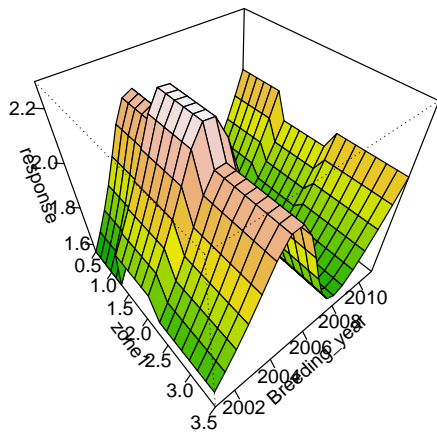


## Mean family size GAM

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```
##
## Family: poisson
## Link function: log
##
## Formula:
## meanfam ~ s(Breeding_year) + s(Breeding_year, by = zone1) + s(days) +
##       s(days, by = zone1) + ti(Breeding_year, days, by = zone1)
##
## Parametric coefficients:
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept)  0.60867    0.02282   26.67  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Approximate significance of smooth terms:
##                                     edf Ref.df Chi.sq  p-value
## s(Breeding_year)                   4.0472  4.963  24.028 0.000199 ***
## s(Breeding_year):zone1IJsselmeer    1.0001  1.000   0.196 0.657757
## s(Breeding_year):zone1Rhinelands    1.0000  1.000   0.003 0.957787
## s(days)                            1.0001  1.000   0.712 0.398971
## s(days):zone1IJsselmeer             1.0000  1.000   0.248 0.618319
## s(days):zone1Rhinelands             1.0001  1.000   0.006 0.936820
## ti(Breeding_year,days):zone1IJsselmeer 0.1147 14.000   0.124 0.295911
## ti(Breeding_year,days):zone1Rhinelands 2.2849  2.714   1.442 0.558067
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

meanfam size



meanfam size

