Model validation report
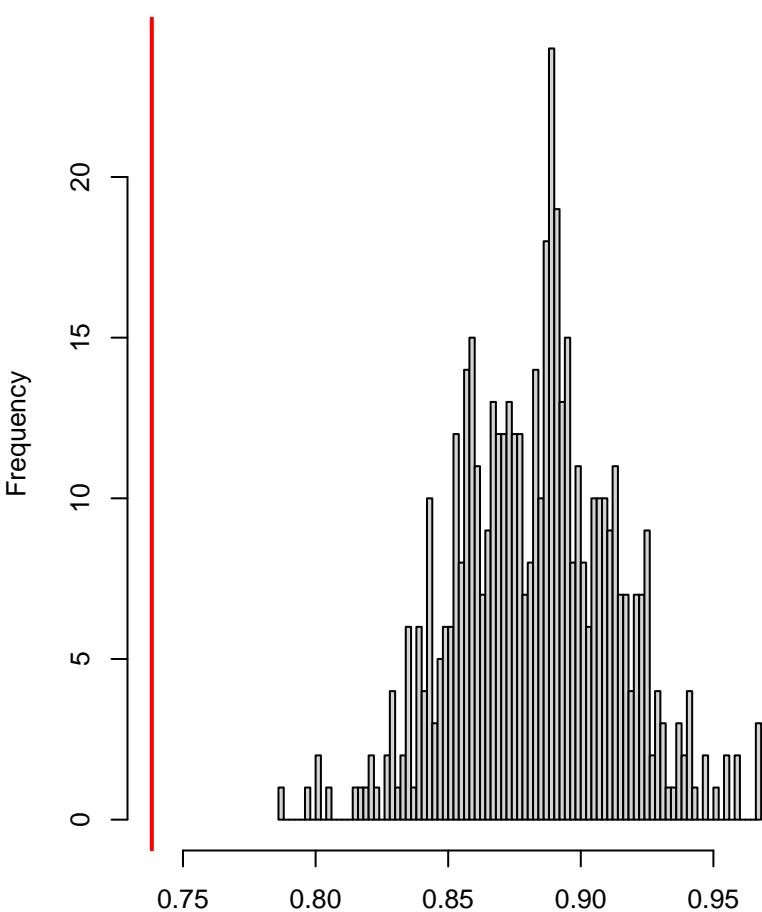
Model: fishing_Teve
Observations: 1753
Date: 2025–12–22
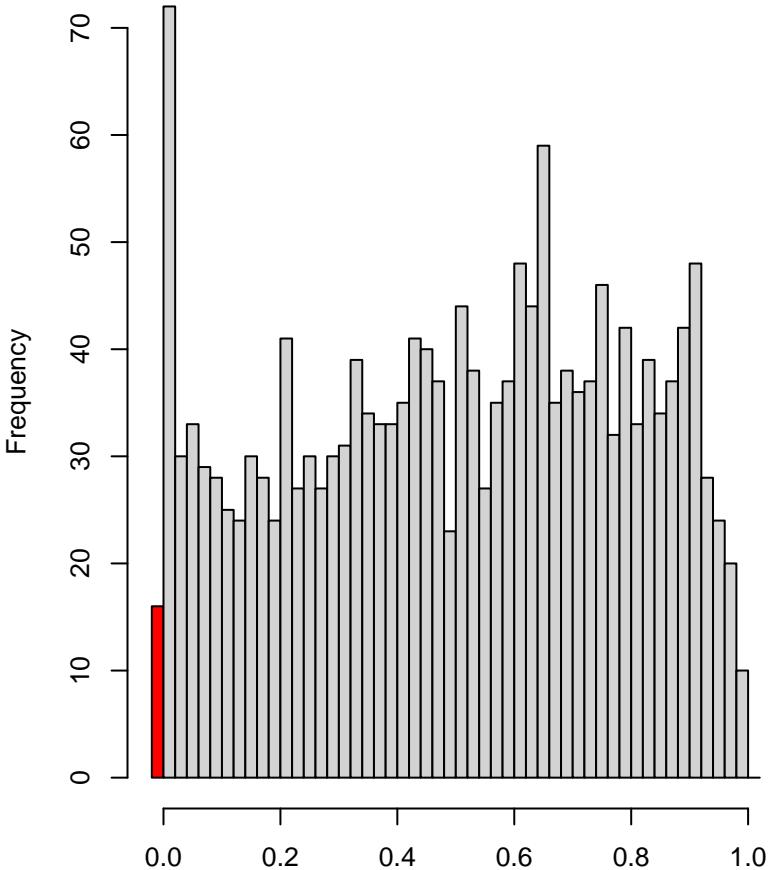
DHARMa nonparametric dispersion test via sd of residuals fitted vs. simulated

Outlier test significant

Frequency
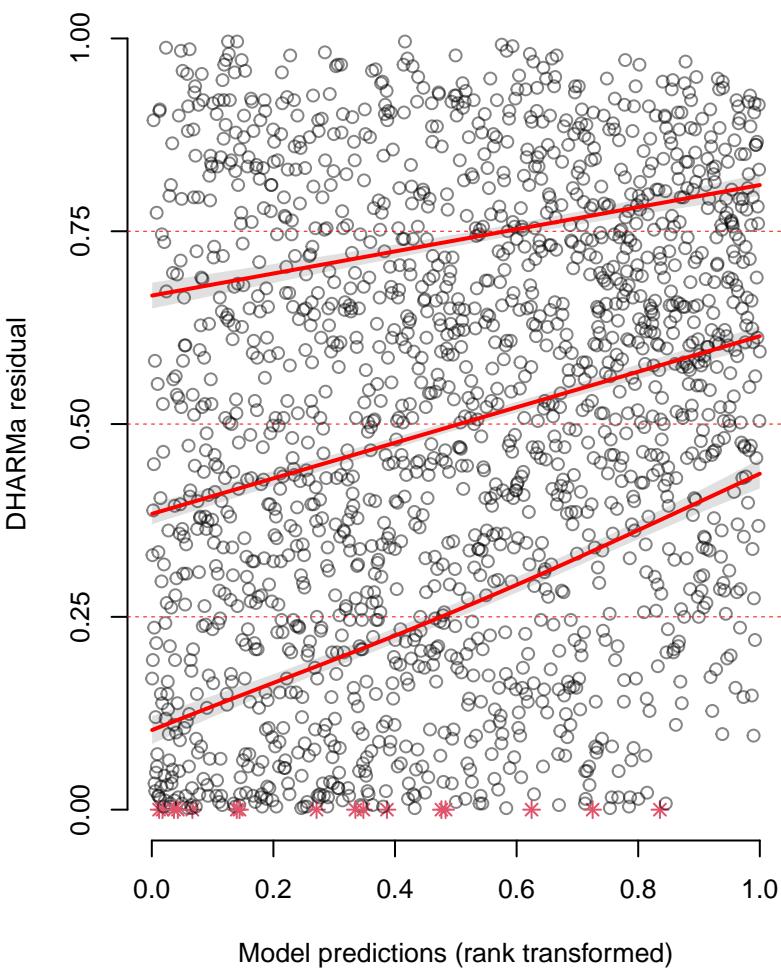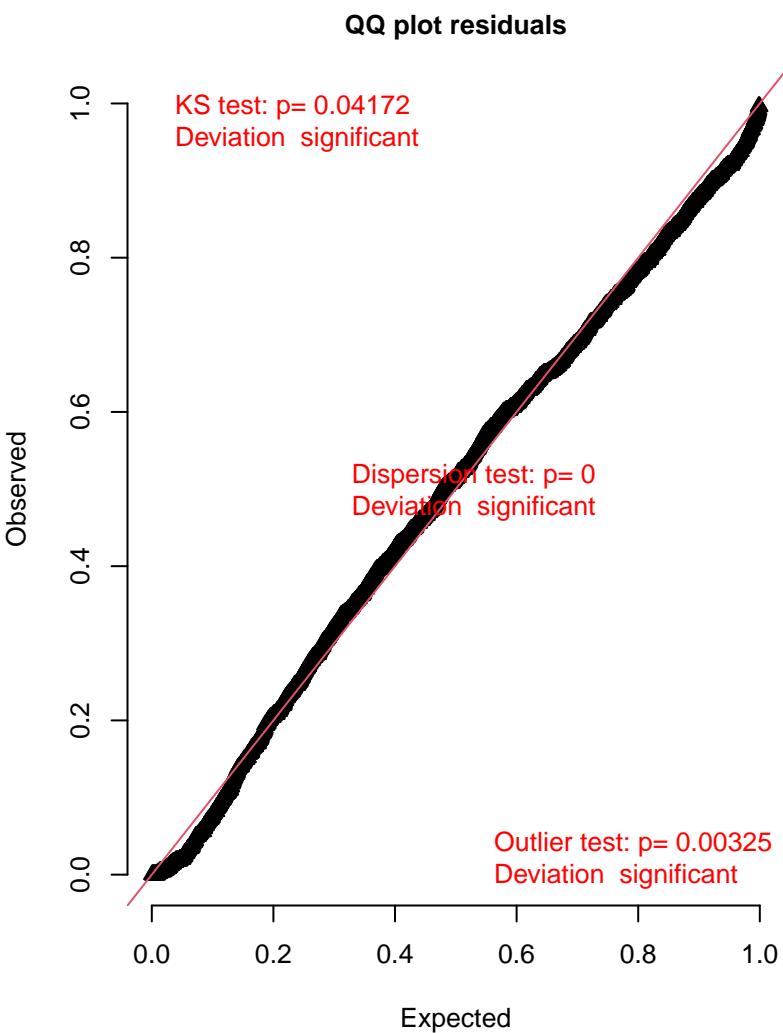
Simulated values, red line = fitted model. p−value (two.sided) =

Residuals (outliers are marked red)

QQ plot residuals

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

KS test: p= 0.04172
Deviation significant

Dispersion test: p= 0
Deviation significant

Outlier test: p= 0.00325
Deviation significant

Observed

Expected

DHARMa residual

Model predictions (rank transformed)

DHARMa Moran's I test for distance−based autocorrelation

Moran's I = 0.032 | H1: Distance−based autocorrelation | p−value = 0

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: Fric

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: Feve

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: Fdis

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: Tric

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: Tdiv

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: sst_mean

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: sst_sd

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test n.s.
Predictor: sbt_mean

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: sbt_sd

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: sic_mean

DHARMa residual Residual vs. predictor
Quantile deviations detected (red curves)
Combined adjusted quantile test significant
Predictor: sic_sd

DHARMa residual Residual vs. predictor
No significant problems detected
Predictor: chla_mean

DHARMa residual Residual vs. predictor
No significant problems detected
Predictor: log_chla_mean

DHARMa residual Residual vs. predictor
No significant problems detected
Predictor: log_fishing_effort