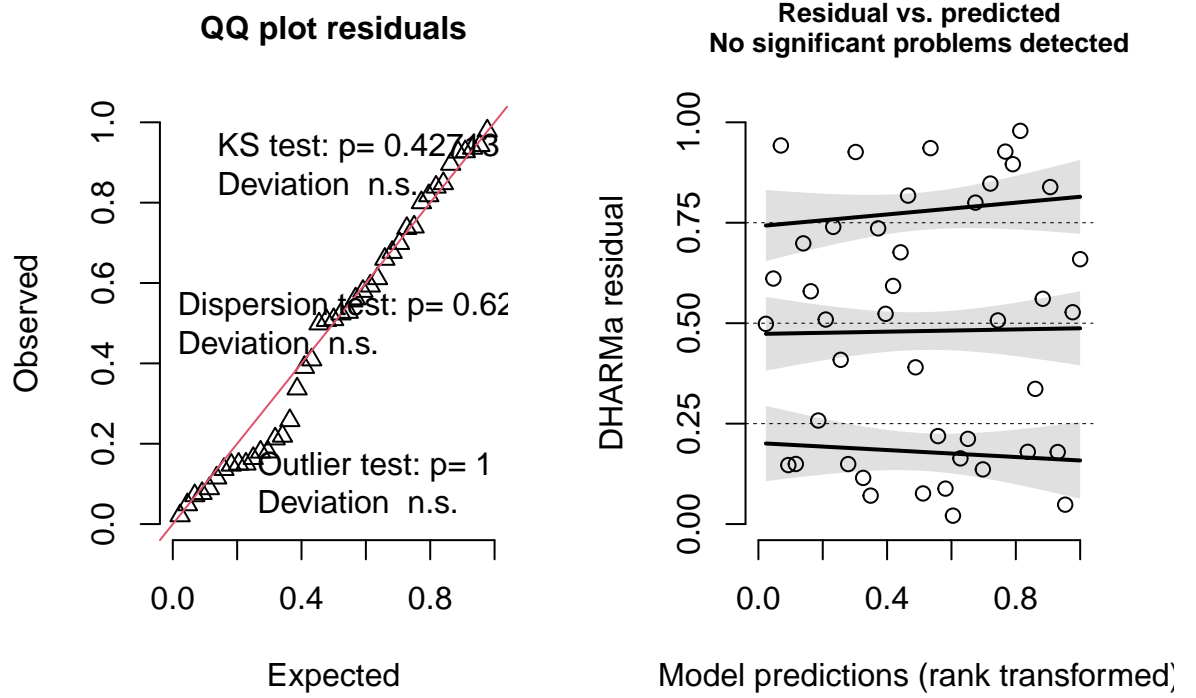
DHARMa residual



Site: Biva

NULL

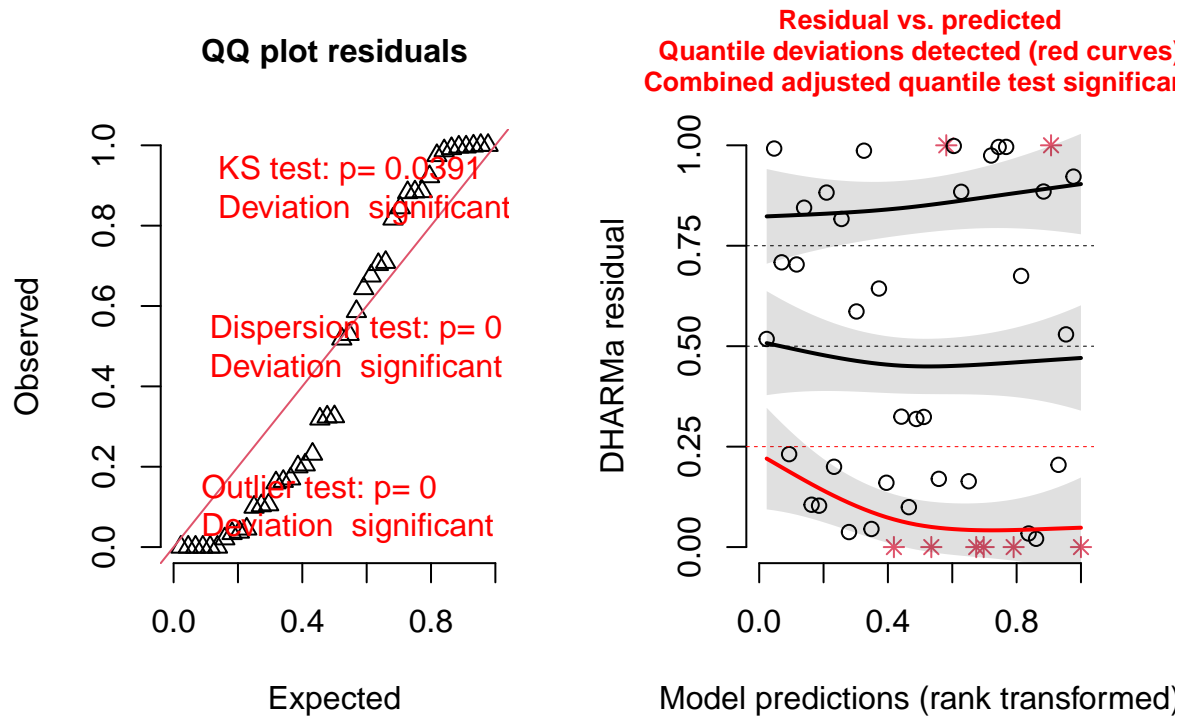
DHARMa residual



Site: Baca

NULL

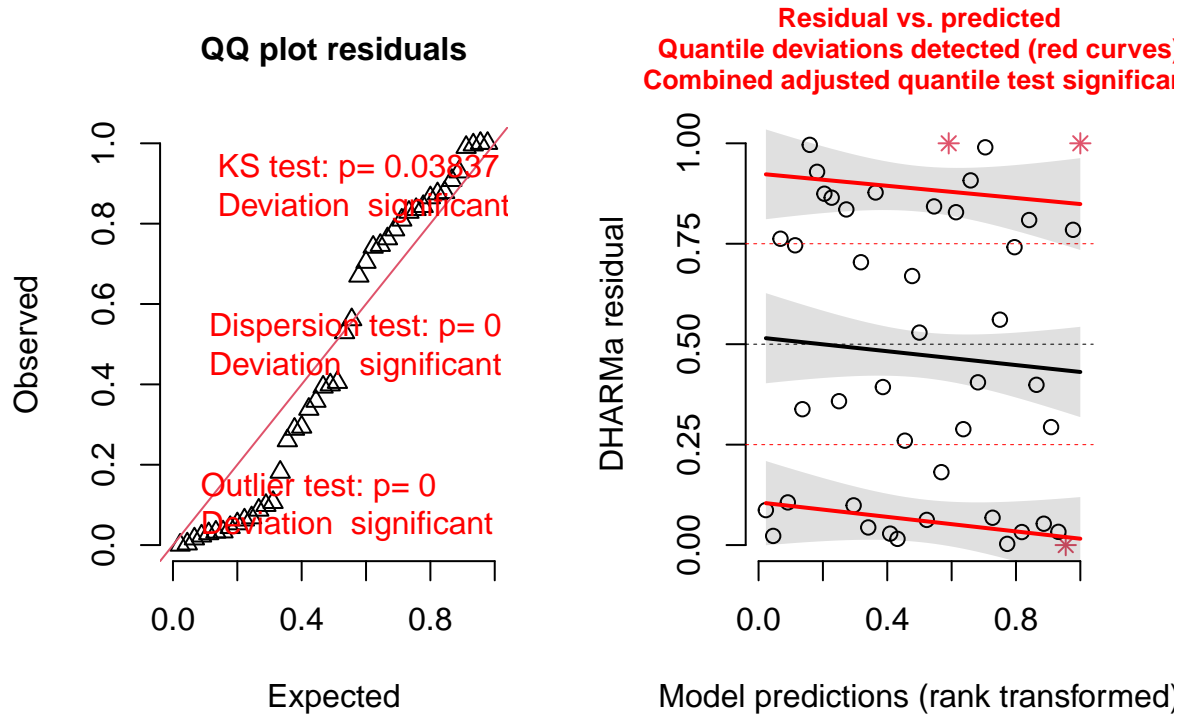
DHARMa residual



Site: Cofr

NULL

DHARMa residual



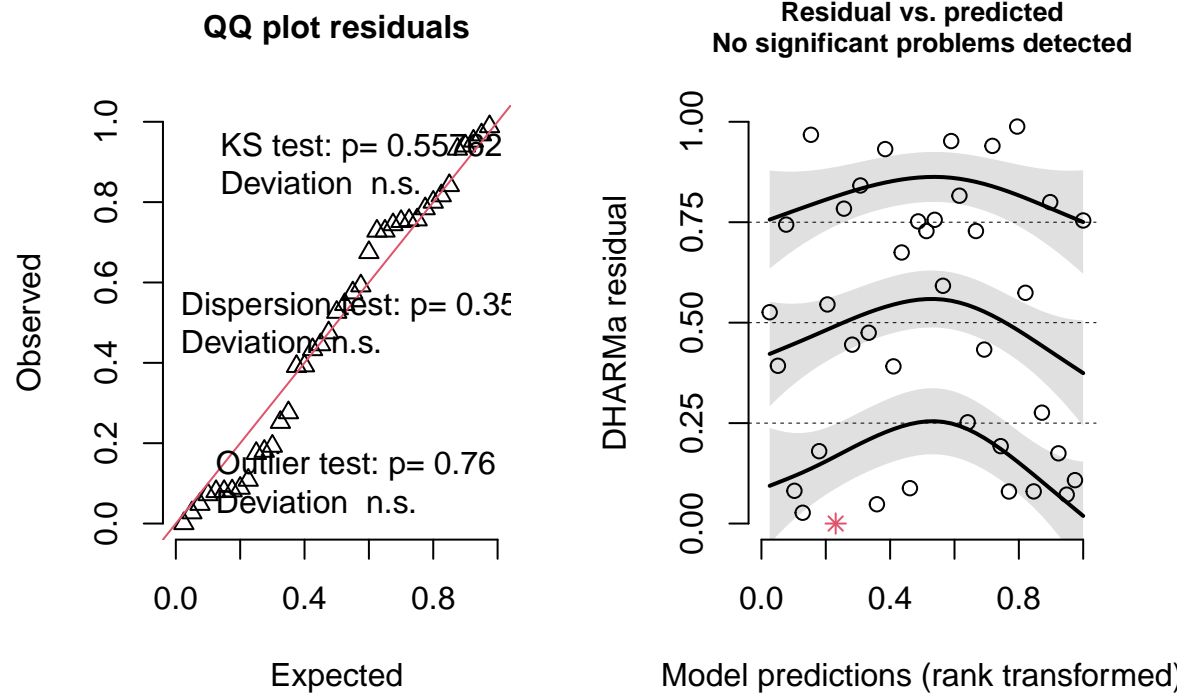
Site: Joma

NULL

Pooled micro-moth checks

First negative binomial distributions

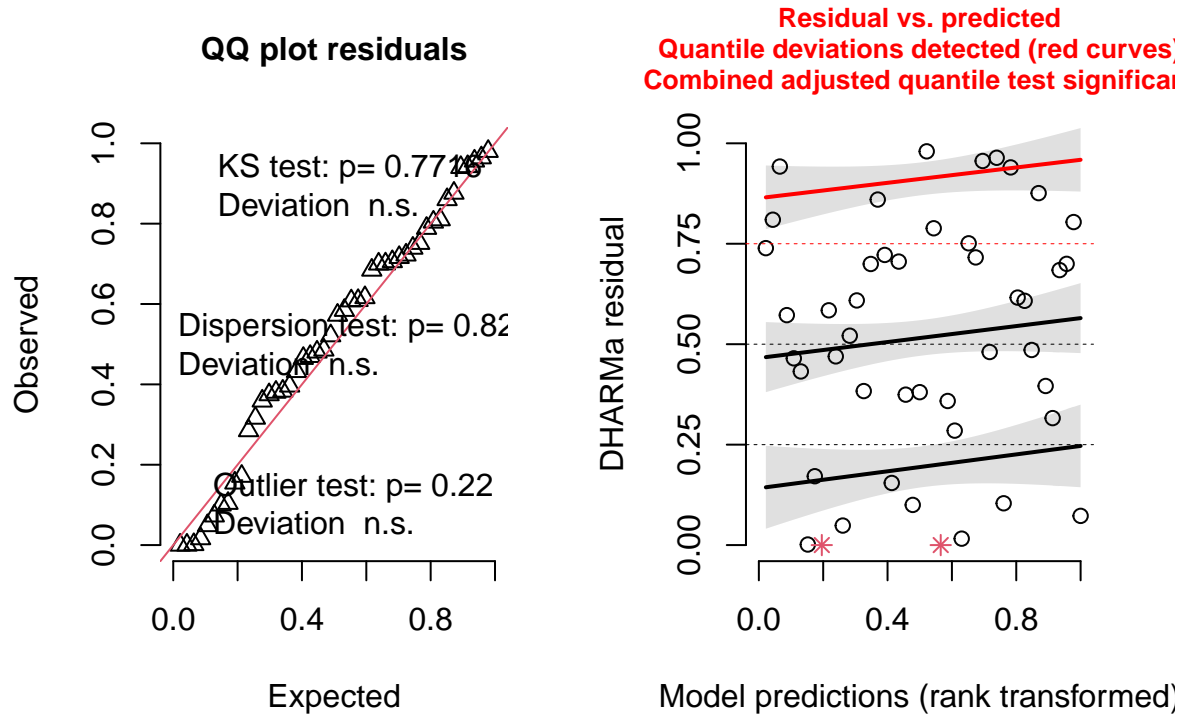
DHARMA residual



Site: AUCA

NULL

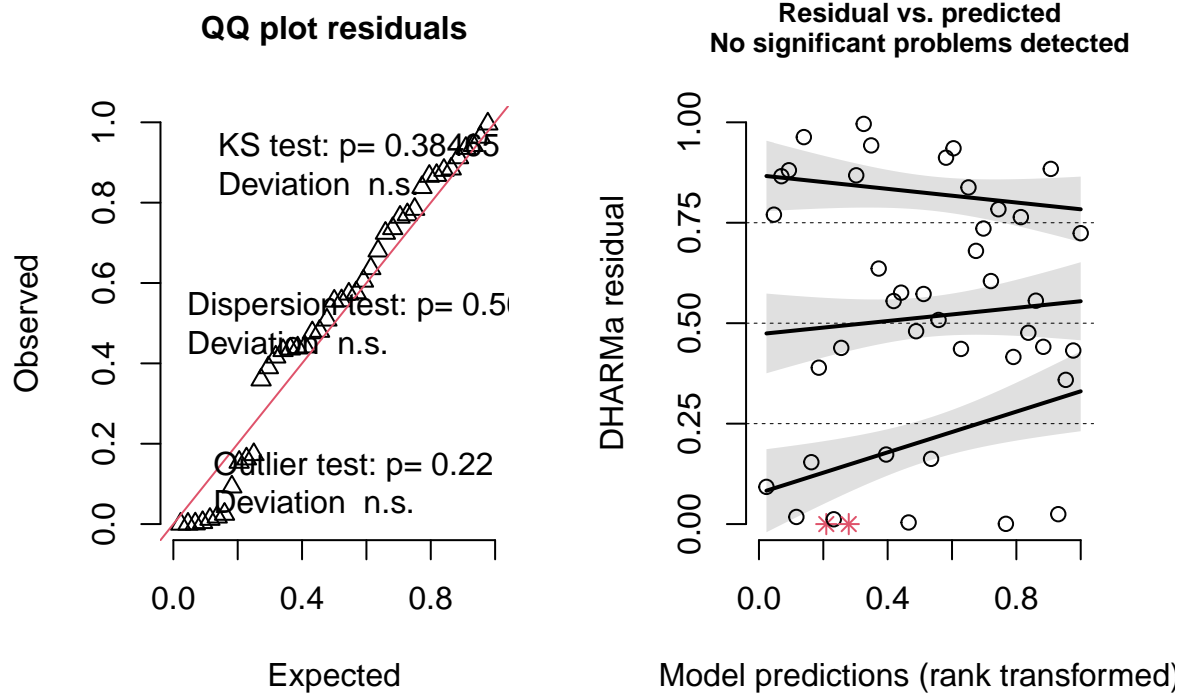
DHARMA residual



Site: PRCR

NULL

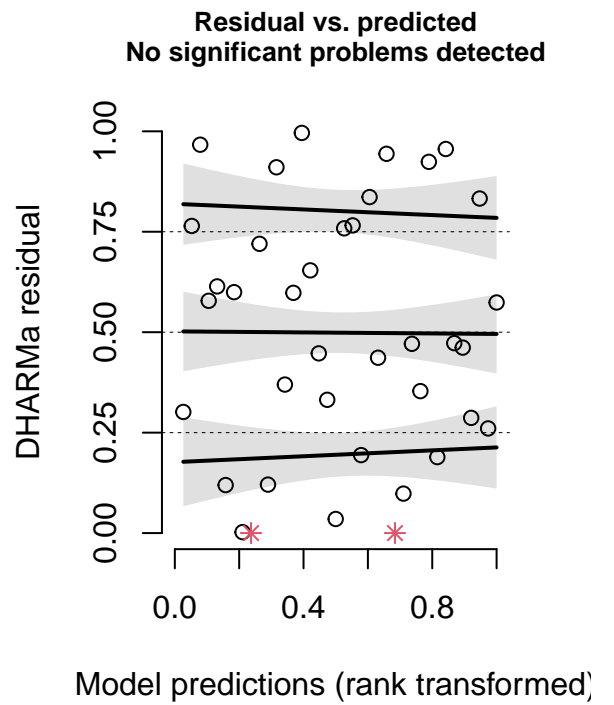
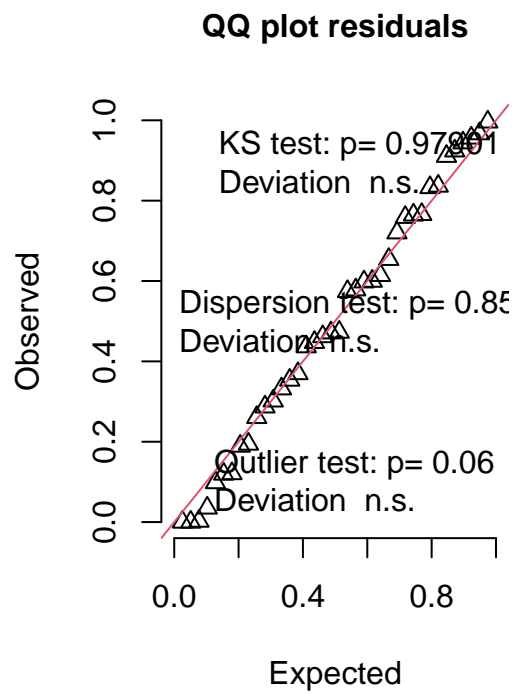
DHARMA residual



Site: Rist

NULL

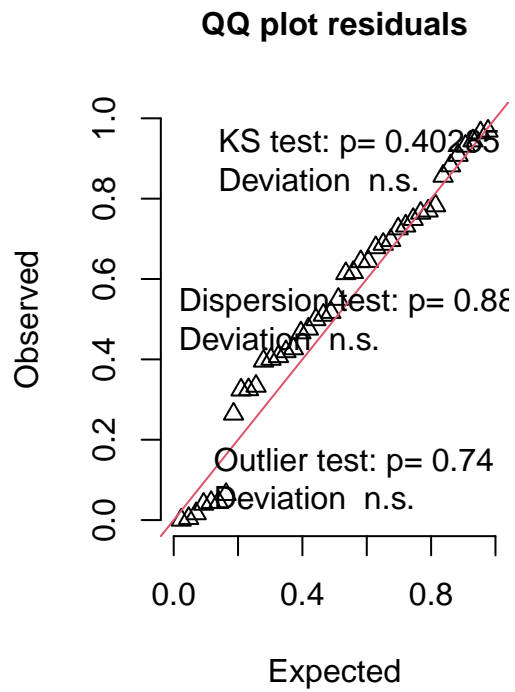
DHARMA residual



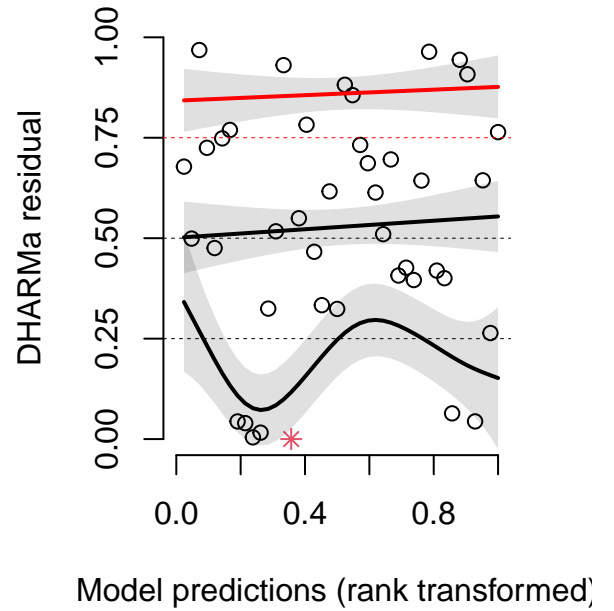
Site: Demi

NULL

DHARMa residual



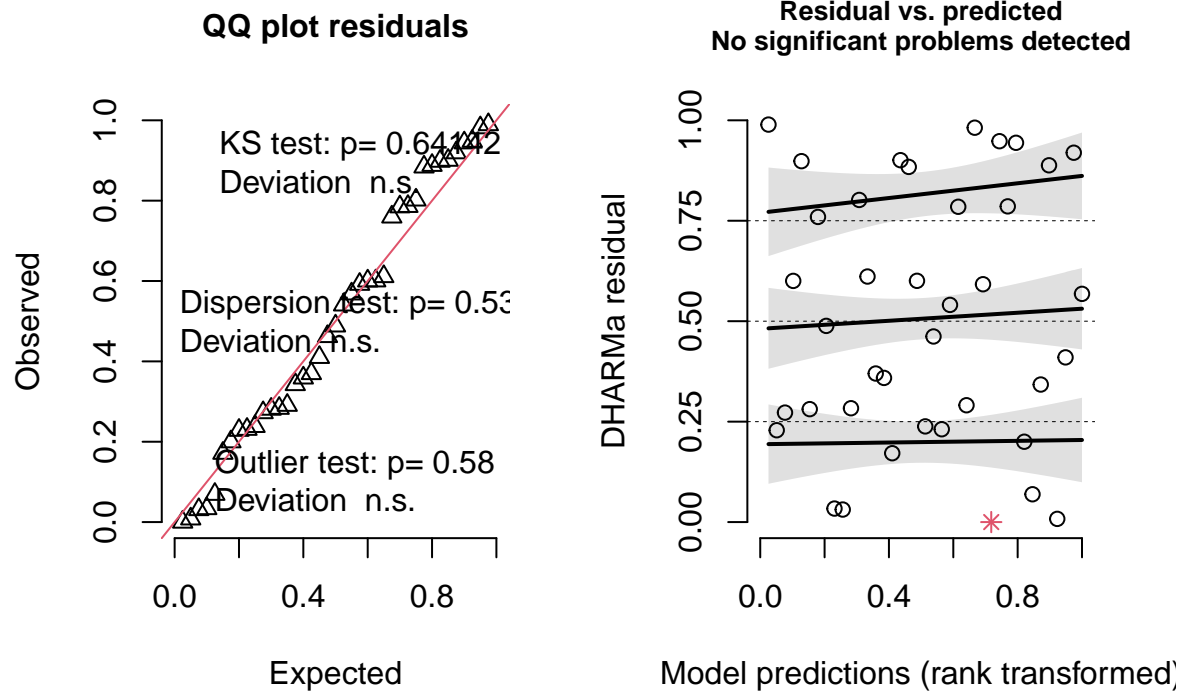
Residual vs. predicted
Quantile deviations detected (red curves)
Combined adjusted quantile test significant



Site: Bowa

NULL

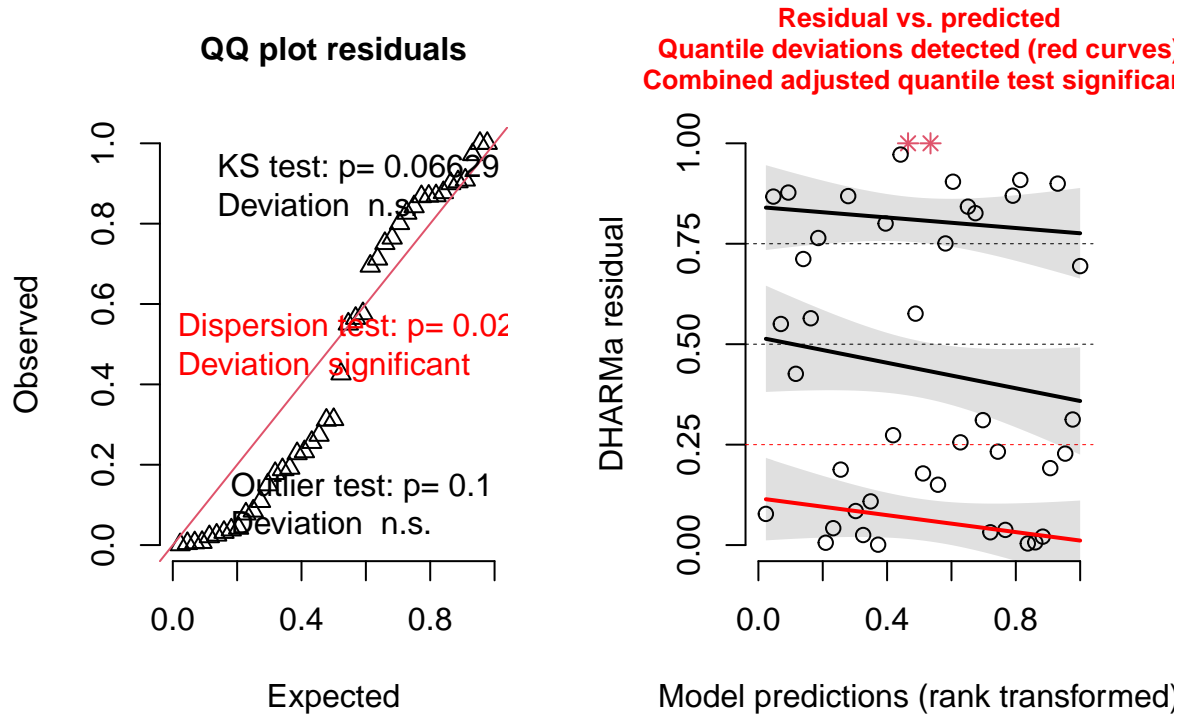
DHARMa residual



Site: Biva

NULL

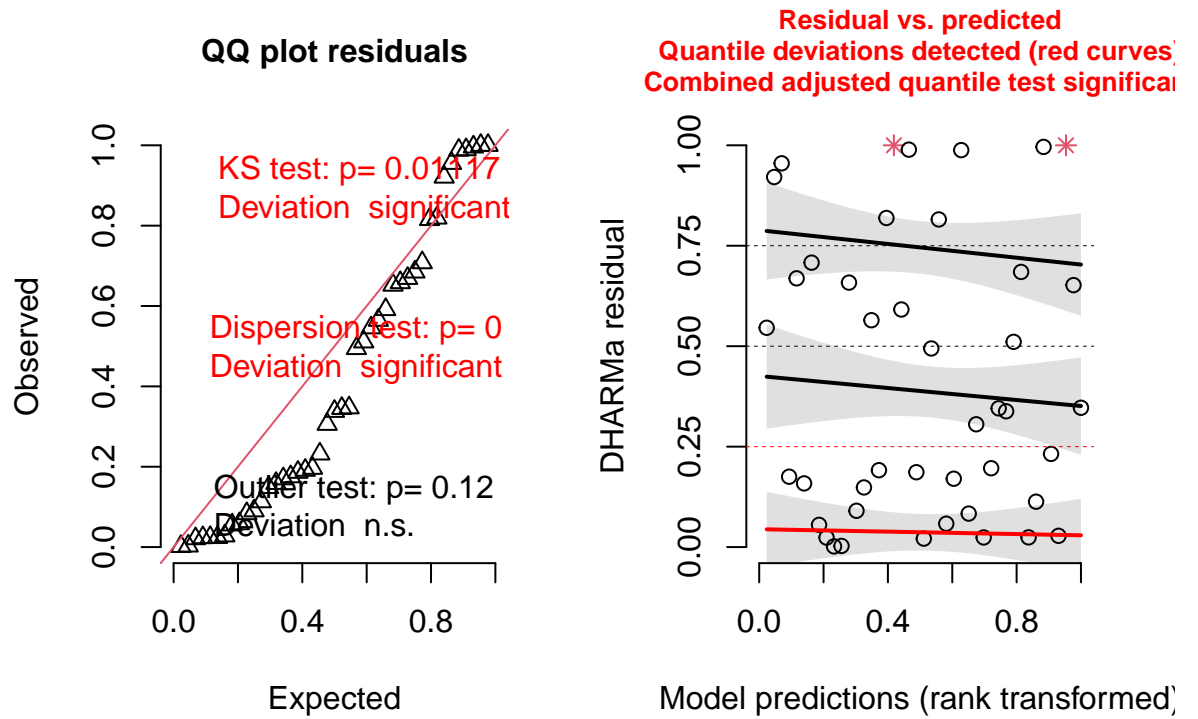
DHARMa residual



Site: Baca

NULL

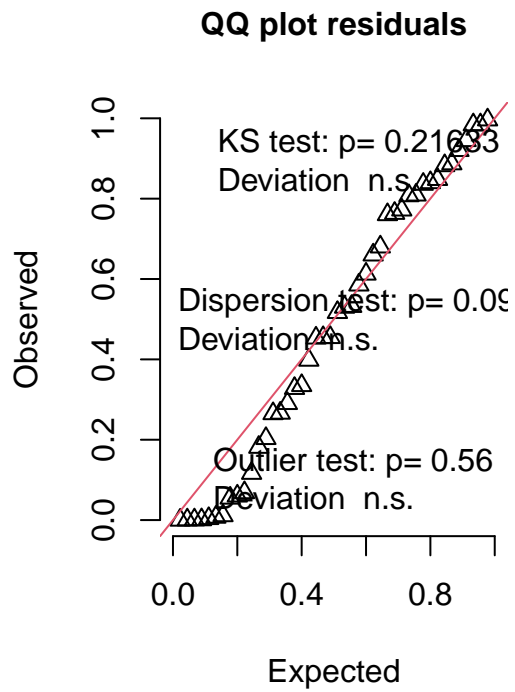
DHARMa residual



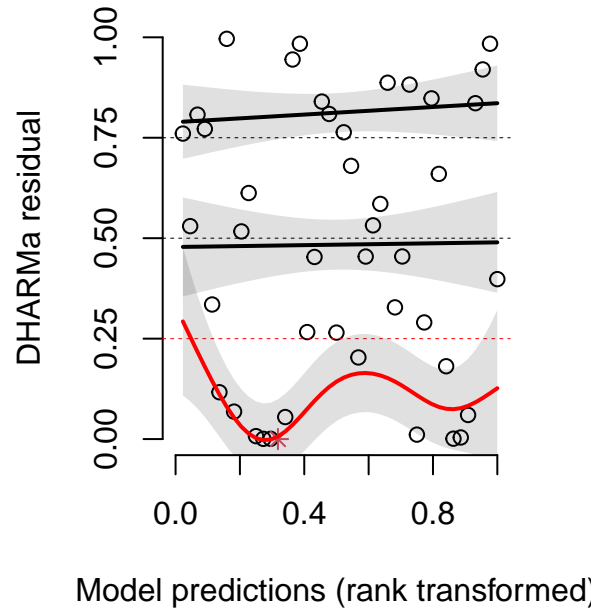
Site: Cofr

NULL

DHARMa residual



Residual vs. predicted
Quantile deviations detected (red curves)
Combined adjusted quantile test significant

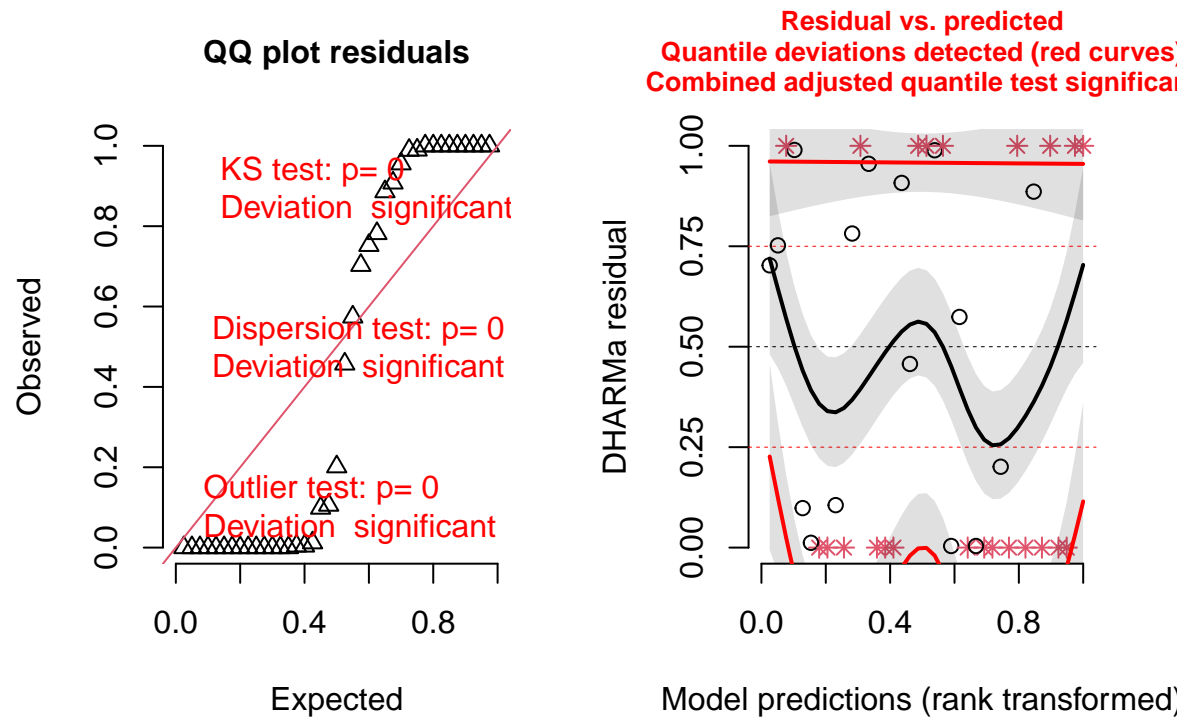


Site: Joma

NULL

Now fit using poisson

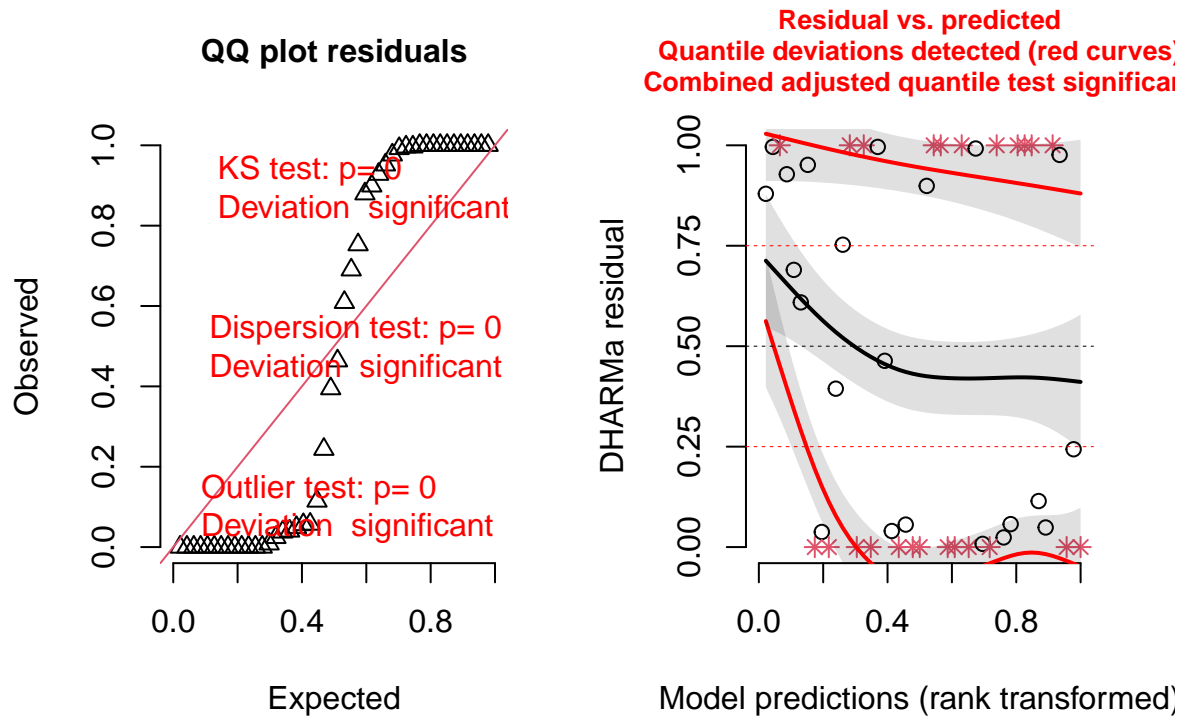
DHARMa residual



Site: AUCA

NULL

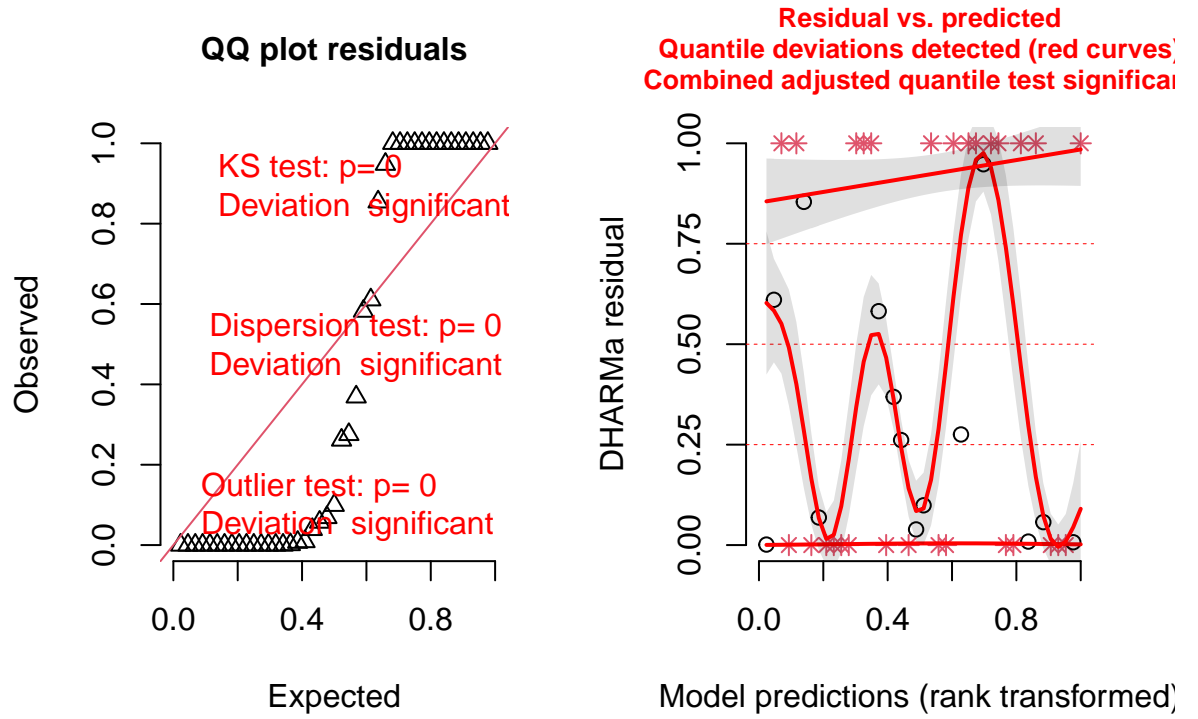
DHARMA residual



Site: PRCR

NULL

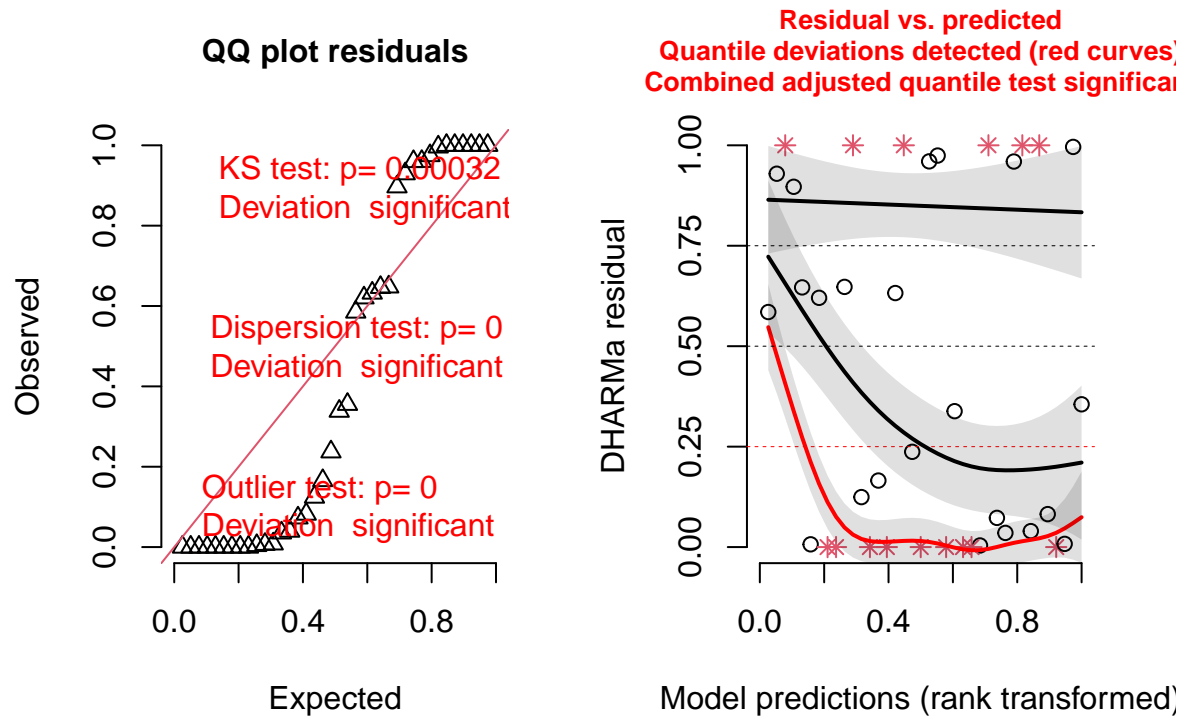
DHARMa residual



Site: Rist

NULL

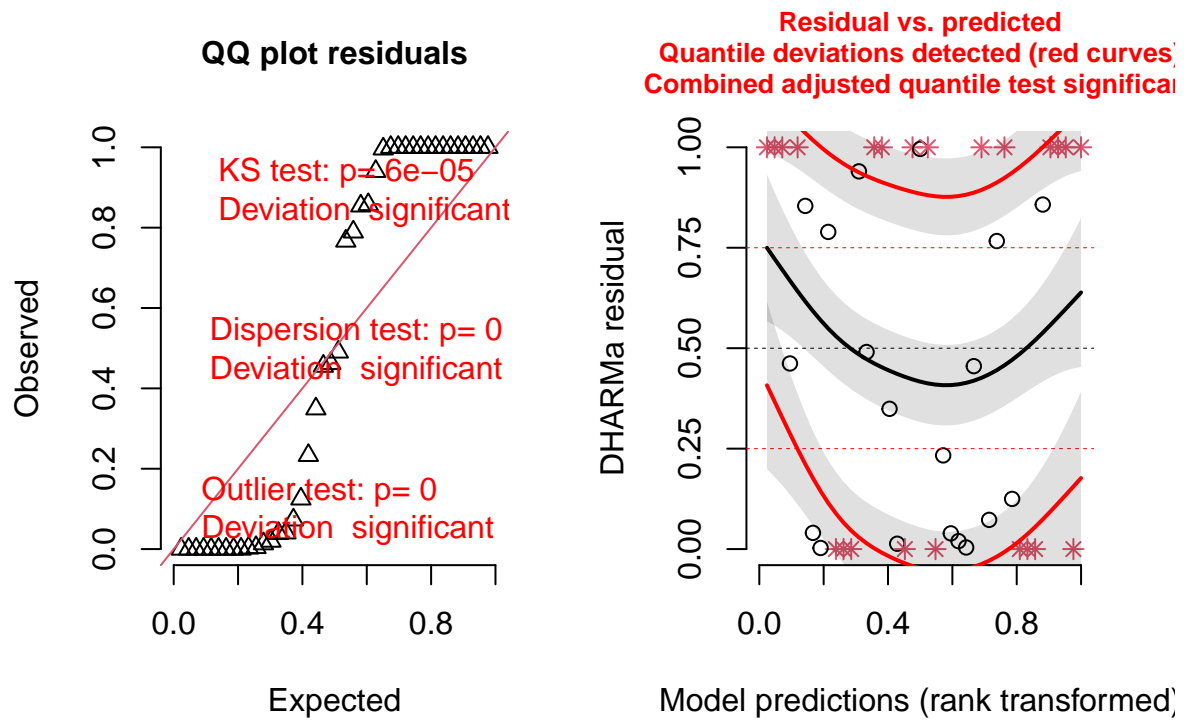
DHARMa residual



Site: Demi

NULL

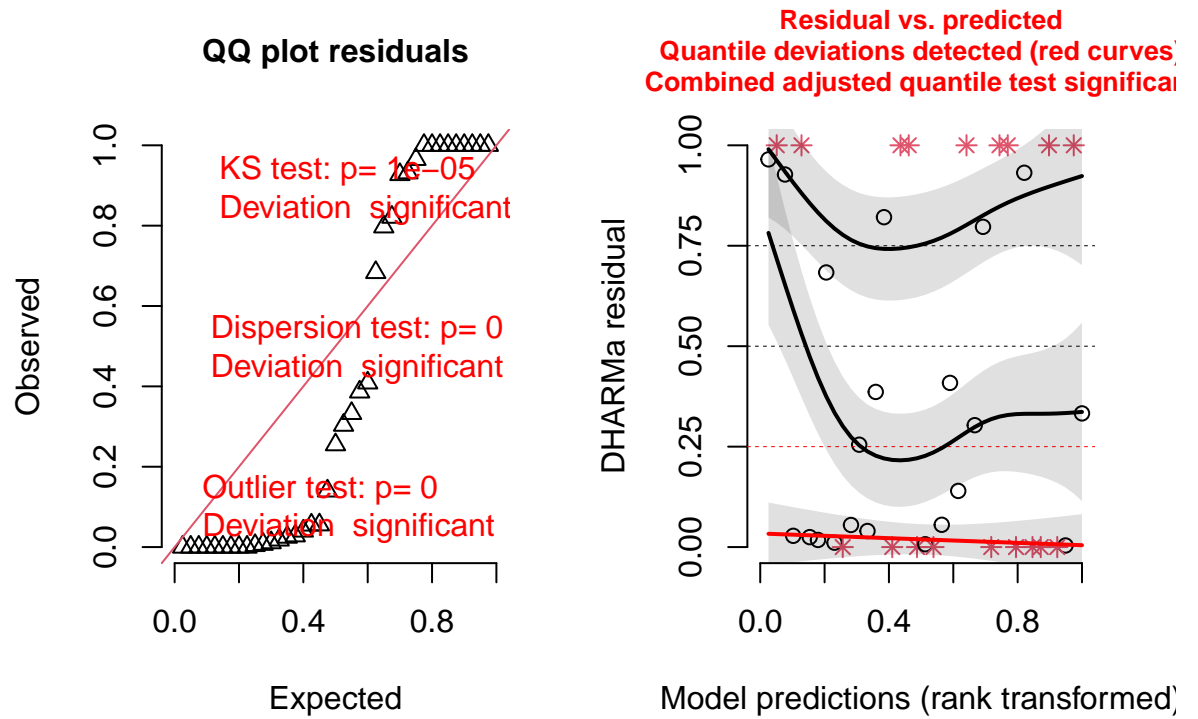
DHARMA residual



Site: Bowa

NULL

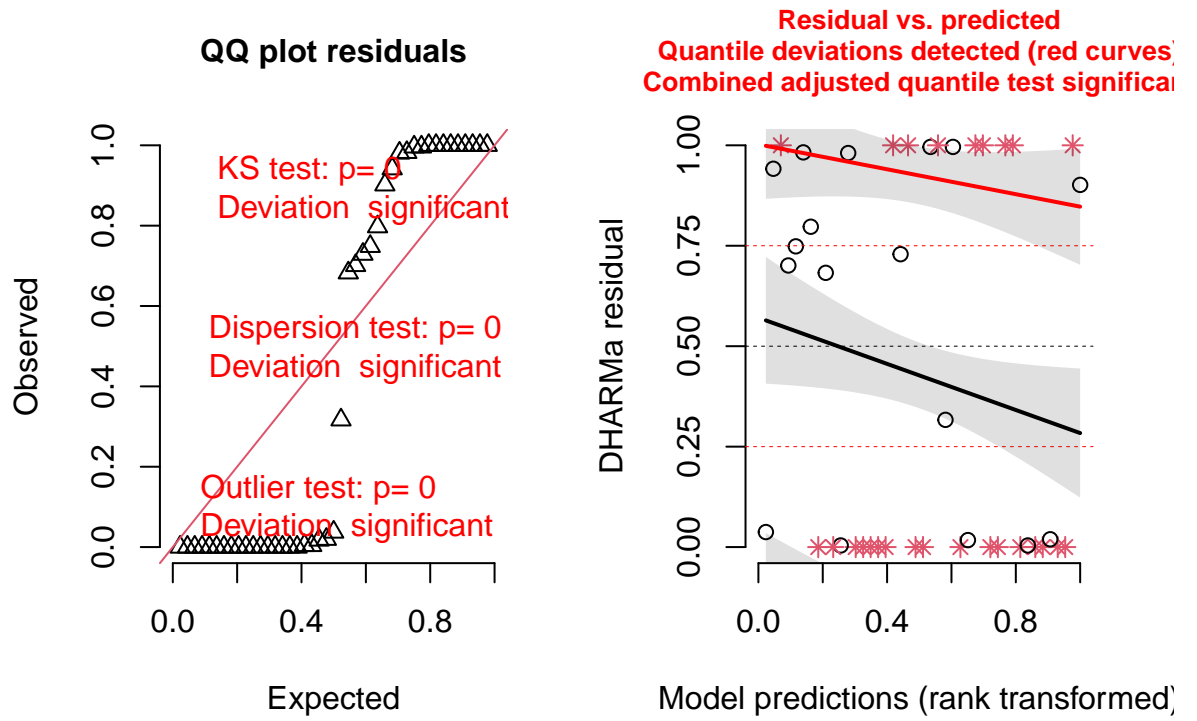
DHARMa residual



Site: Biva

NULL

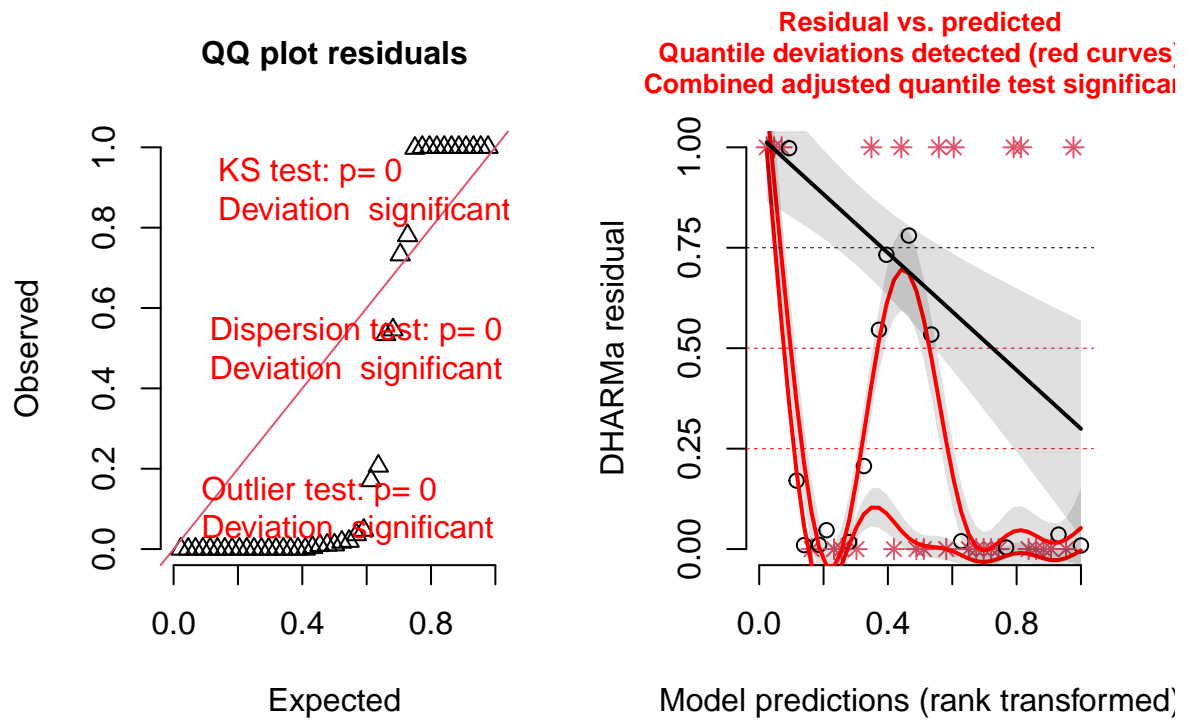
DHARMa residual



Site: Baca

NULL

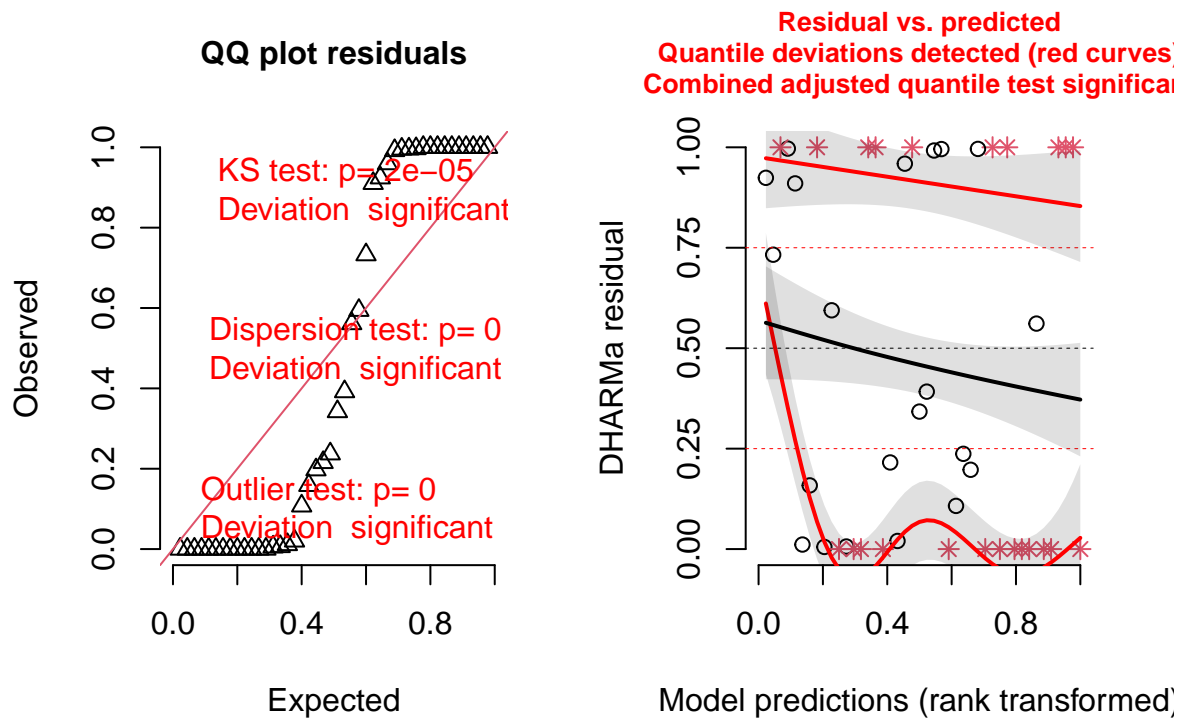
DHARMa residual



Site: Cofr

NULL

DHARMa residual



Site: Joma

NULL