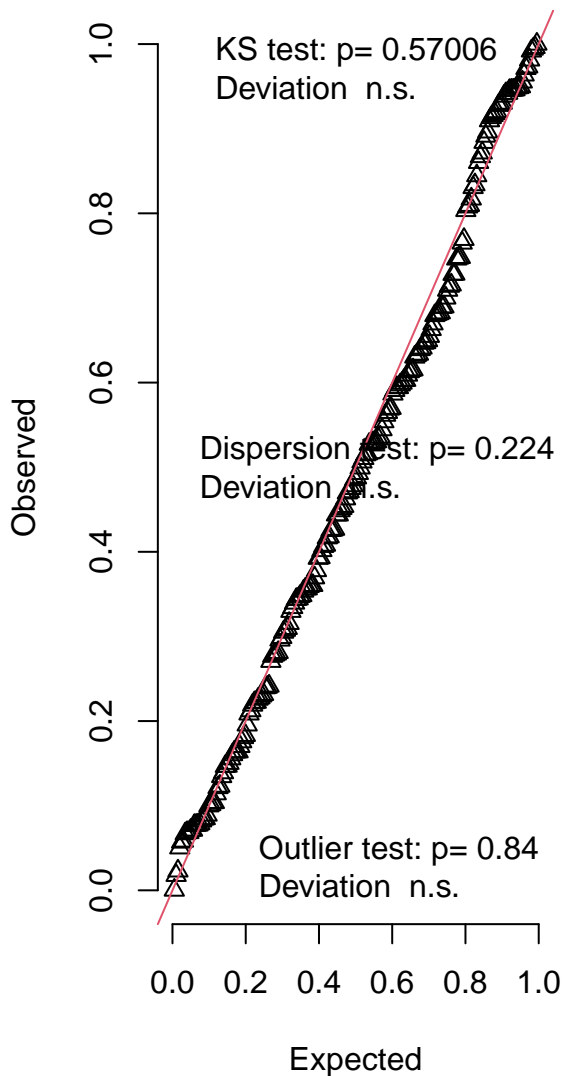
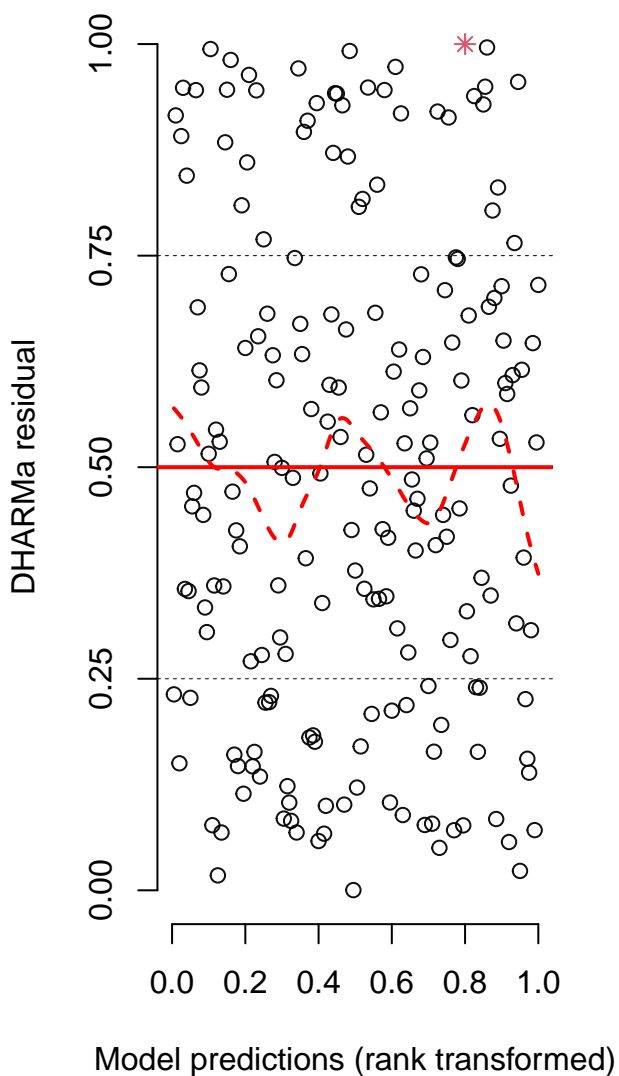


DHARMA residual

QQ plot residuals

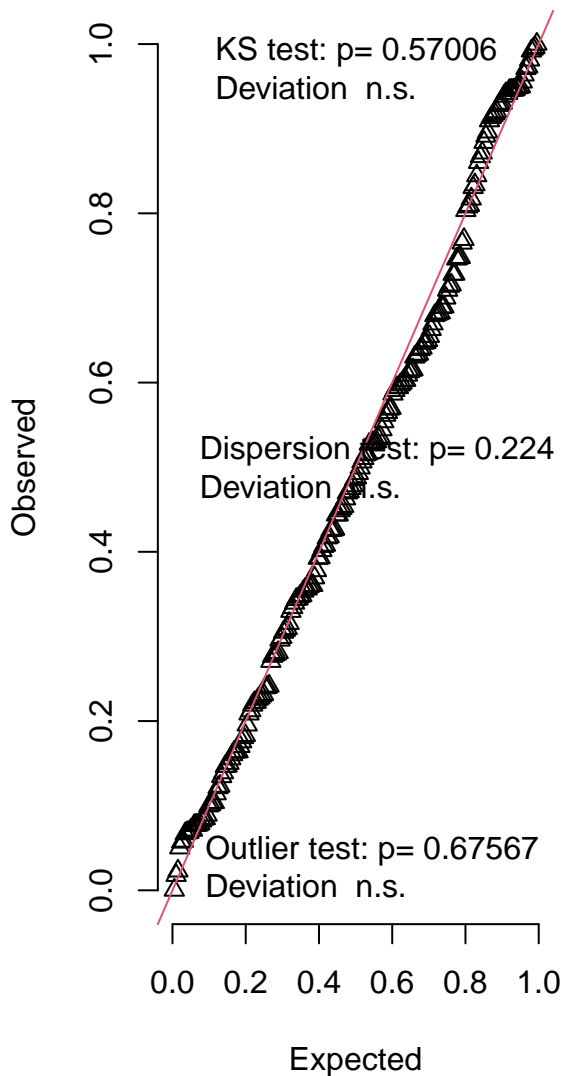


Residual vs. predicted

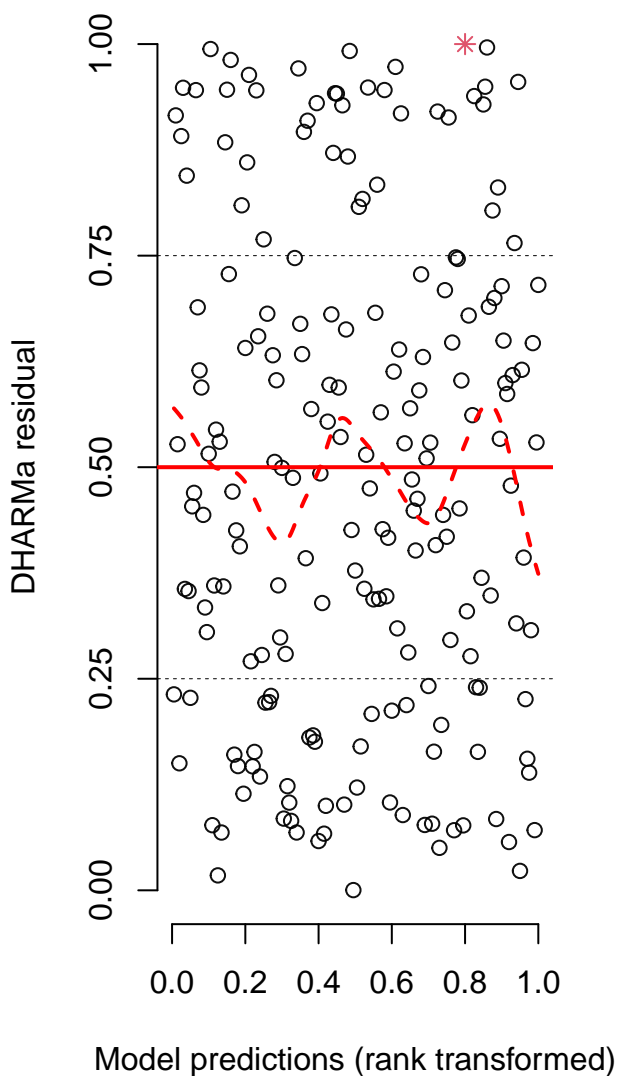


DHARMA residual

QQ plot residuals

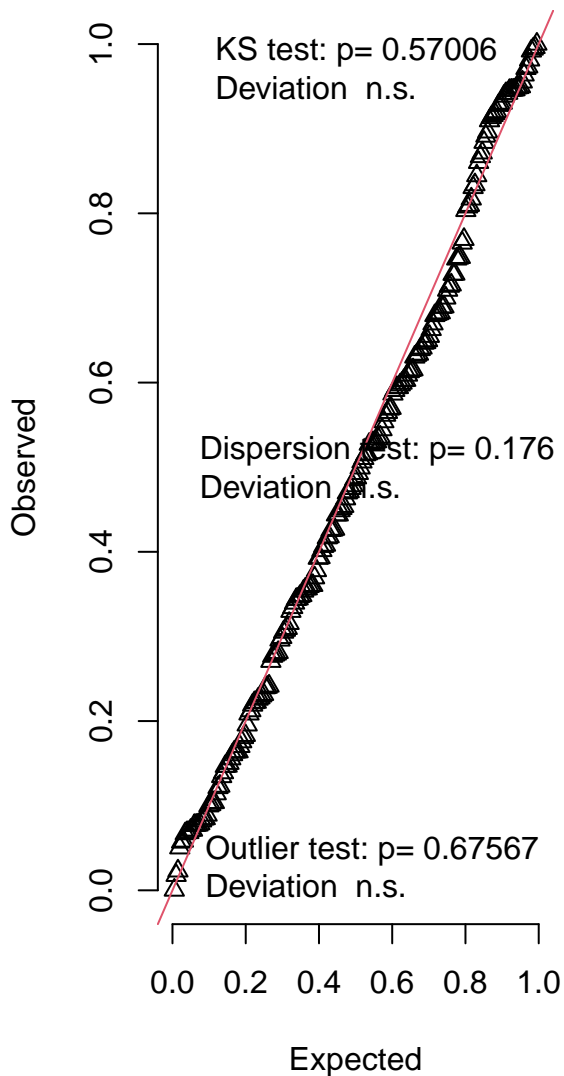


Residual vs. predicted

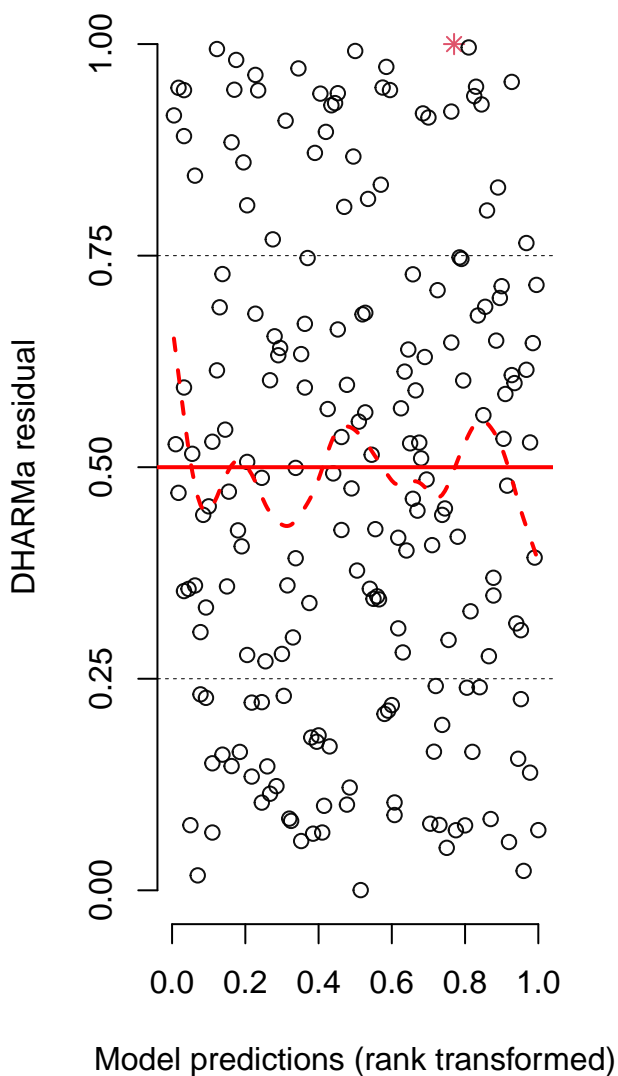


DHARMA residual

QQ plot residuals

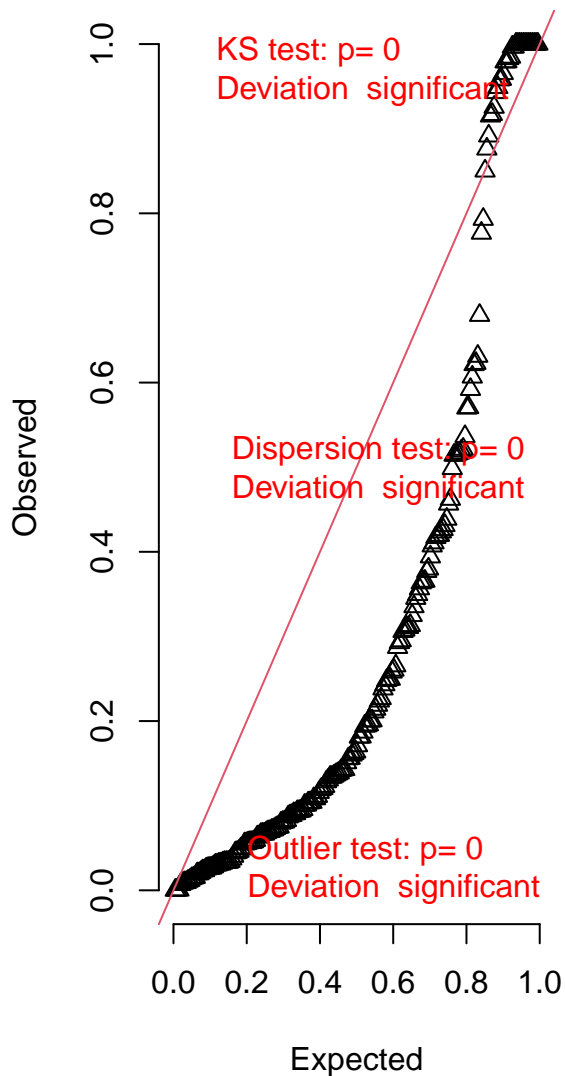


Residual vs. predicted

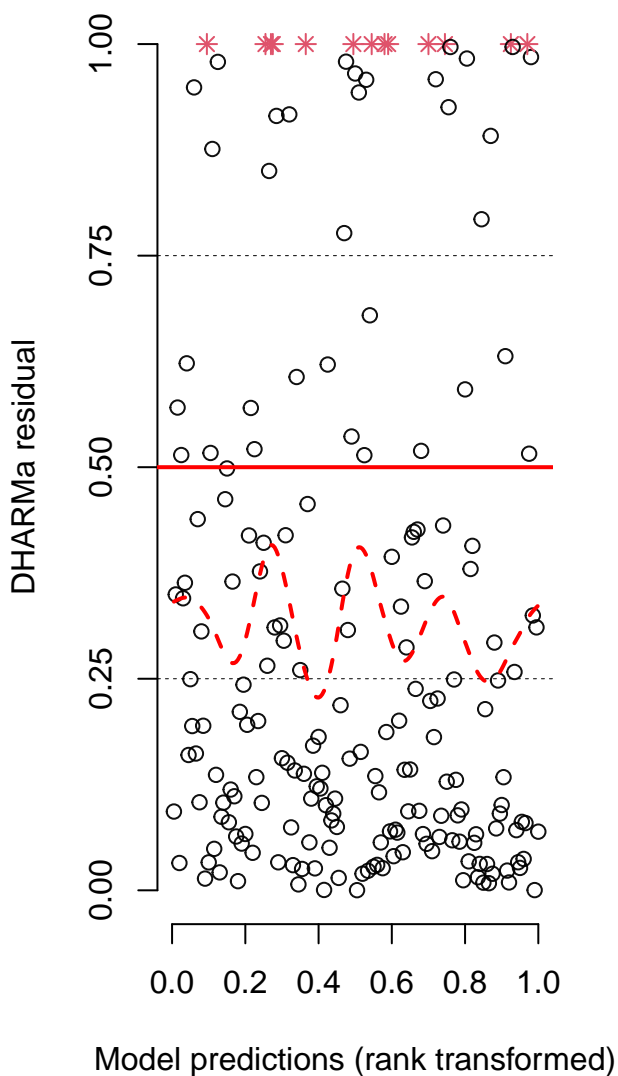


DHARMA residual

QQ plot residuals

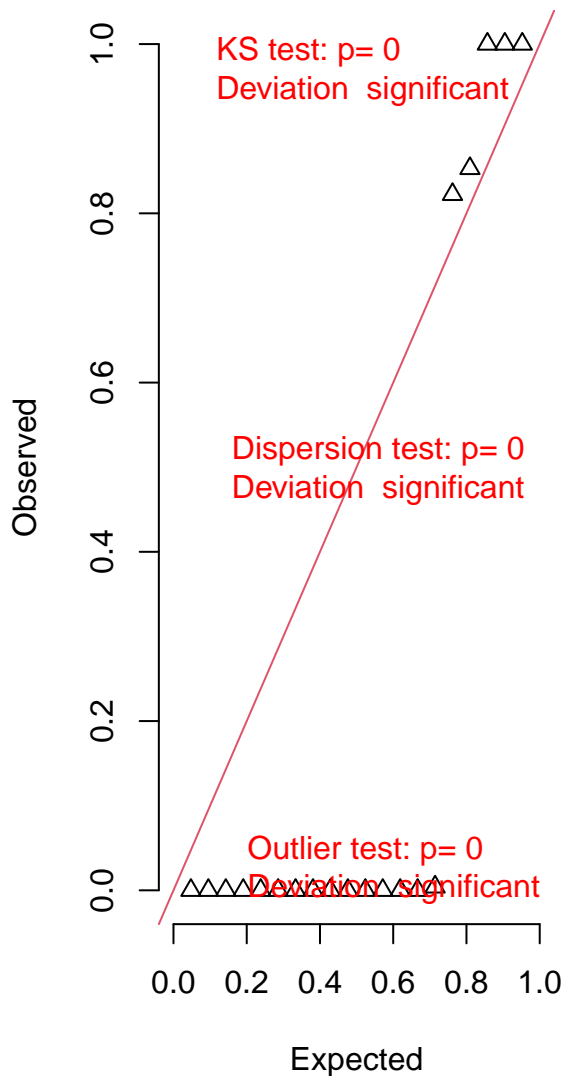


Residual vs. predicted

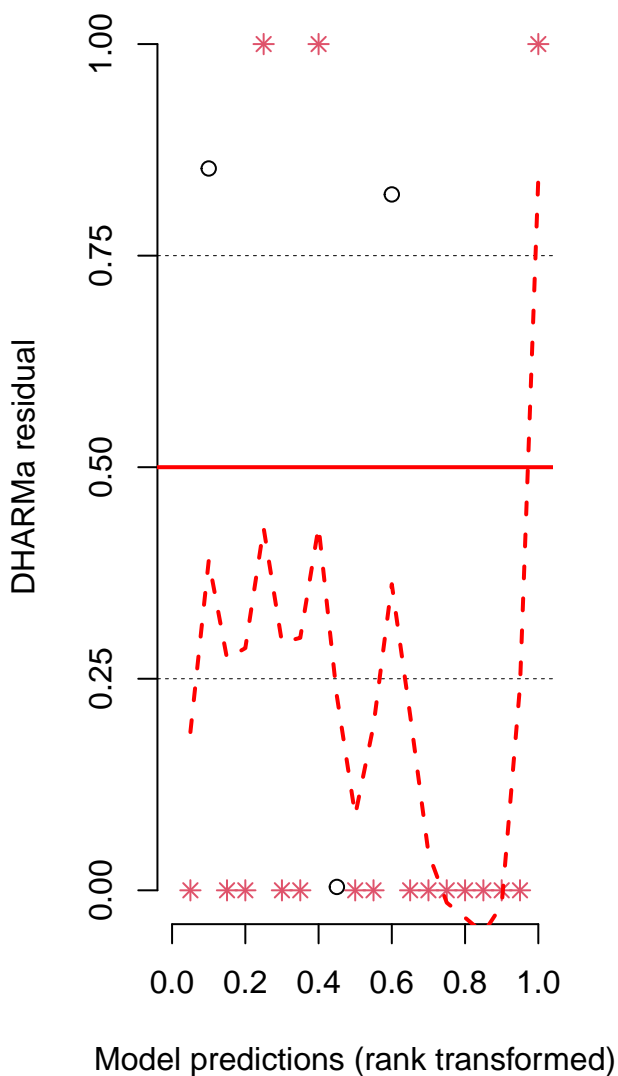


DHARMA residual

QQ plot residuals

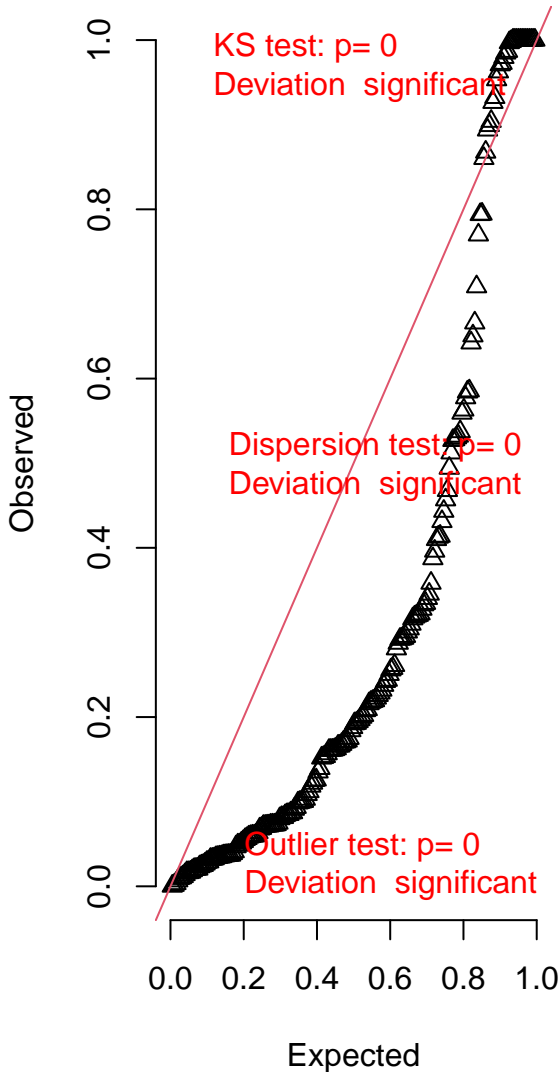


Residual vs. predicted

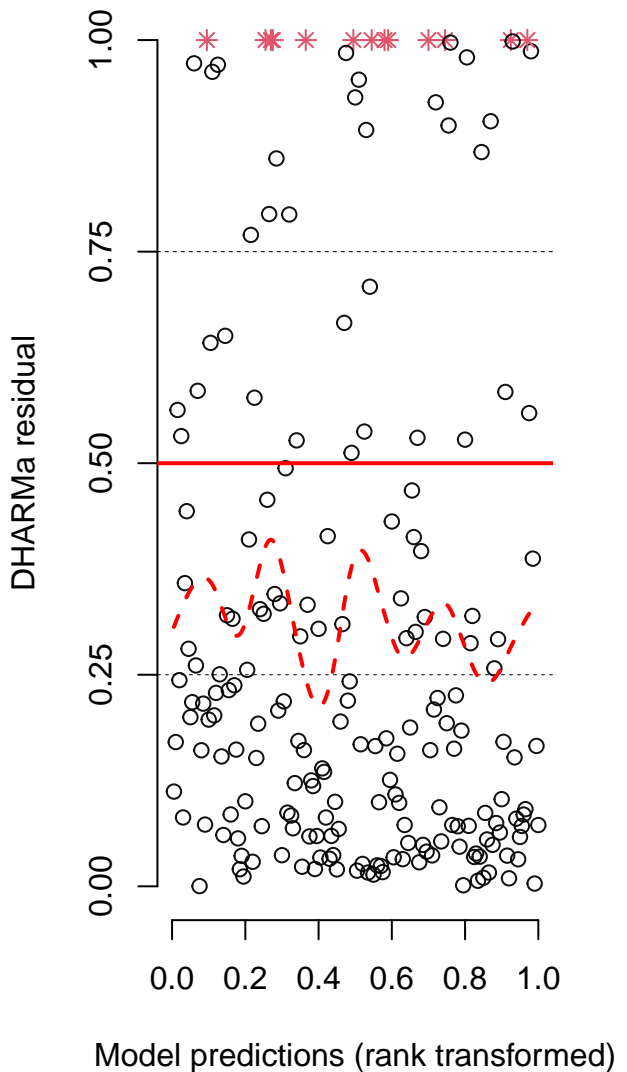


DHARMA residual

QQ plot residuals

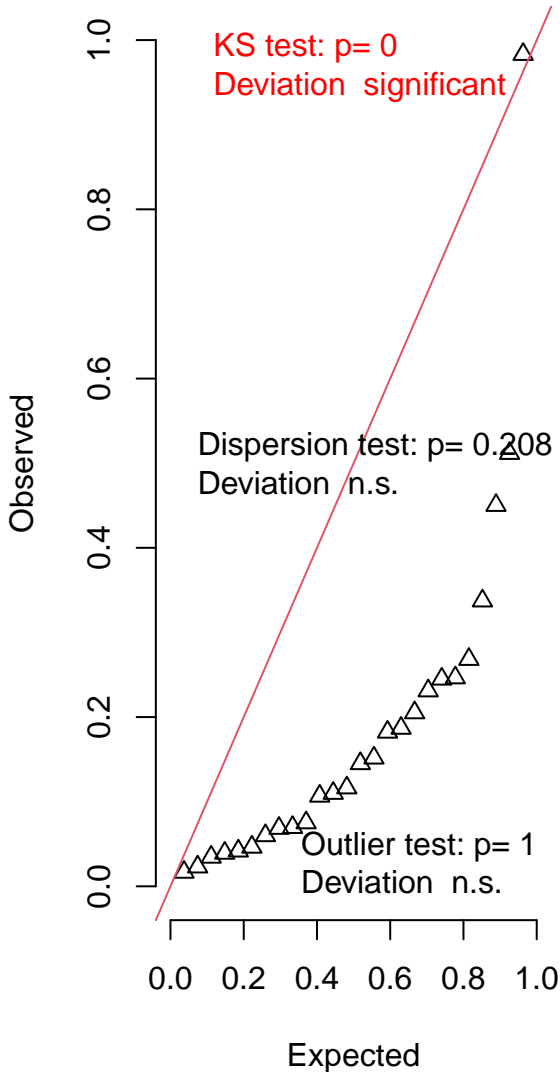


Residual vs. predicted

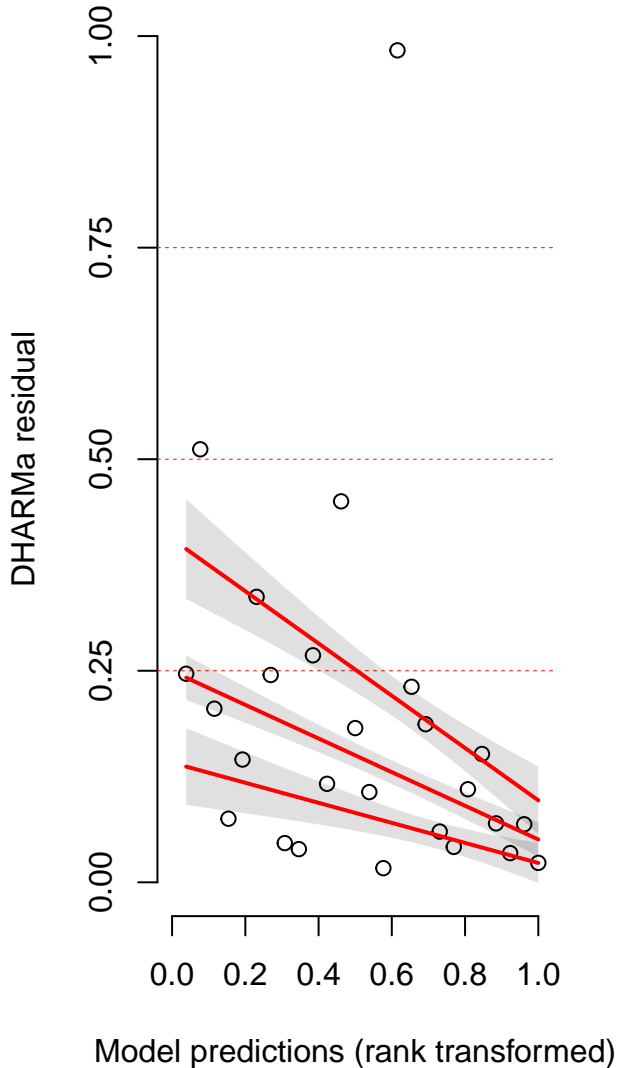


DHARMA residual

QQ plot residuals

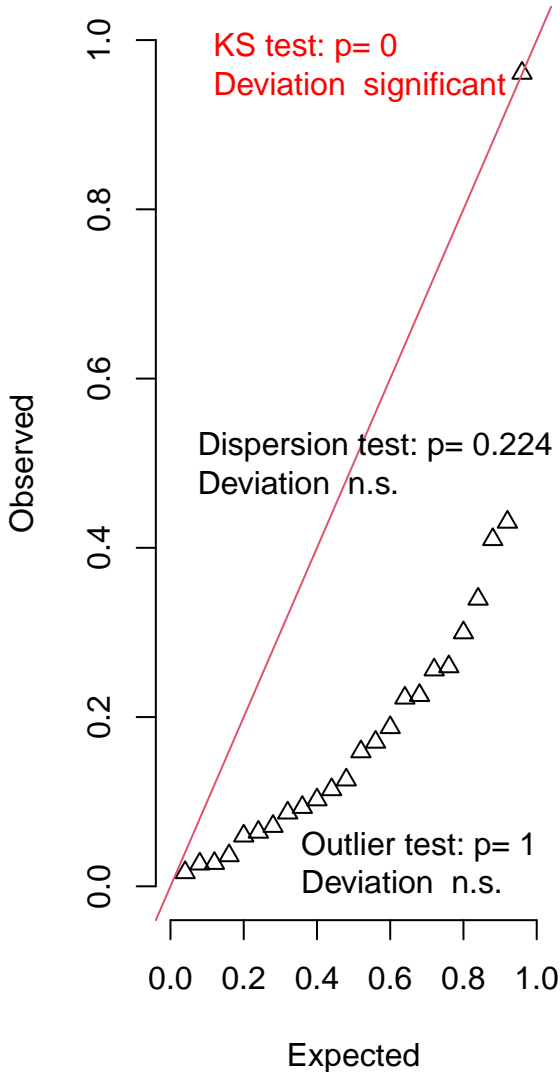


Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant

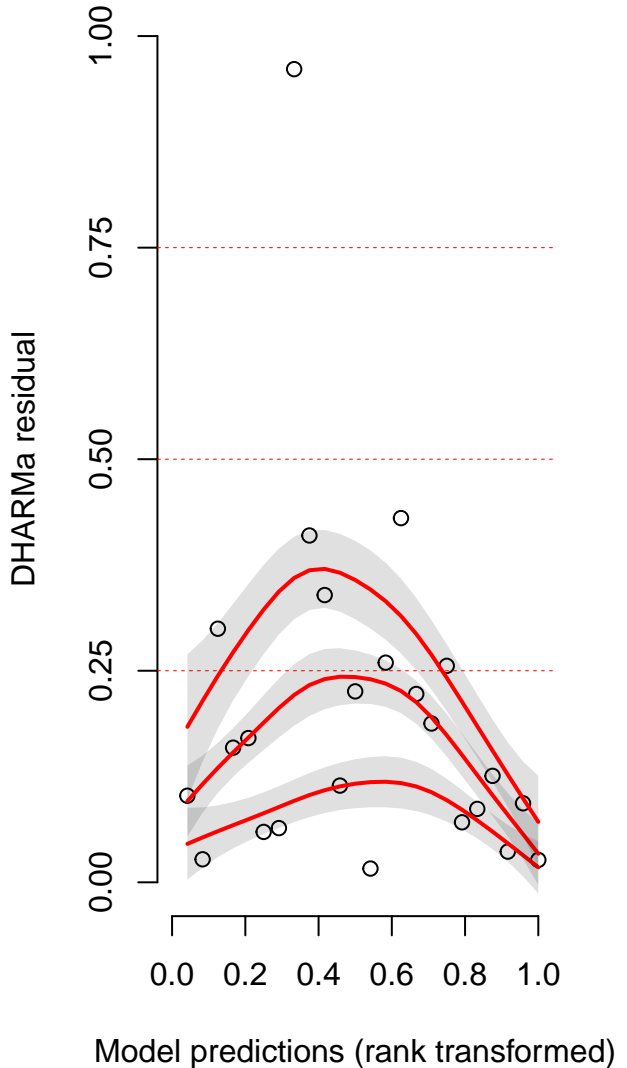


DHARMA residual

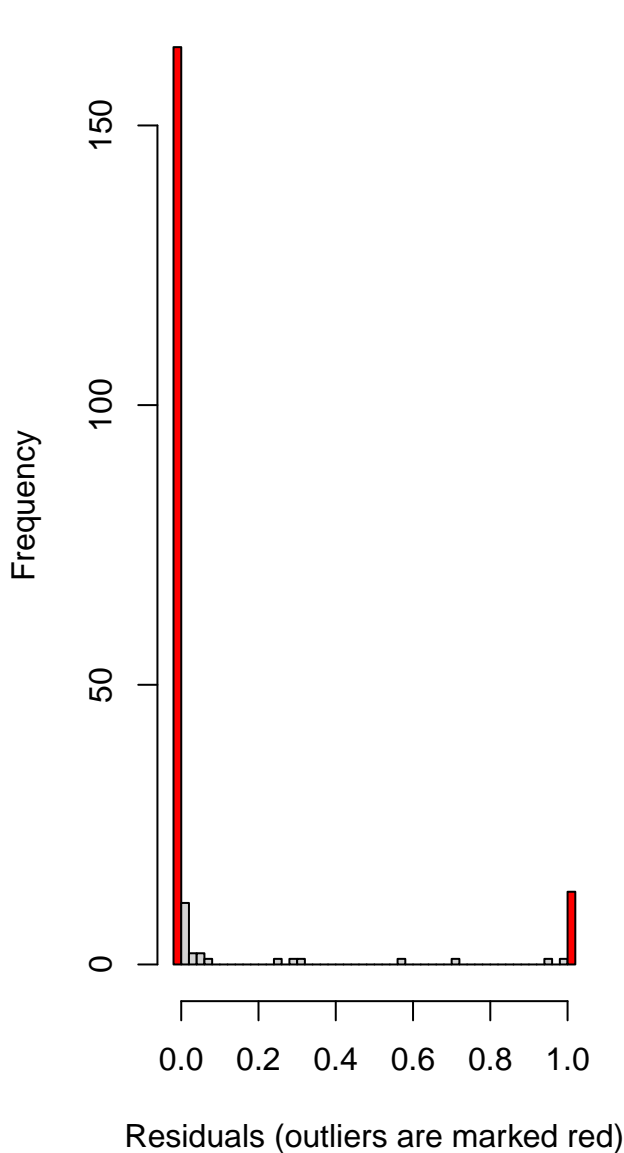
QQ plot residuals



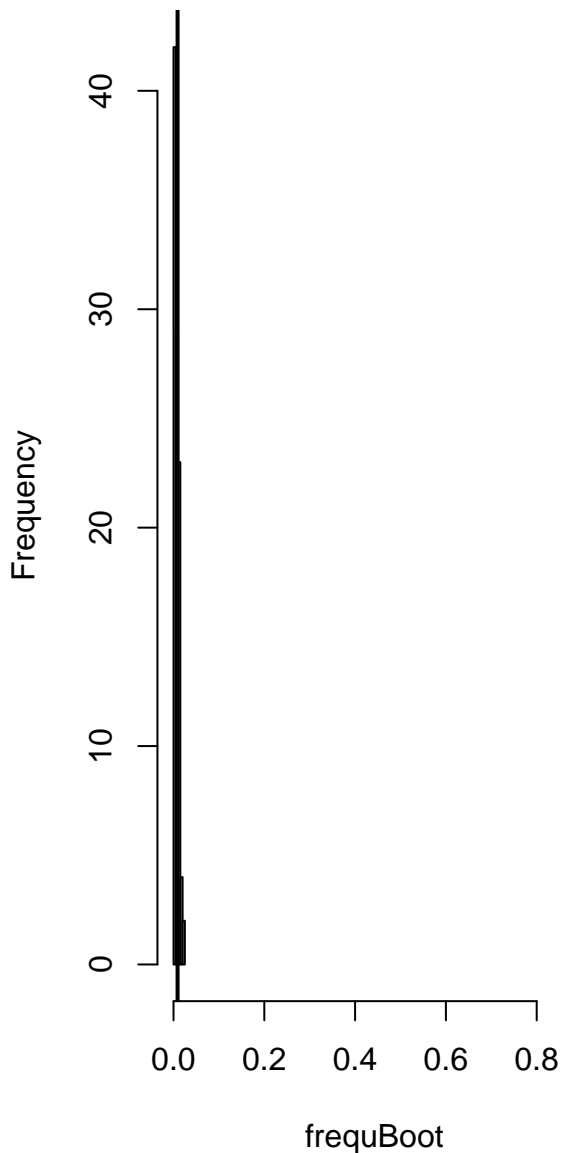
Residual vs. predicted Quantile deviations detected (red curves) Combined adjusted quantile test significant



Outlier test significant

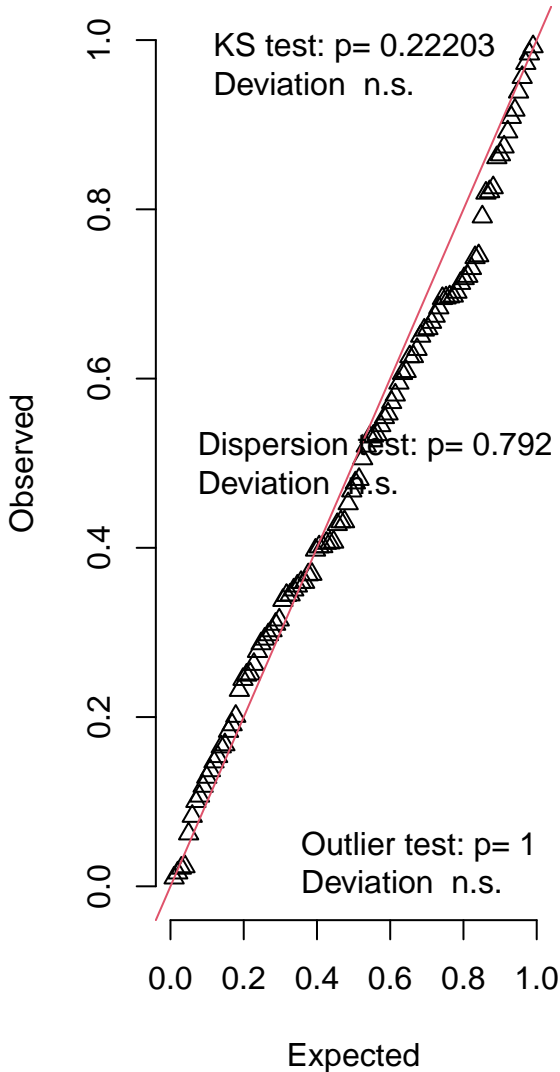


Histogram of frequBoot

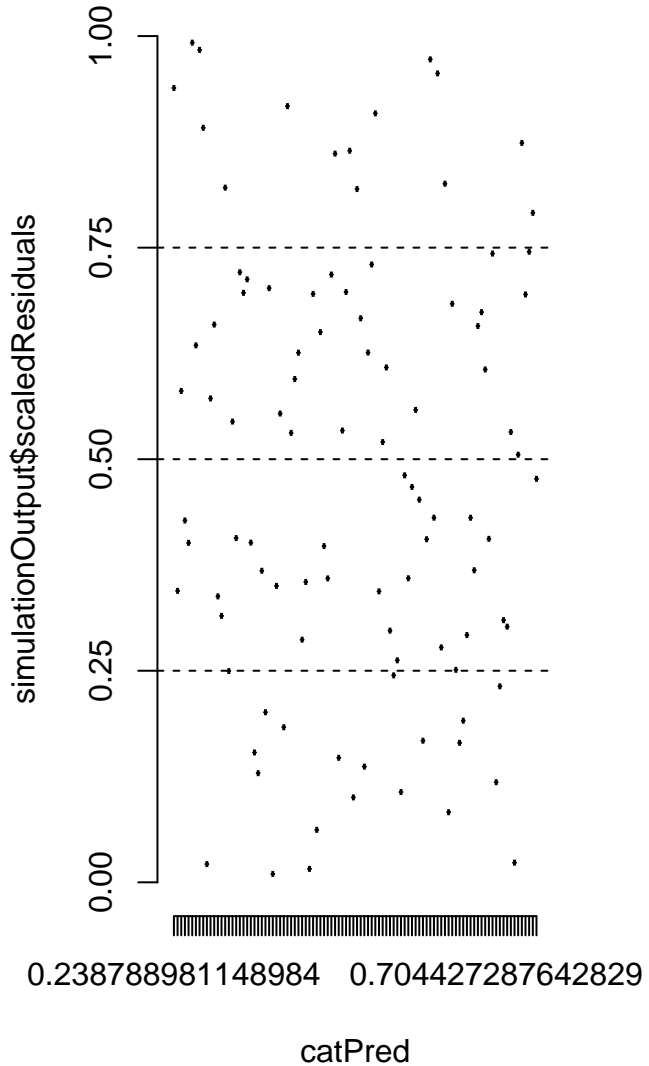


DHARMA residual

QQ plot residuals

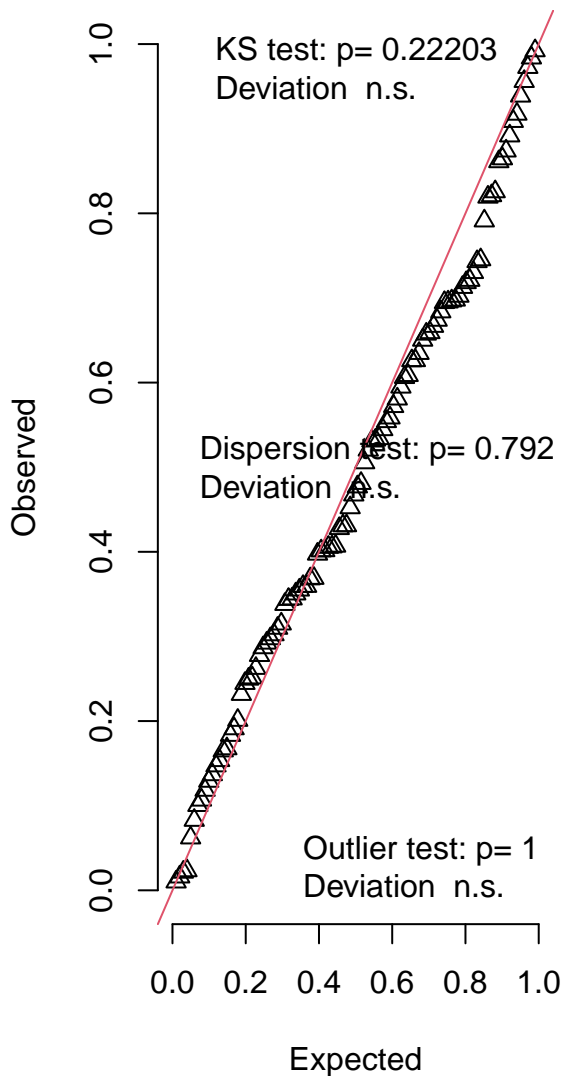


Within-group deviation from uniformity n.s.

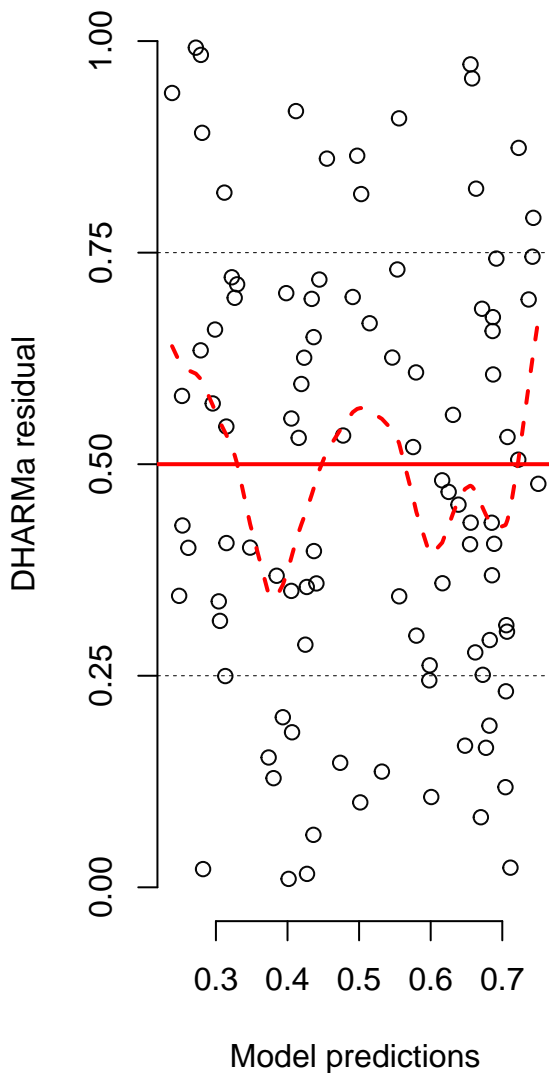


DHARMA residual

QQ plot residuals

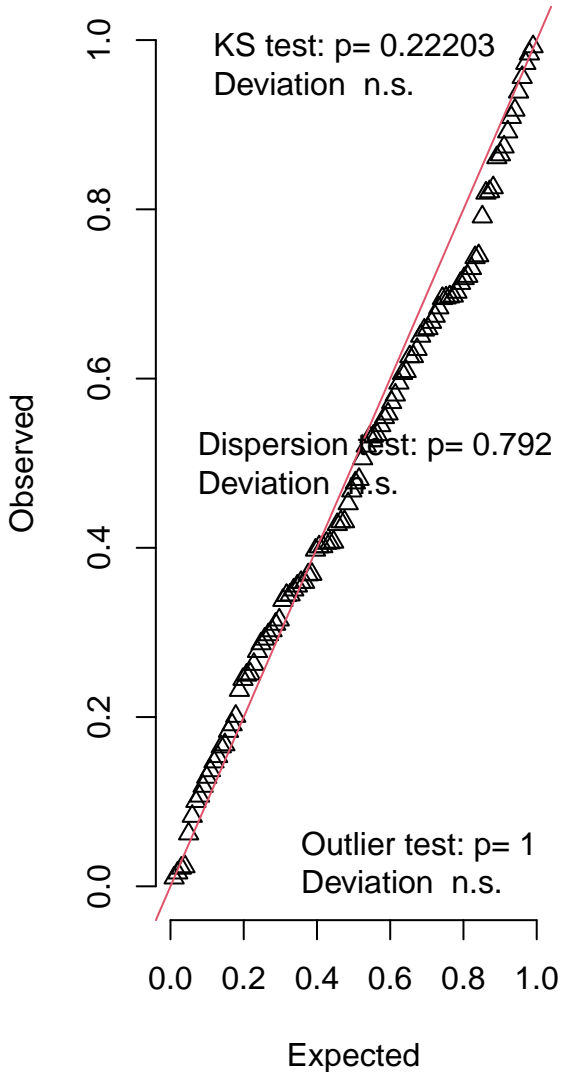


Residual vs. predicted

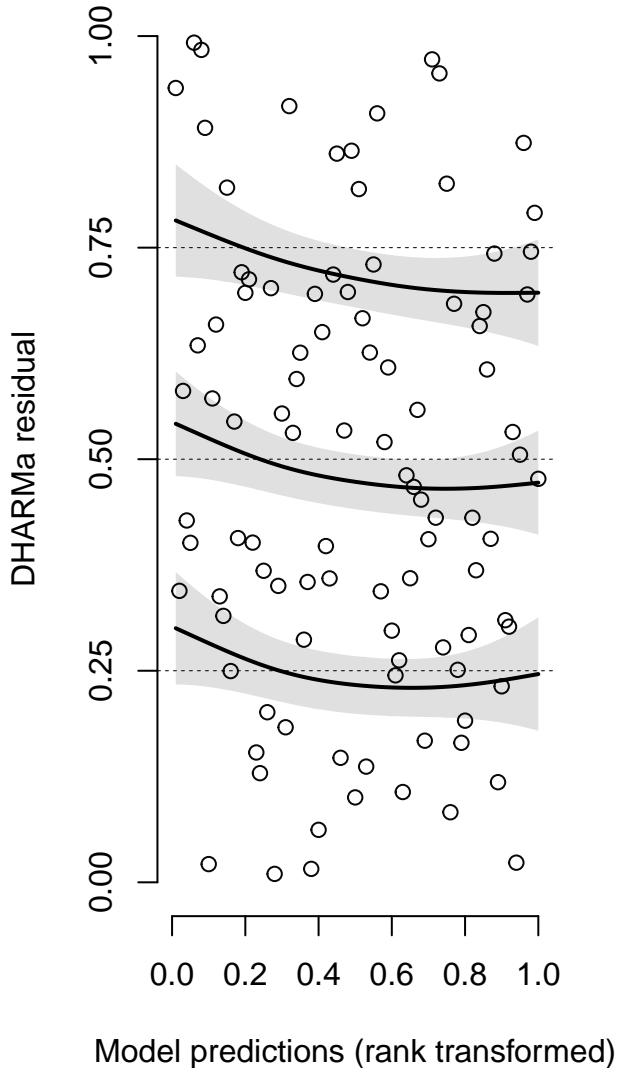


DHARMA residual

QQ plot residuals

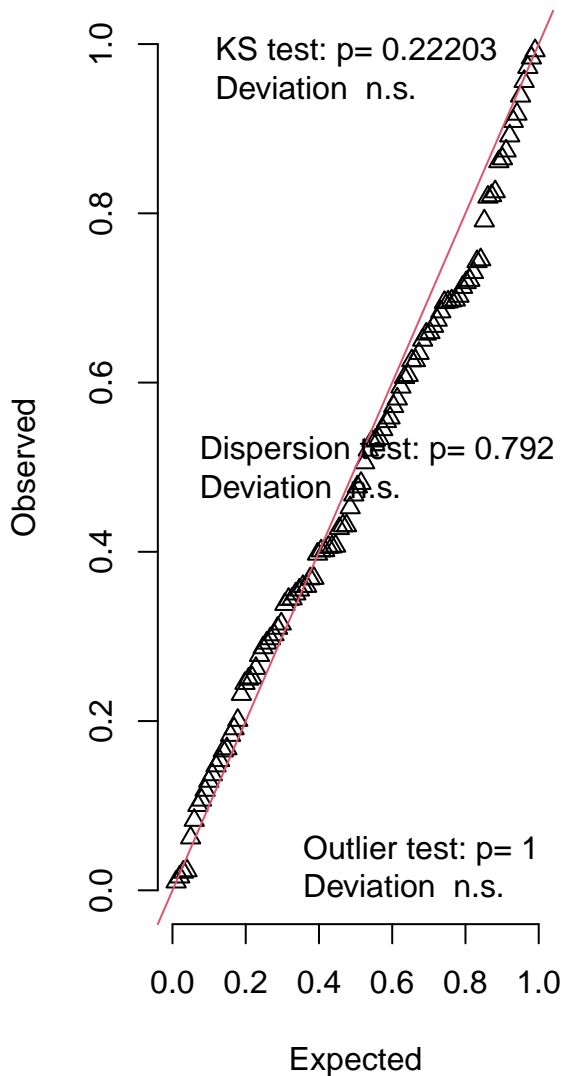


Residual vs. predicted No significant problems detected

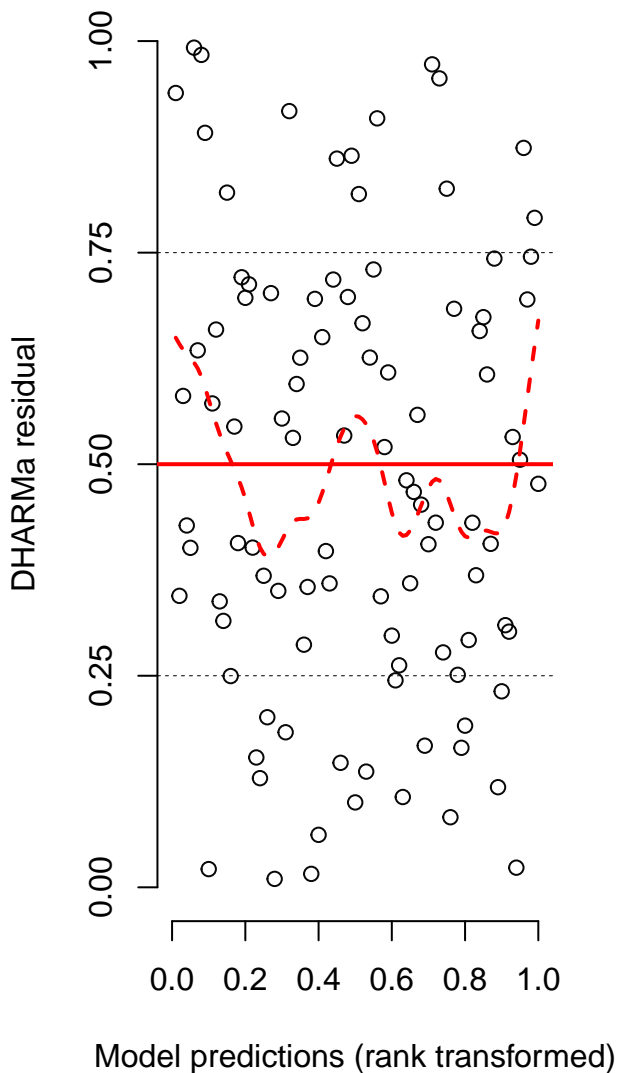


DHARMA residual

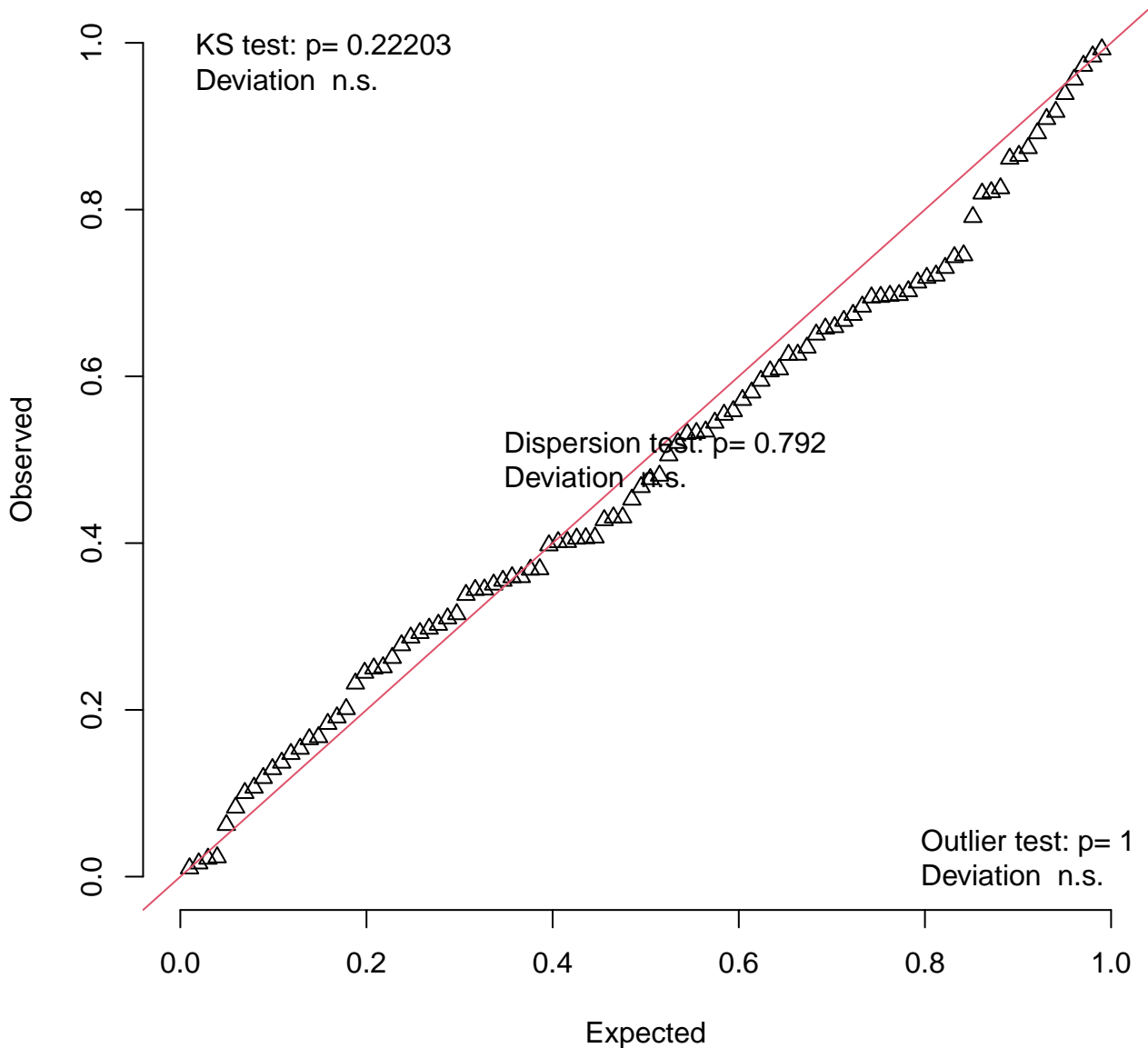
QQ plot residuals



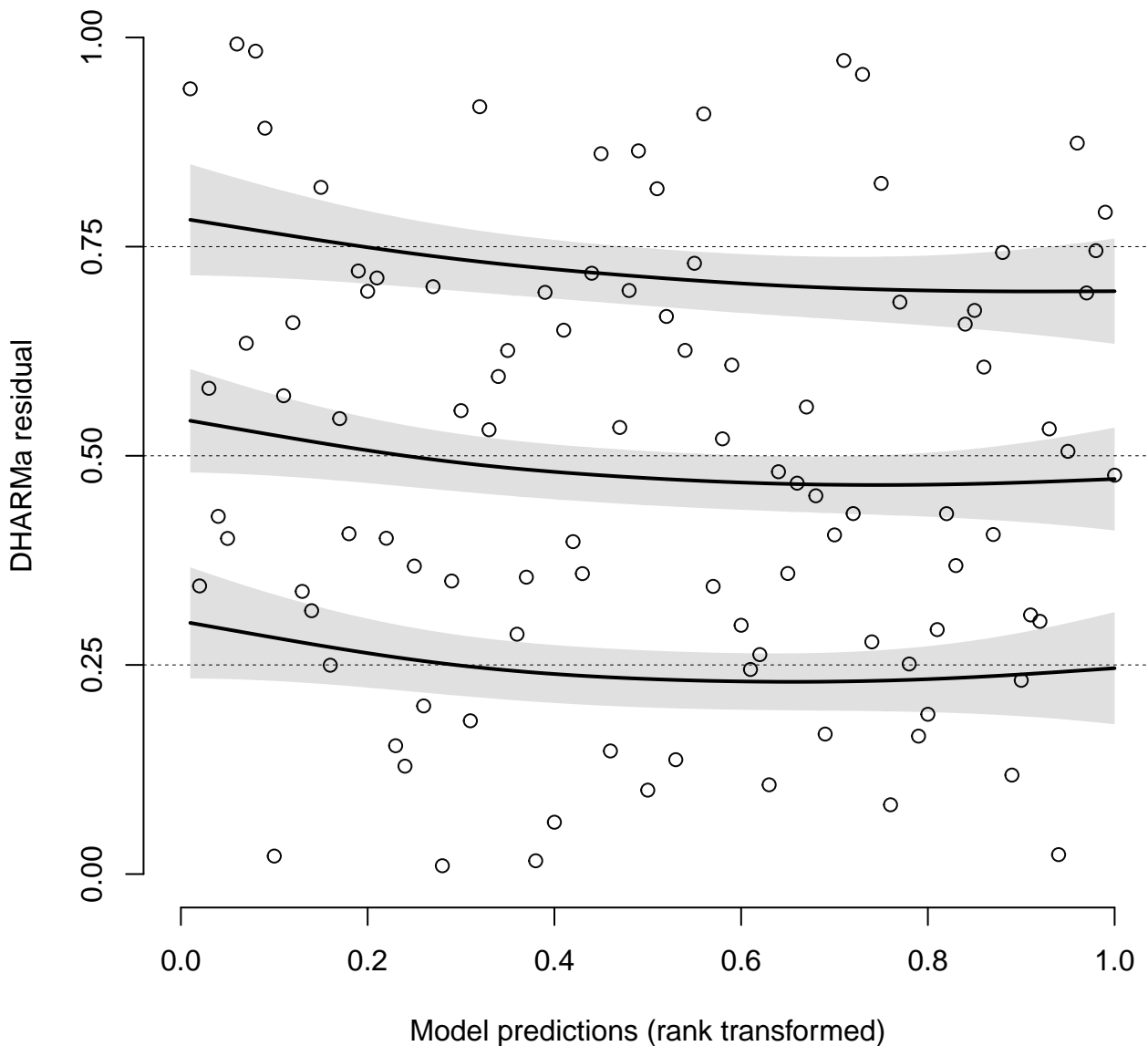
Residual vs. predicted



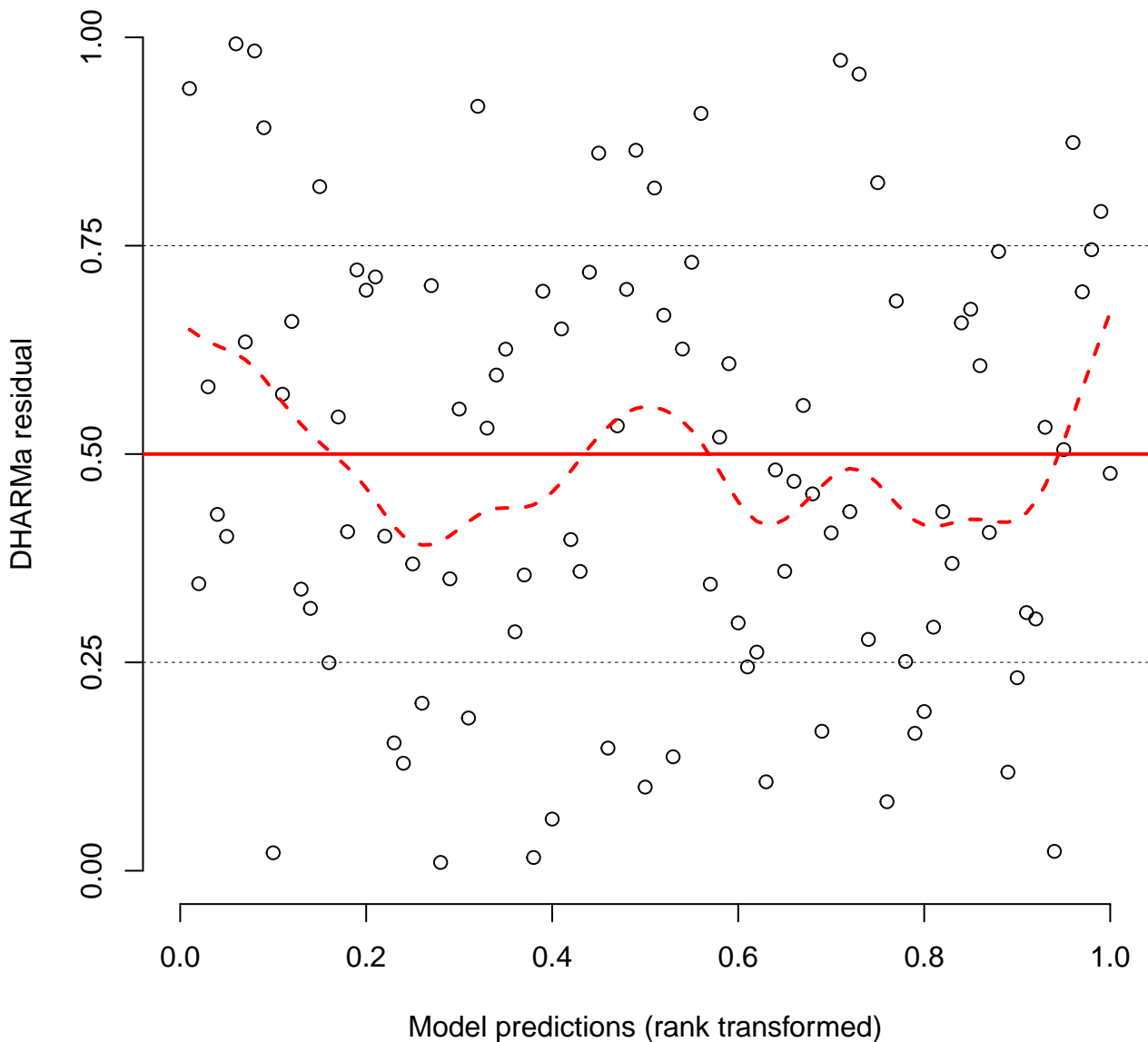
QQ plot residuals



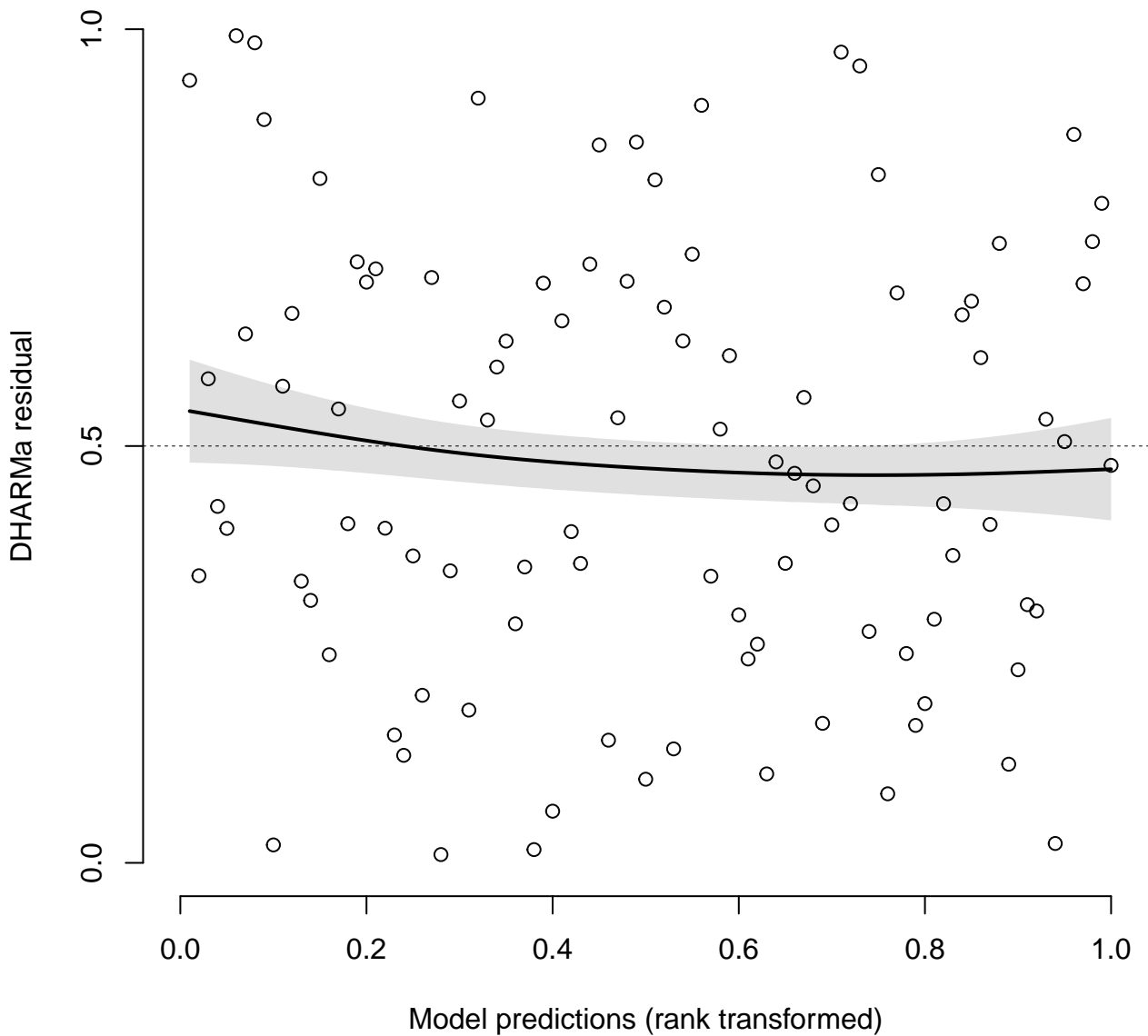
Residual vs. predicted
No significant problems detected



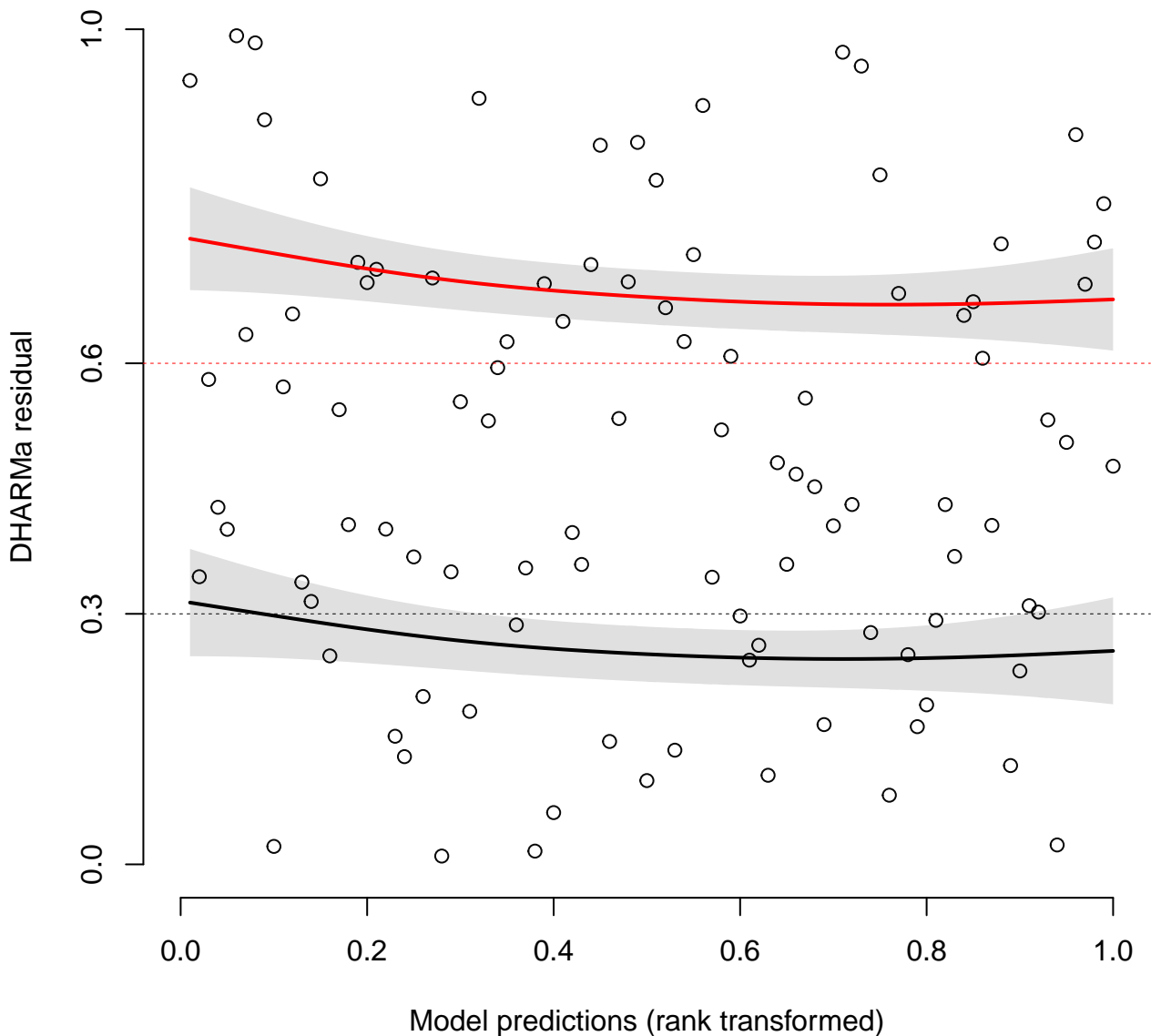
Residual vs. predicted



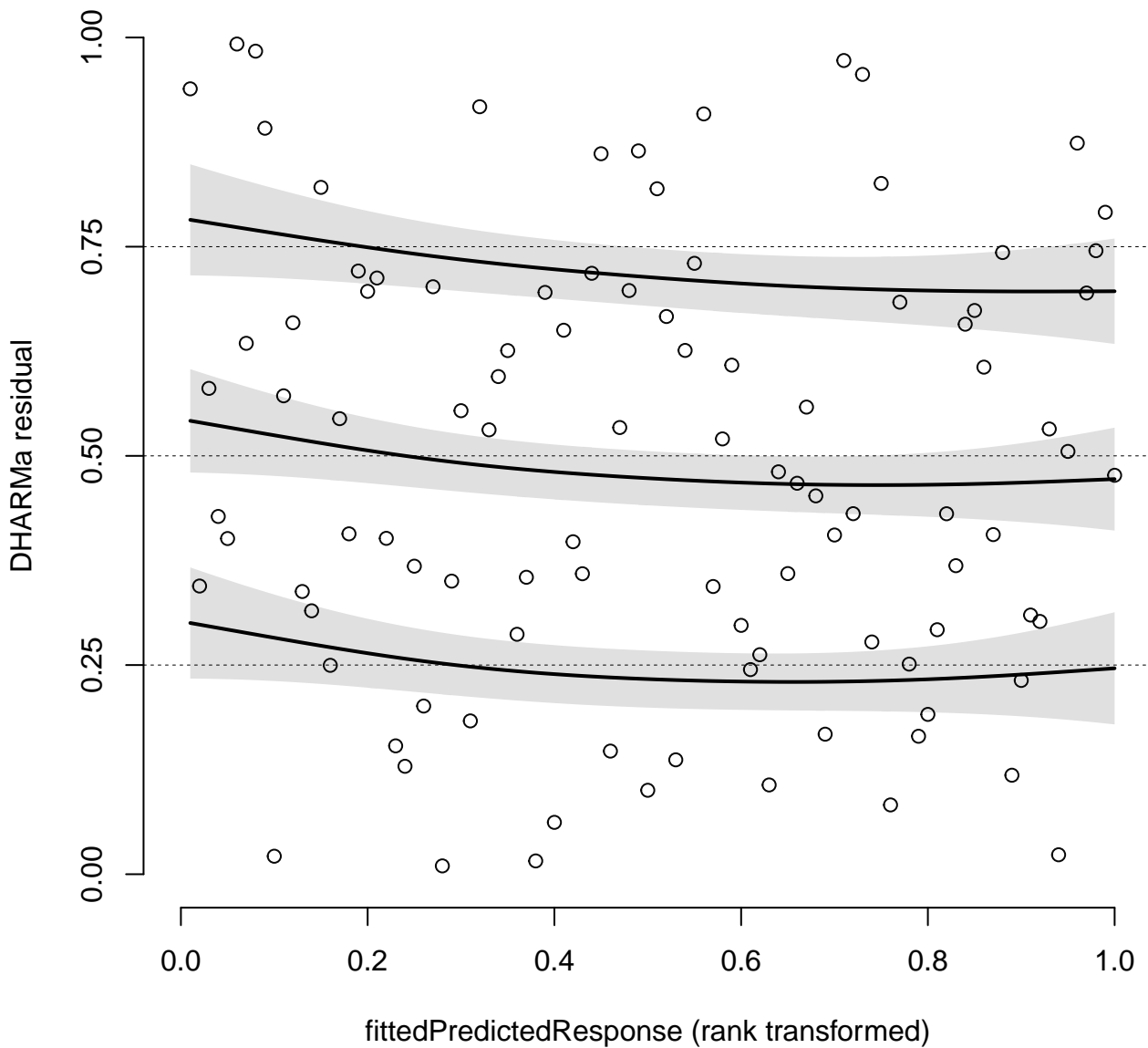
Residual vs. predicted
No significant problems detected



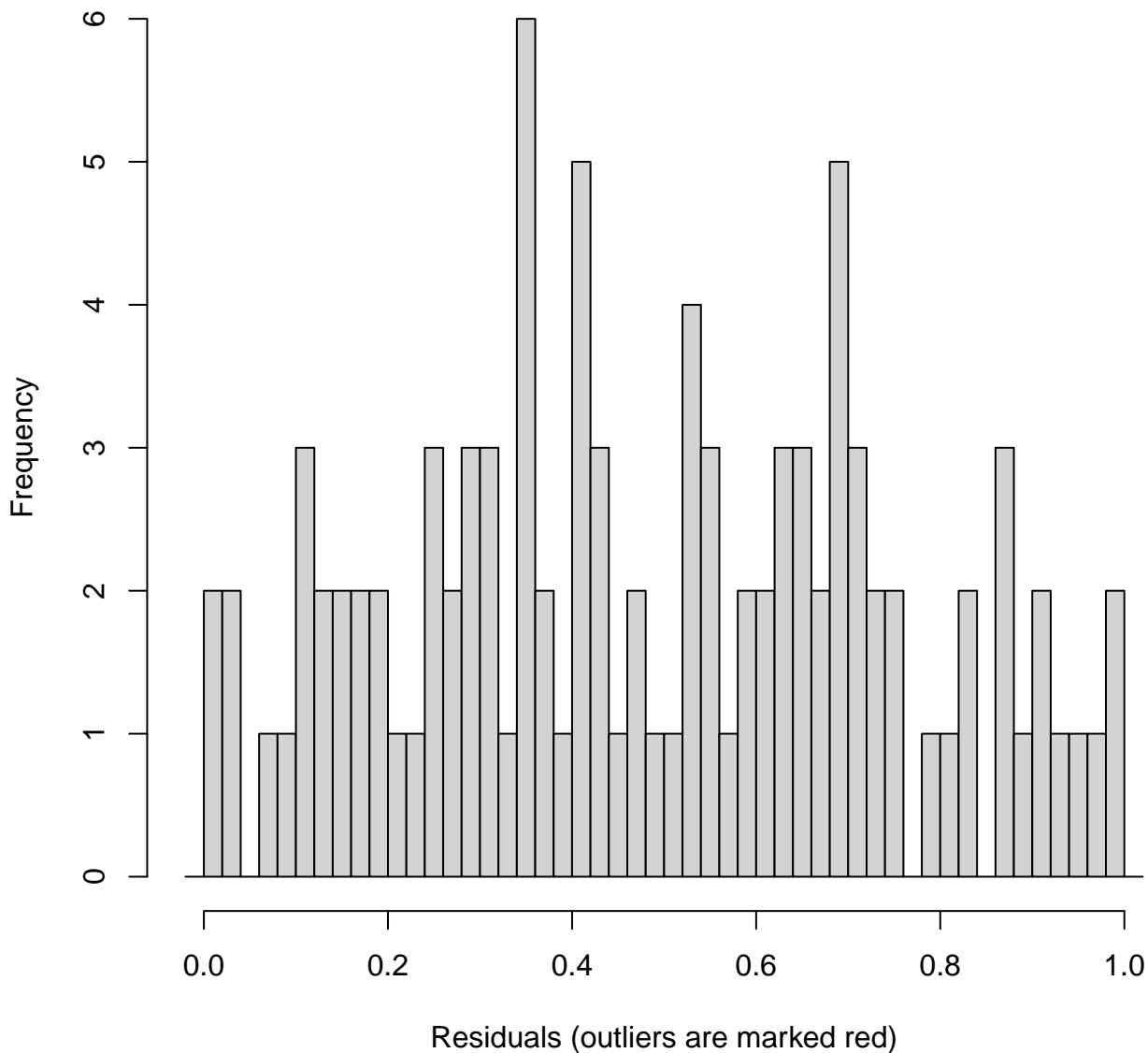
Residual vs. predicted
Quantile deviations detected (red curves)
Combined adjusted quantile test significant



Residual vs. predictor
No significant problems detected

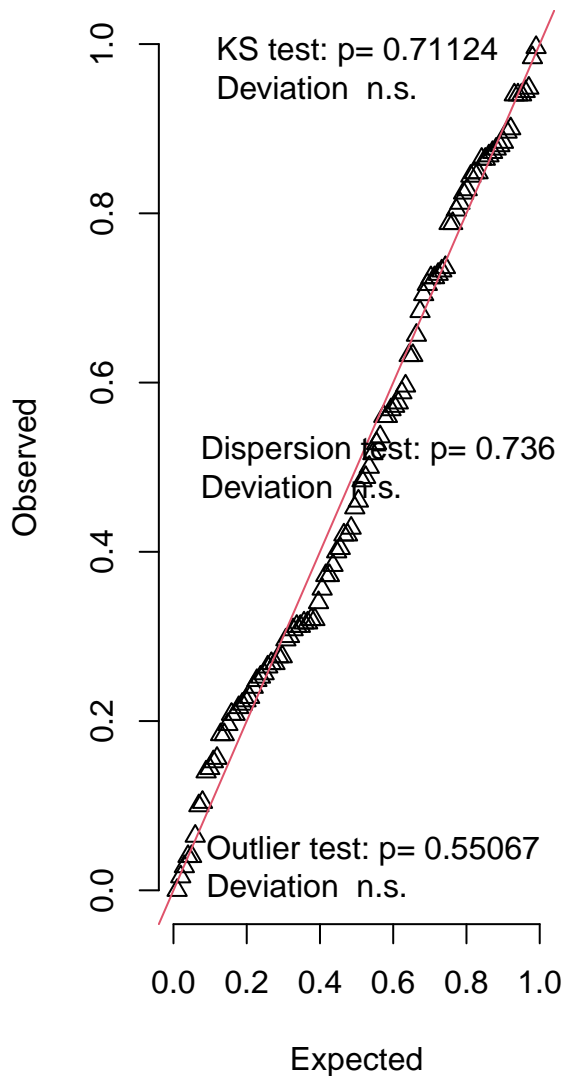


Hist of DHARMA residuals

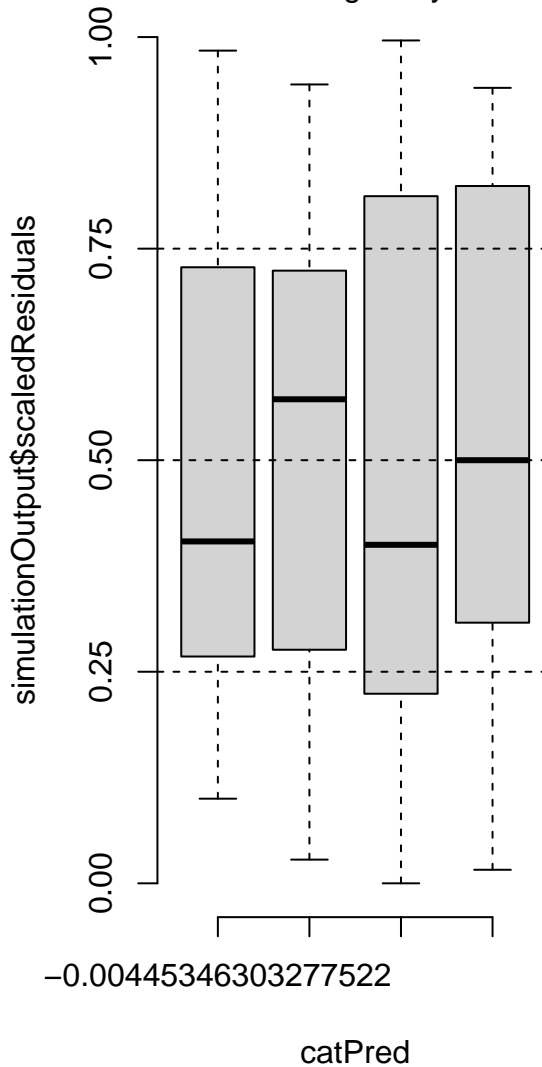


DHARMA residual

QQ plot residuals

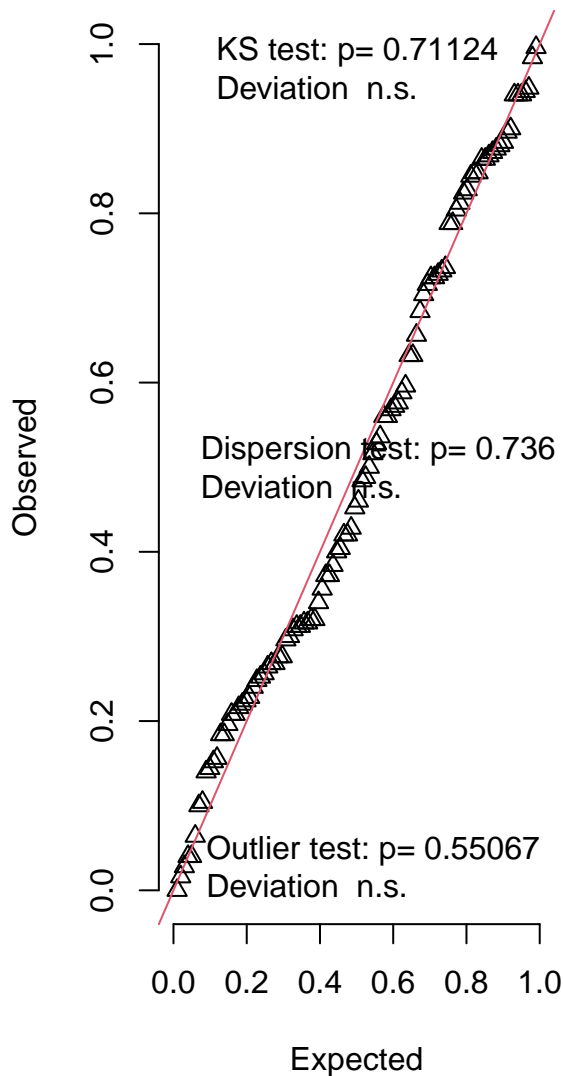


Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.

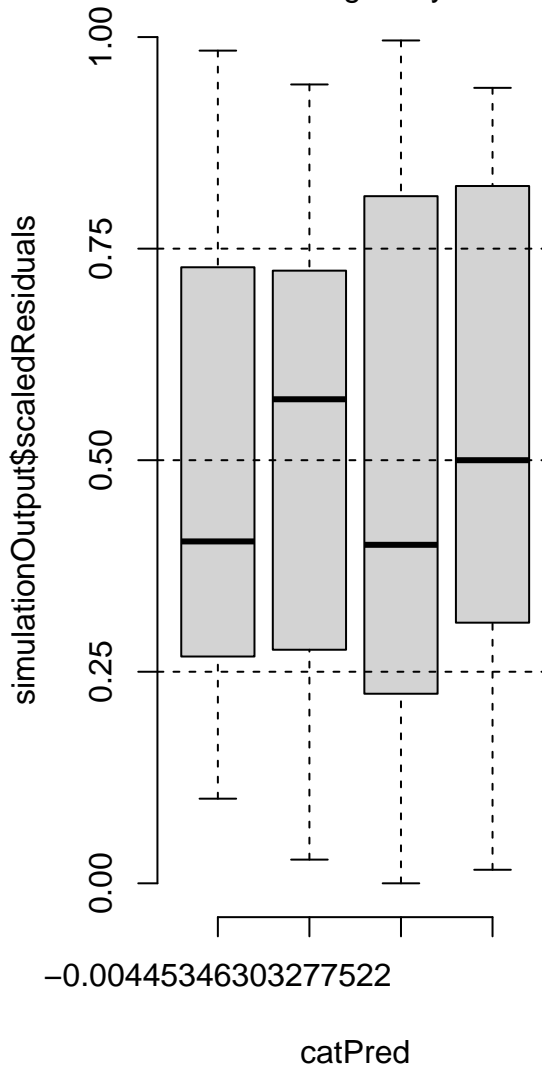


DHARMA residual

QQ plot residuals

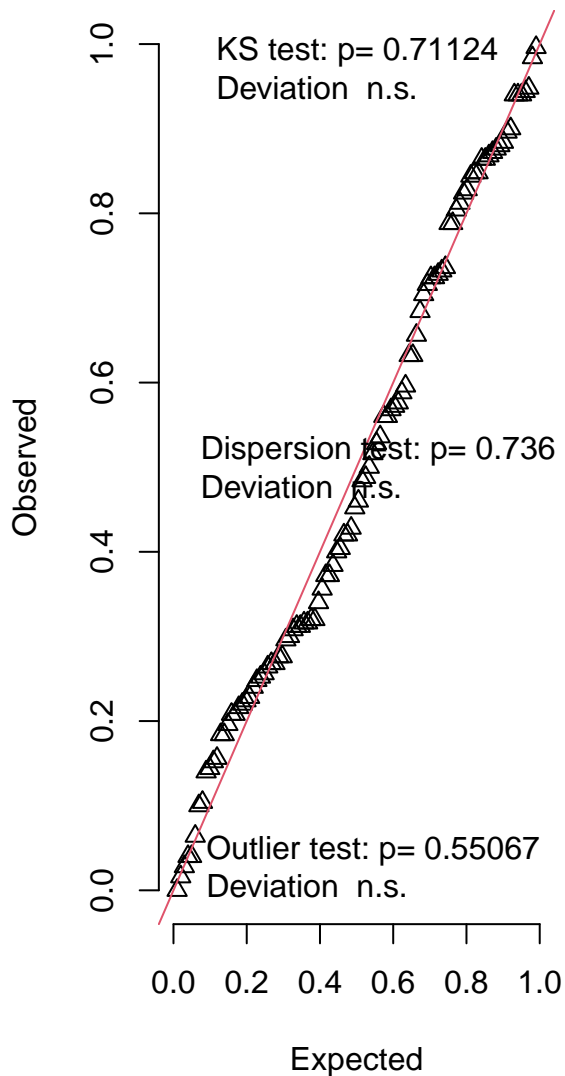


Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.

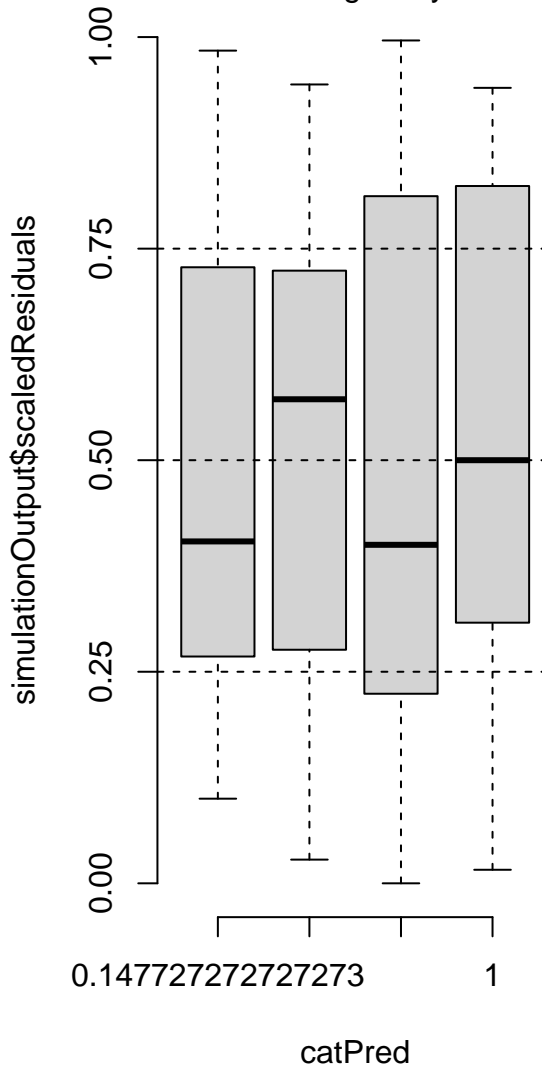


DHARMA residual

QQ plot residuals

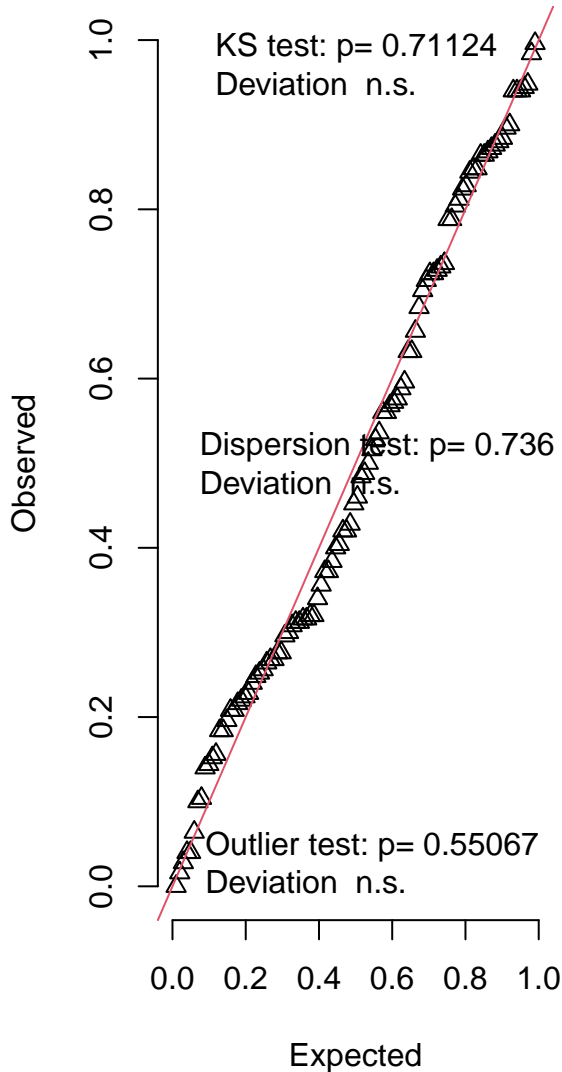


Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.

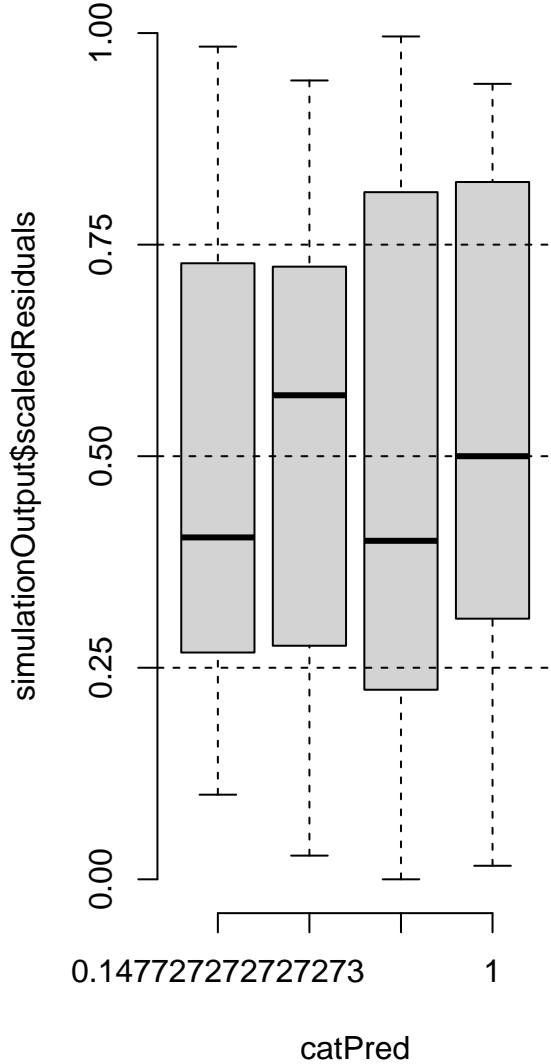


DHARMA residual

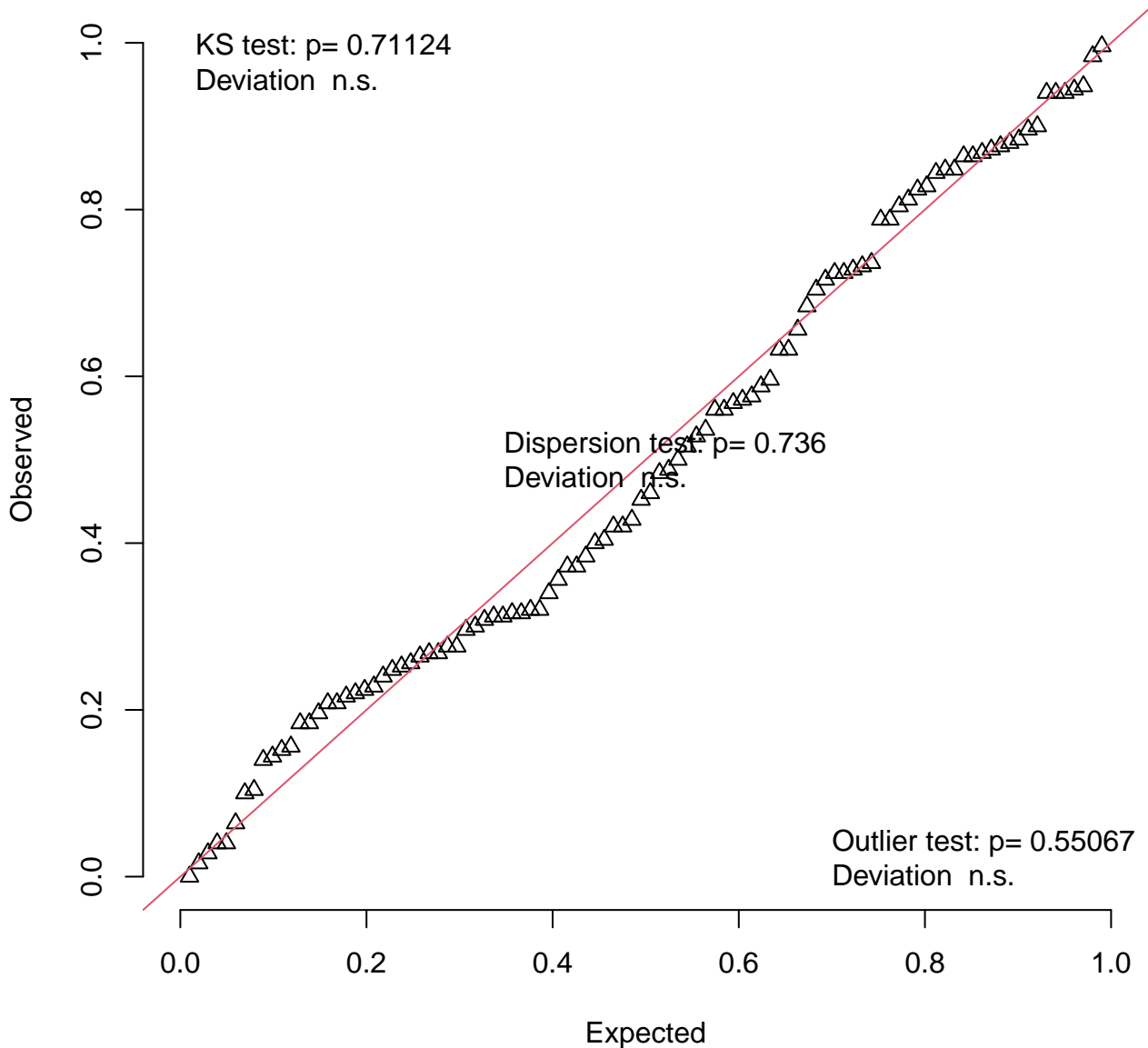
QQ plot residuals



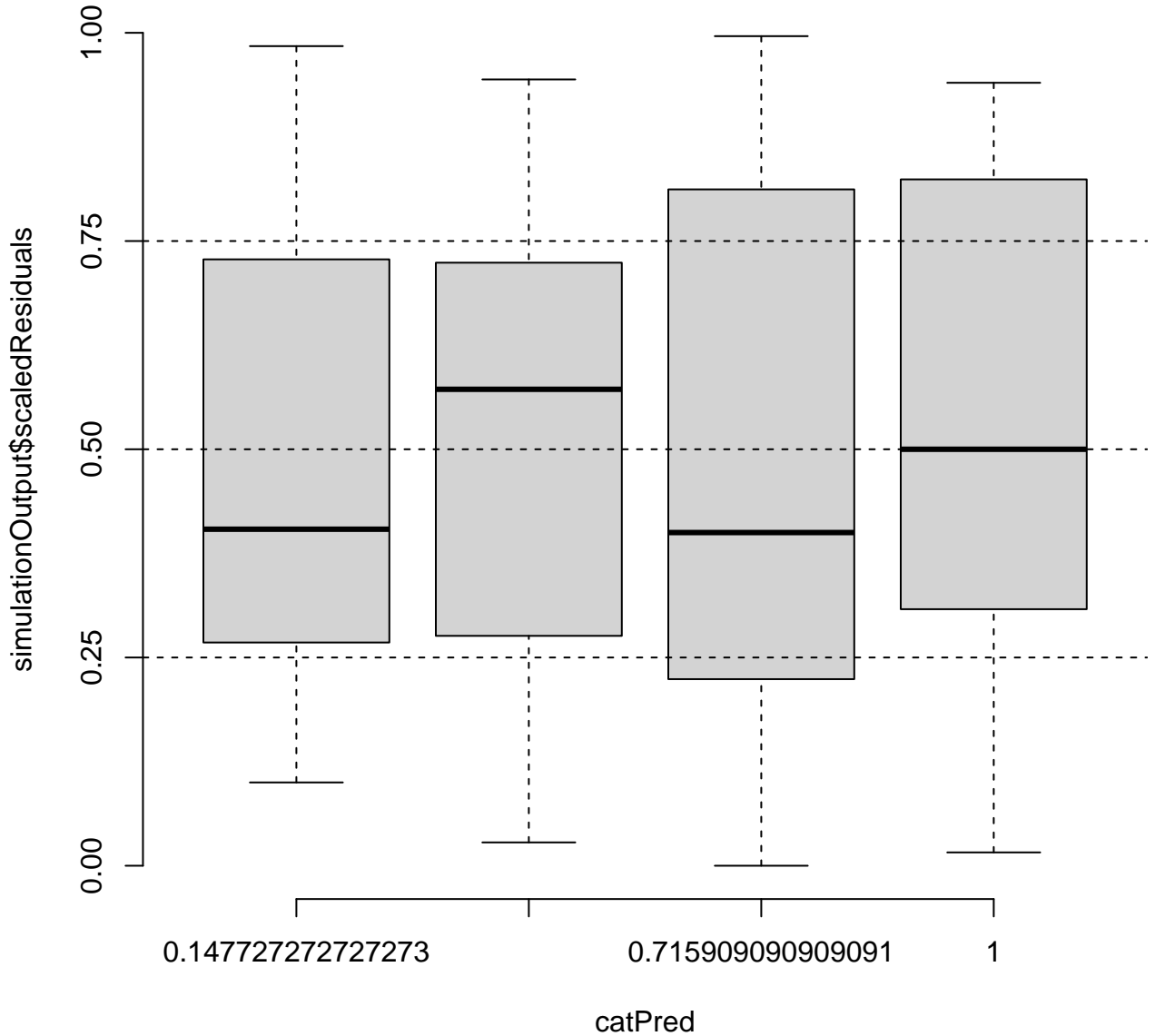
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



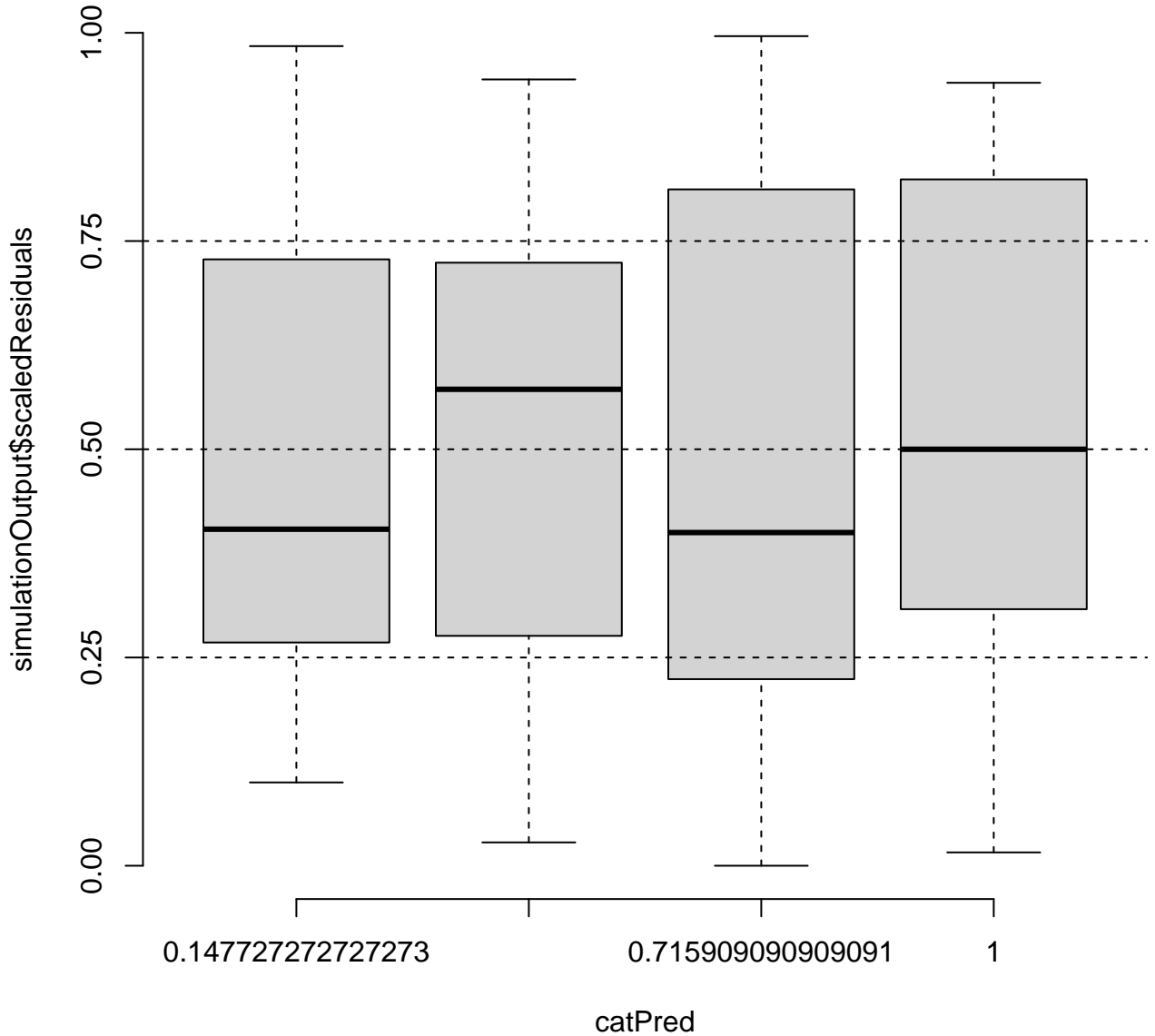
QQ plot residuals



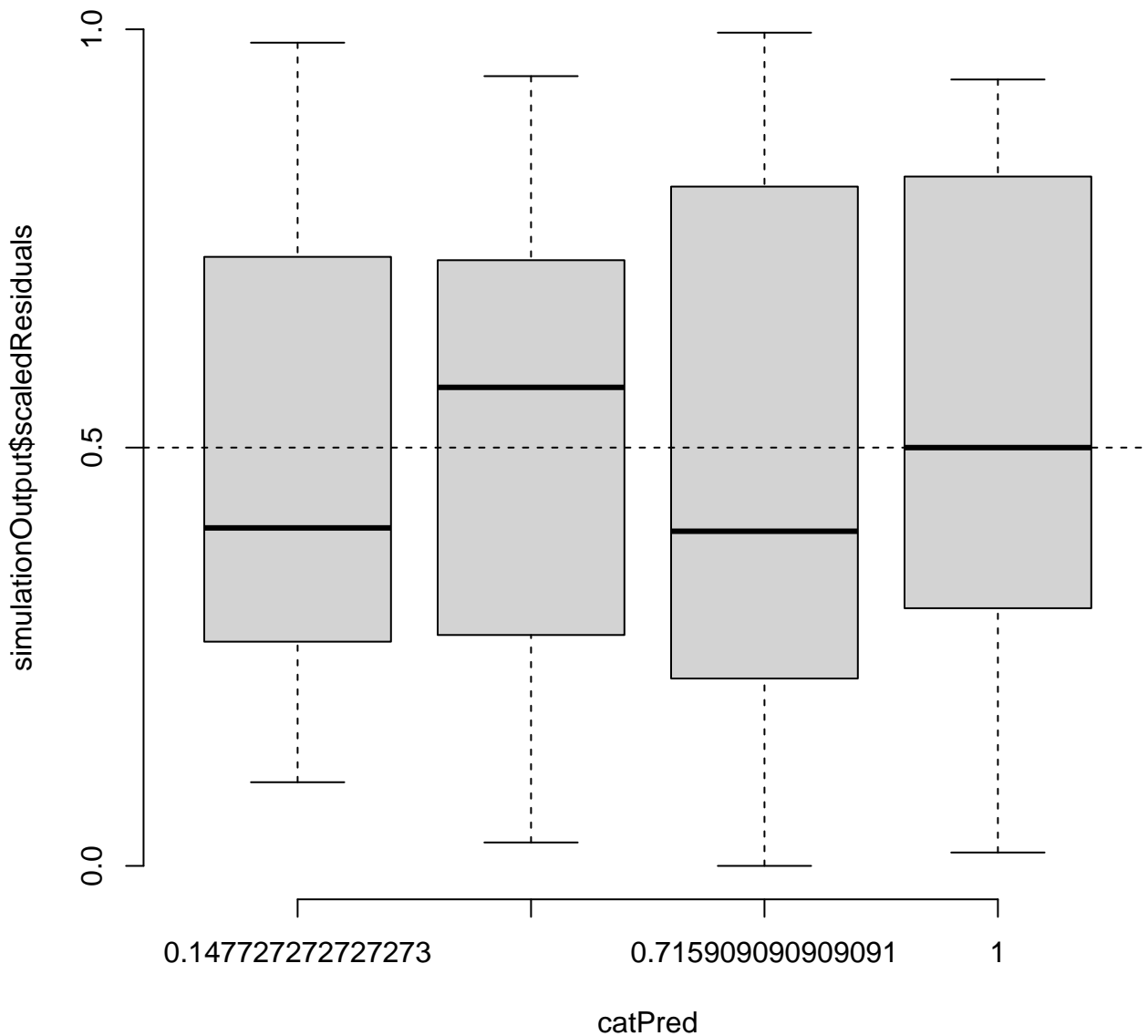
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



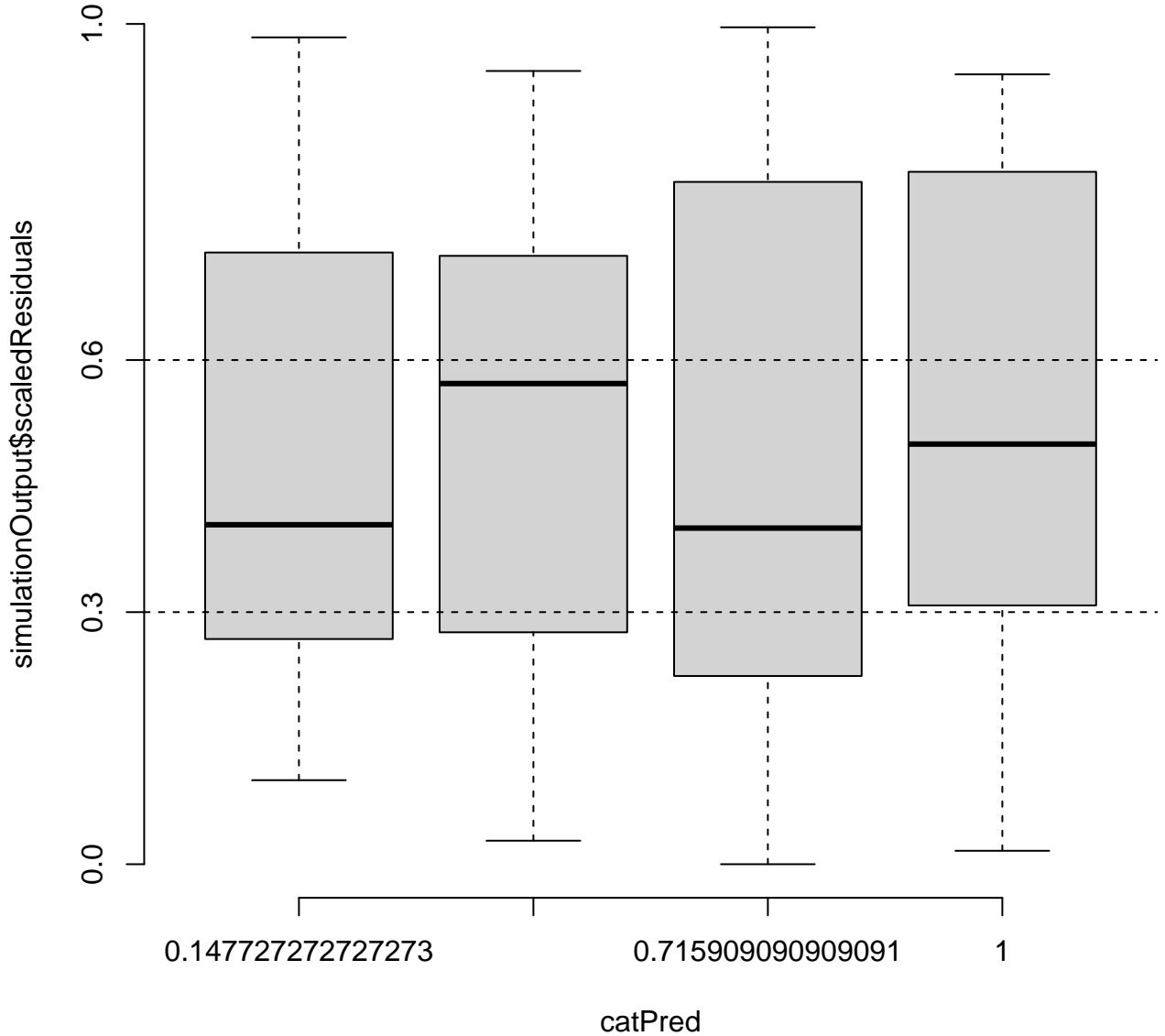
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



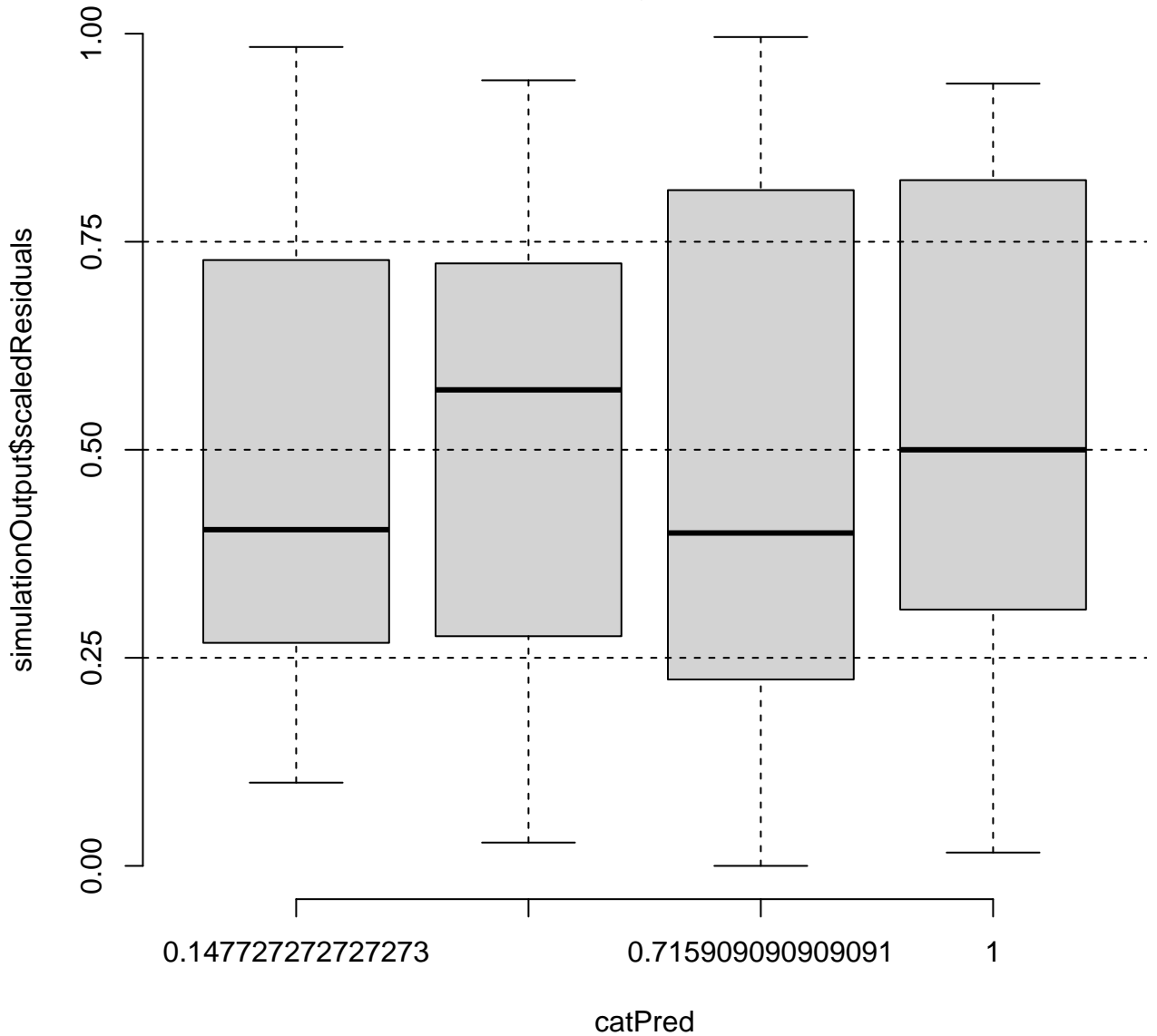
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



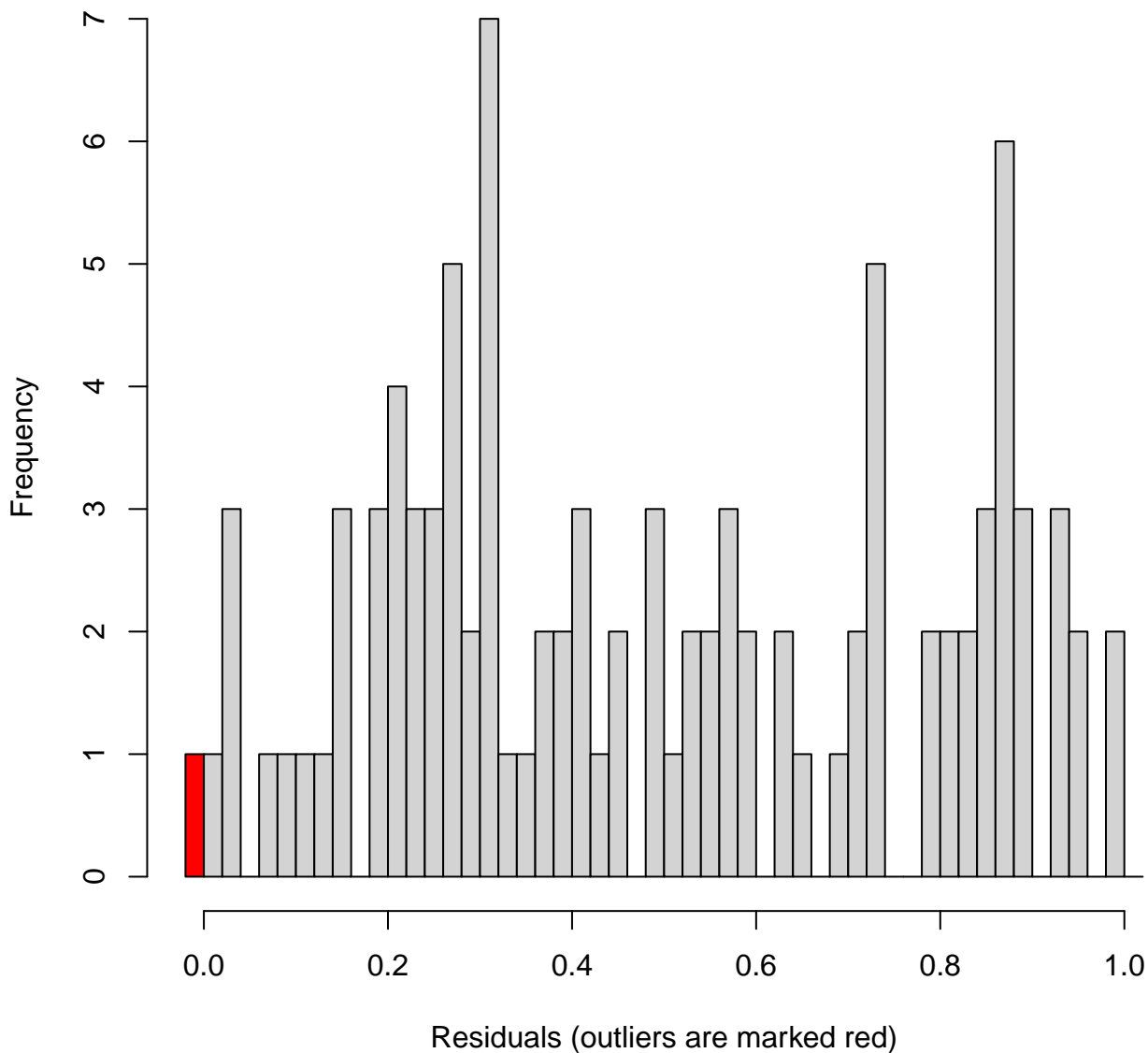
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



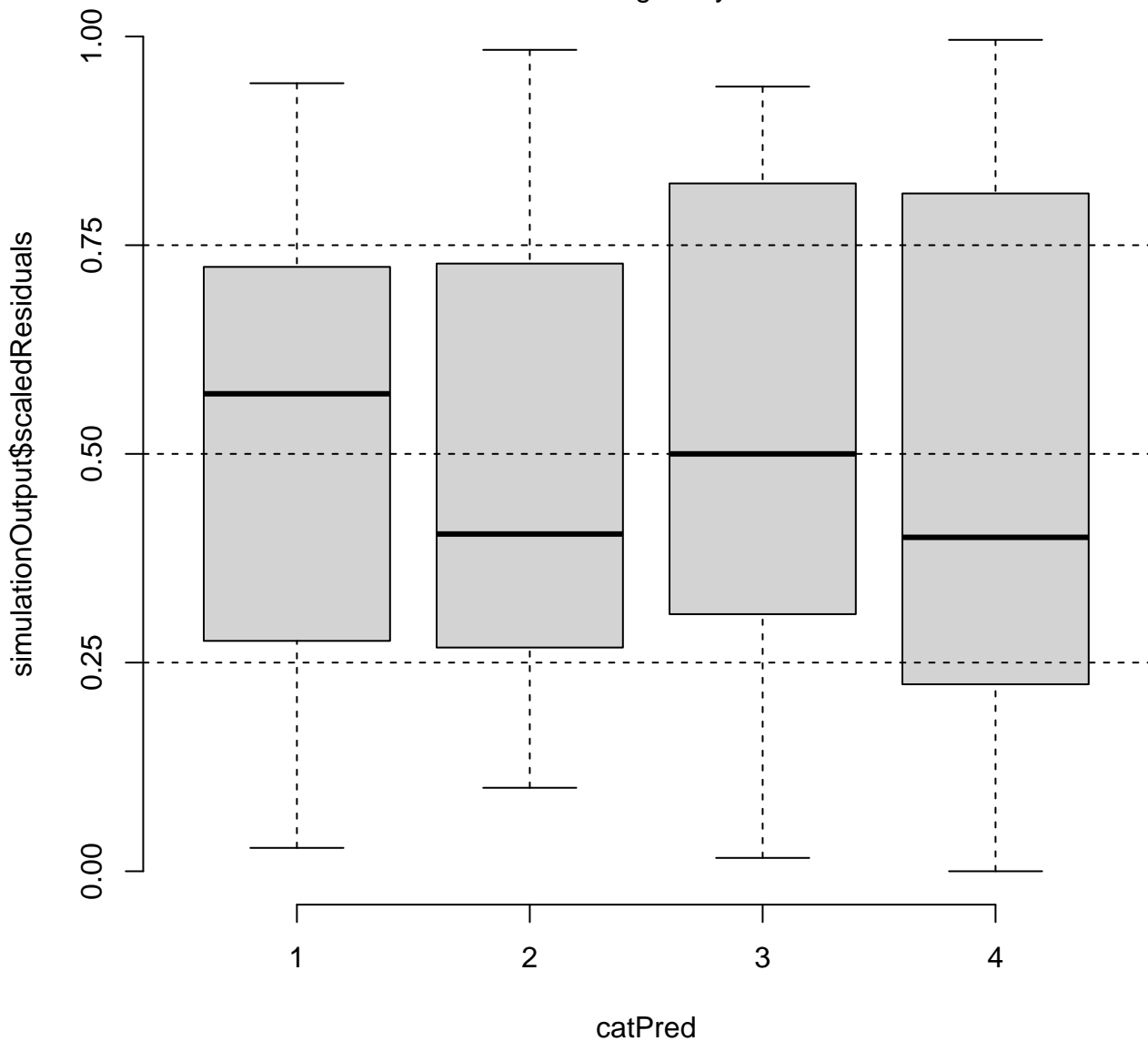
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



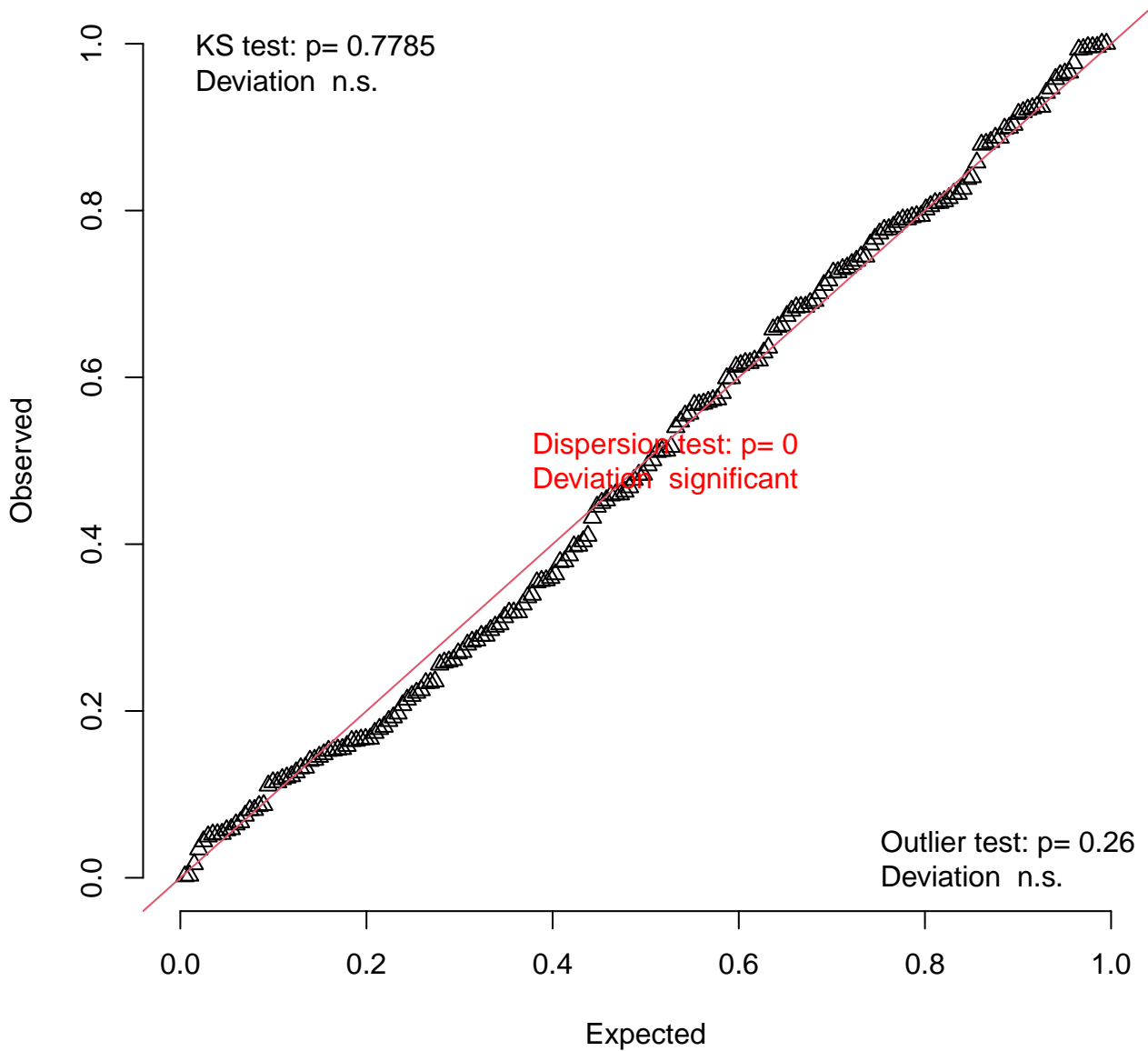
Hist of DHARMA residuals



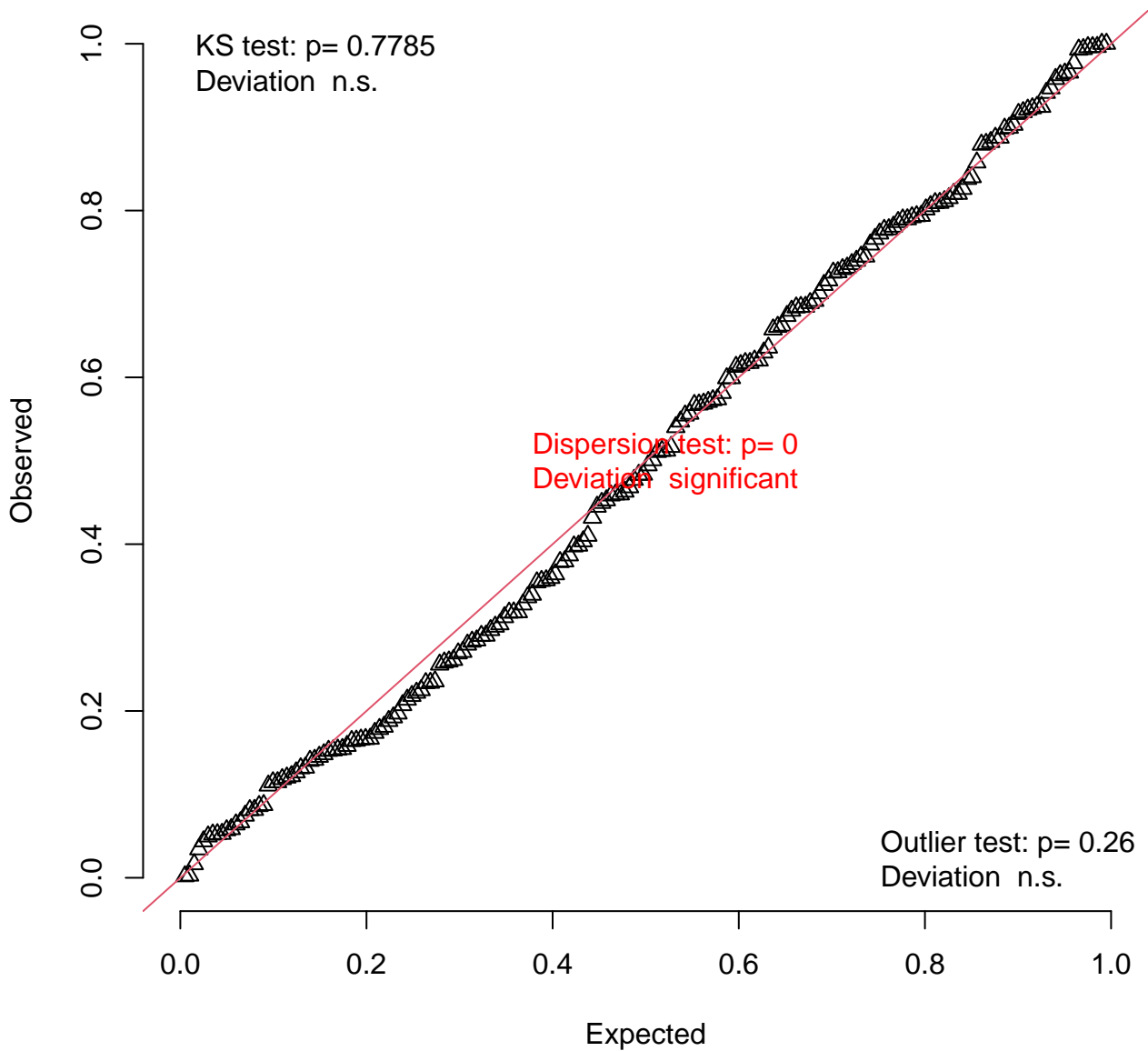
Within-group deviation from uniformity n.s.
Levene Test for homogeneity of variance n.s.



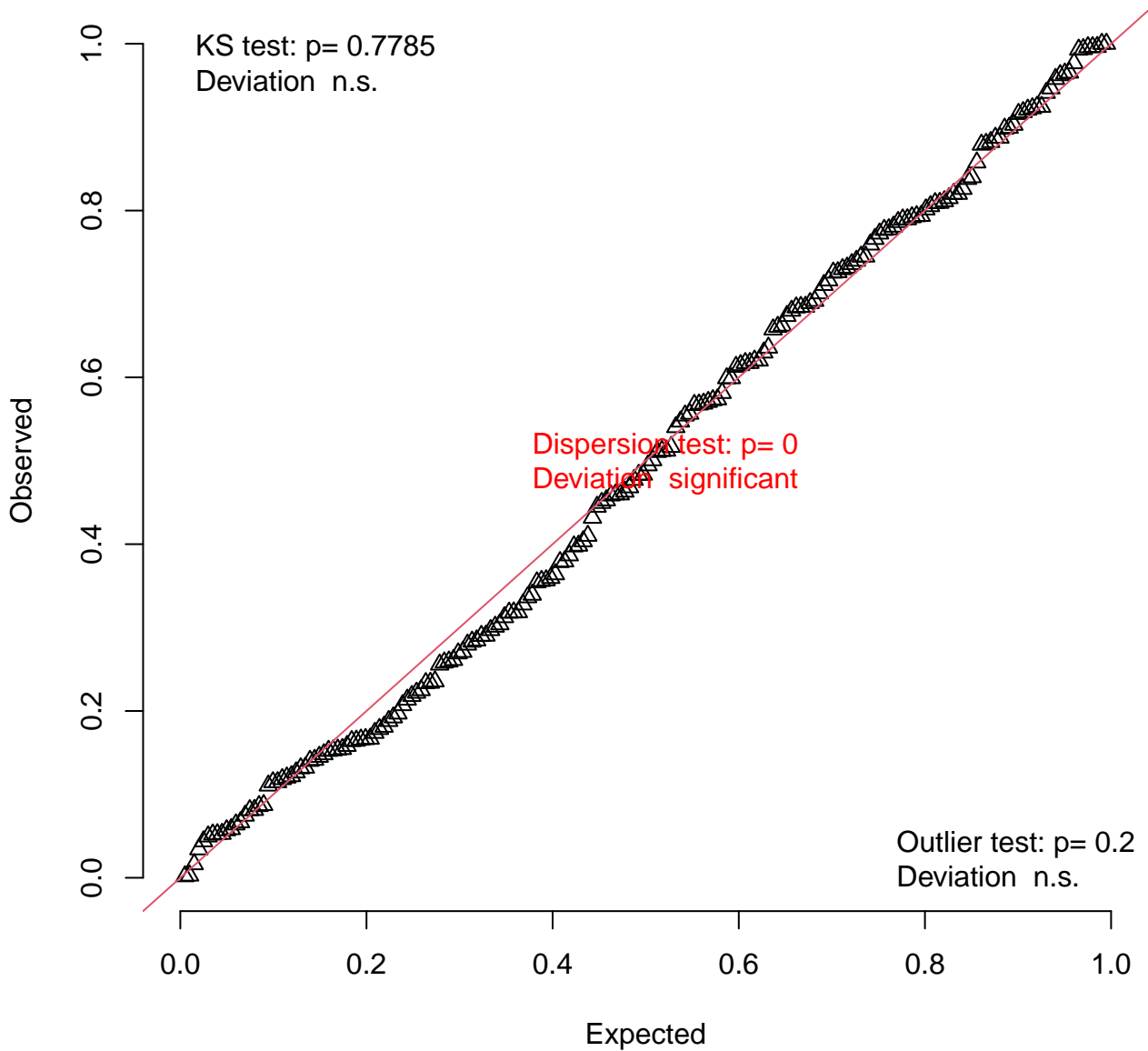
QQ plot residuals



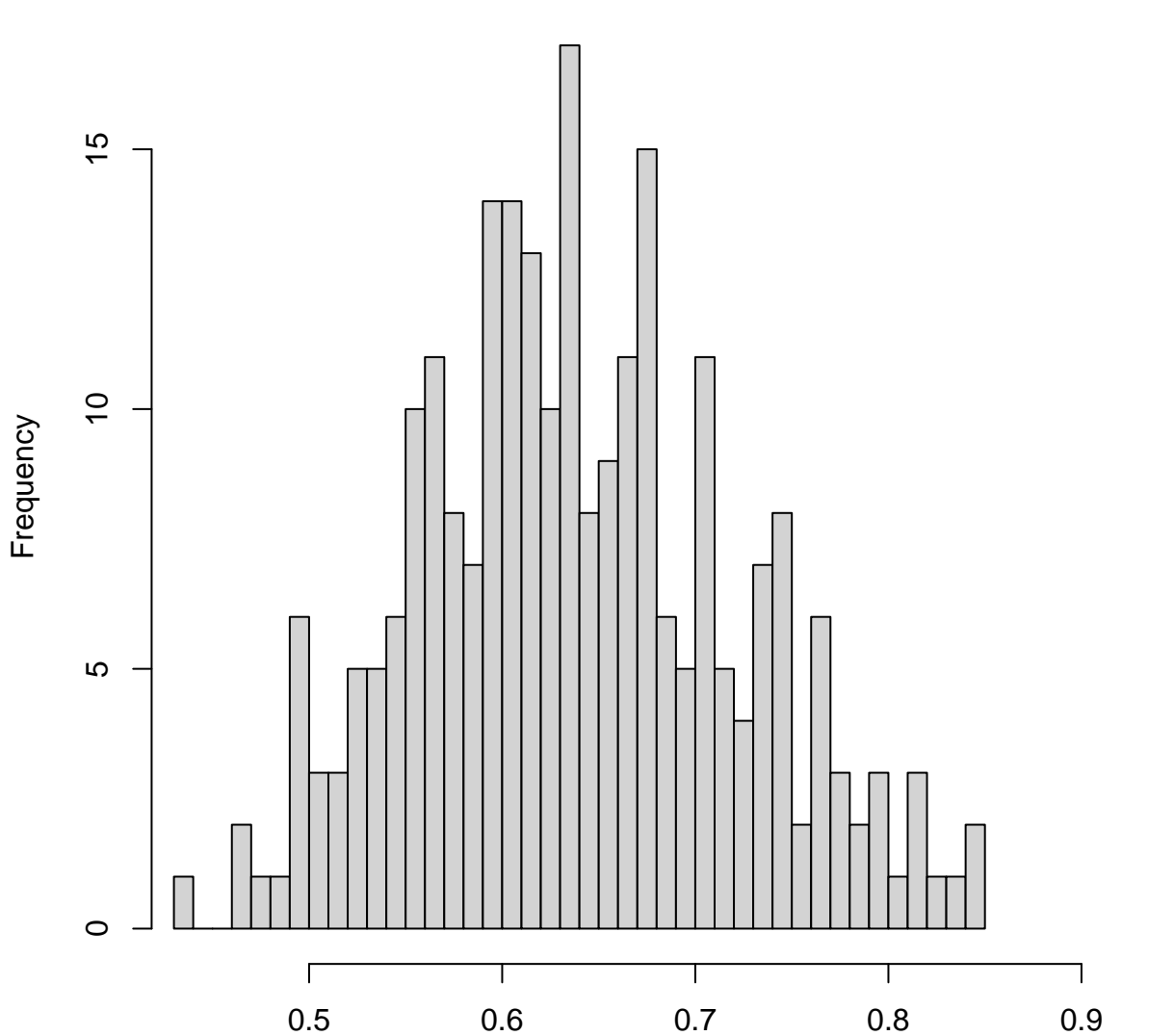
QQ plot residuals



QQ plot residuals

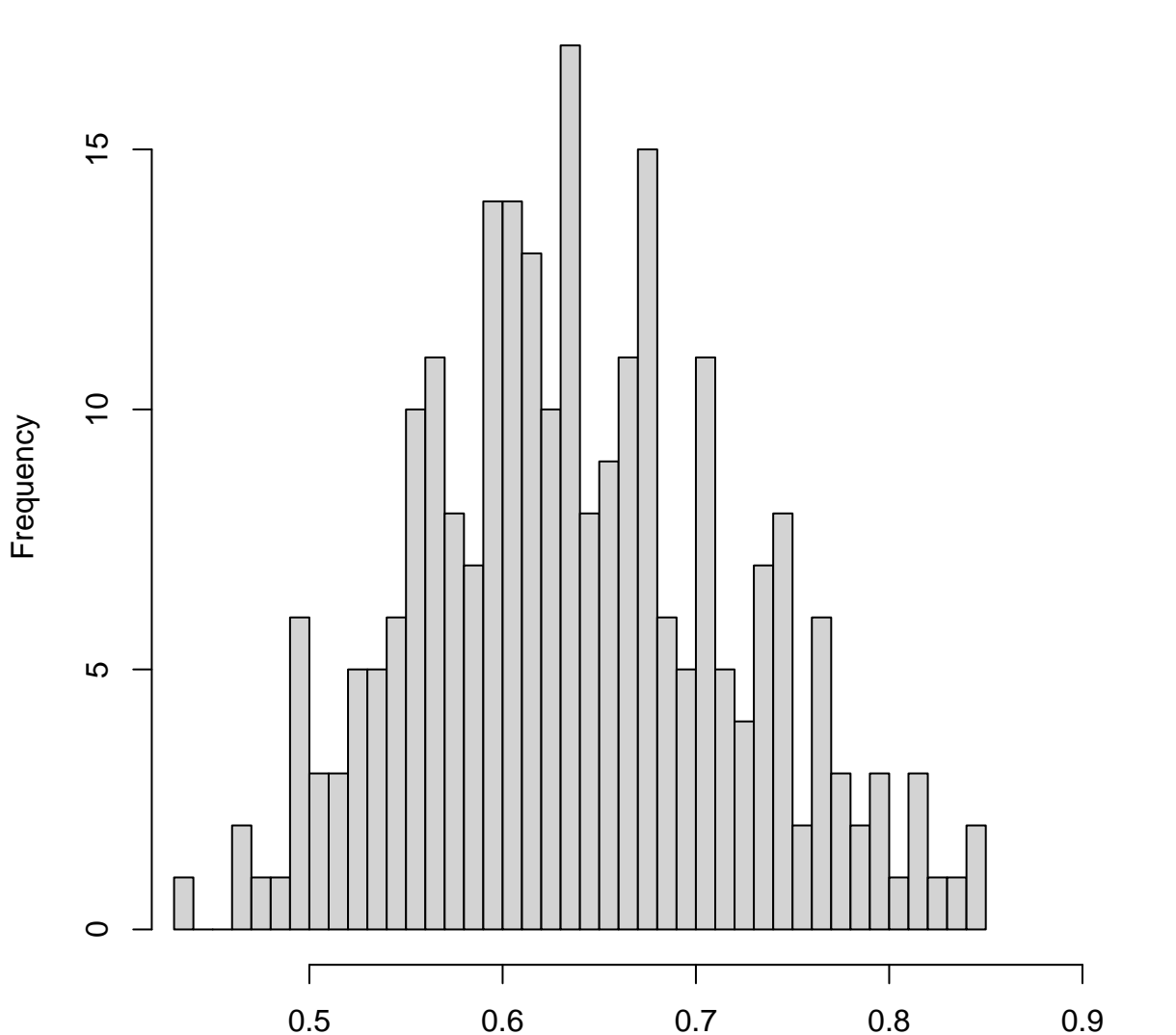


**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



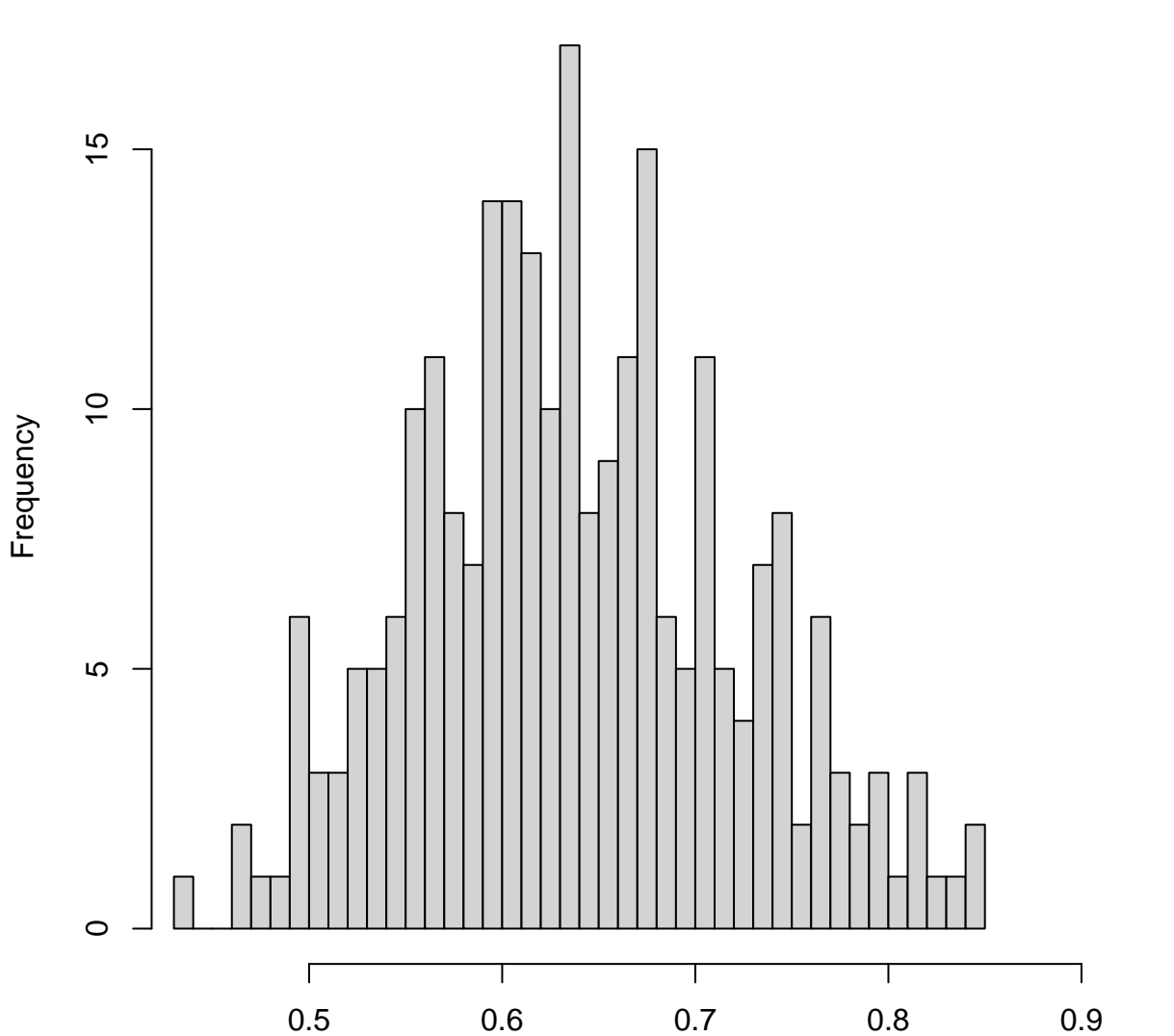
Simulated values, red line = fitted model. p-value (two.sided) = 0

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



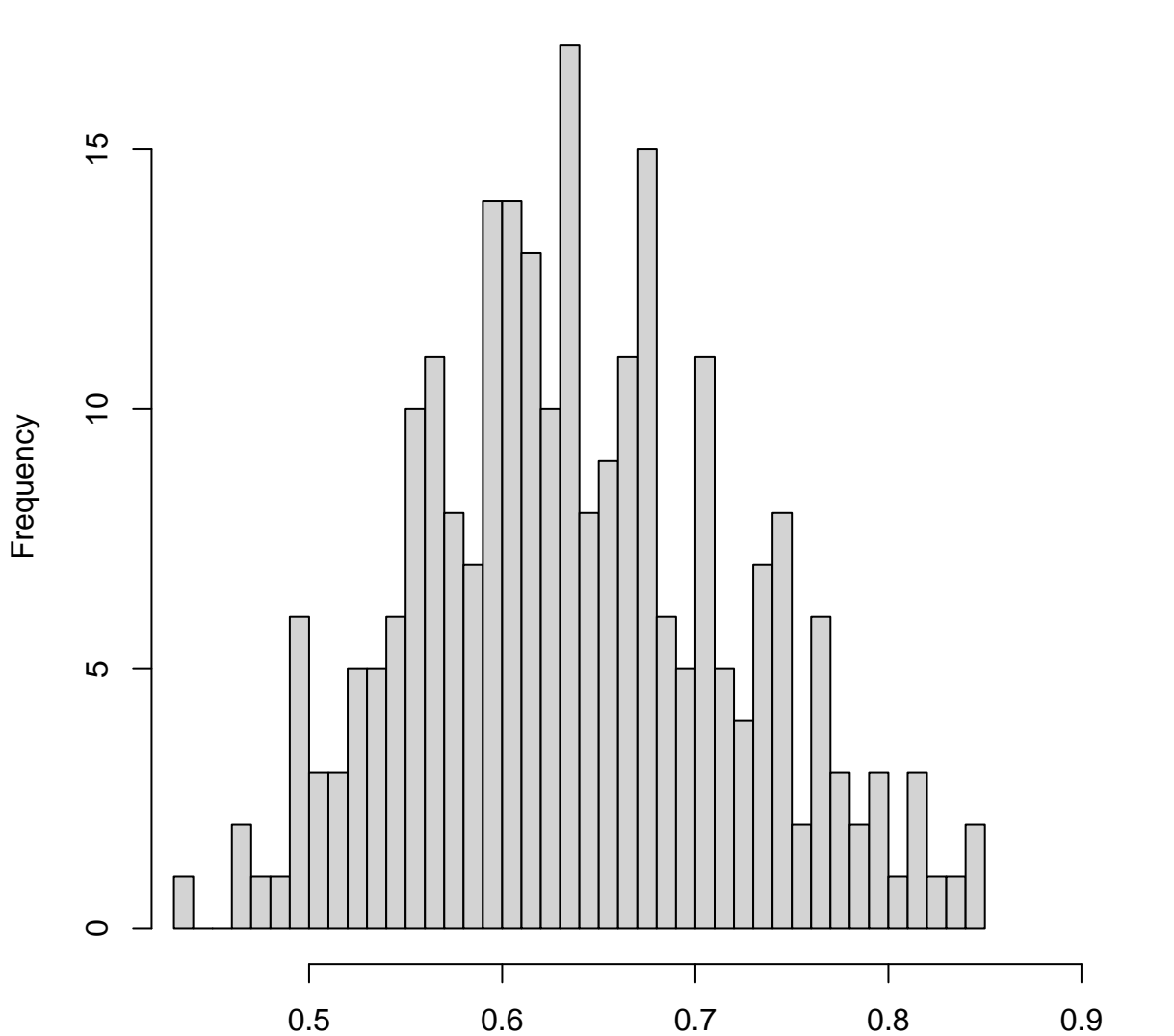
Simulated values, red line = fitted model. p-value (less) = 1

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



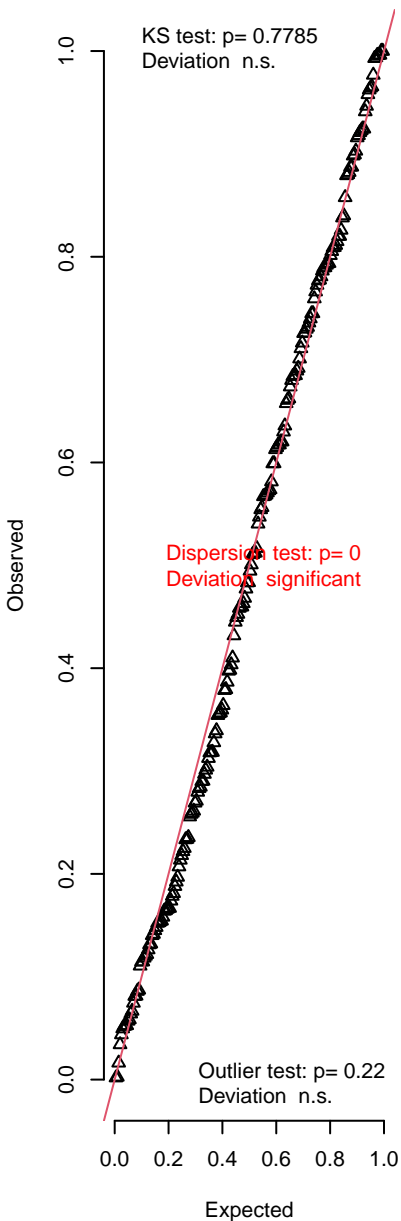
Simulated values, red line = fitted model. p-value (greater) = 0

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**

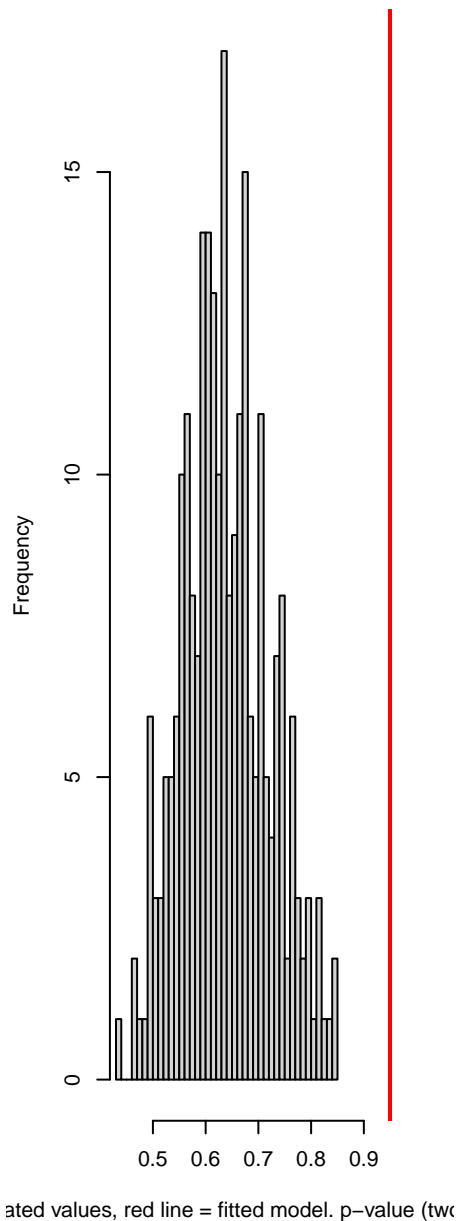


Simulated values, red line = fitted model. p-value (two.sided) = 0

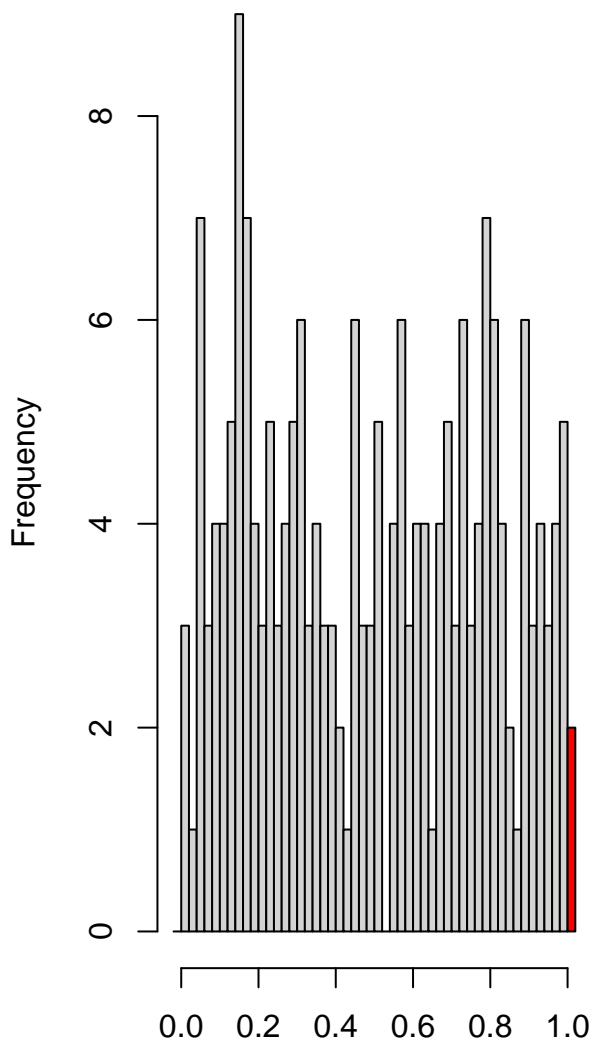
QQ plot residuals



DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

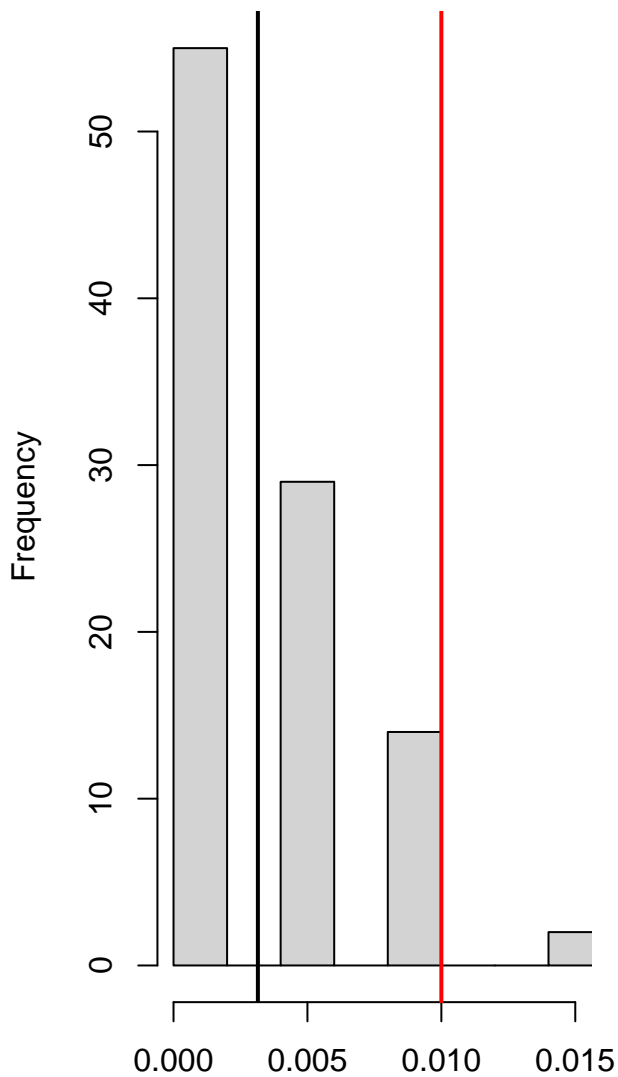


Outlier test n.s.



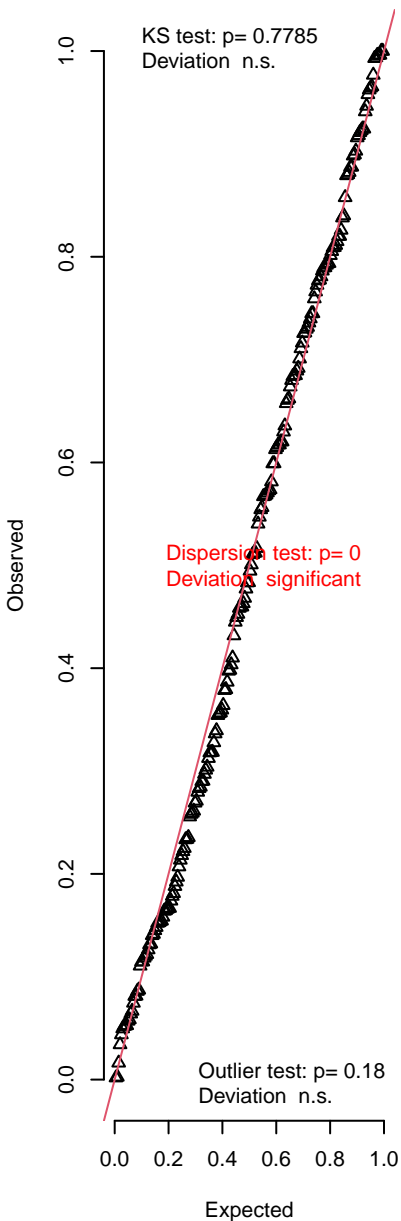
Residuals (outliers are marked red)

Histogram of frequBoot

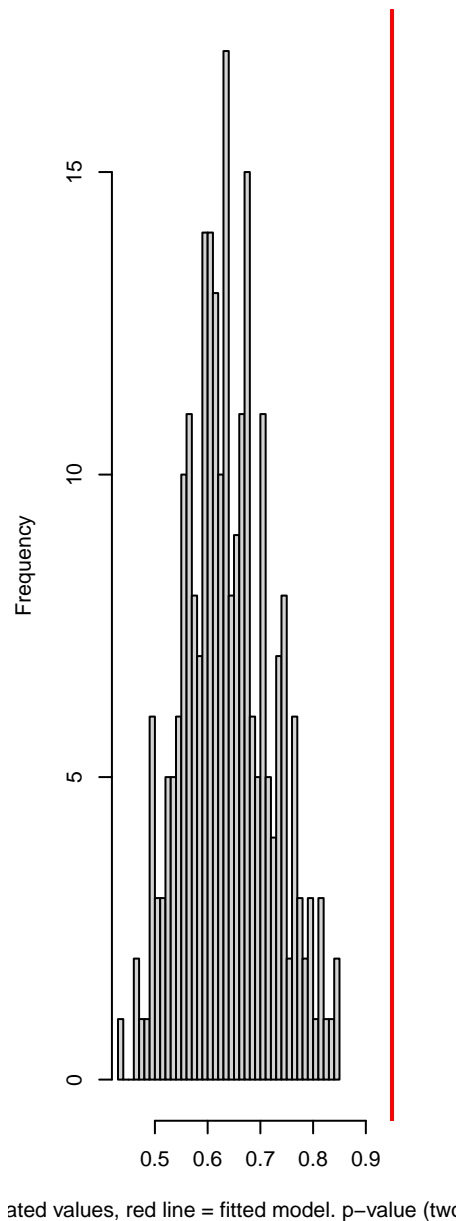


frequBoot

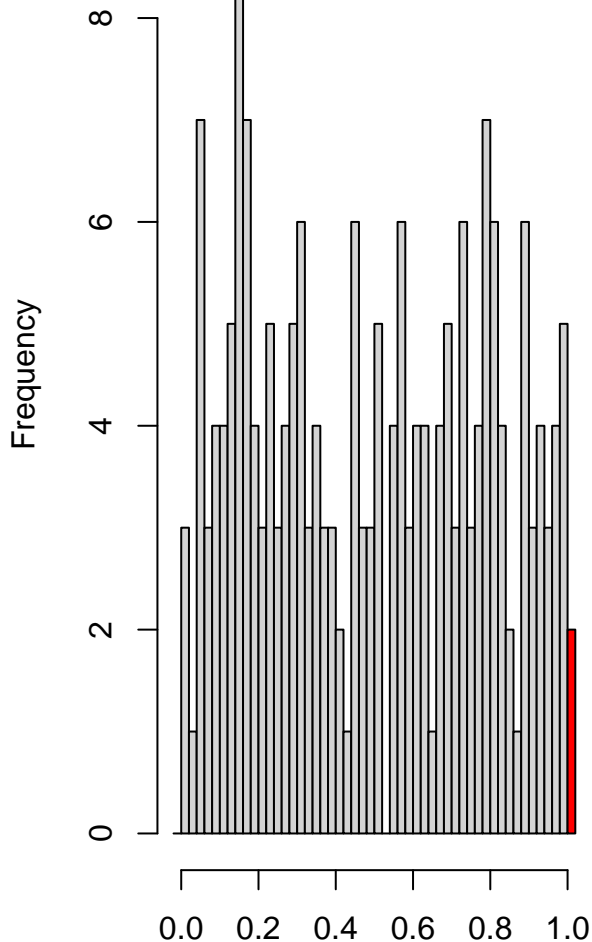
QQ plot residuals



DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

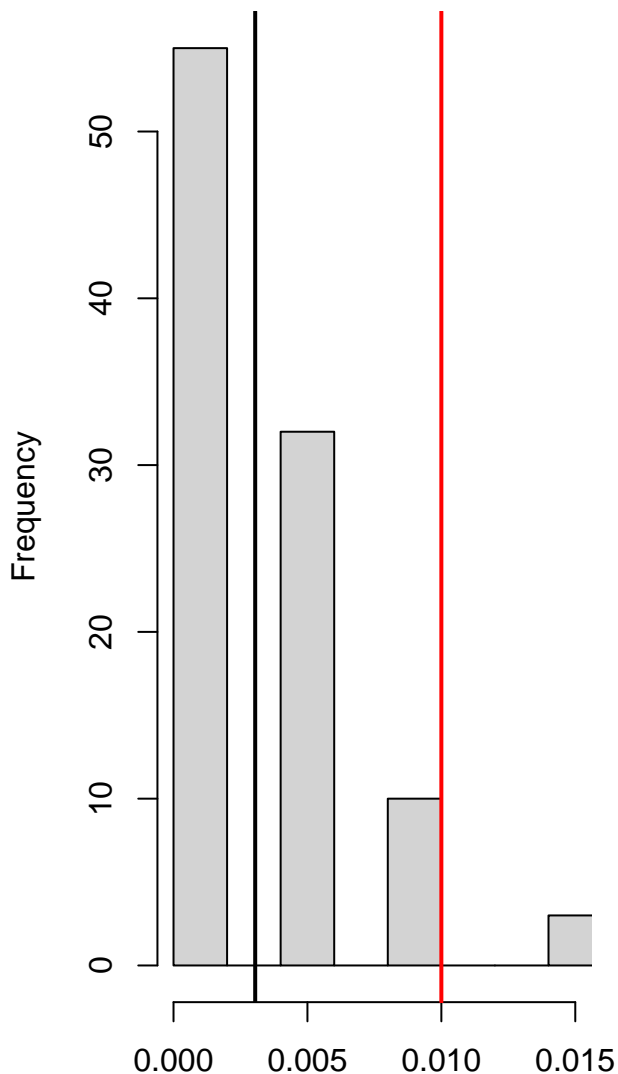


Outlier test n.s.



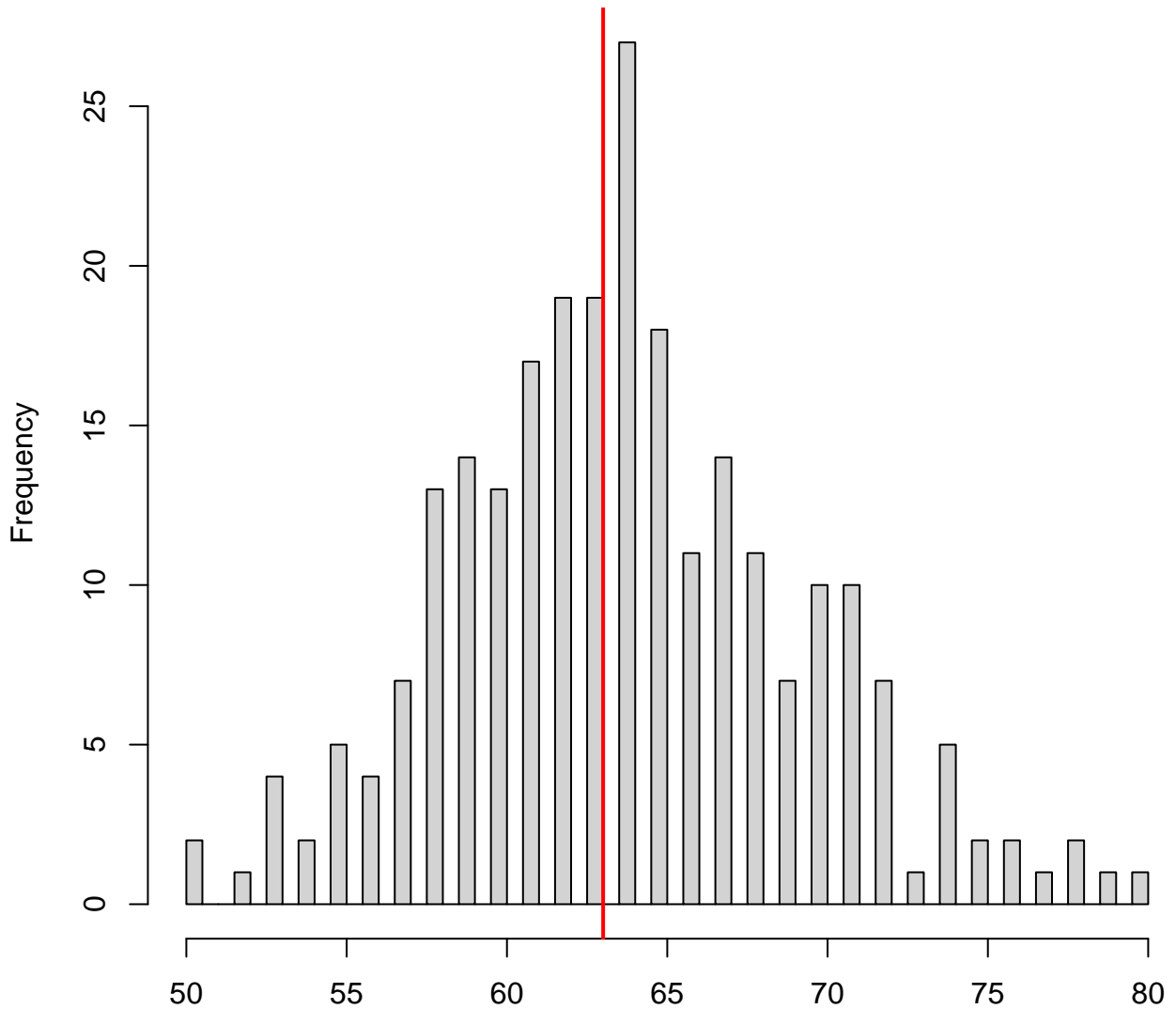
Residuals (outliers are marked red)

Histogram of frequBoot



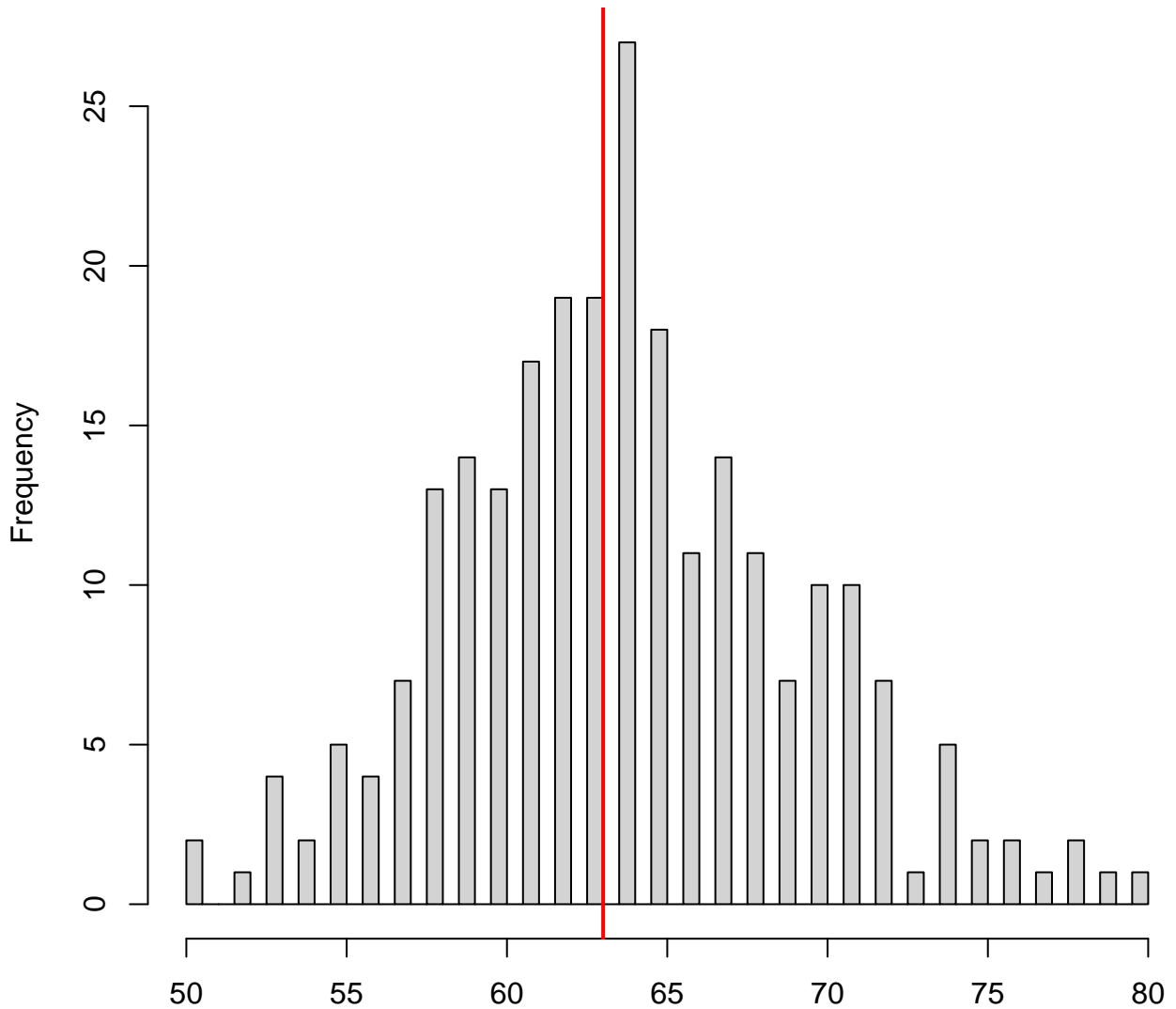
frequBoot

**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**



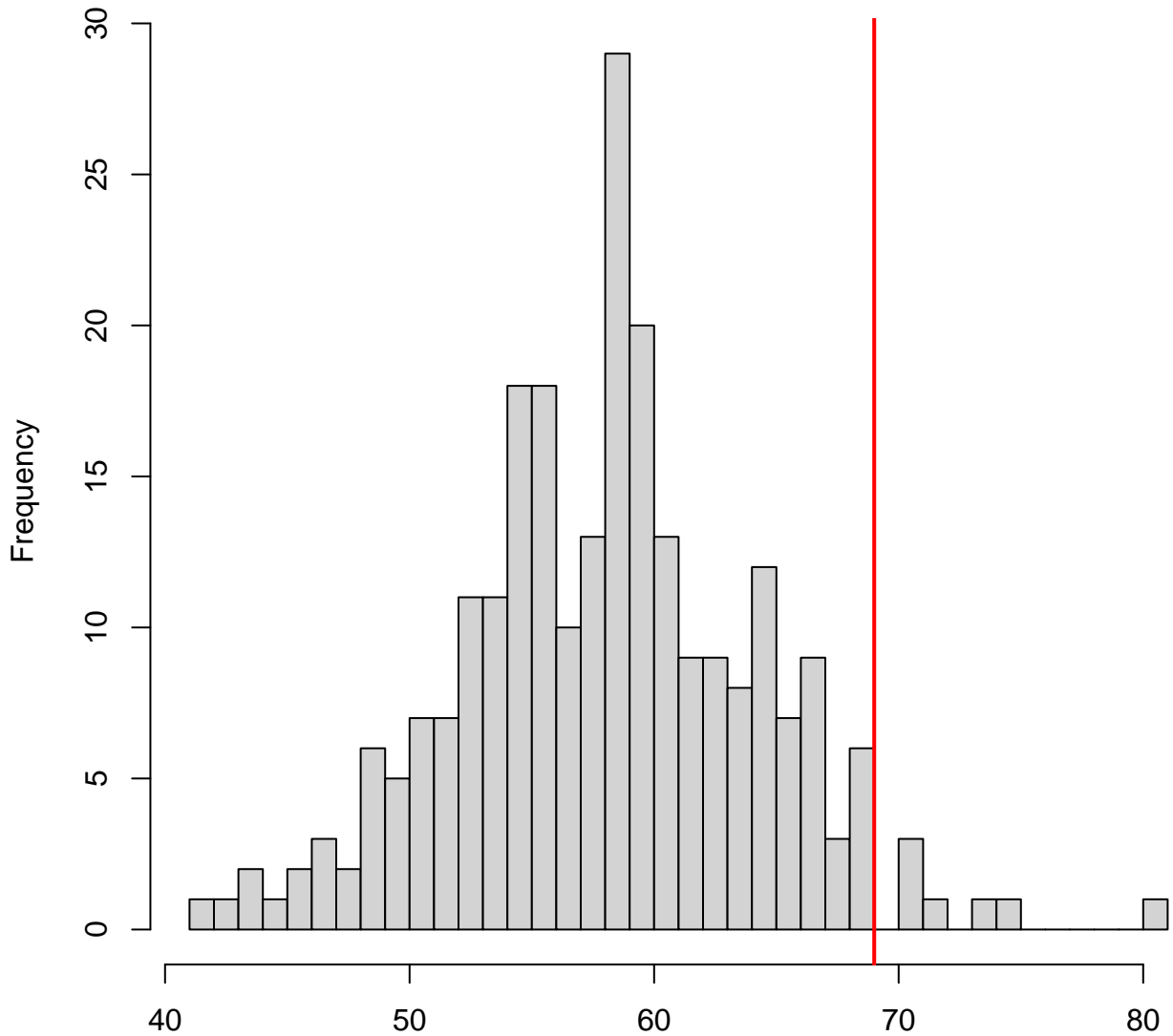
Simulated values, red line = fitted model. p-value (two.sided) = 0.96

**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**



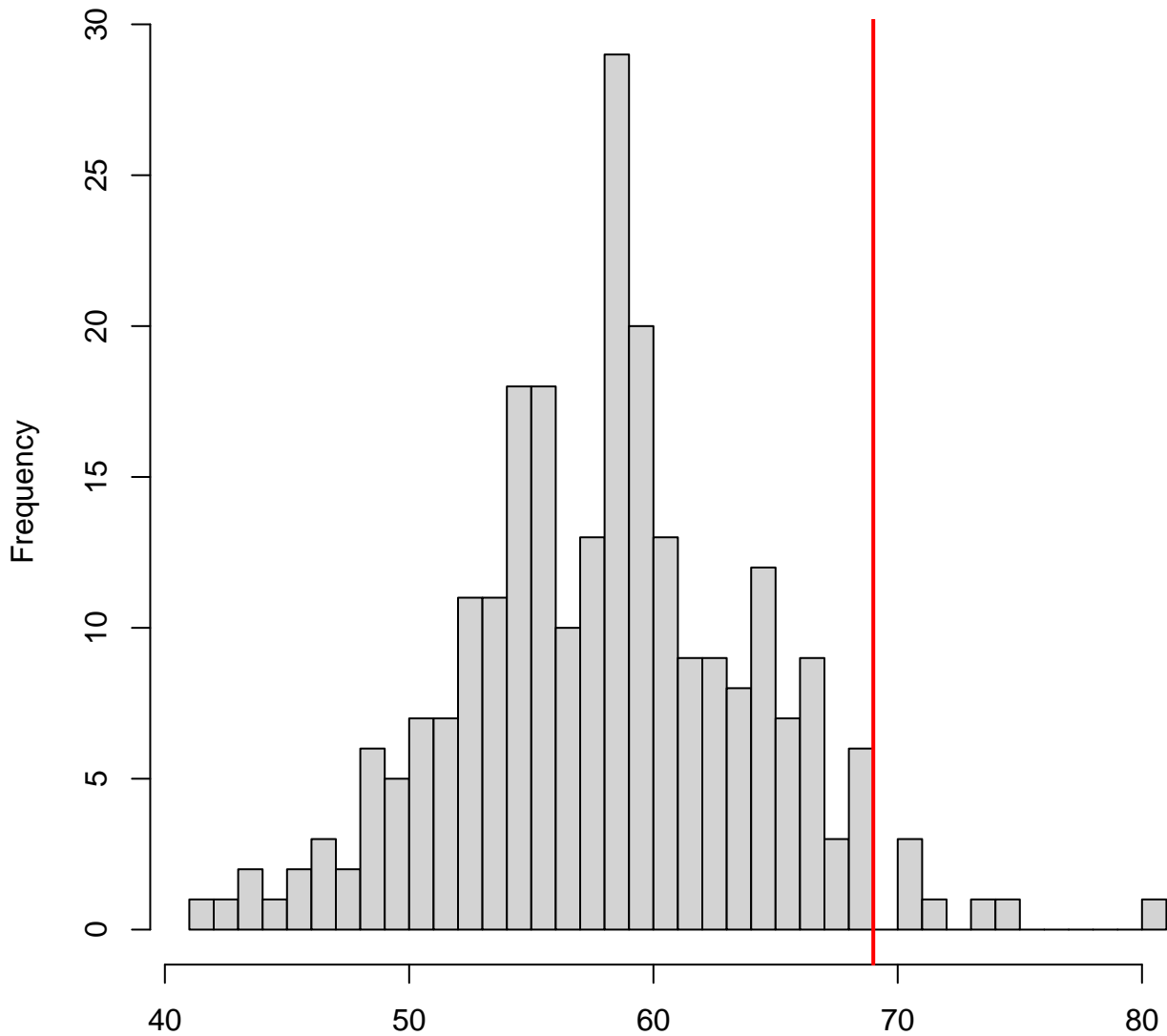
Simulated values, red line = fitted model. p-value (less) = 0.48

DHARMa generic simulation test



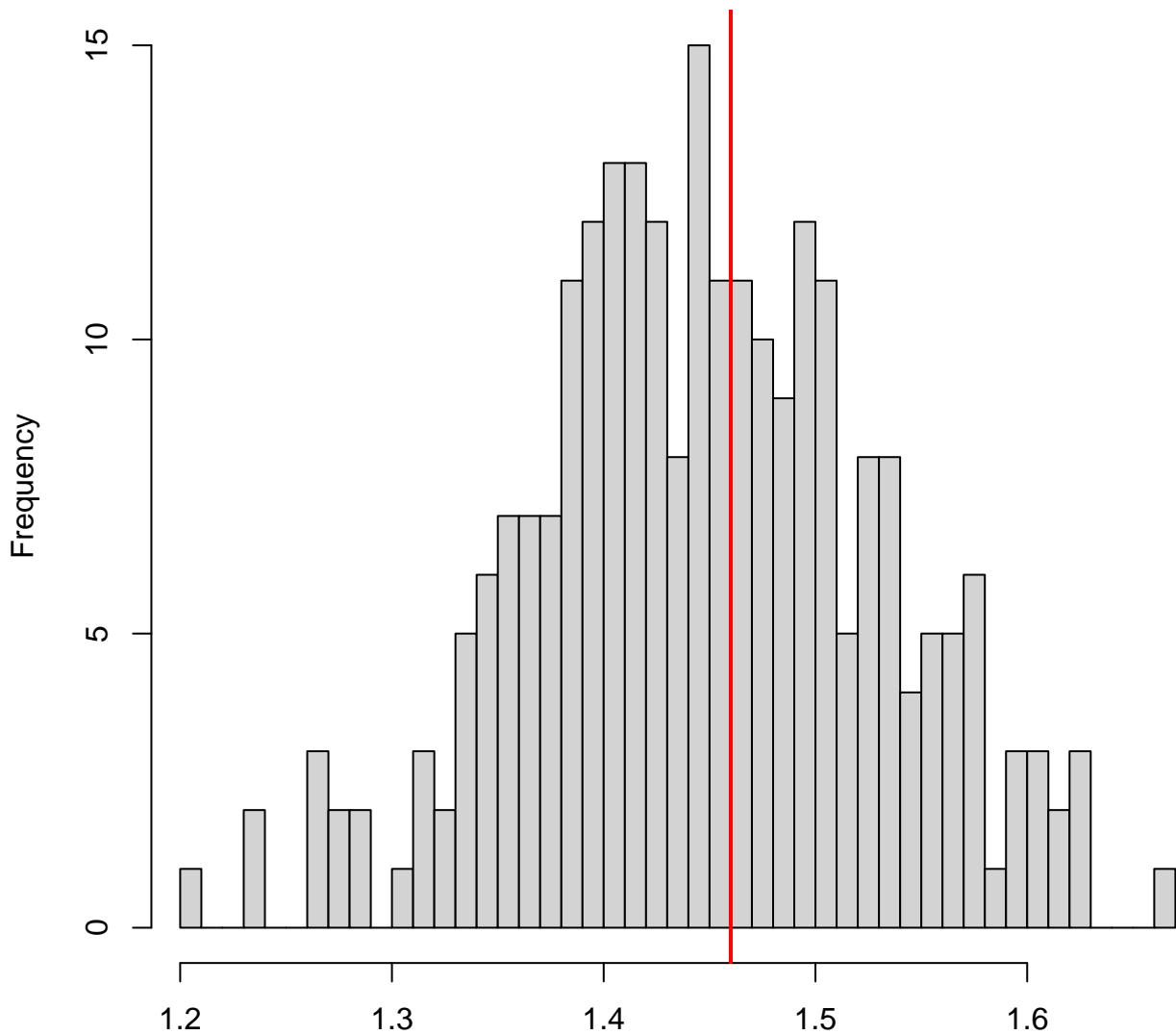
Simulated values, red line = fitted model. p-value (two.sided) = 0.104

DHARMa generic simulation test



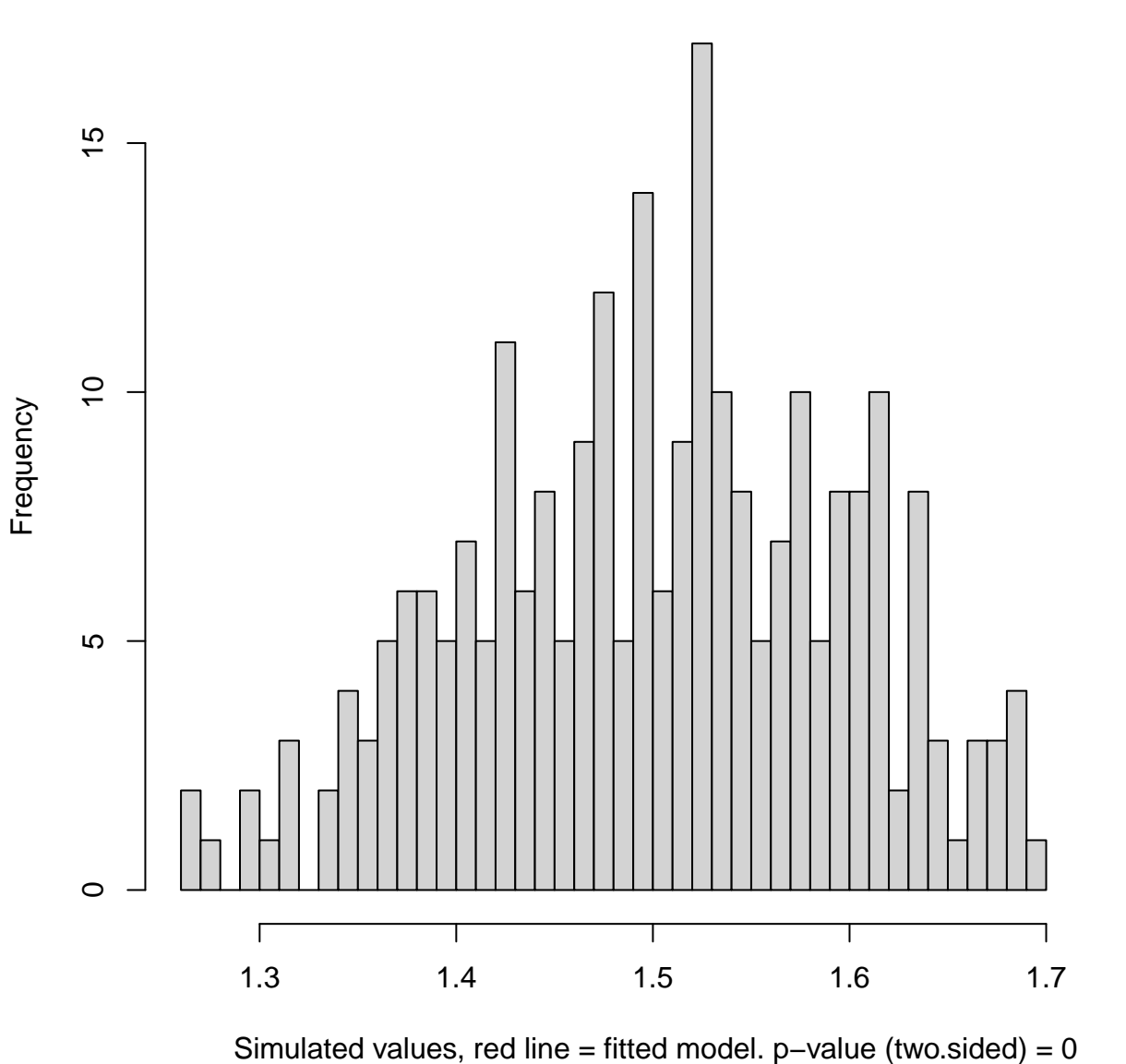
Simulated values, red line = fitted model. p-value (less) = 0.972

DHARMa generic simulation test

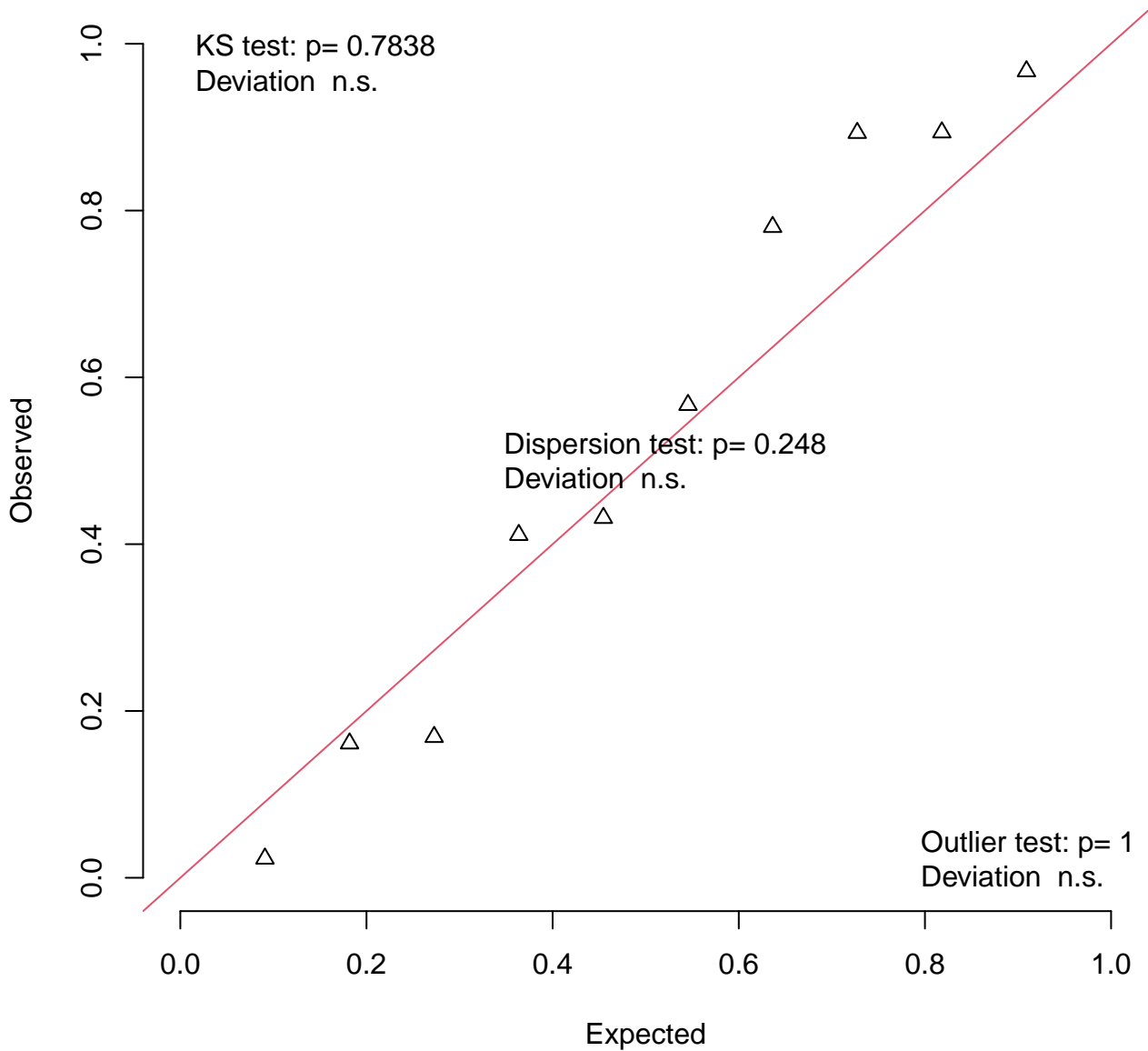


Simulated values, red line = fitted model. p-value (two.sided) = 0.92

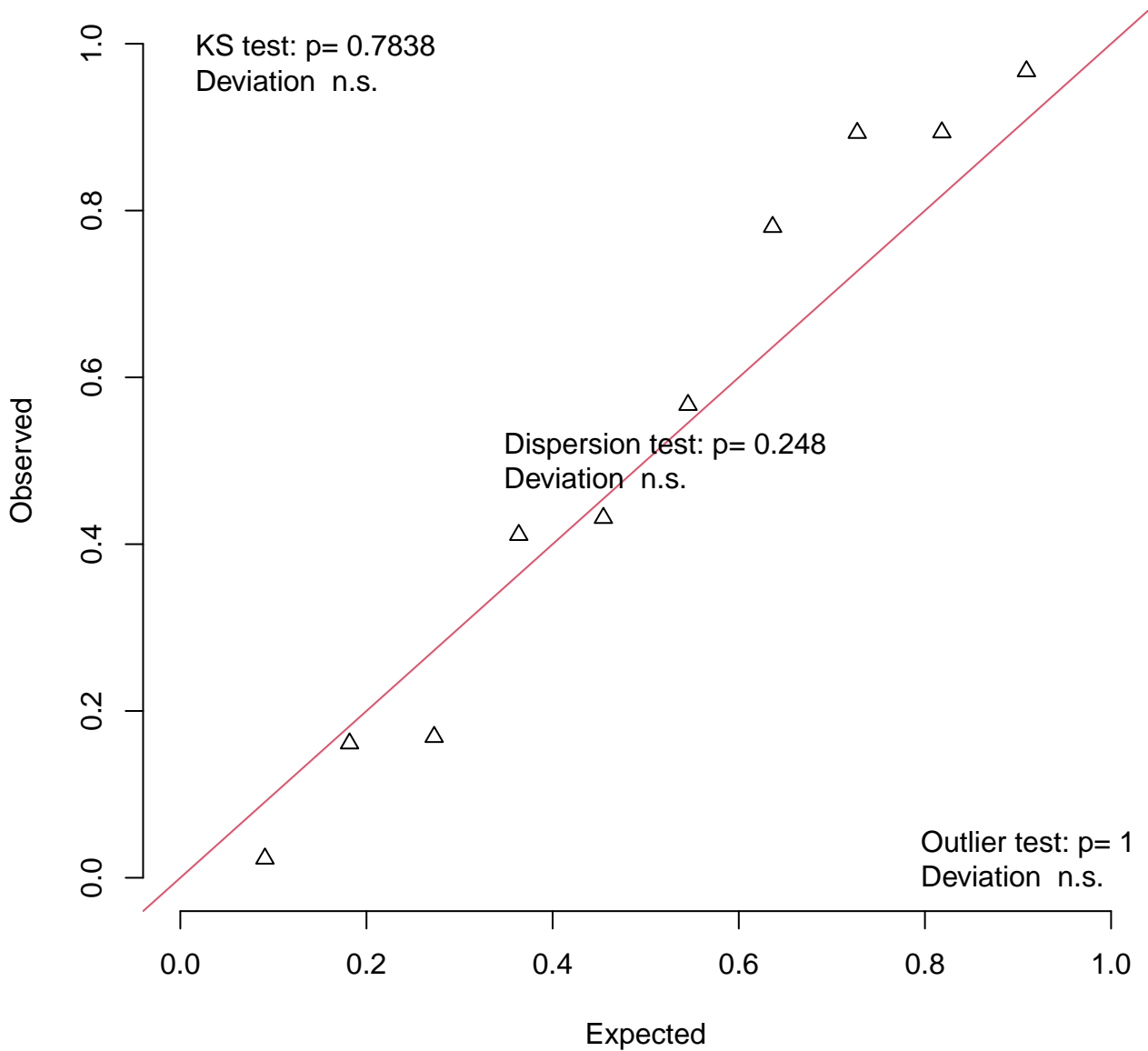
DHARMa generic simulation test



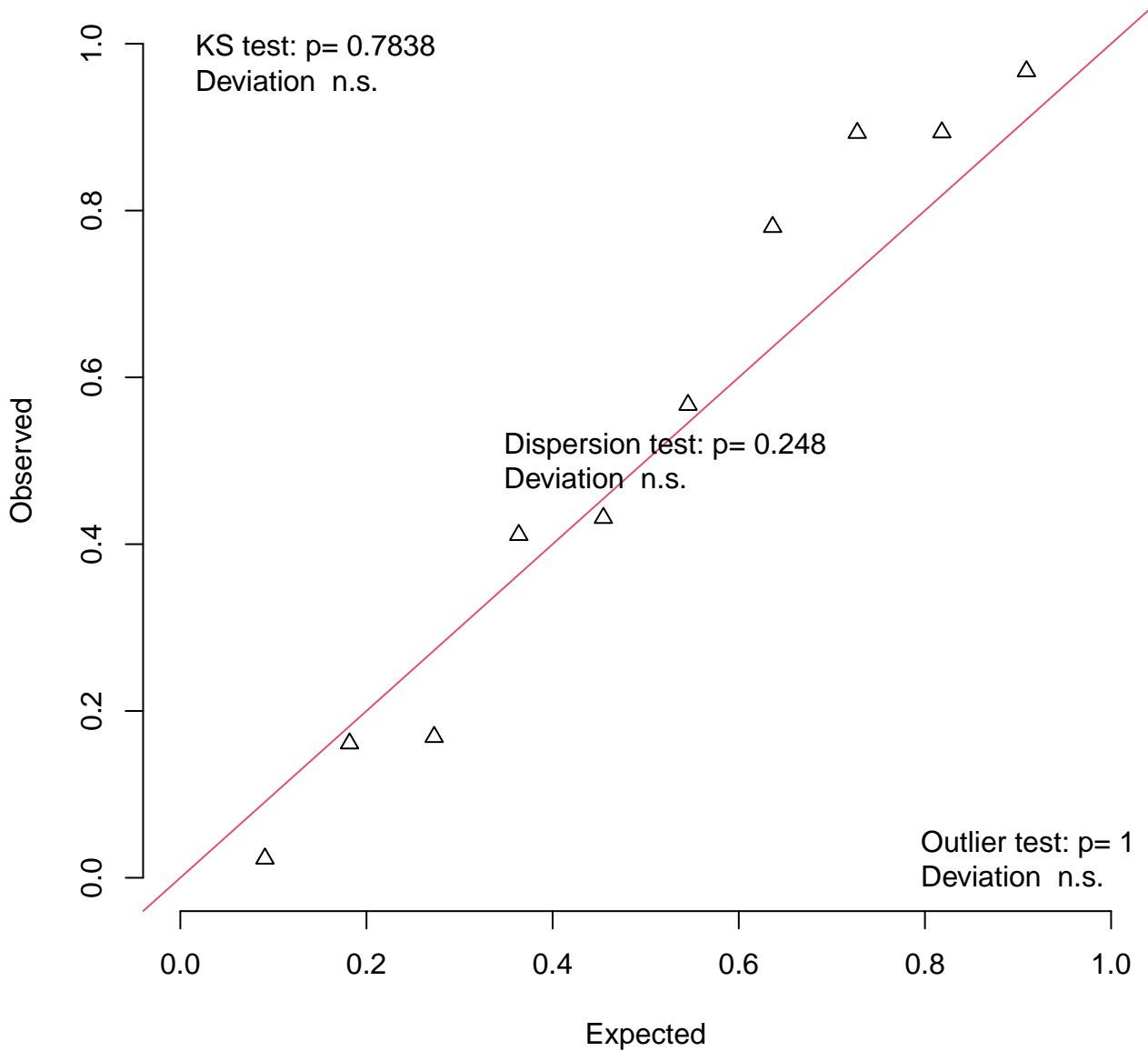
QQ plot residuals



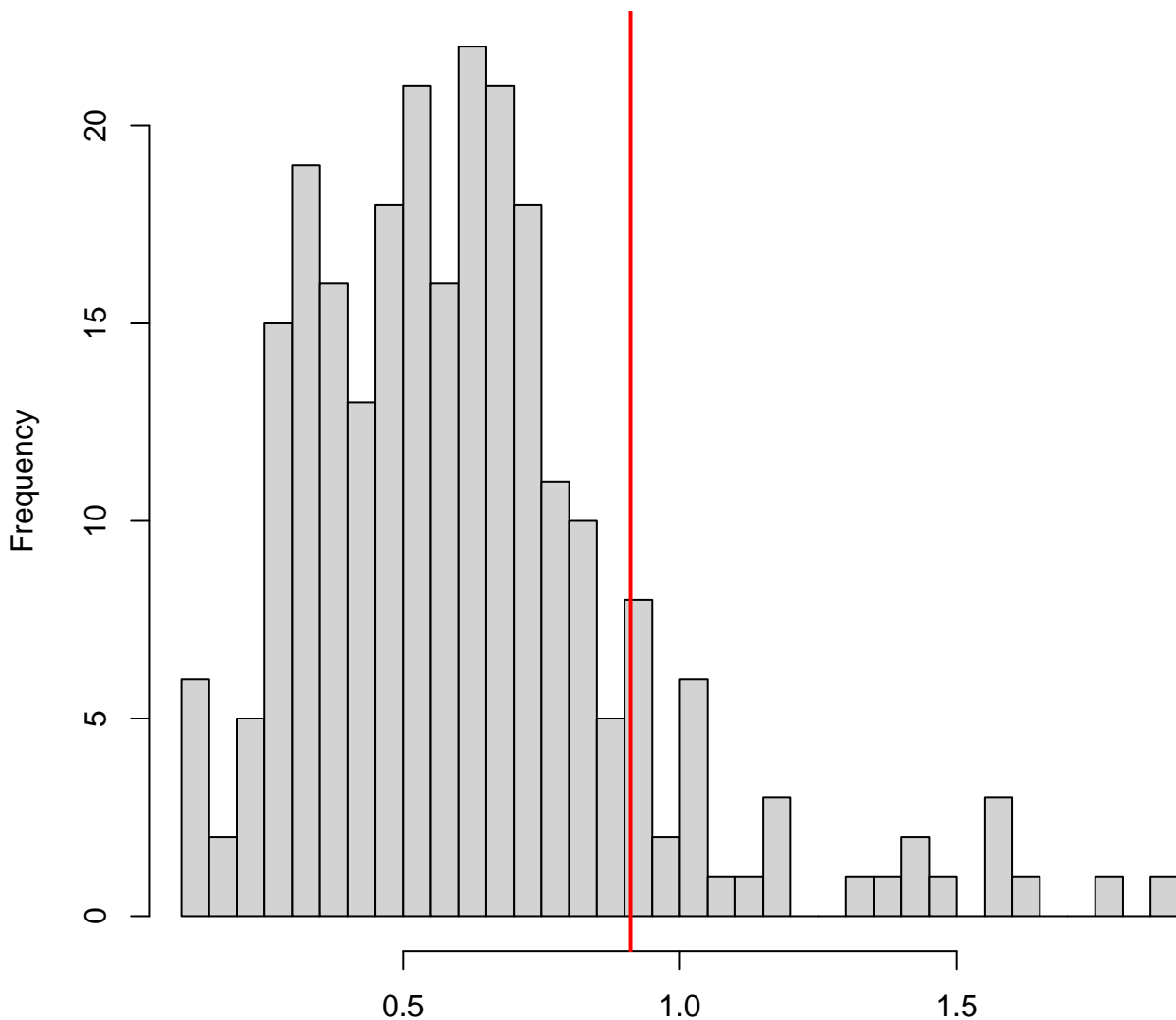
QQ plot residuals



QQ plot residuals

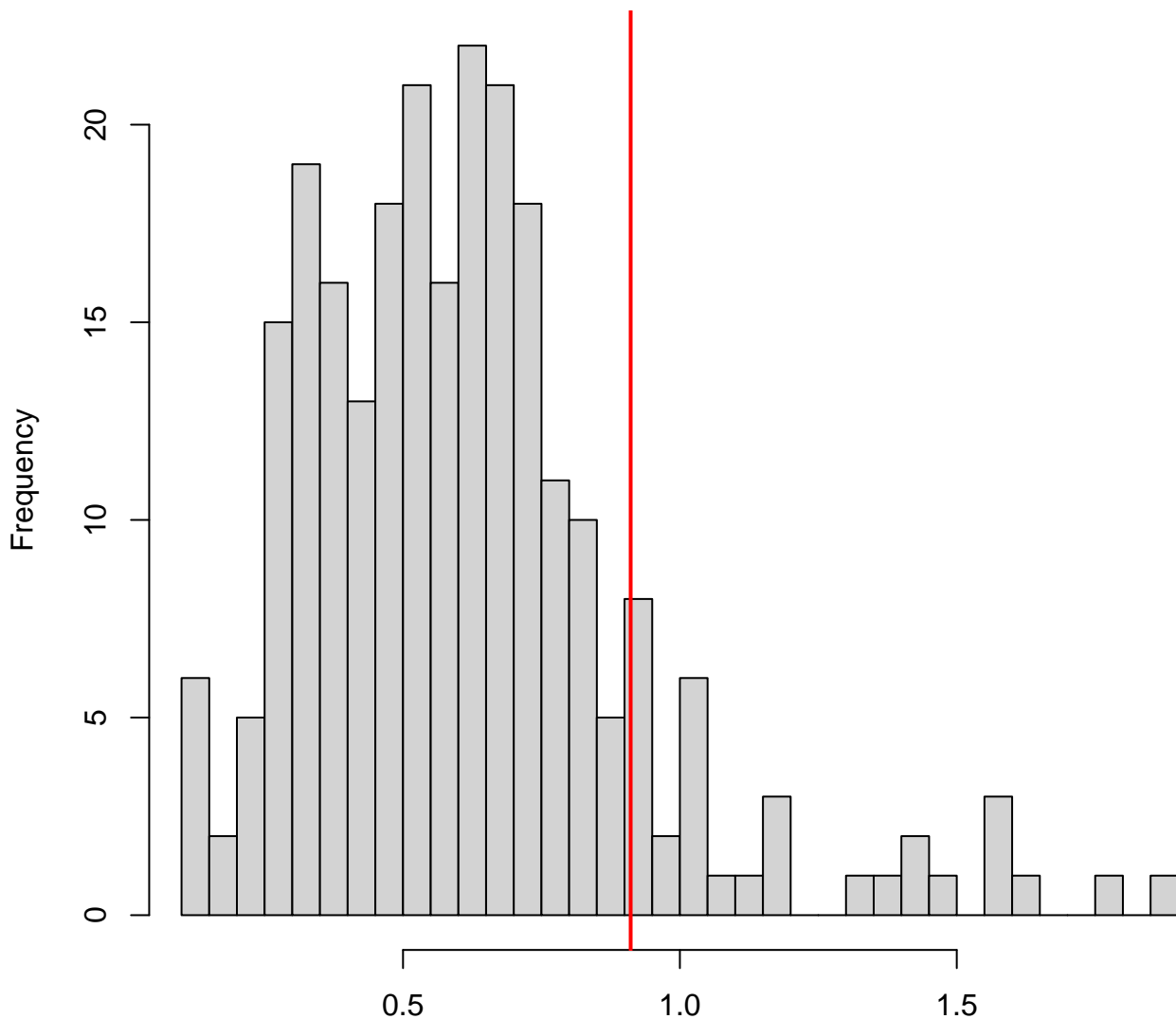


**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



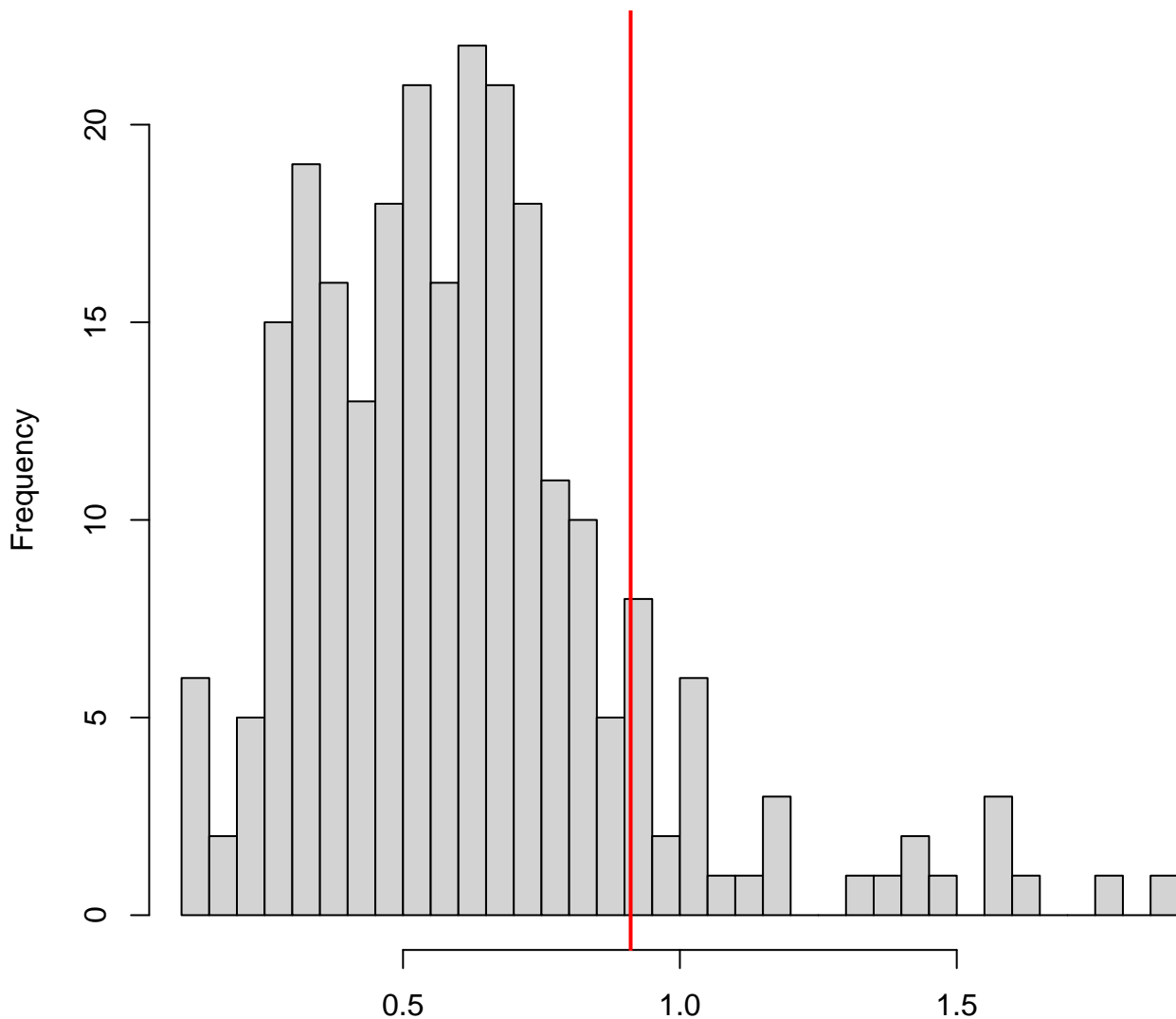
Simulated values, red line = fitted model. p-value (two.sided) = 0.248

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



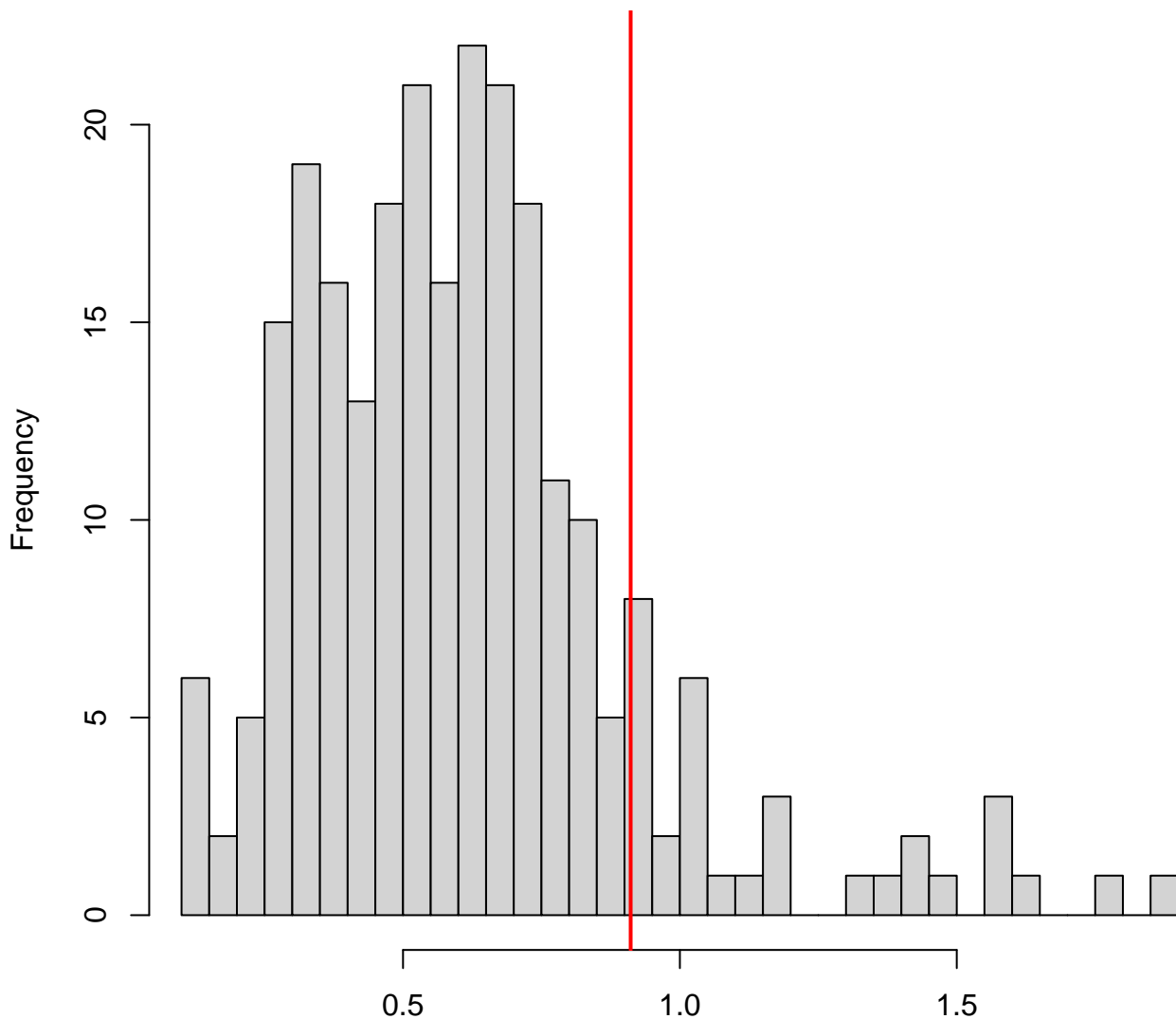
Simulated values, red line = fitted model. p-value (less) = 0.876

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



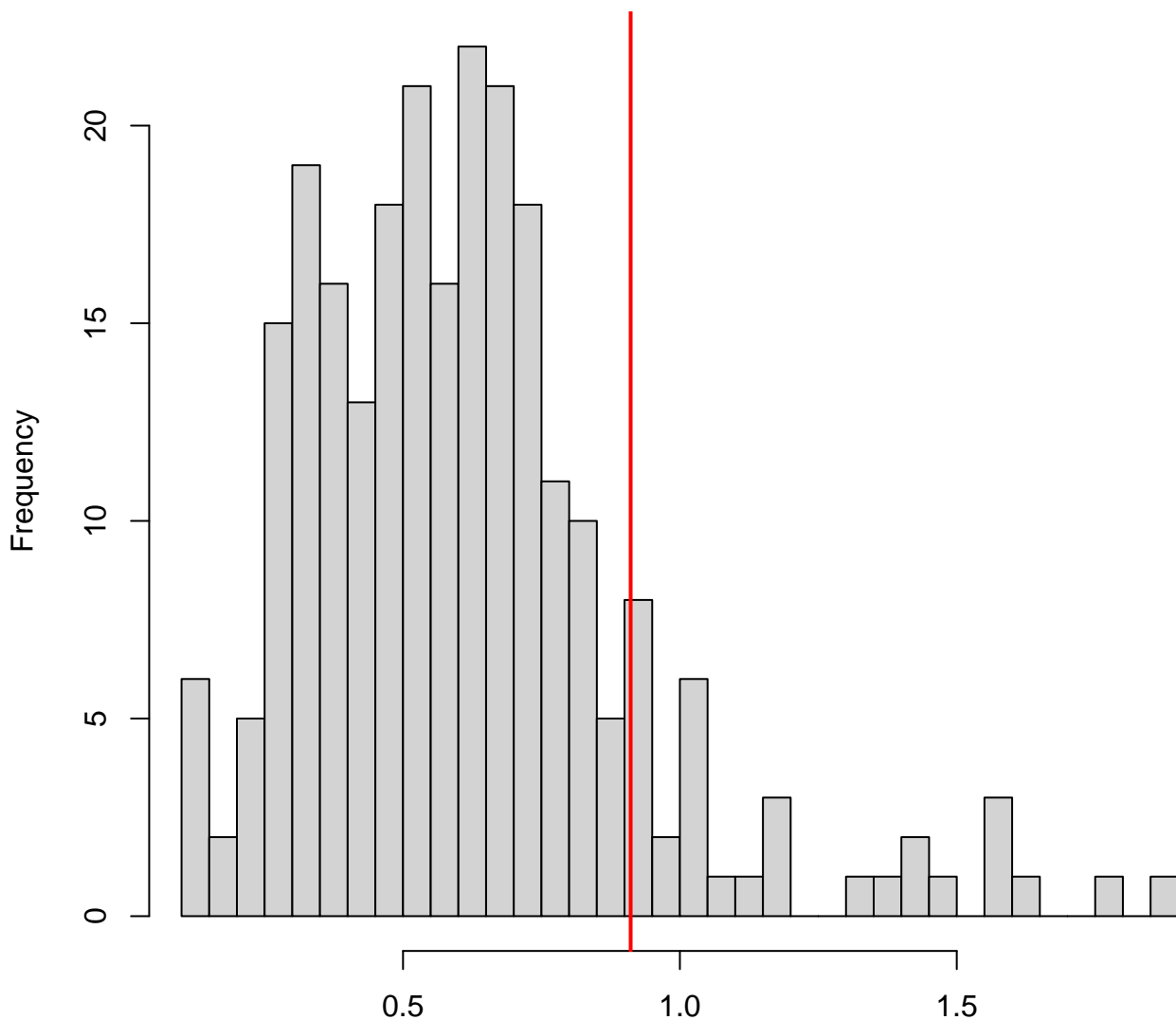
Simulated values, red line = fitted model. p-value (greater) = 0.124

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**



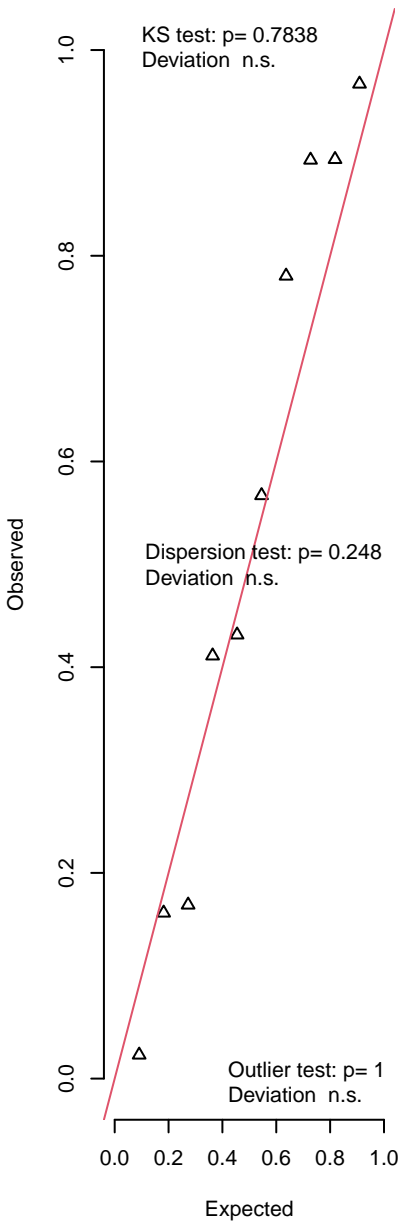
Simulated values, red line = fitted model. p-value (two.sided) = 0.248

**DHARMA nonparametric dispersion test via sd of
residuals fitted vs. simulated**

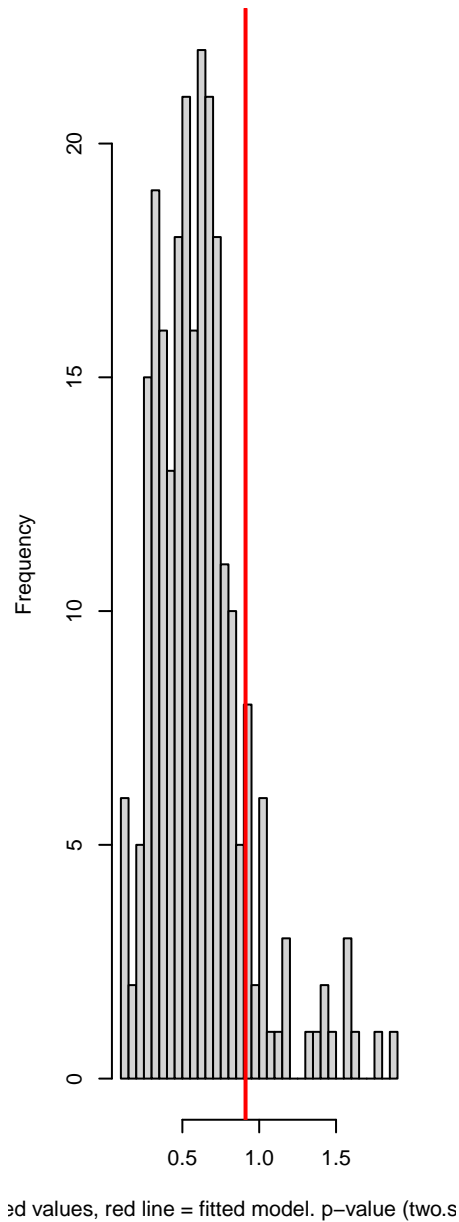


Simulated values, red line = fitted model. p-value (two.sided) = 0.248

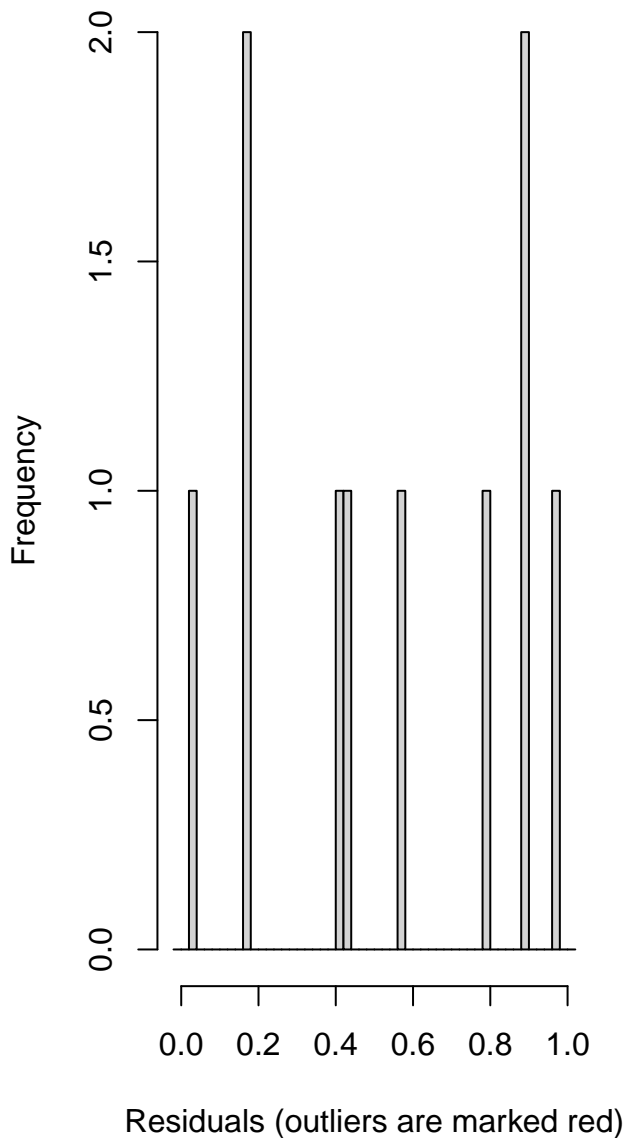
QQ plot residuals



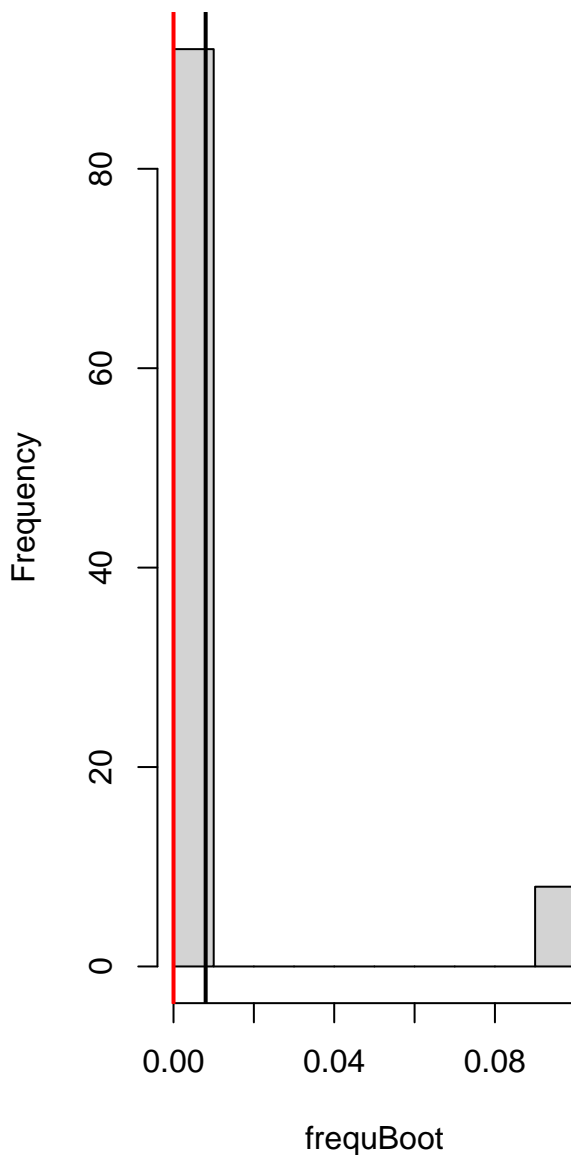
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



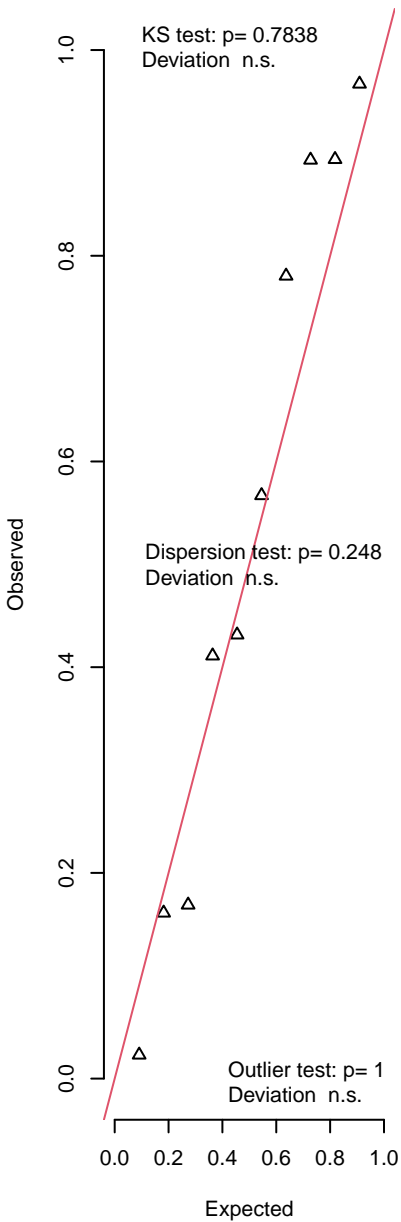
Outlier test n.s.



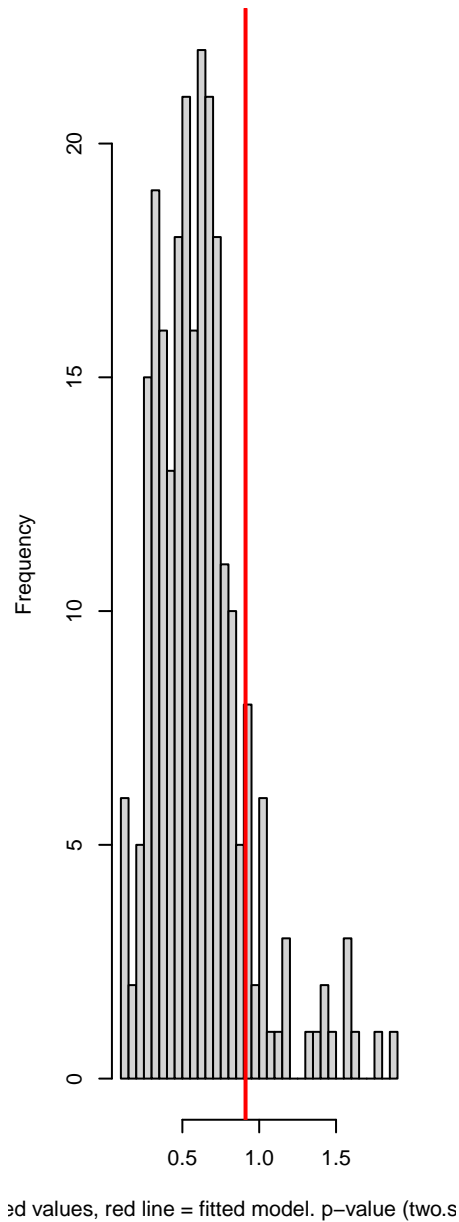
Histogram of frequBoot



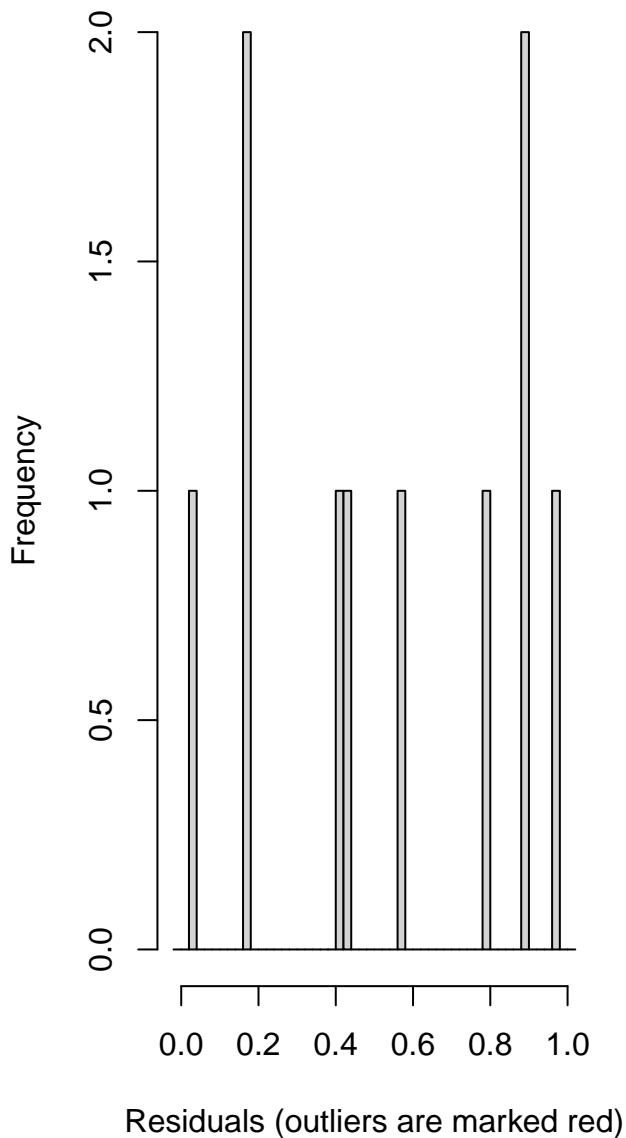
QQ plot residuals



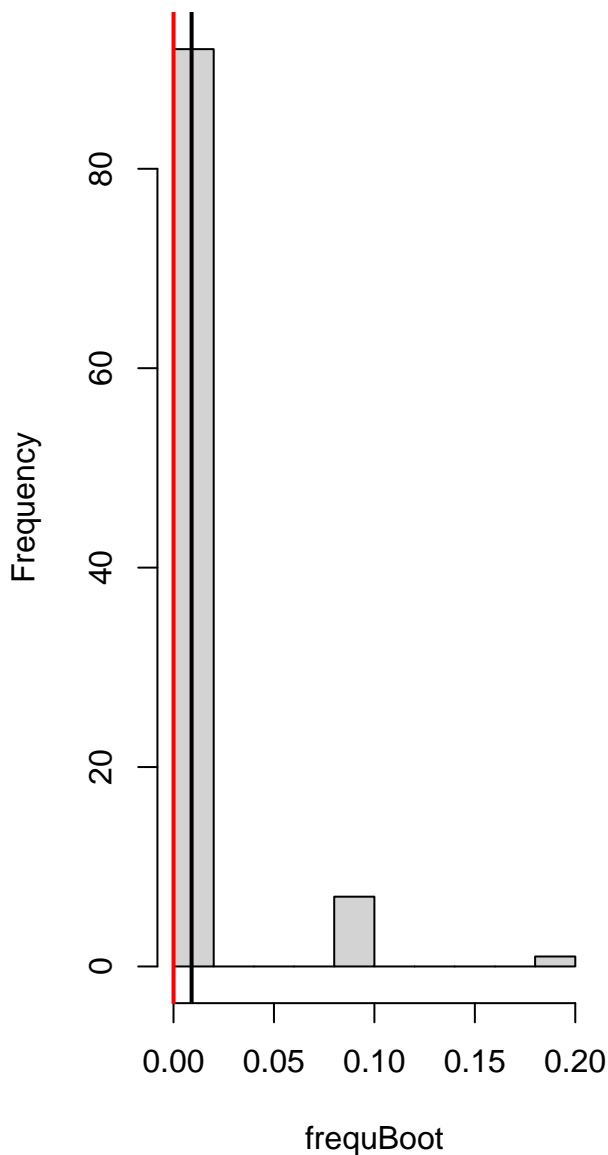
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



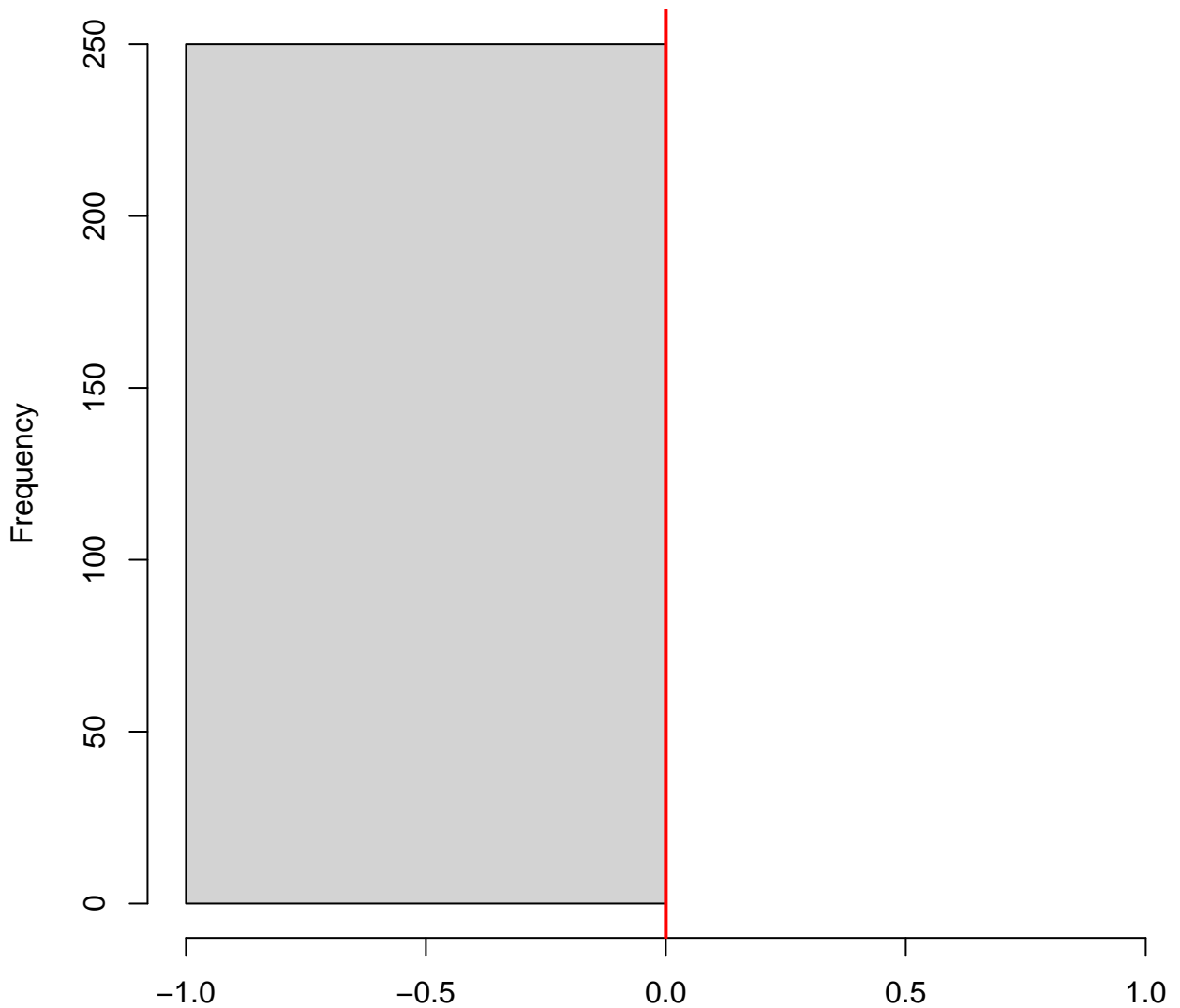
Outlier test n.s.



Histogram of frequBoot

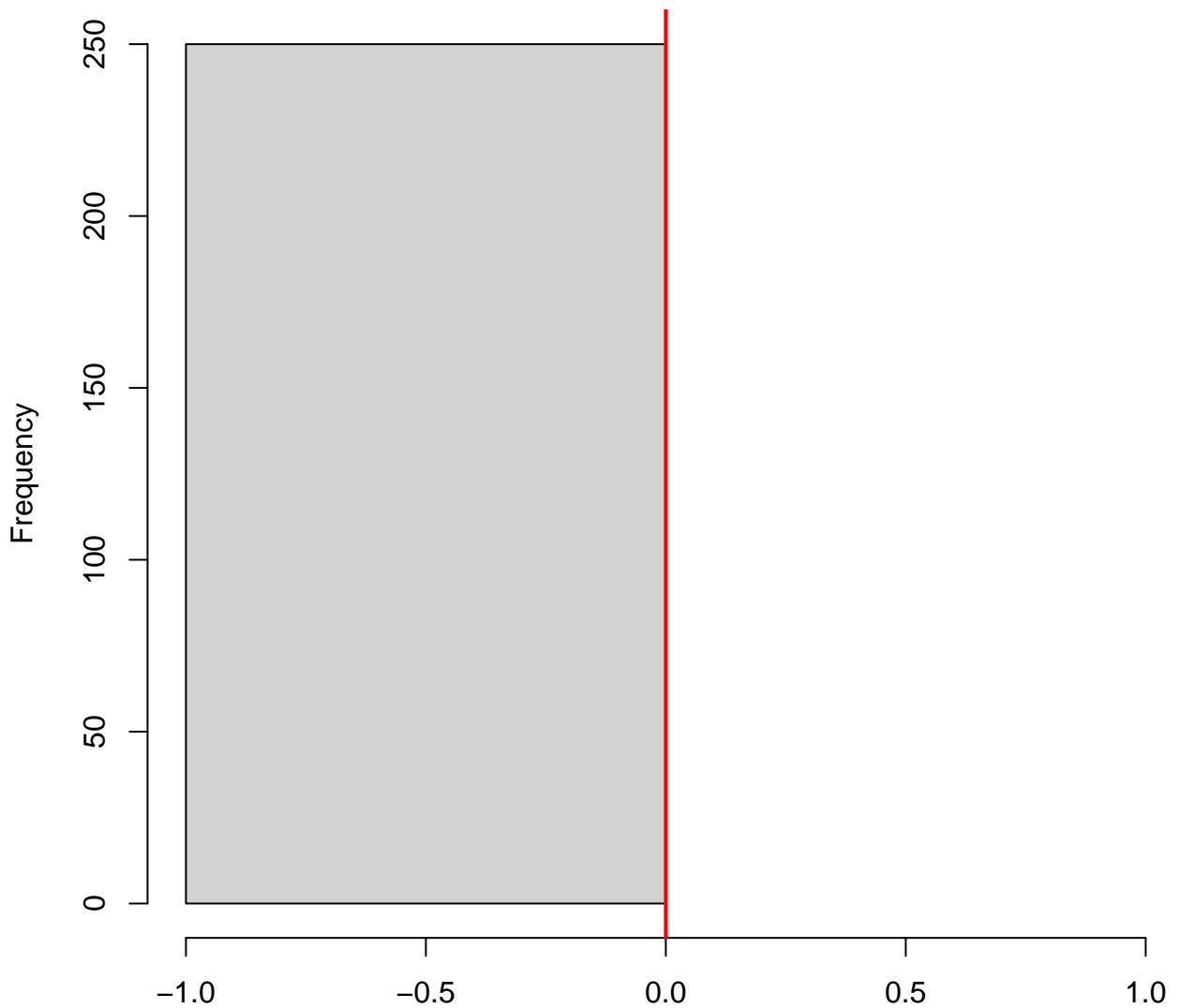


**DHARMa zero-inflation test via comparison to
expected zeros with simulation under H_0 = fitted
model**



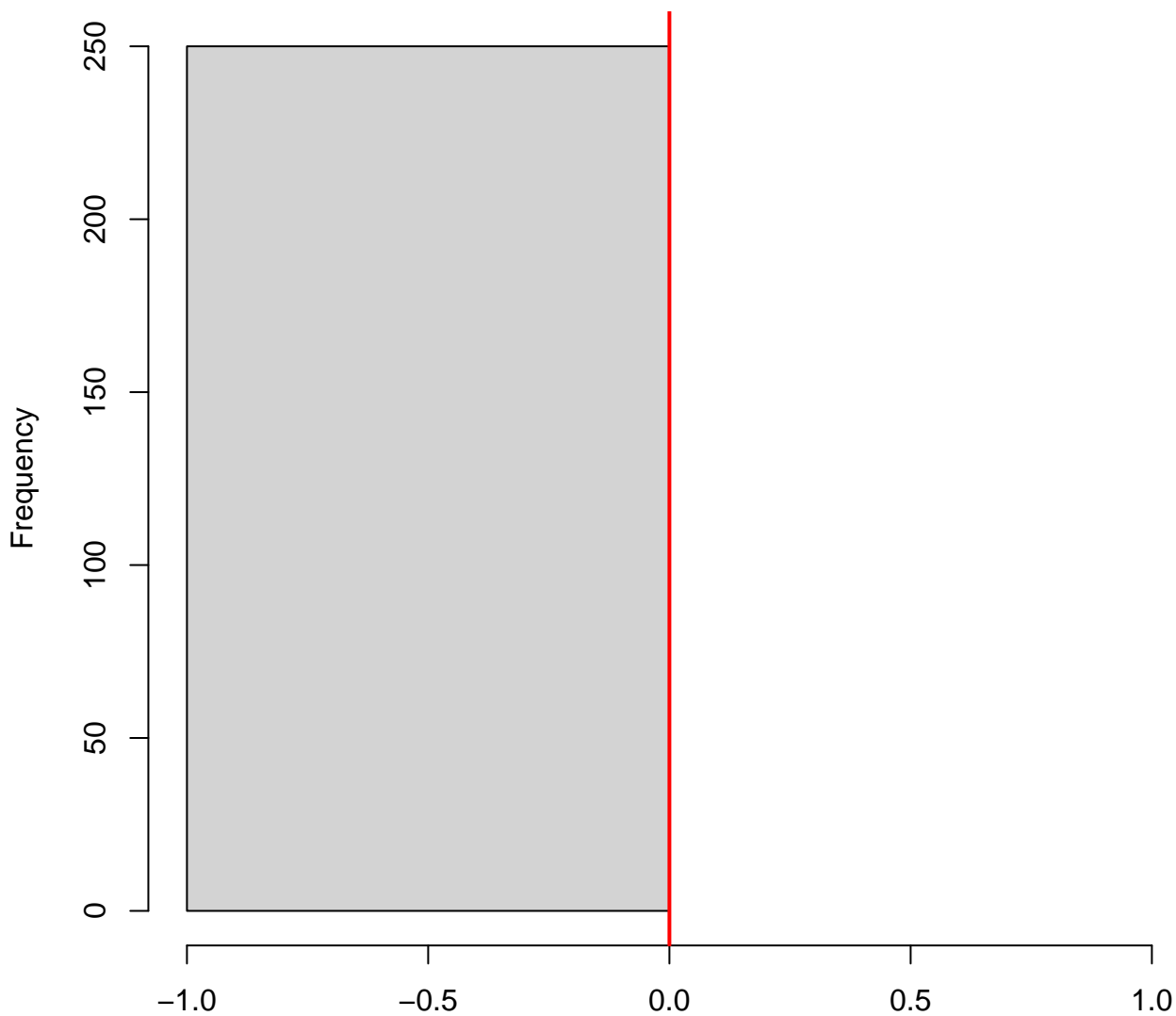
Simulated values, red line = fitted model. p-value (two.sided) = 1

**DHARMa zero-inflation test via comparison to
expected zeros with simulation under H_0 = fitted
model**



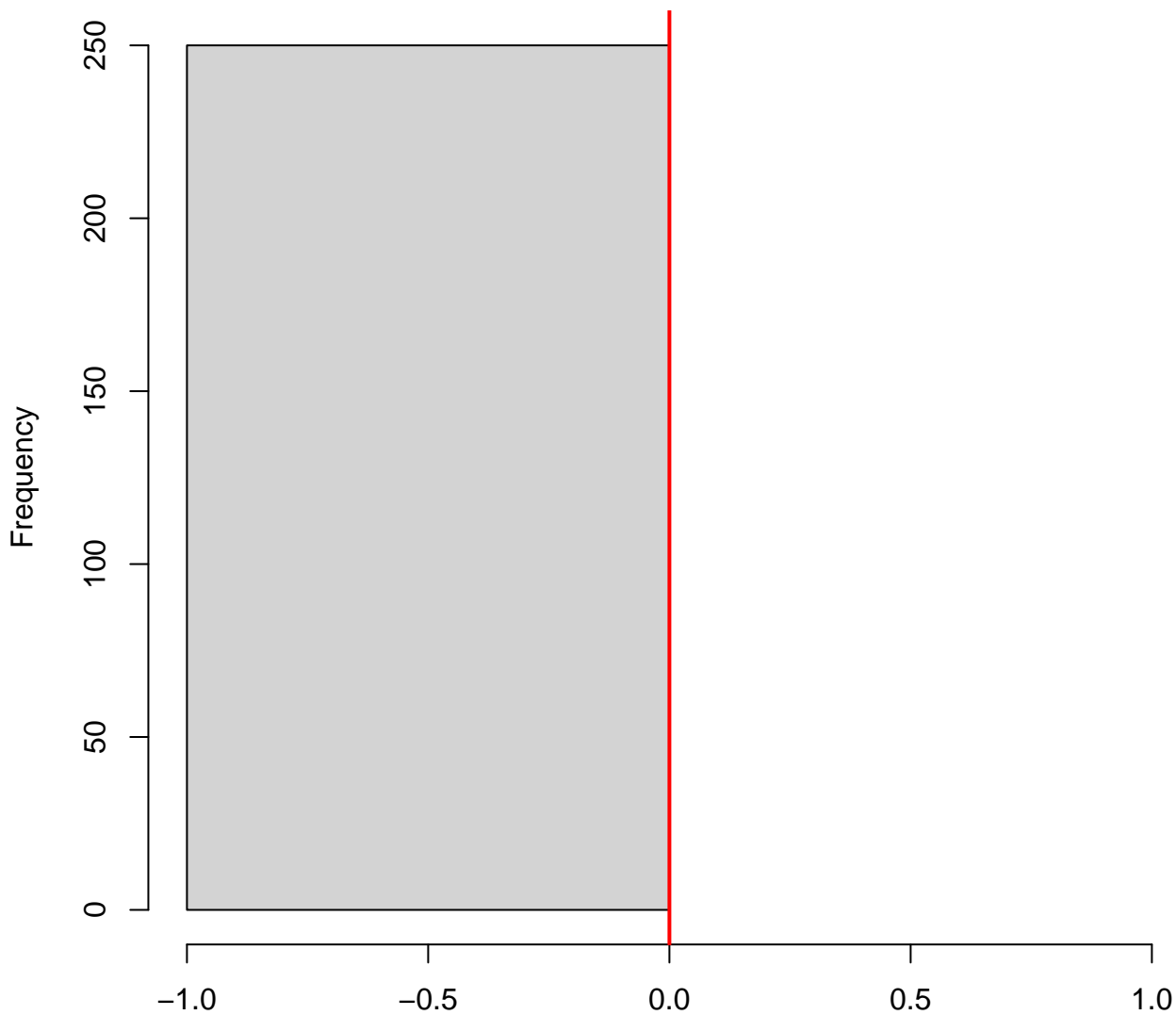
Simulated values, red line = fitted model. p-value (less) = 1

DHARMa generic simulation test



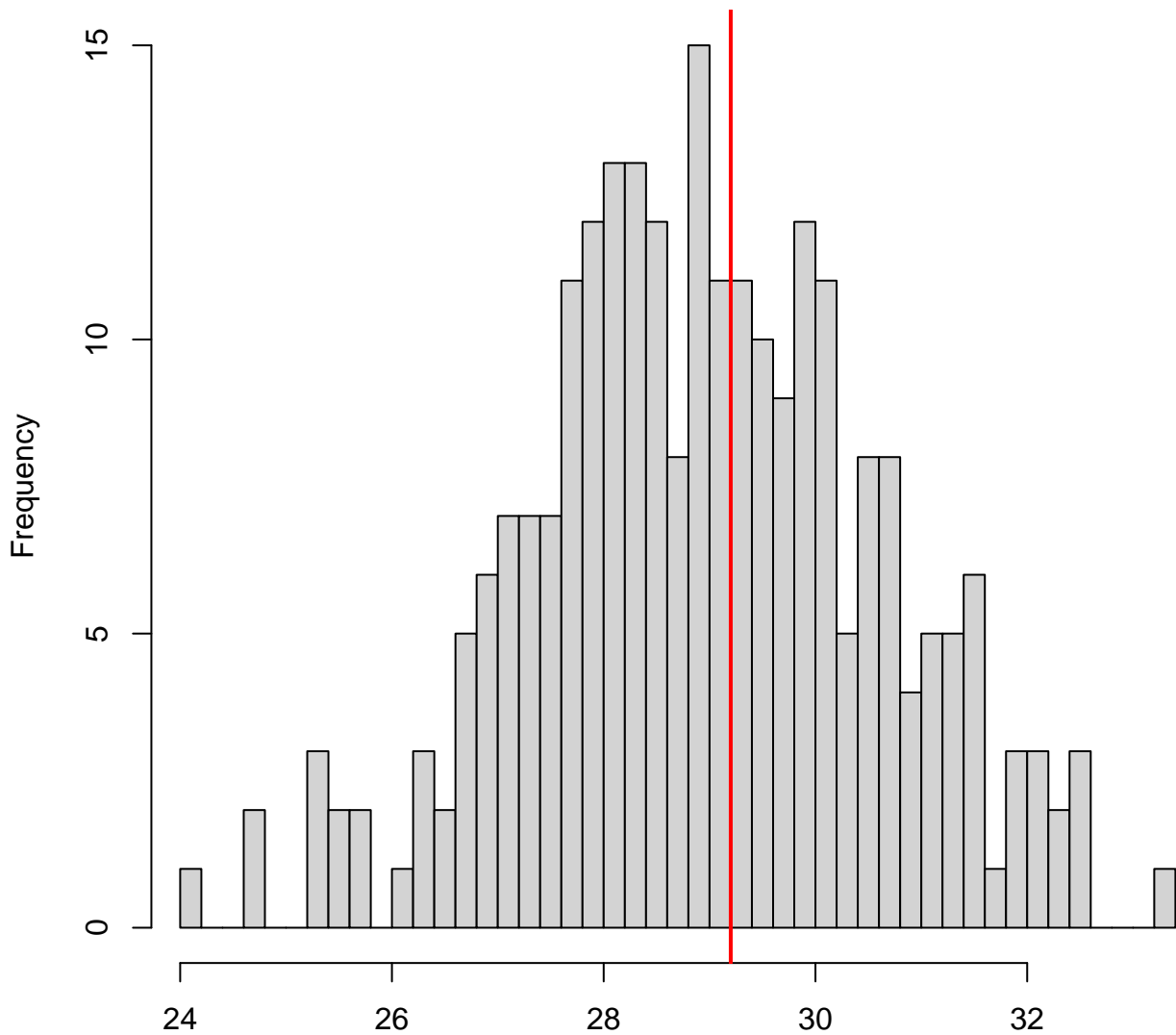
Simulated values, red line = fitted model. p-value (two.sided) = 1

DHARMa generic simulation test



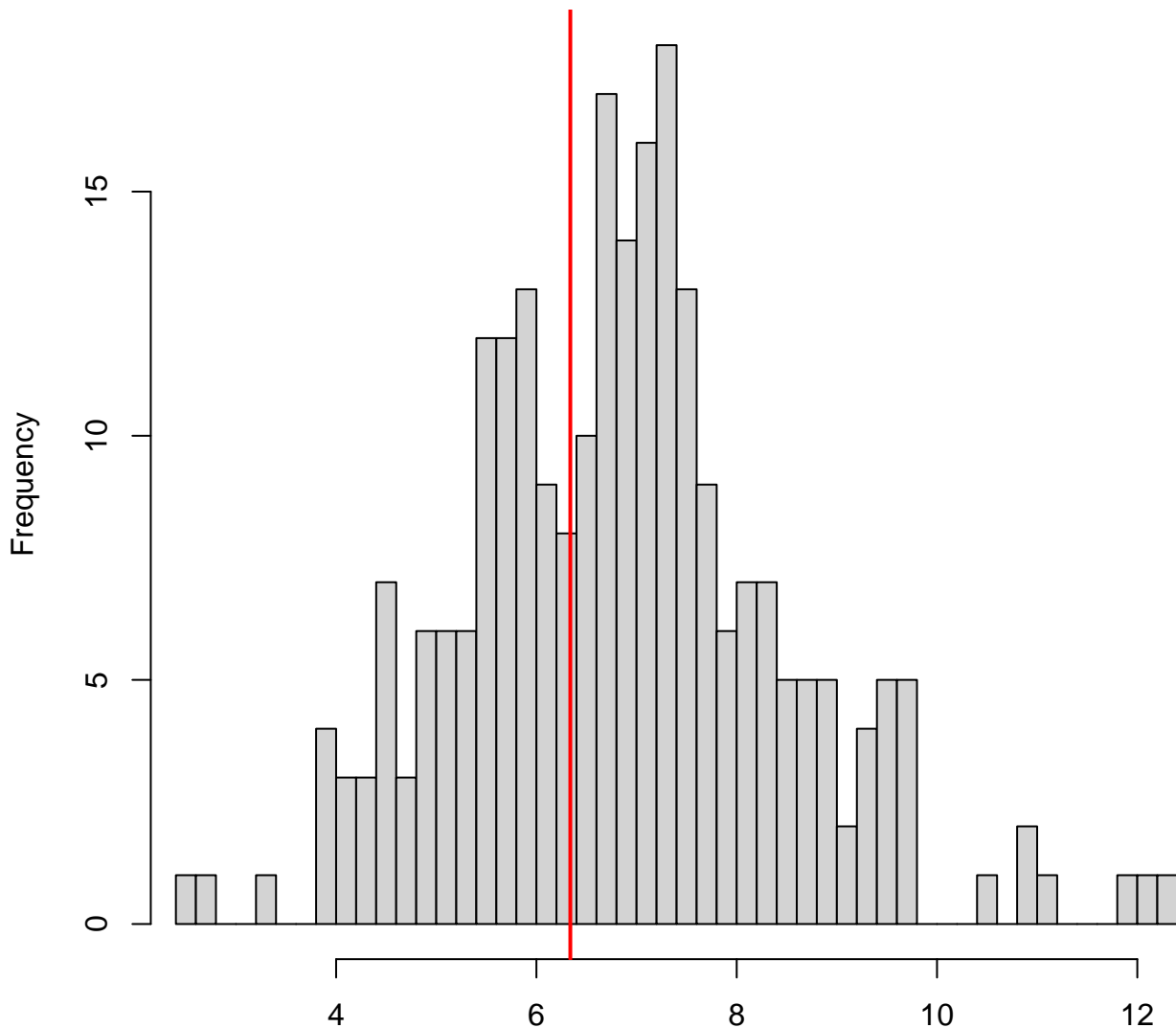
Simulated values, red line = fitted model. p-value (less) = 1

DHARMa generic simulation test



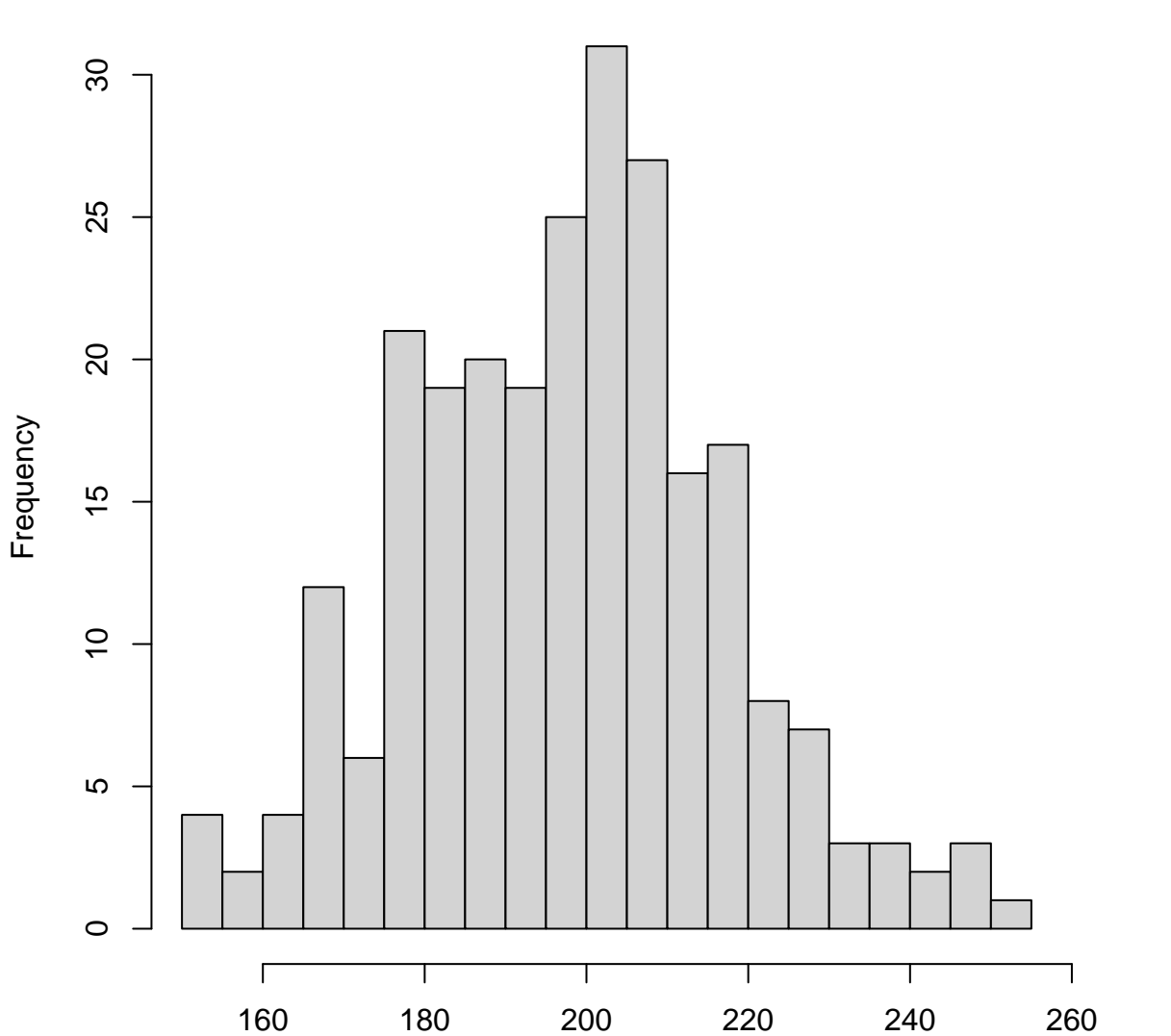
Simulated values, red line = fitted model. p-value (two.sided) = 0.92

DHARMa generic simulation test



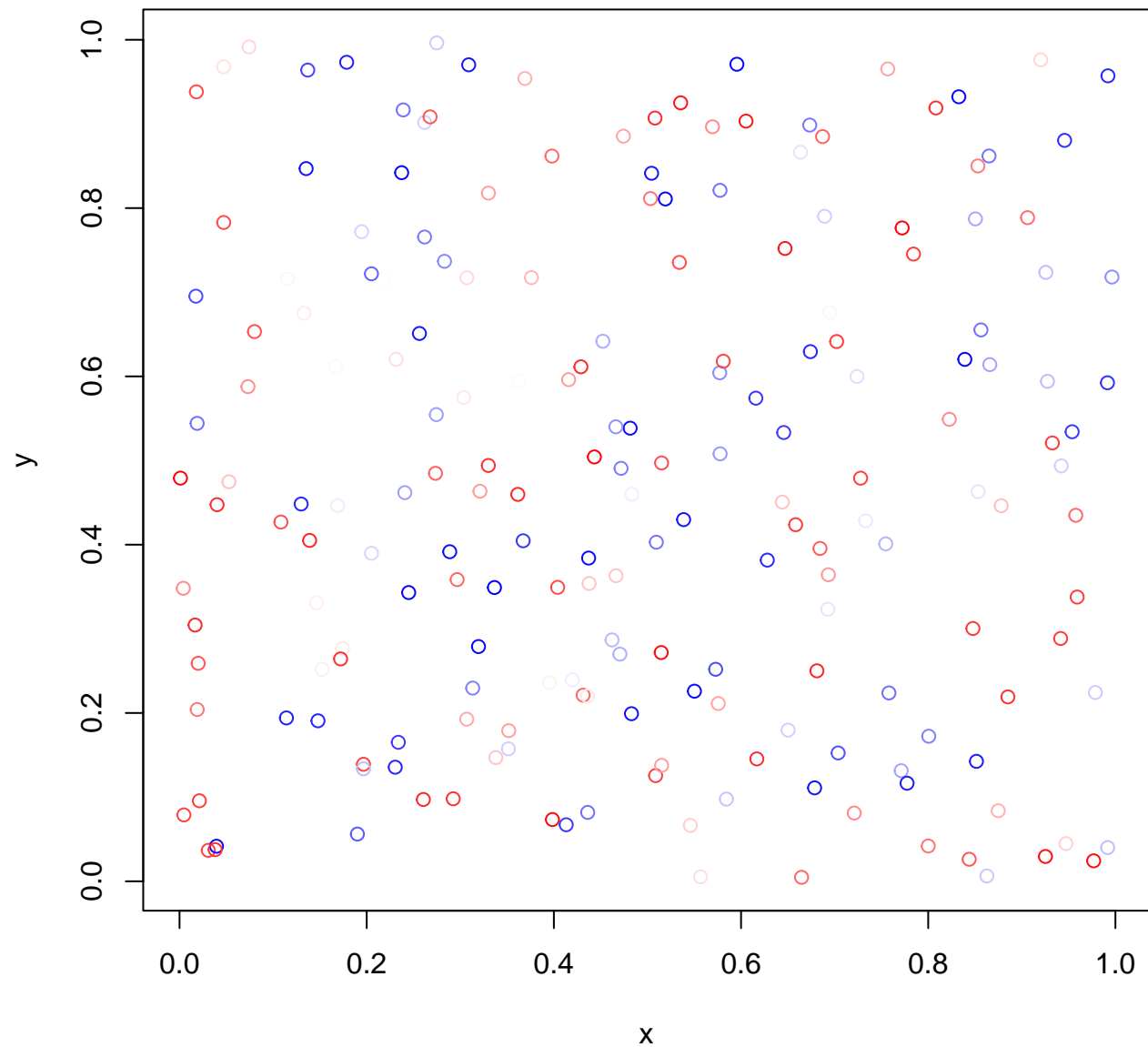
Simulated values, red line = fitted model. p-value (two.sided) = 0.752

Dispersion test significant

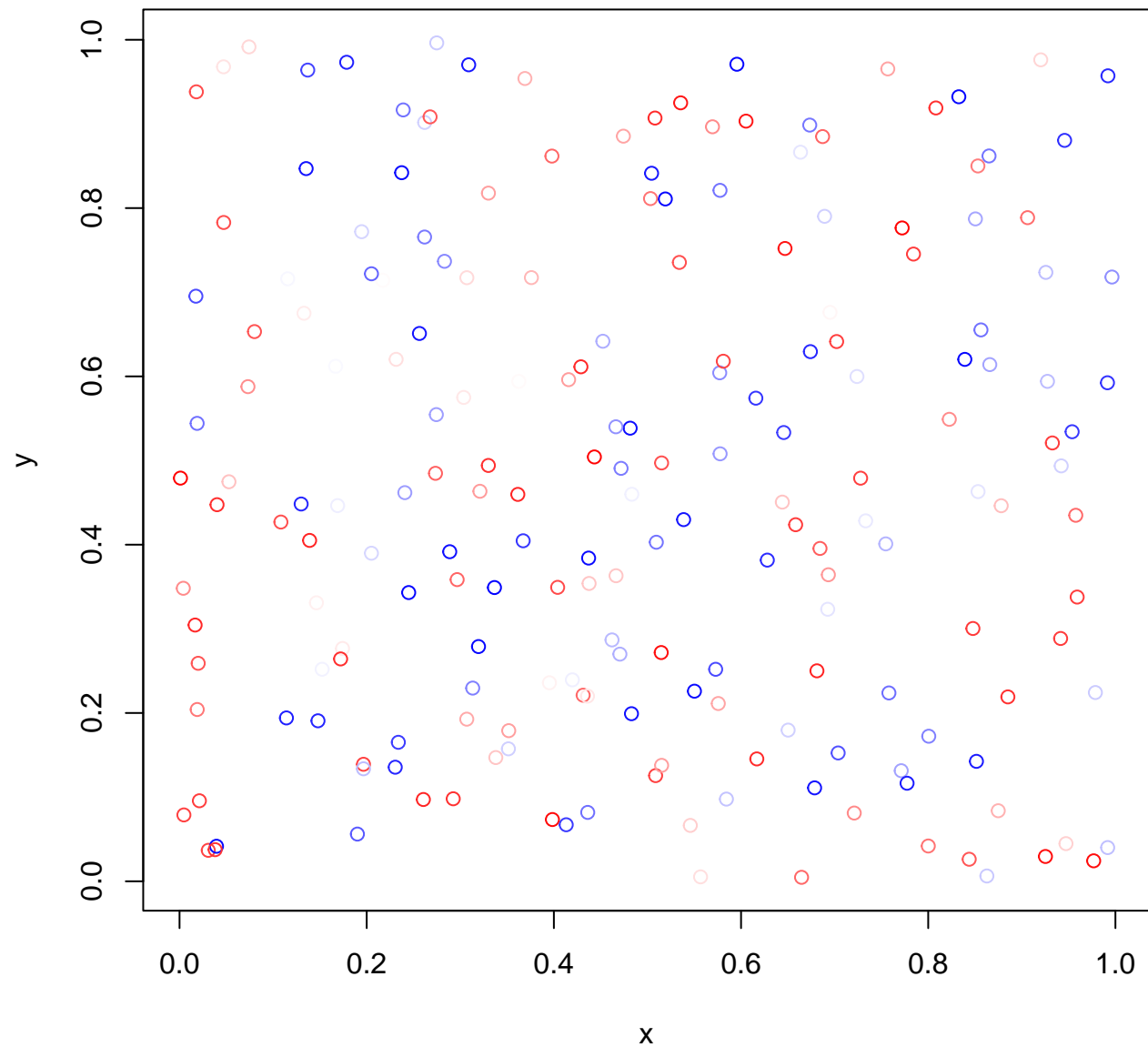


Simulated values, red line = fitted model. p-value (two.sided) = 0

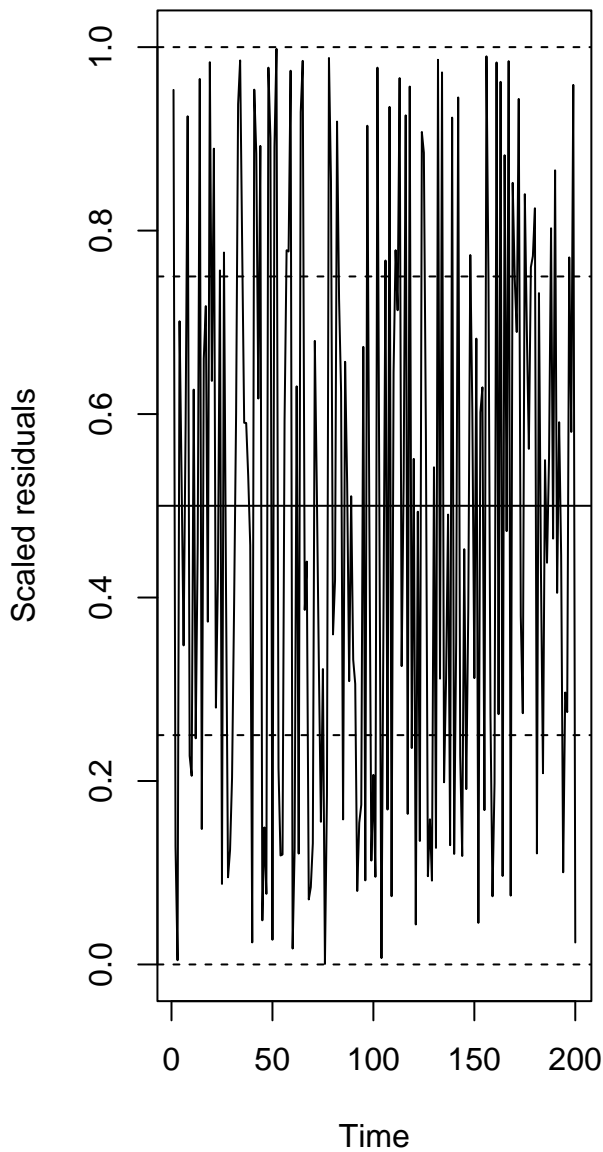
DHARMa Moran's I test for distance-based autocorrelation



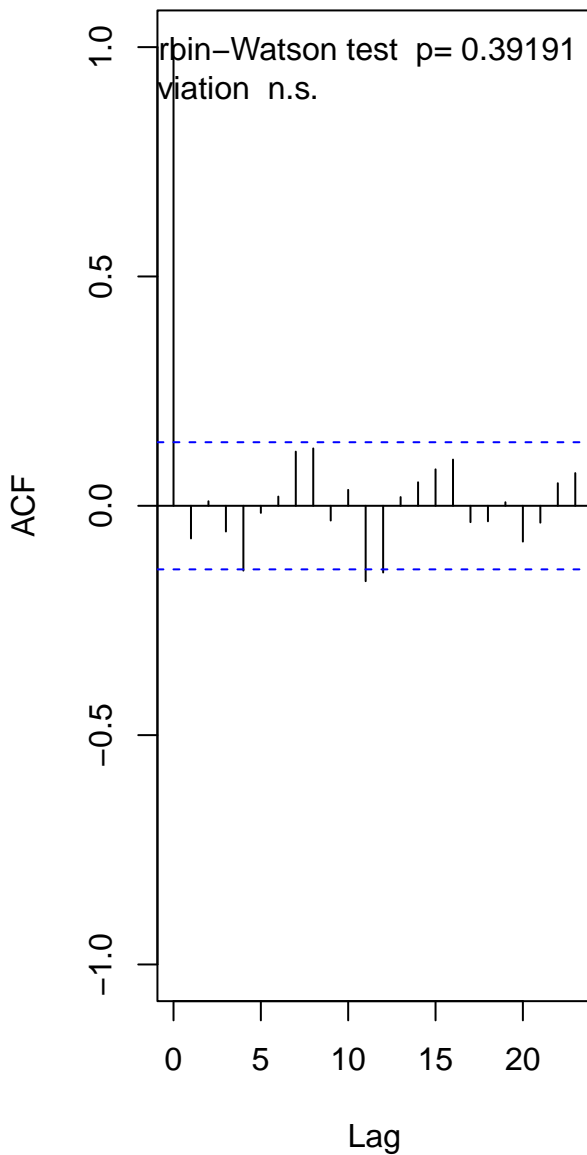
DHARMa Moran's I test for distance-based autocorrelation



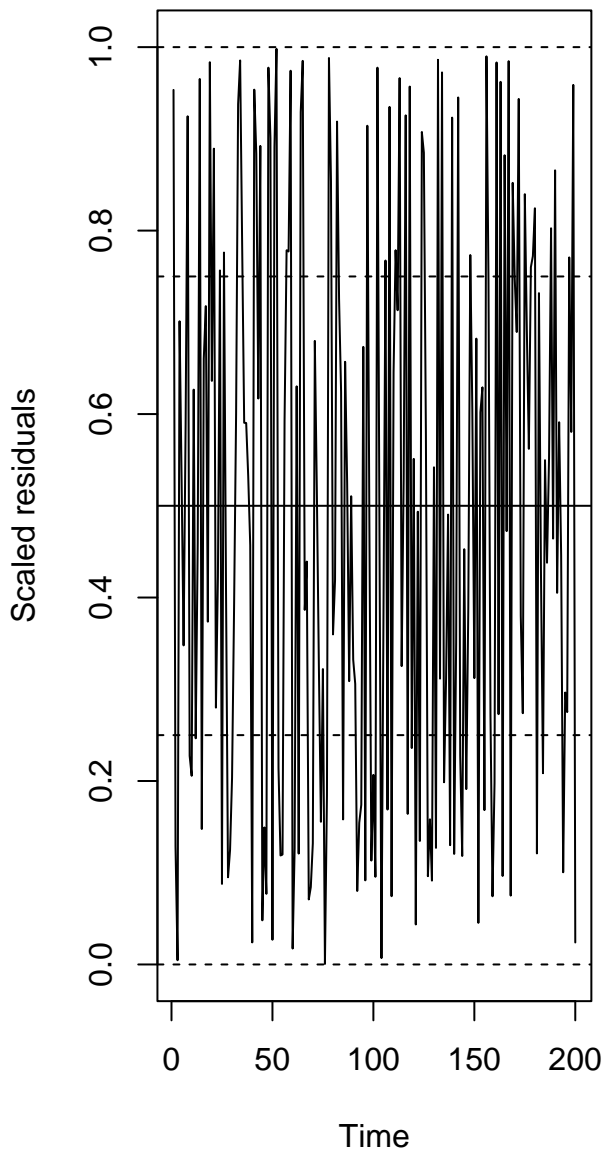
Residuals vs. time



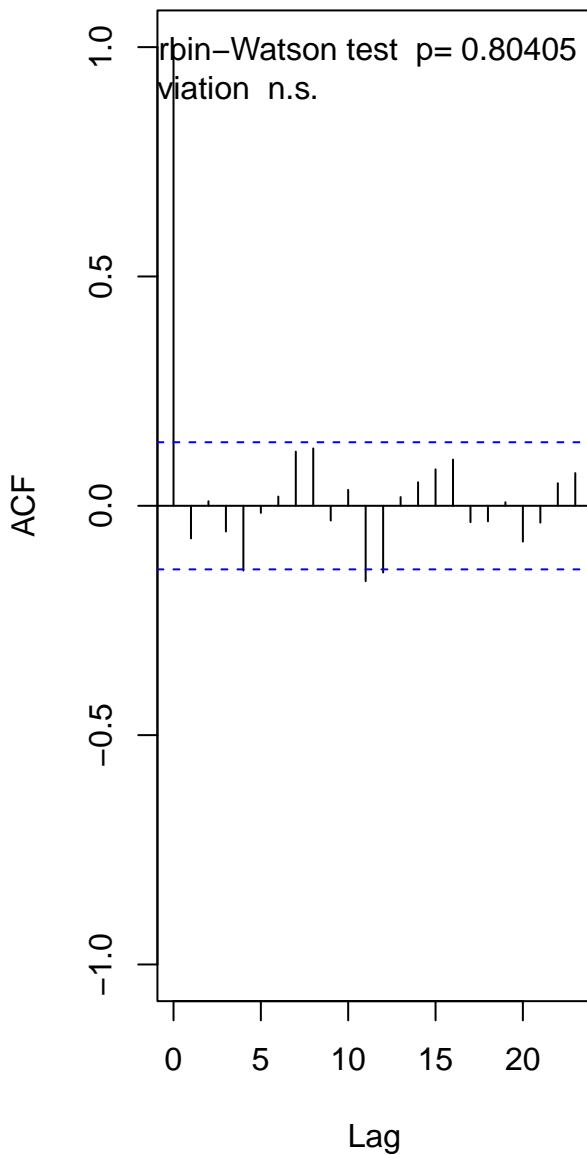
Autocorrelation



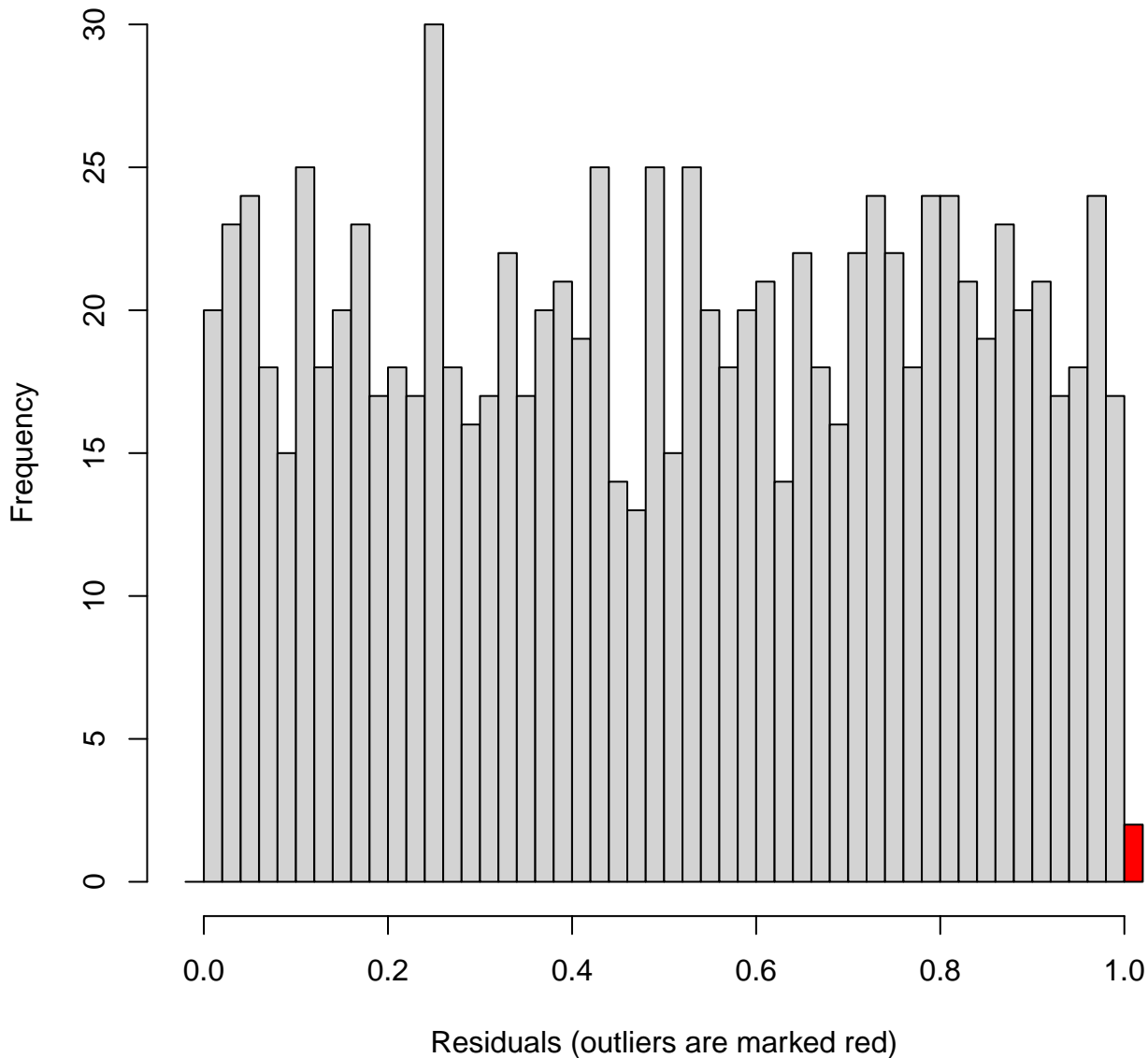
Residuals vs. time



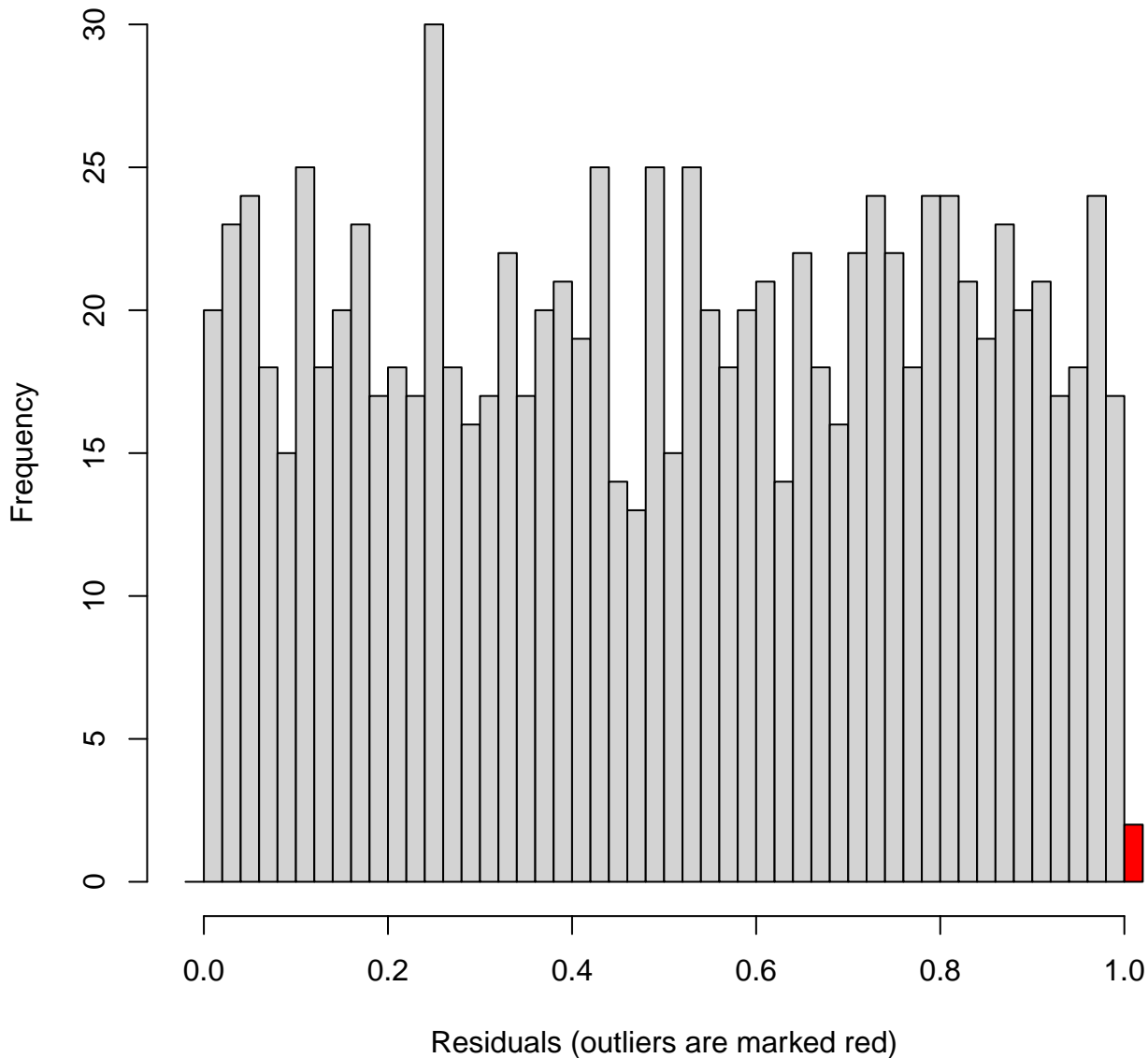
Autocorrelation



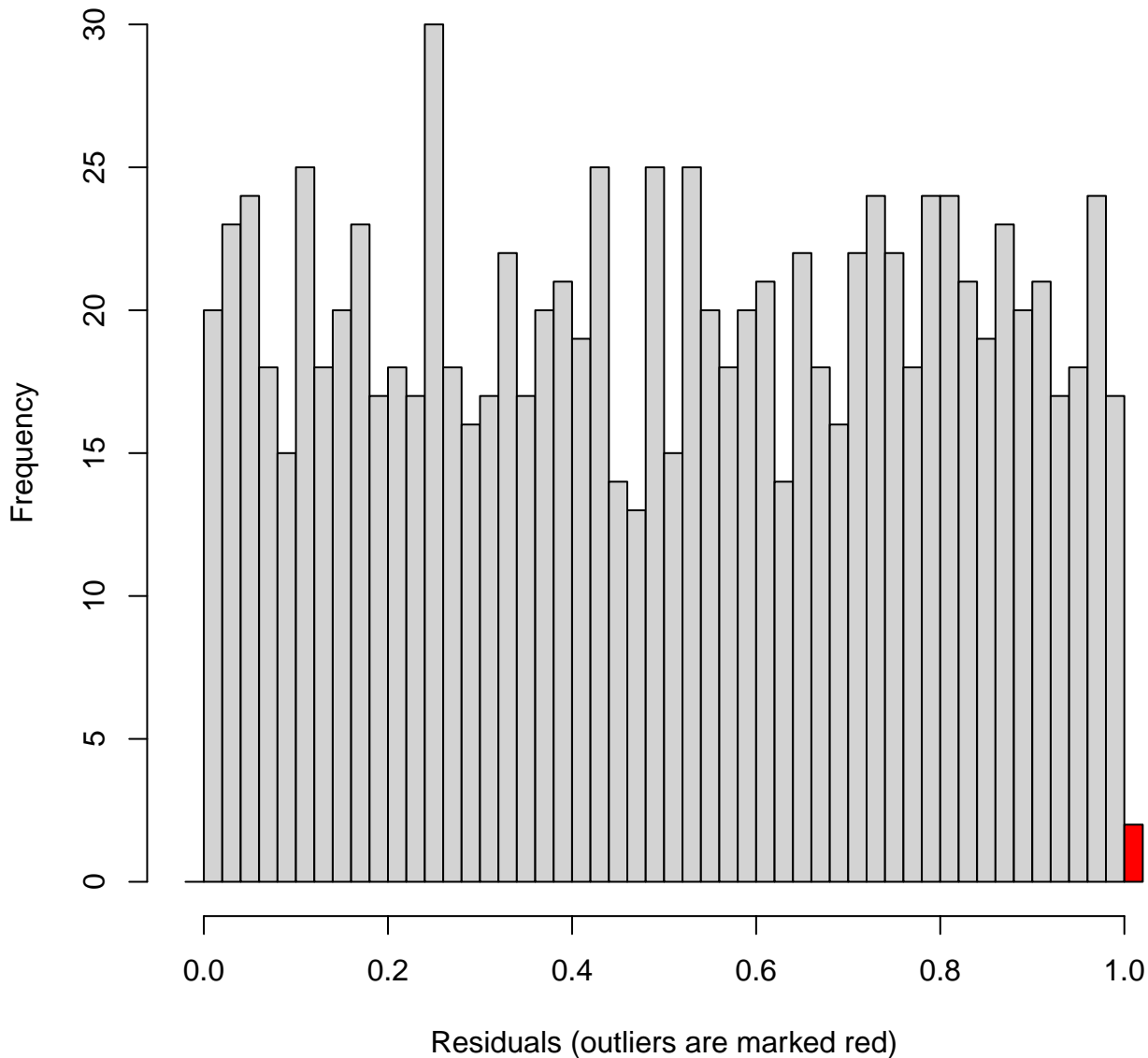
Outlier test n.s.



Outlier test n.s.



Outlier test n.s.



Outlier test n.s.

