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Statistical Test for Threshold Significance

Method: F-test comparing nested GAM models with tensor product smooths F-statistic: 2.81 p-value: Significant at a=0.05:

A significant test indicates that modeling separate moisture–DOM thermodynamics interactions before and after the threshold is statistically preferred.

Deviance explained (single model): 77.3% Deviance explained (threshold model): 86.2%