

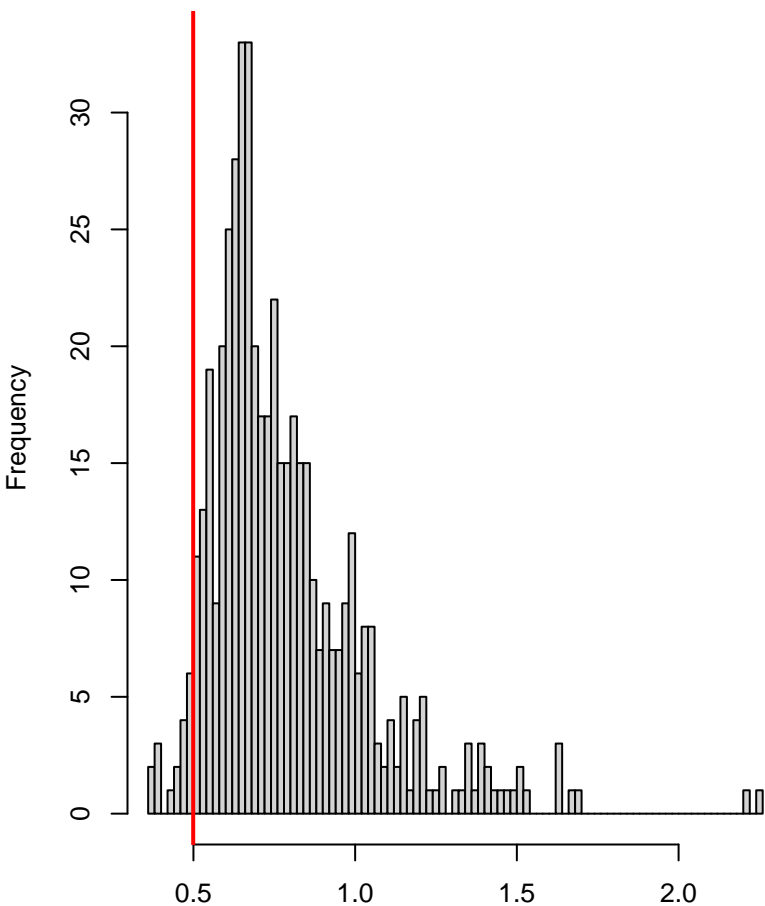
## Model validation report

Model: 2012\_2016\_biomass

Observations: 801

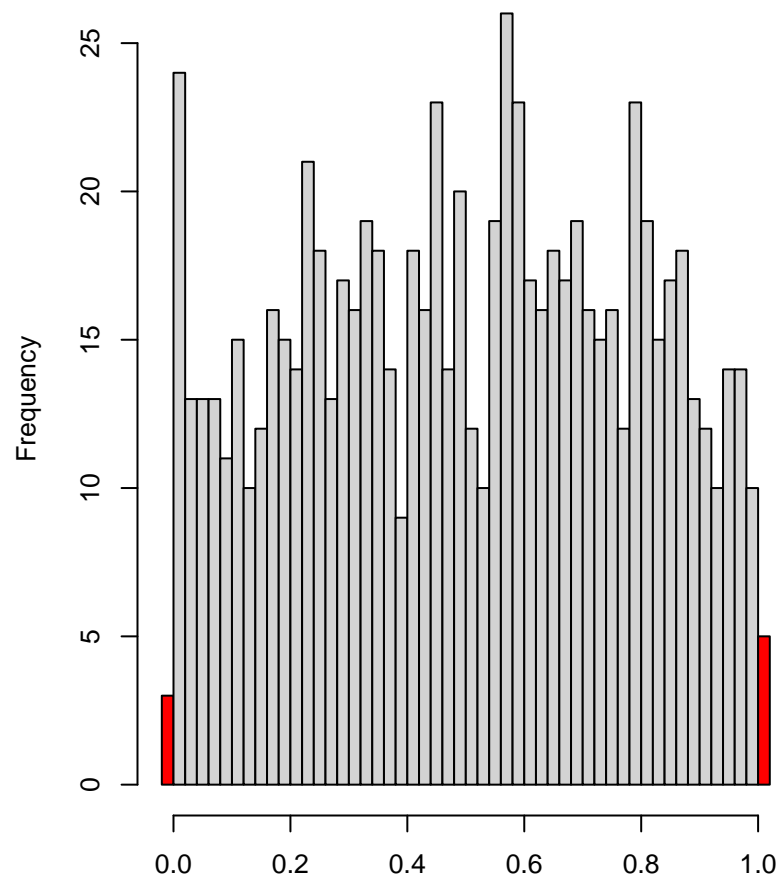
Date: 2025-12-21

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



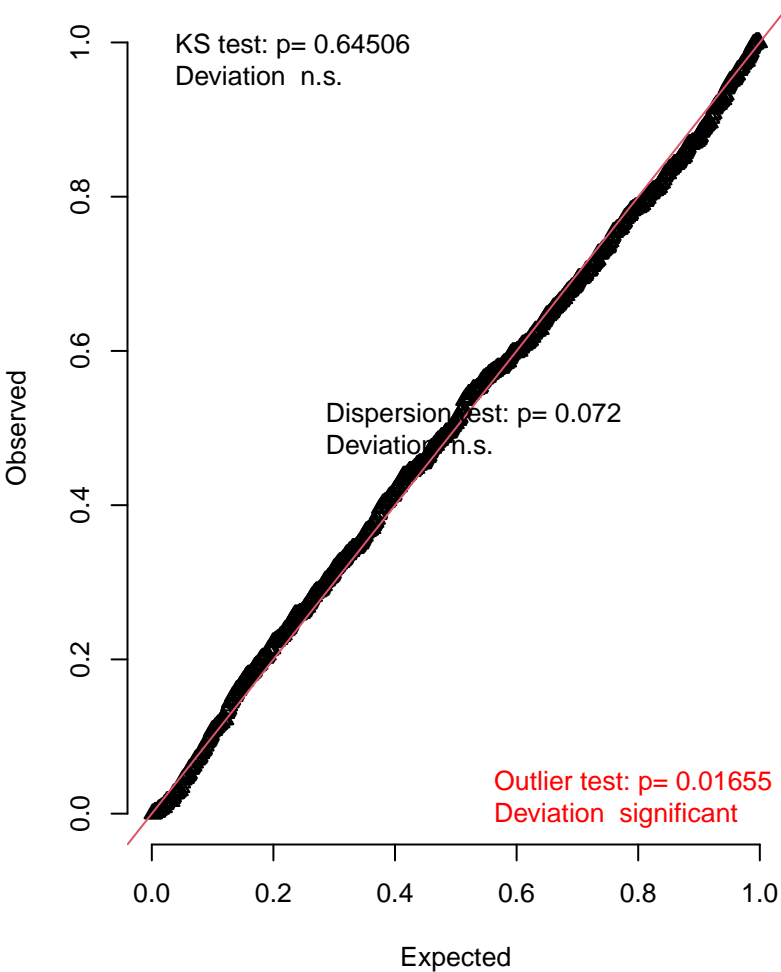
Simulated values, red line = fitted model. p-value (two.sided) = 0.

Outlier test significant

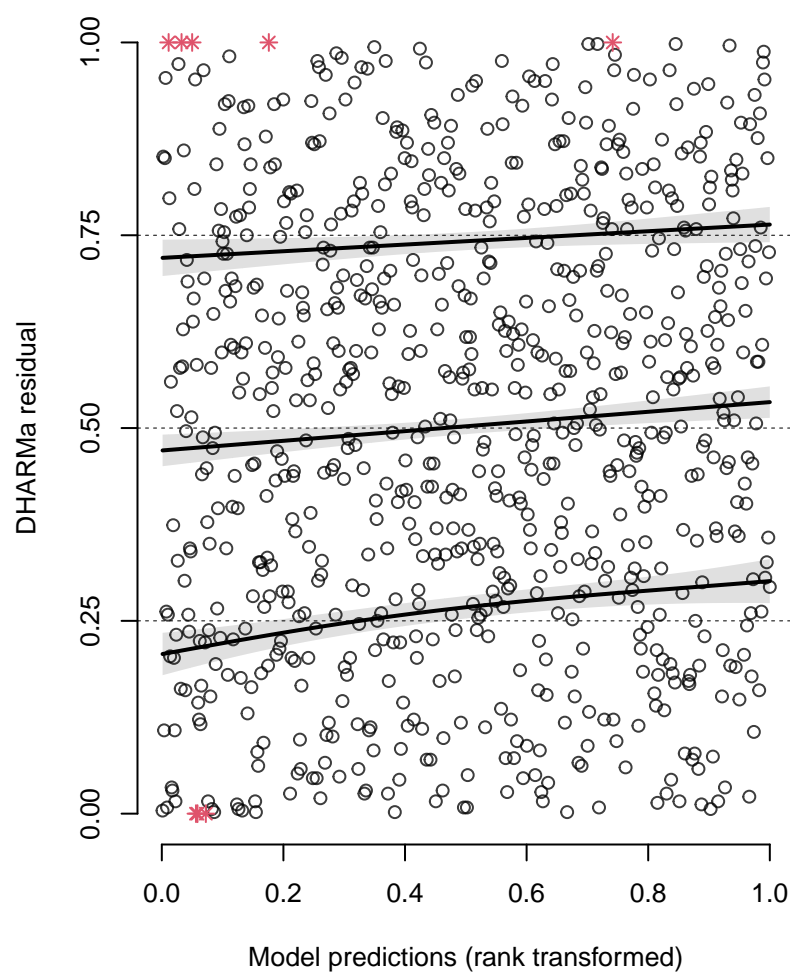


Residuals (outliers are marked red)

QQ plot residuals



DHARMA residual vs. predicted  
No significant problems detected



**DHARMA Moran's I test for distance-based autocorrelation**  
Moran's I = 0.038 | H1: Distance-based autocorrelation | p-value = 0.003

