

Supplementary material

Diel vertical movements of a coastal predator, the roosterfish (*Nematistius pectoralis*)

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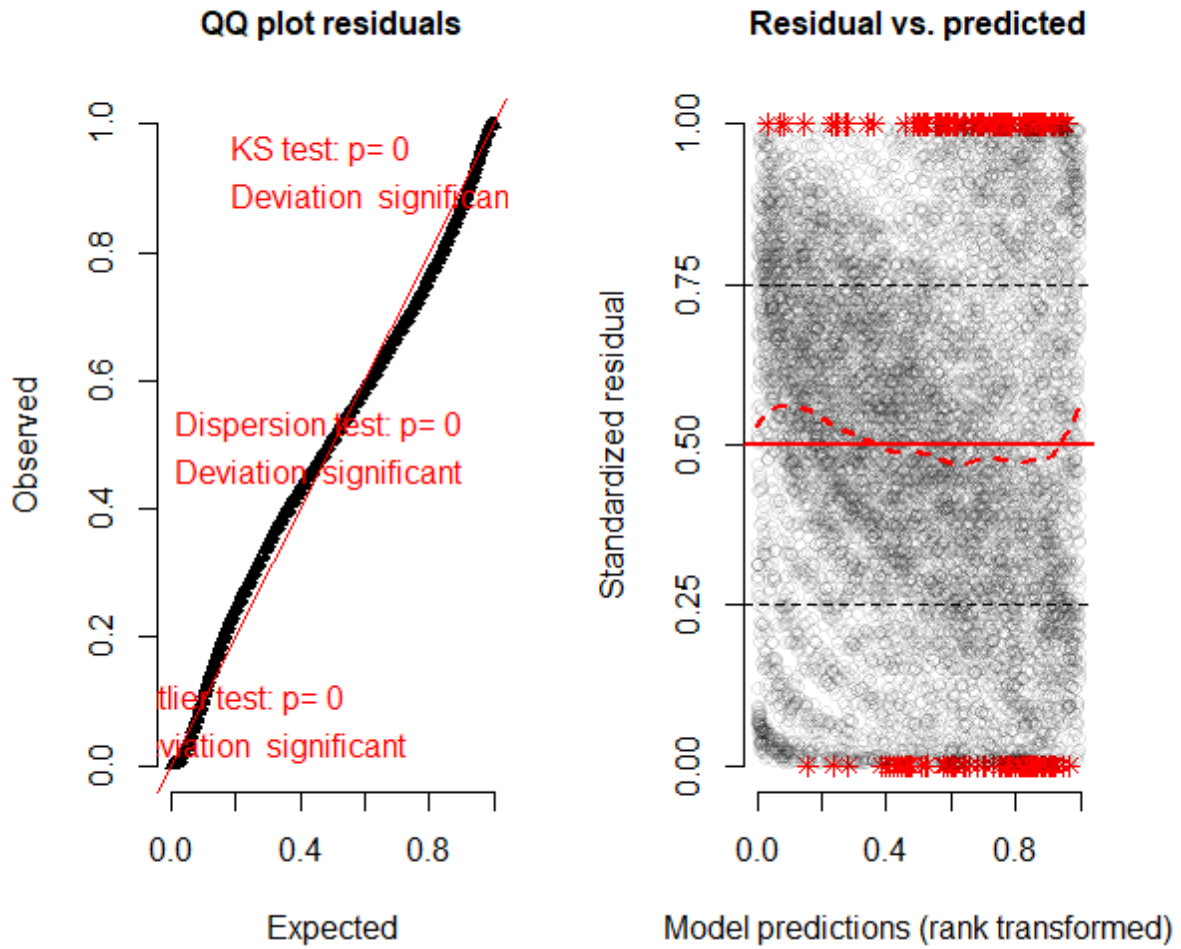
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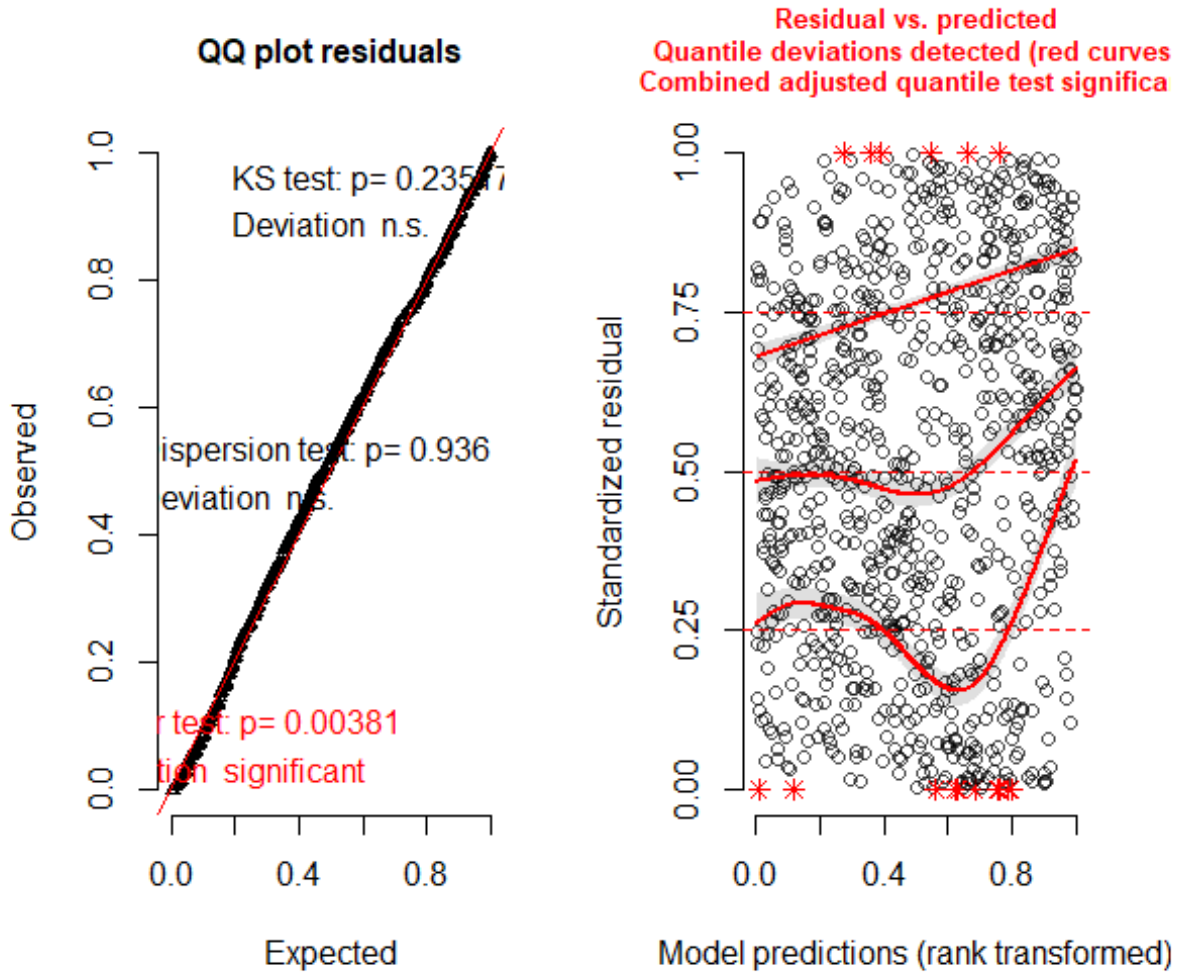
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DHARMA residual diagnostics



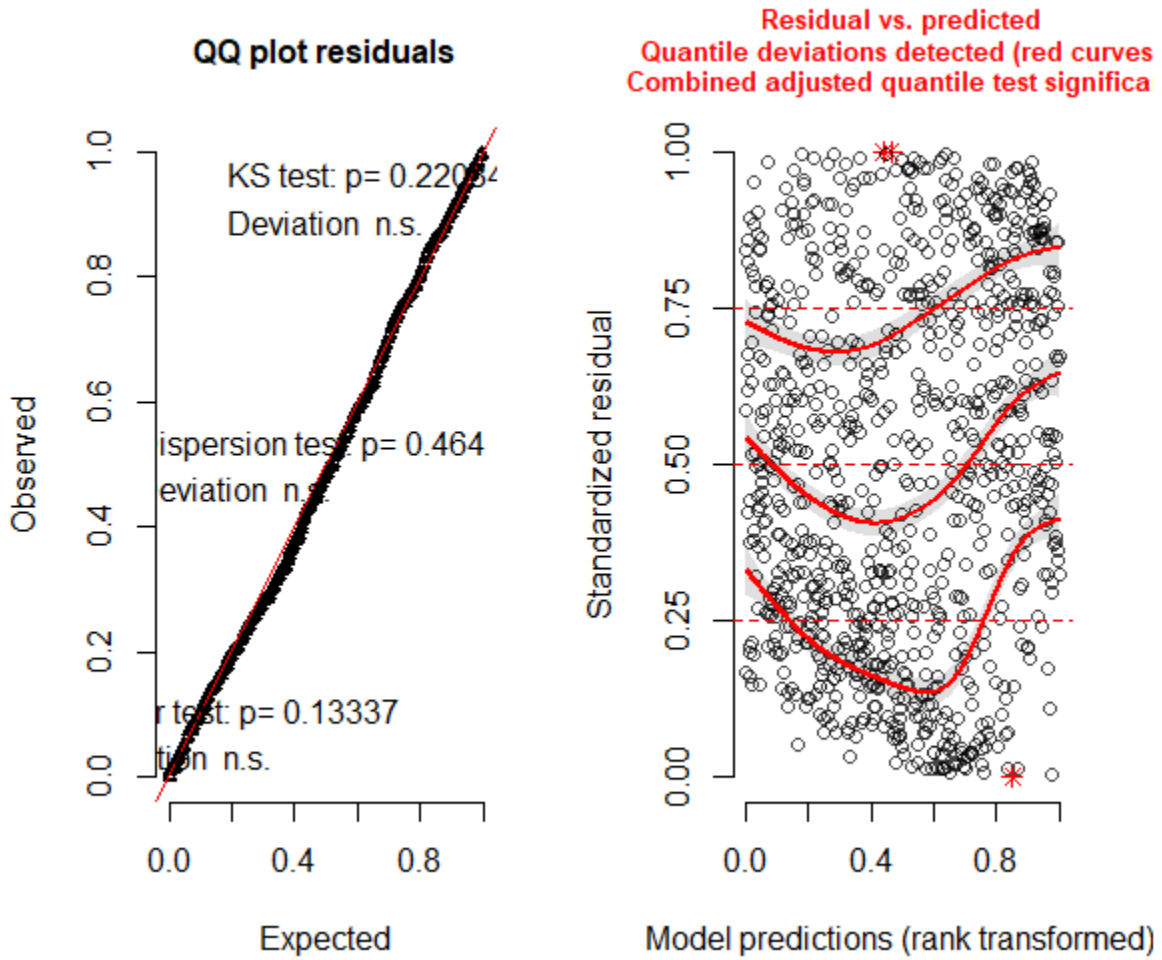
Residual plots for best fit GAMM predicting roosterfish (*Nematistius pectoralis*) minimum depth over the course of the day. Model was fit using a Gamma distribution and log link.

DHARMA residual diagnostics



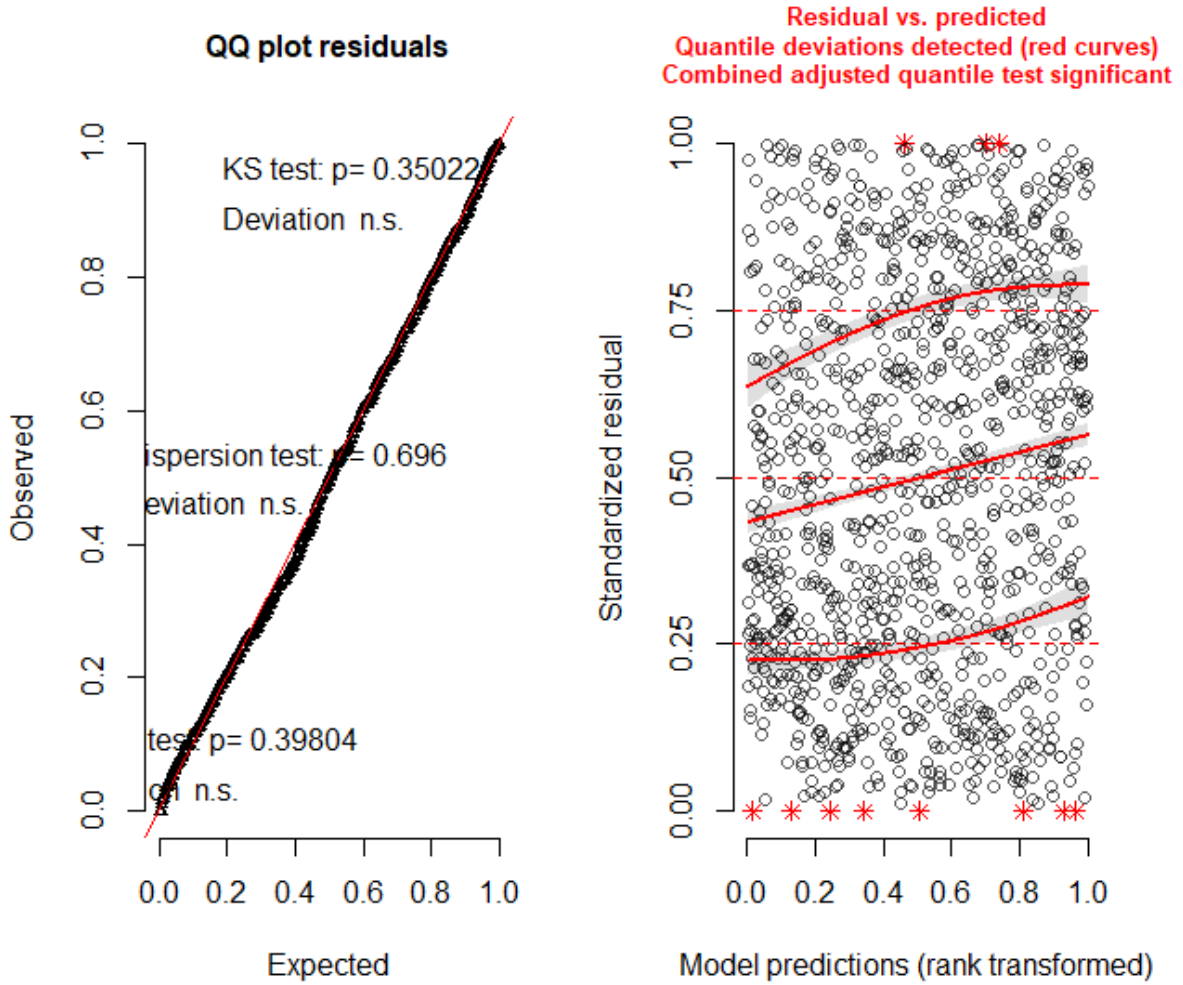
Residual plots for best fit GAMM predicting roosterfish (*Nematistius pectoralis*) mean depth over the course of the day. Model was fit using an Inverse Gaussian distribution and log link.

DHARMA residual diagnostics



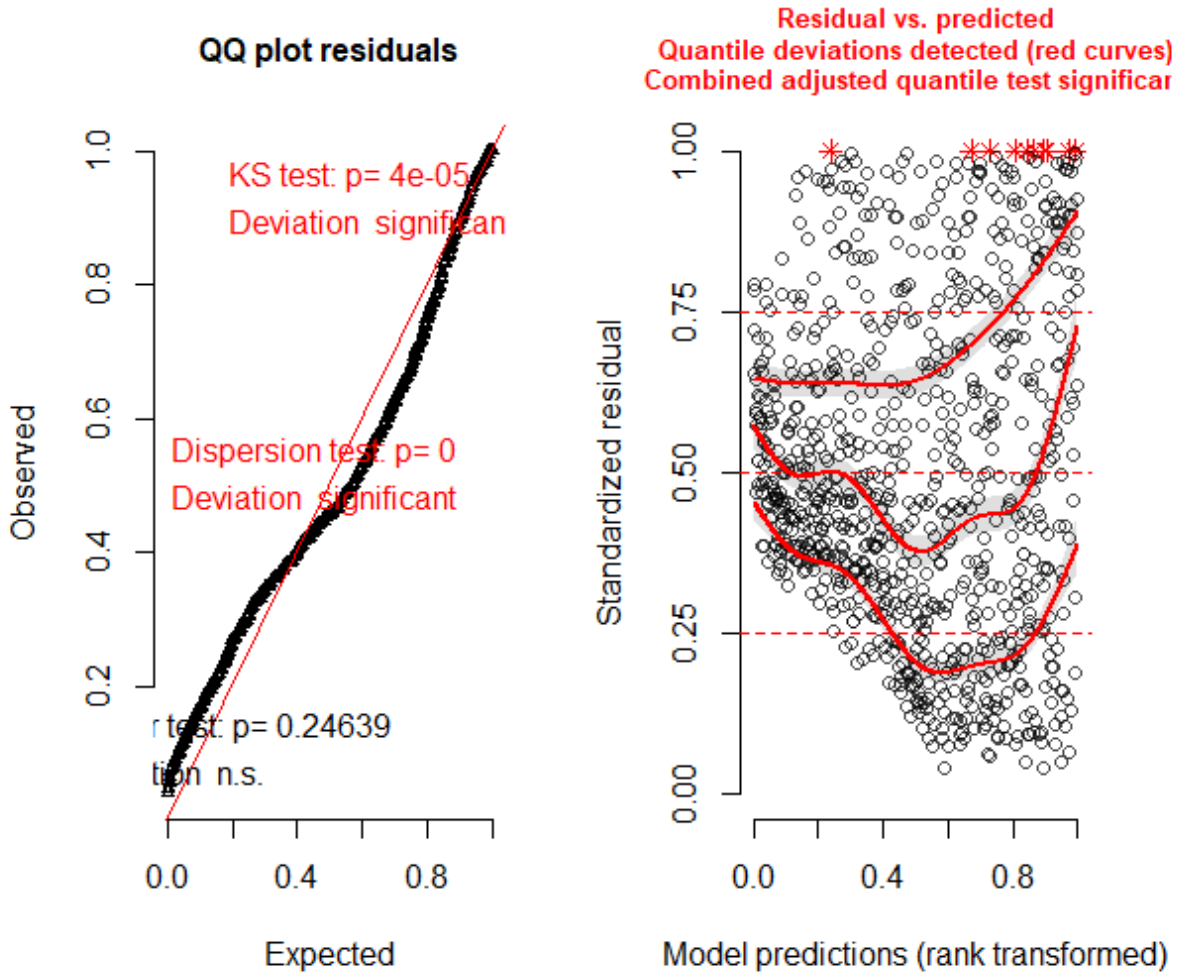
Residual plots for best fit GAMM predicting roosterfish (*Nematistius pectoralis*) maximum depth over the course of the day. Model was fit using a Gamma distribution and log link.

DHARMA residual diagnostics



Residual plots for best fit GAMM predicting roosterfish (*Nematistius pectoralis* vertical distance traveled over the course of the day. Model was fit using a Gamma distribution and log link.

DHARMA residual diagnostics



Residual plots for best fit GAMM predicting roosterfish (*Nematistius pectoralis*) activity over the course of the day. Model was fit using an Inverse Gaussian distribution and log link.