Trends in smooth cordgress biomass in the Virginia Coast Reserve

# 1 Introduction

## 1.1 Introduction

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**bold**  
*italics*  
this is a superscript  
this is a subscripts

# 2 Methods

We can easily write pretty mathematical formulas. For example, a simple linear model is given by

is the response variable.

The model formula for the GAM was

mean\_transect\_biomass ~ s(year) +  
 s(year, habitat\_type, bs = "fs") +  
 s(year, site, bs = "fs")

Here’s a random number: 1.43

# 3 Results

Results from the GAM showed that there was a significant non-linear trend in *S. alterniflora* biomass density through time (P = 0).

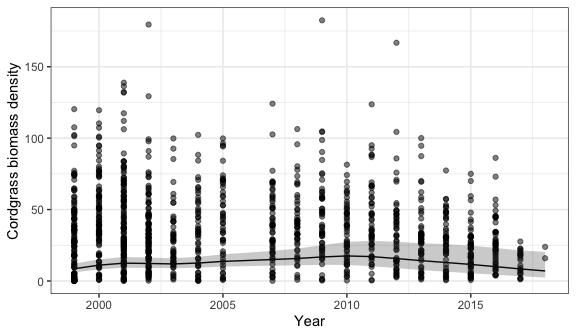


Figure 3.1: *S. alterniflora* trends in the VCR.

We used the GAMM formulation from 1.

We found a trend blah blah (Fig. 3.1).

1. Pedersen, E. J., Miller, D. L., Simpson, G. L. & Ross, N. Hierarchical generalized additive models in ecology: An introduction with mgcv. *PeerJ* **7**, e6876 (2019).