> aPSouth$gam

Family: gaussian

Link function: identity

Formula:

OtoWidth ~ s(Ages) + FinSouthSST\_AnnEsts

Estimated degrees of freedom:

7.91 total = 9.91

lmer.REML score: 5204.541

> summary(aPSouth$gam)

Family: gaussian

Link function: identity

Formula:

OtoWidth ~ s(Ages) + FinSouthSST\_AnnEsts

Parametric coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) -4.2582 7.5187 -0.566 0.57129

FinSouthSST\_AnnEsts 1.2815 0.4167 3.075 0.00216 \*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Approximate significance of smooth terms:

edf Ref.df F p-value

s(Ages) 7.915 7.915 76.56 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

R-sq.(adj) = 0.315lmer.REML score = 5204.5 Scale est. = 11.632 n = 965

> aPSouth$mer

Linear mixed model fit by REML ['lmerMod']

REML criterion at convergence: 5204.541

Random effects:

Groups Name Std.Dev.

FishName (Intercept) 2.556

Xr s(Ages) 219.121

Residual 3.411

Number of obs: 965, groups: FishName, 23; Xr, 8

Fixed Effects:

X(Intercept) XFinSouthSST\_AnnEsts Xs(Ages)Fx1

-4.258 1.282 -13.244

> summary(aPSouth$mer)

Linear mixed model fit by REML ['lmerMod']

REML criterion at convergence: 5204.5

Scaled residuals:

Min 1Q Median 3Q Max

-3.2266 -0.5490 -0.0448 0.4569 9.7047

Random effects:

Groups Name Variance Std.Dev.

FishName (Intercept) 6.531 2.556

Xr s(Ages) 48014.161 219.121

Residual 11.632 3.411

Number of obs: 965, groups: FishName, 23; Xr, 8

Fixed effects:

Estimate Std. Error t value

X(Intercept) -4.2582 7.5187 -0.566

XFinSouthSST\_AnnEsts 1.2815 0.4167 3.075

Xs(Ages)Fx1 -13.2435 2.7273 -4.856

Correlation of Fixed Effects:

X(Int) XFSSST

XFnStSST\_AE -0.997

Xs(Ages)Fx1 -0.014 0.014