

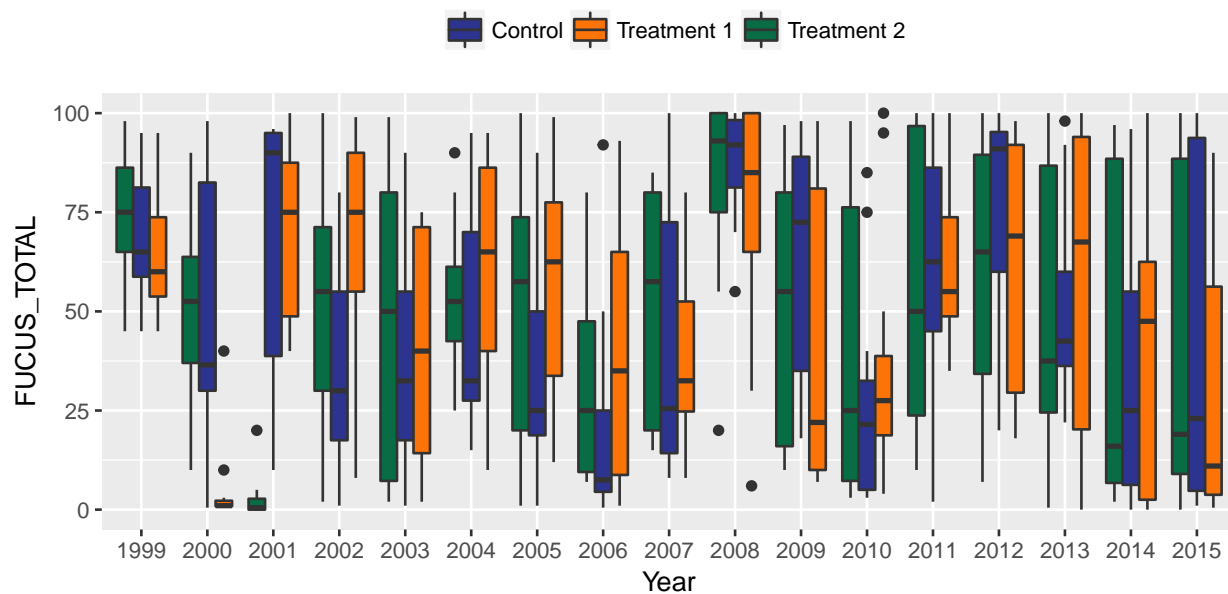
# Data Visualization

*Rachael E. Blake*

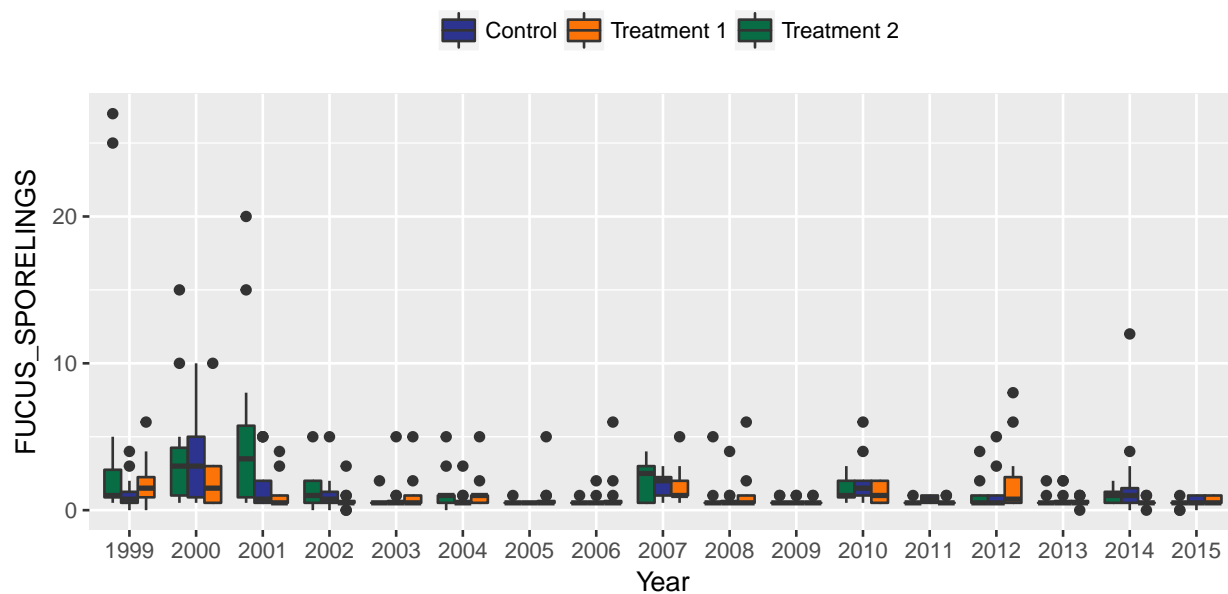
*May 1, 2017*

## Invertebrates: Percent Cover Data

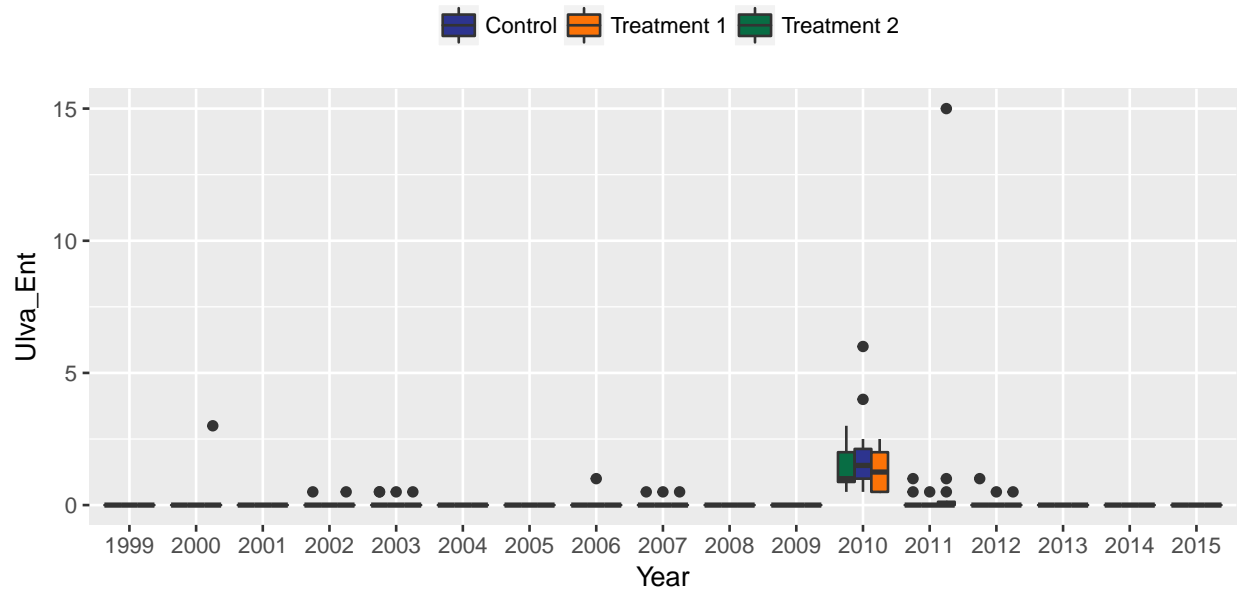
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## [[1]]
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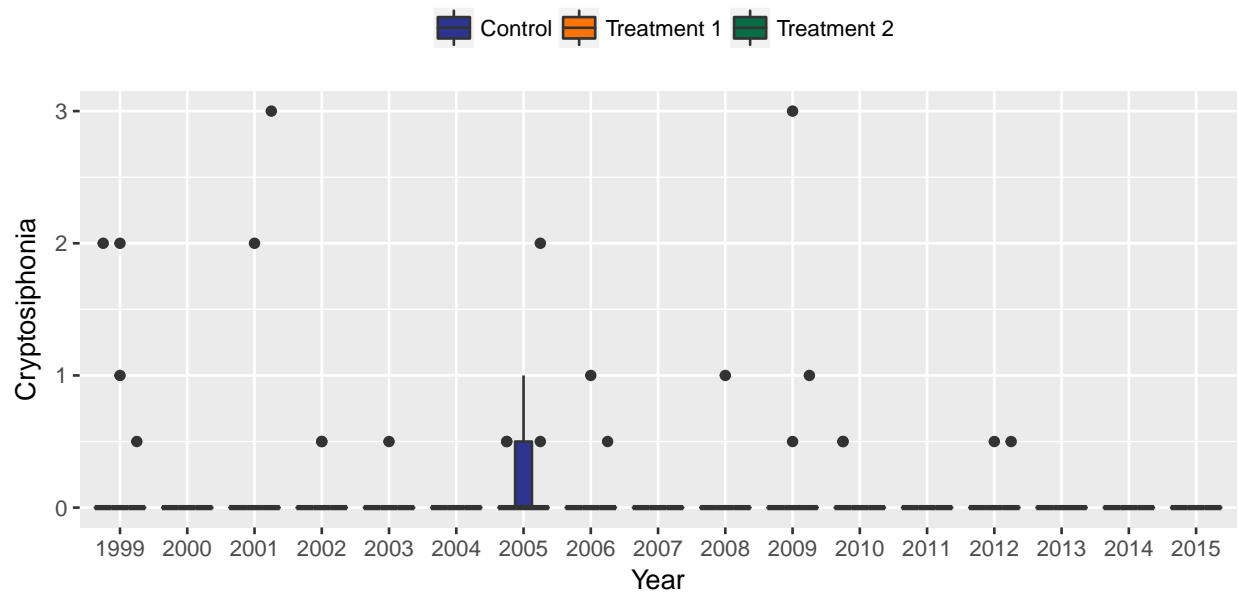
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##  
## [[2]]
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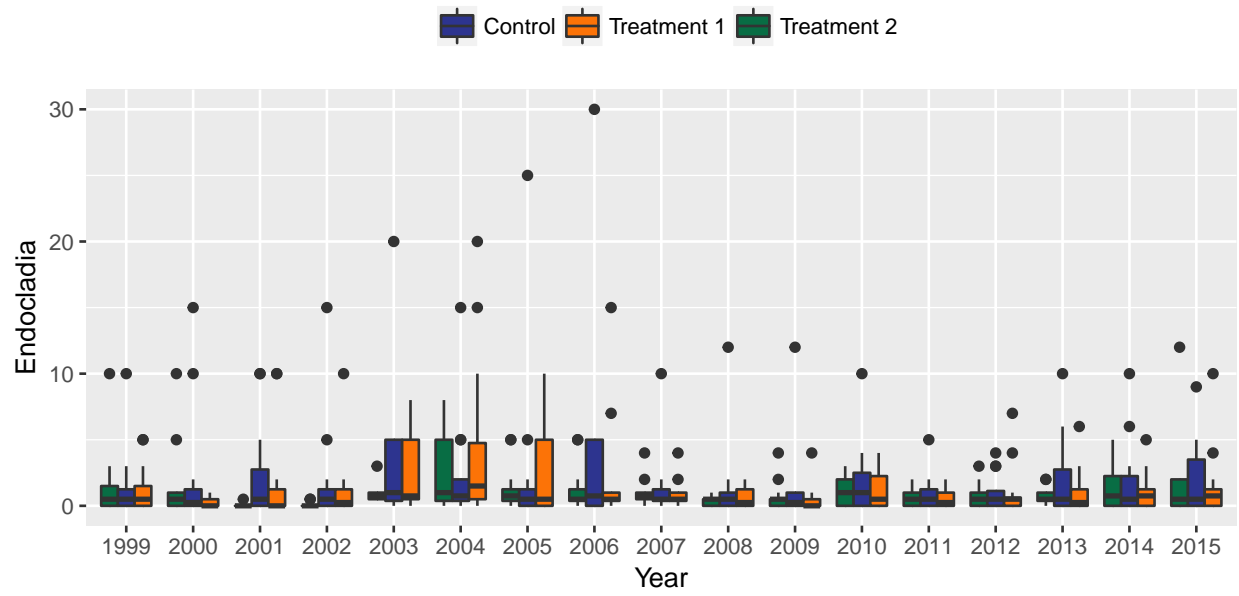
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## [[3]]
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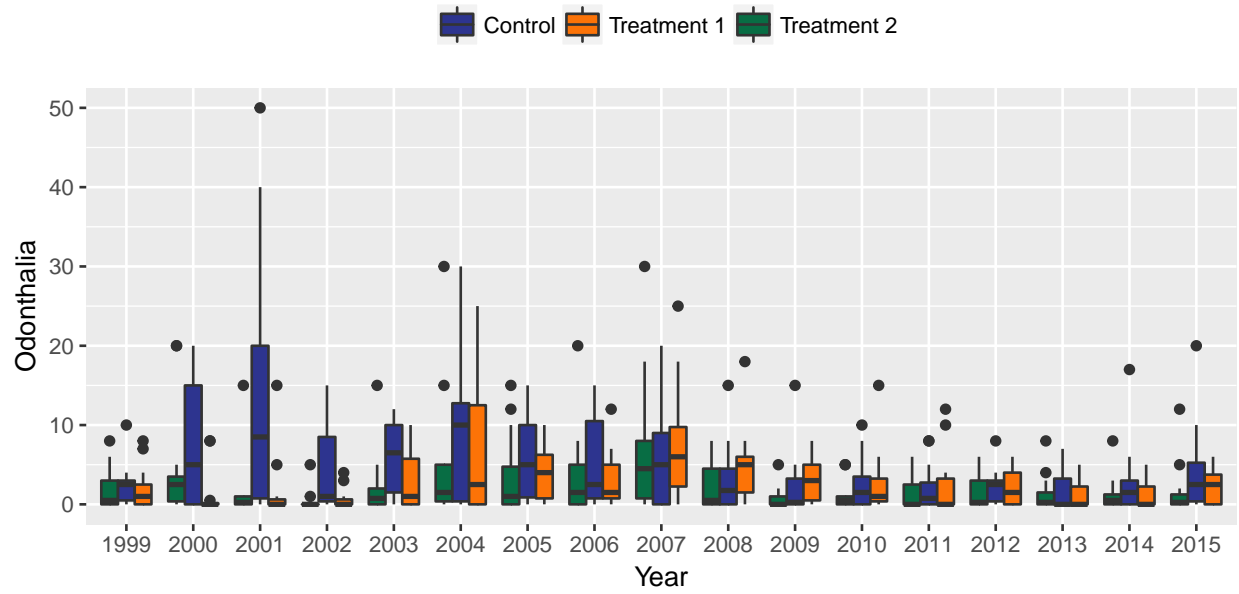
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## [[4]]
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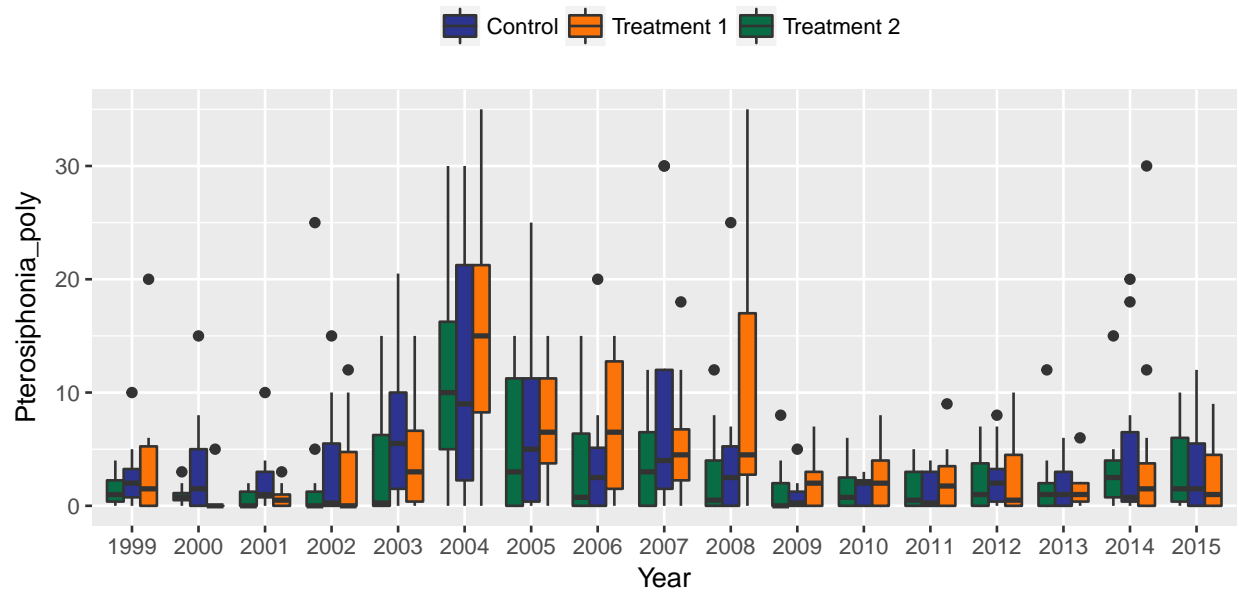
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##  
## [[5]]
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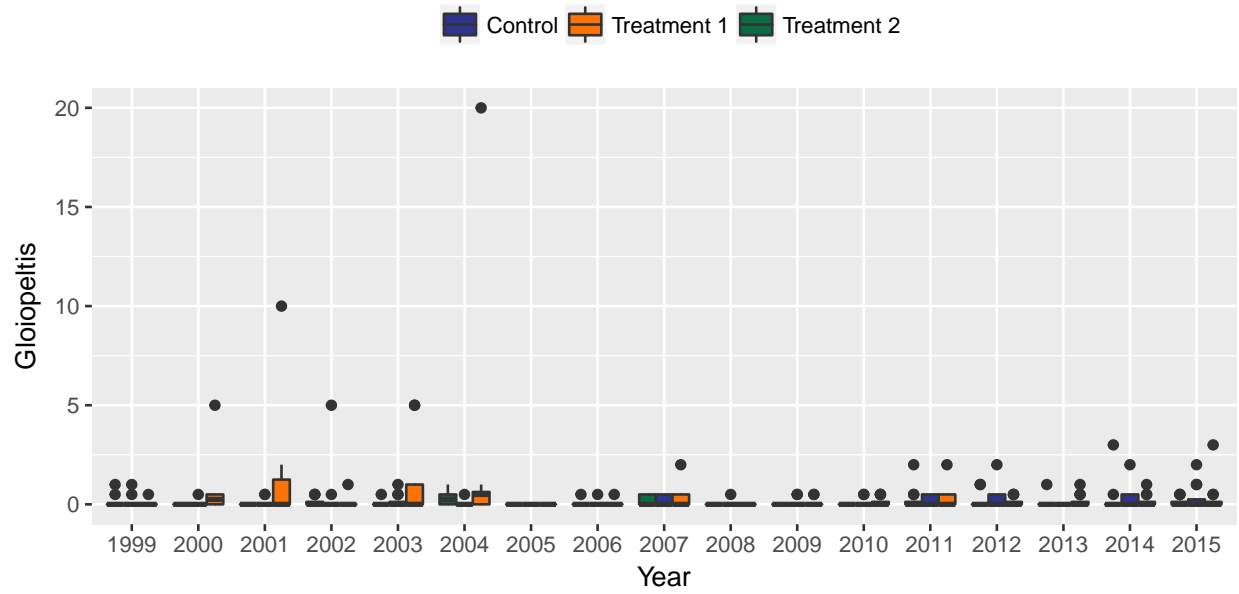
```
##
## [[6]]
```



```
##
## [[7]]
```



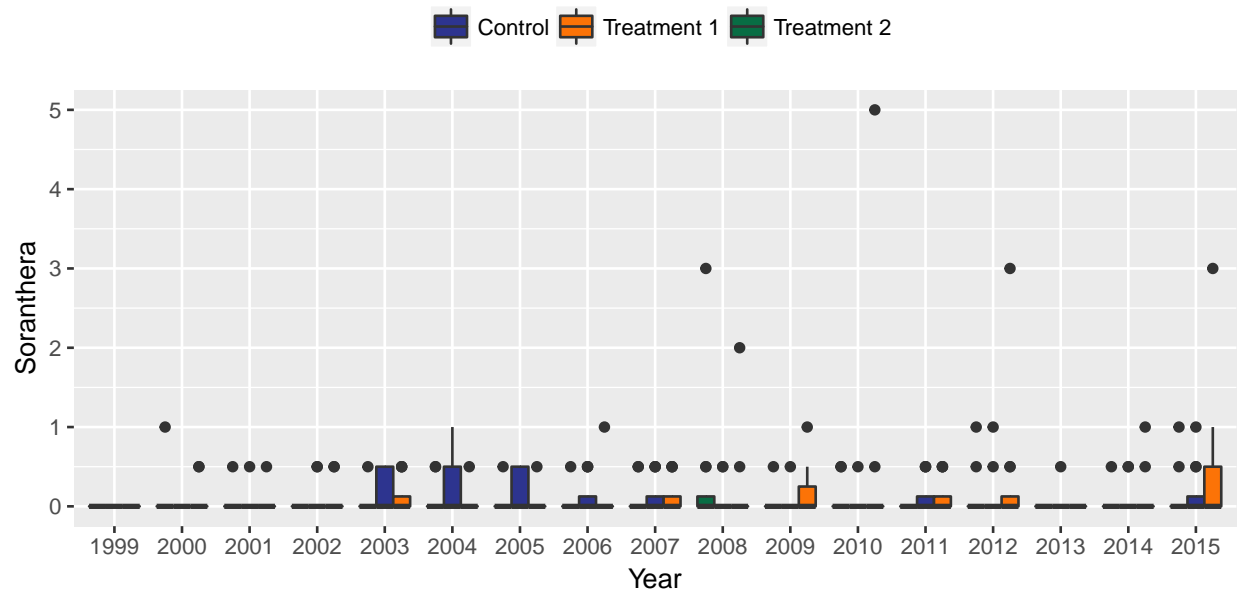
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##
## [[8]]
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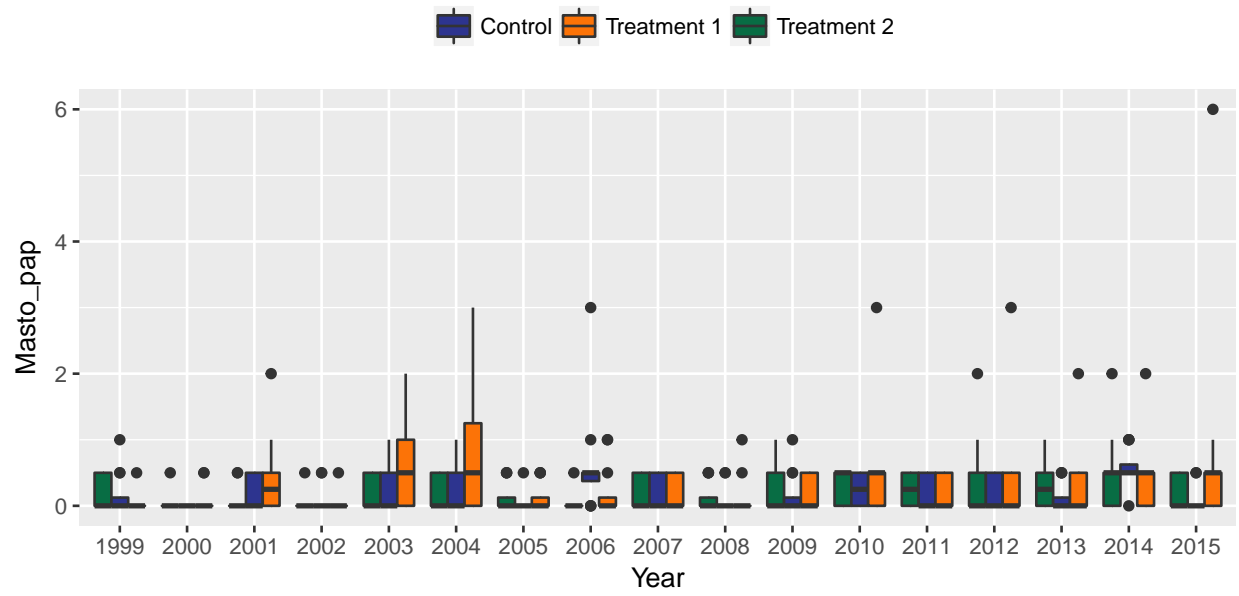
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##
## [[9]]
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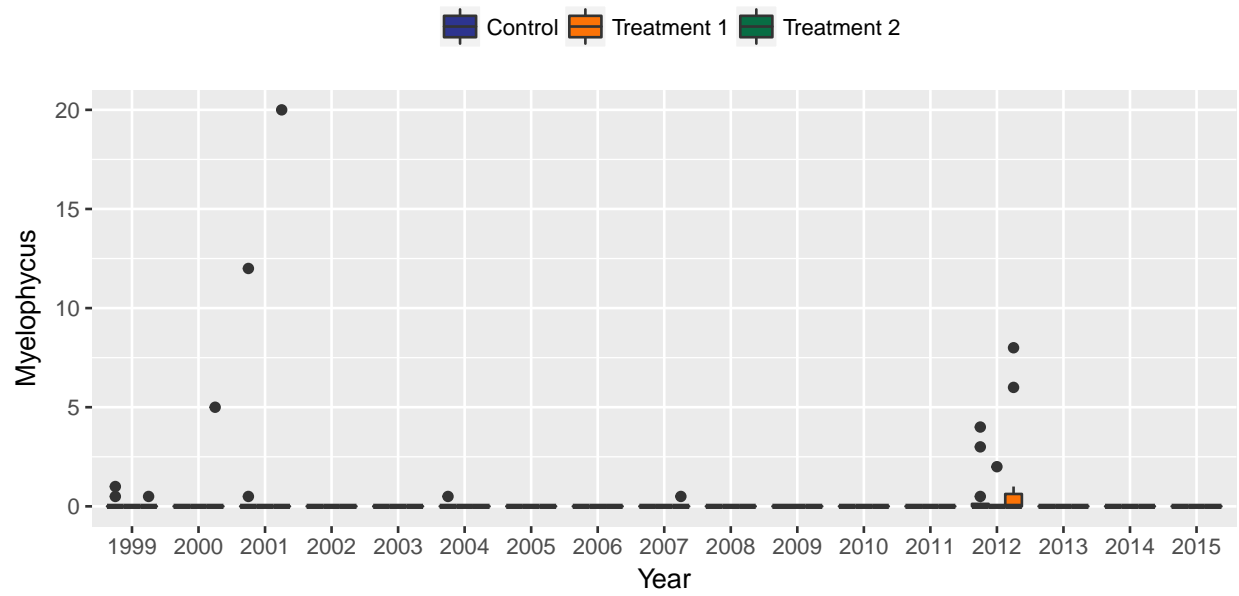
```
##
## [[10]]
```



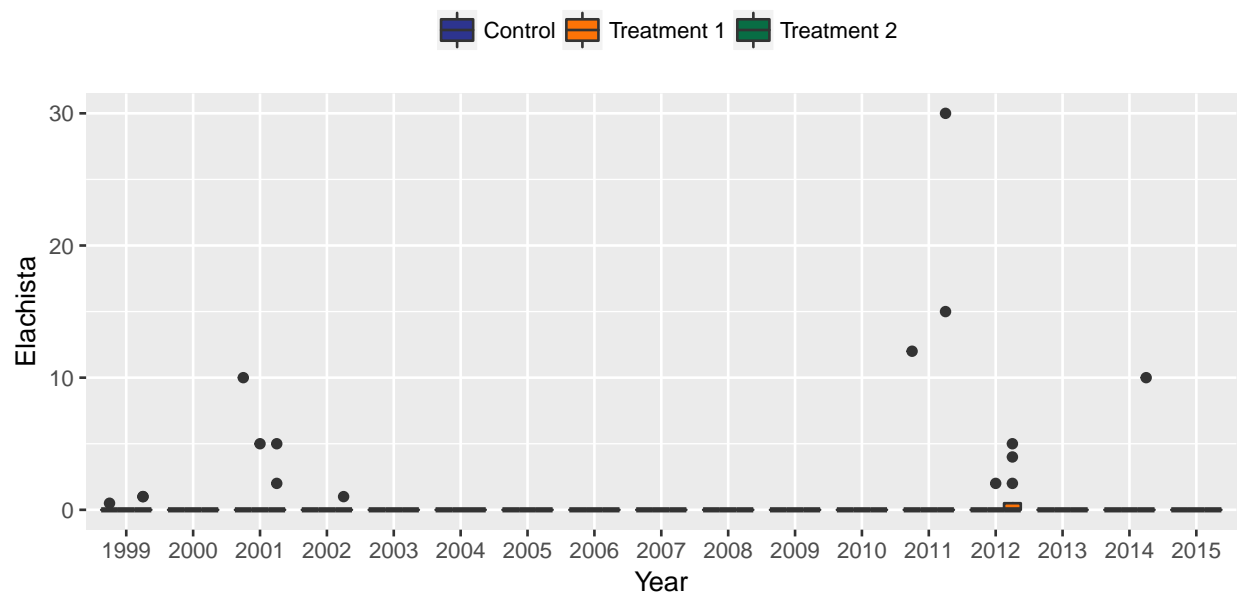
```
##
## [[11]]
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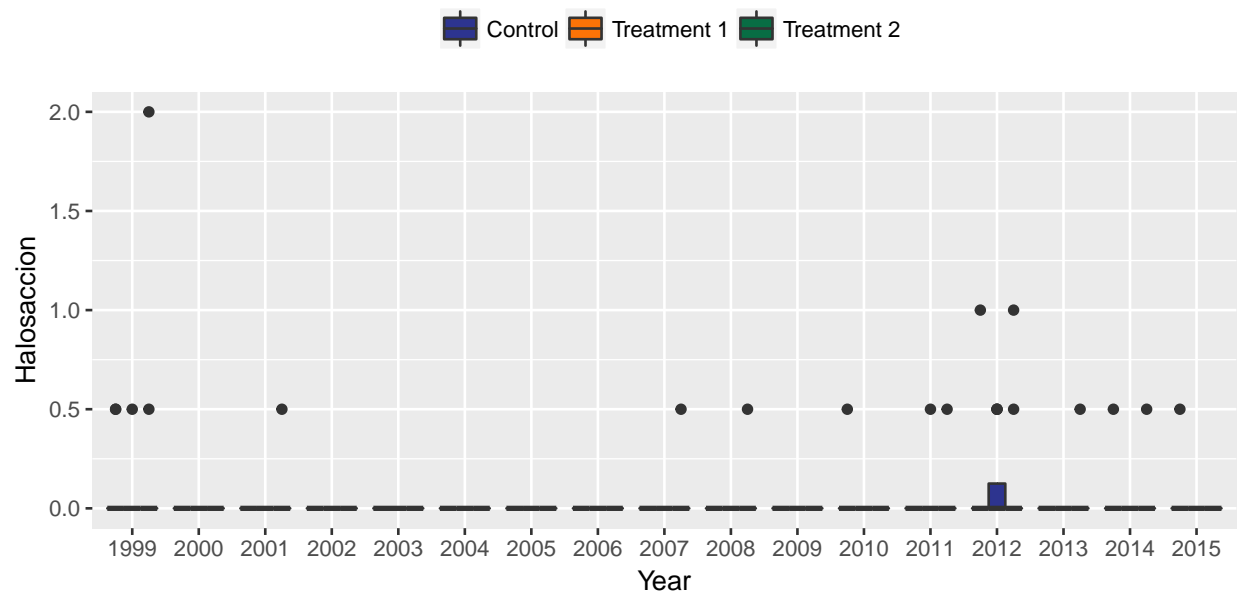
##  
## [[12]]



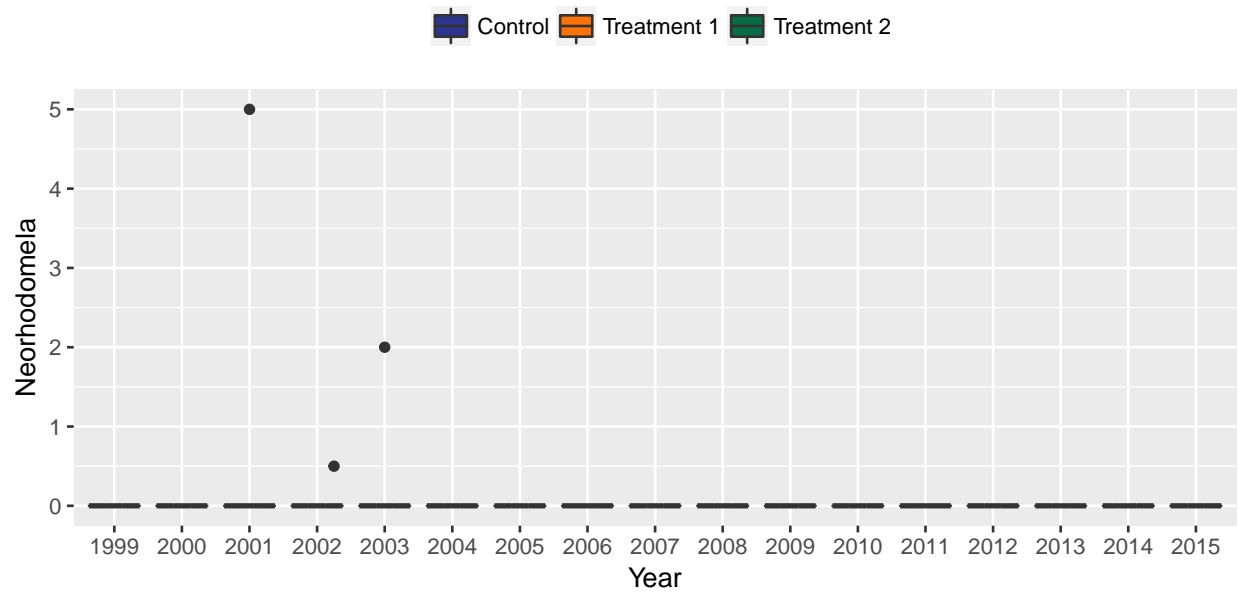
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## [[13]]



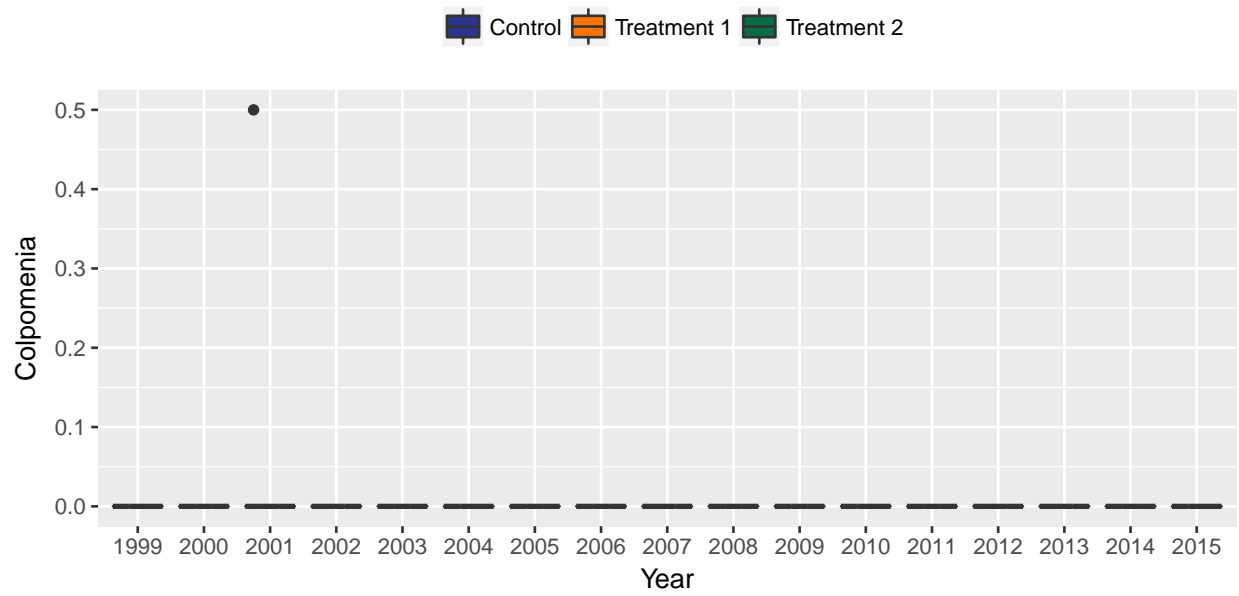
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## [[14]]



##  
## [[15]]

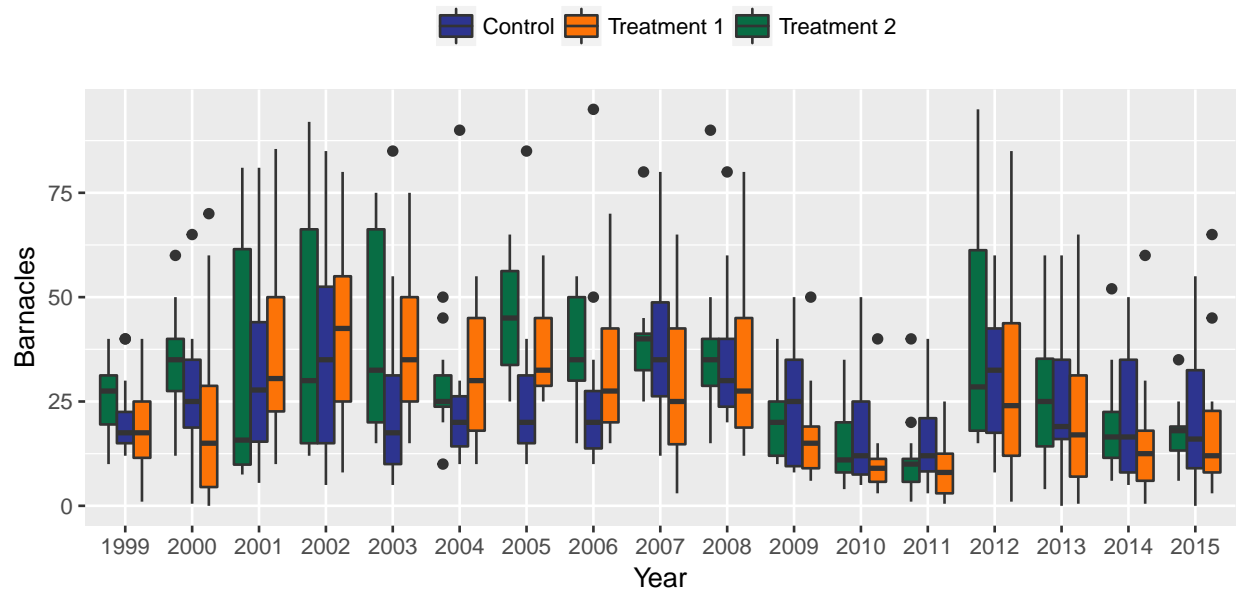


```
##
## [[16]]
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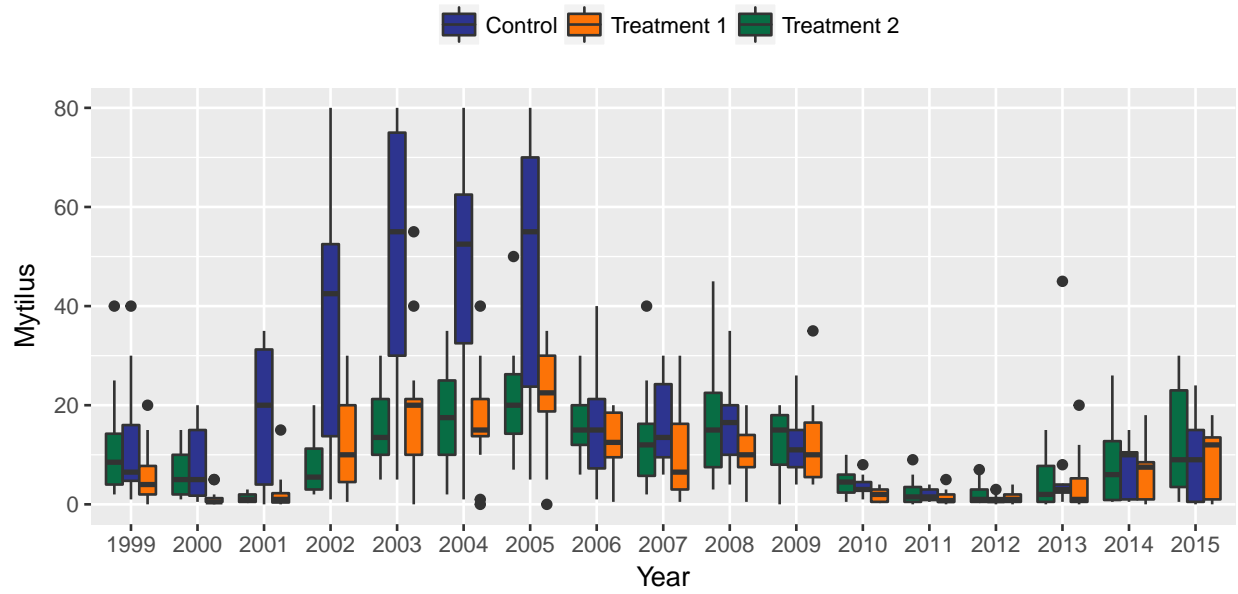


```
##
## [[17]]
```

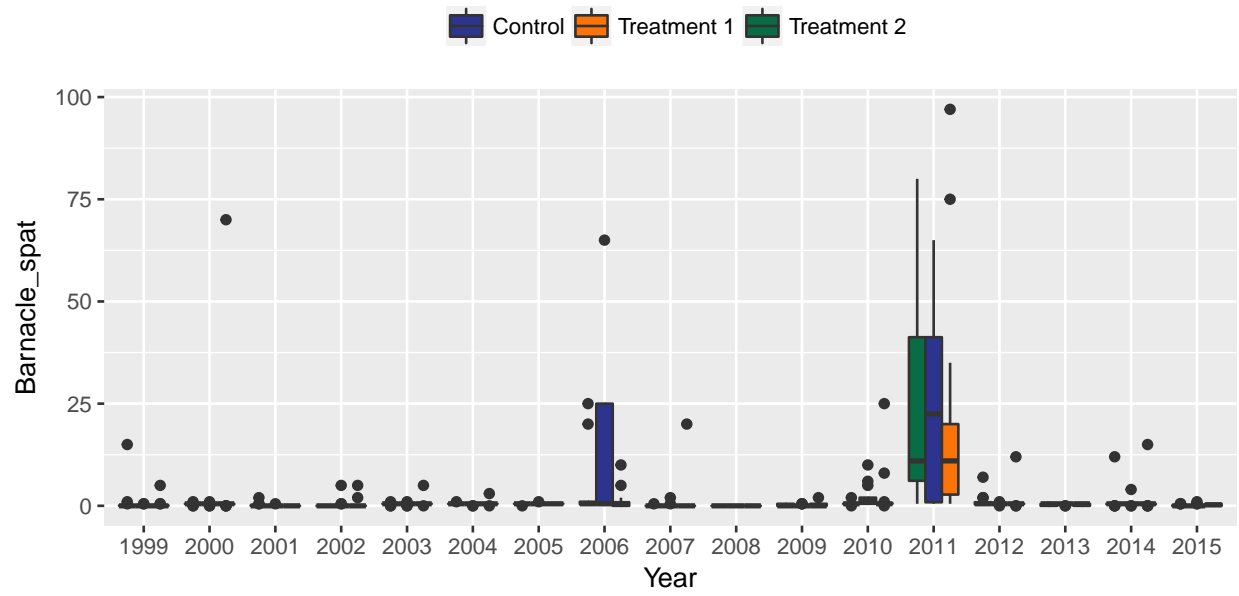




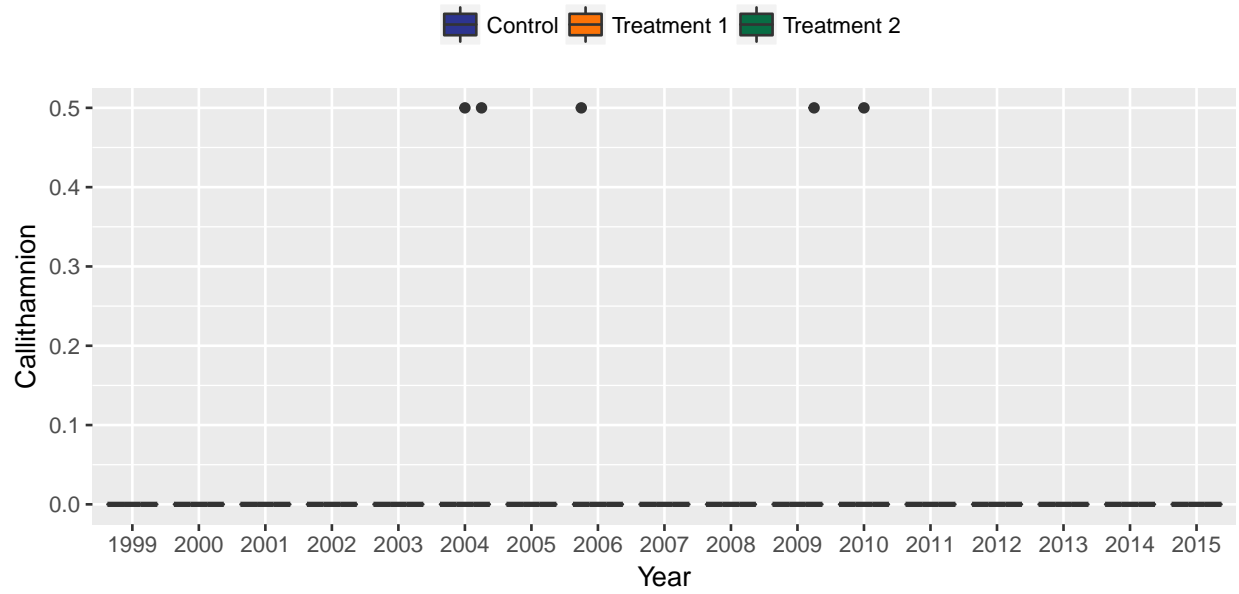
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##
## [[18]]
```



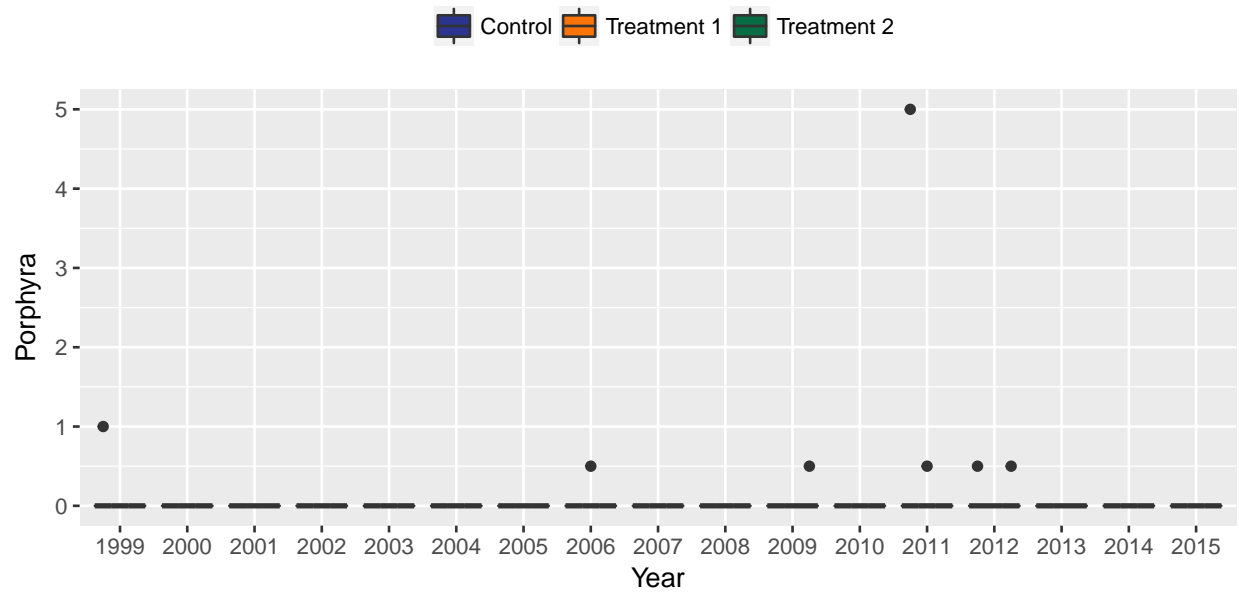
```
##
## [[19]]
```



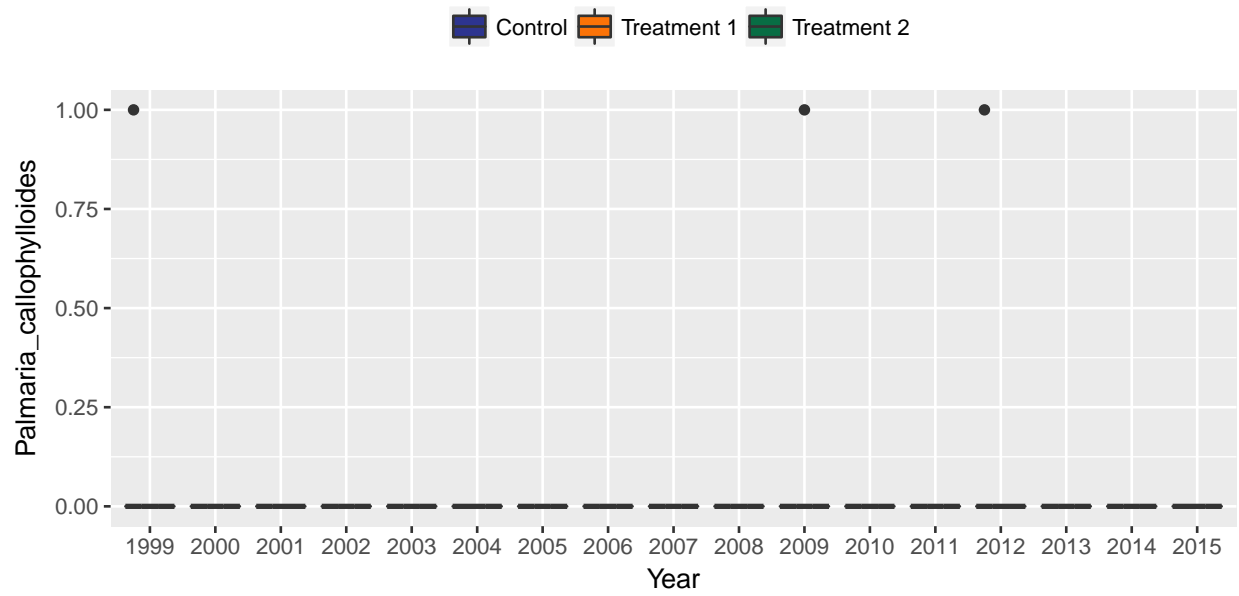
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##
## [[20]]
```



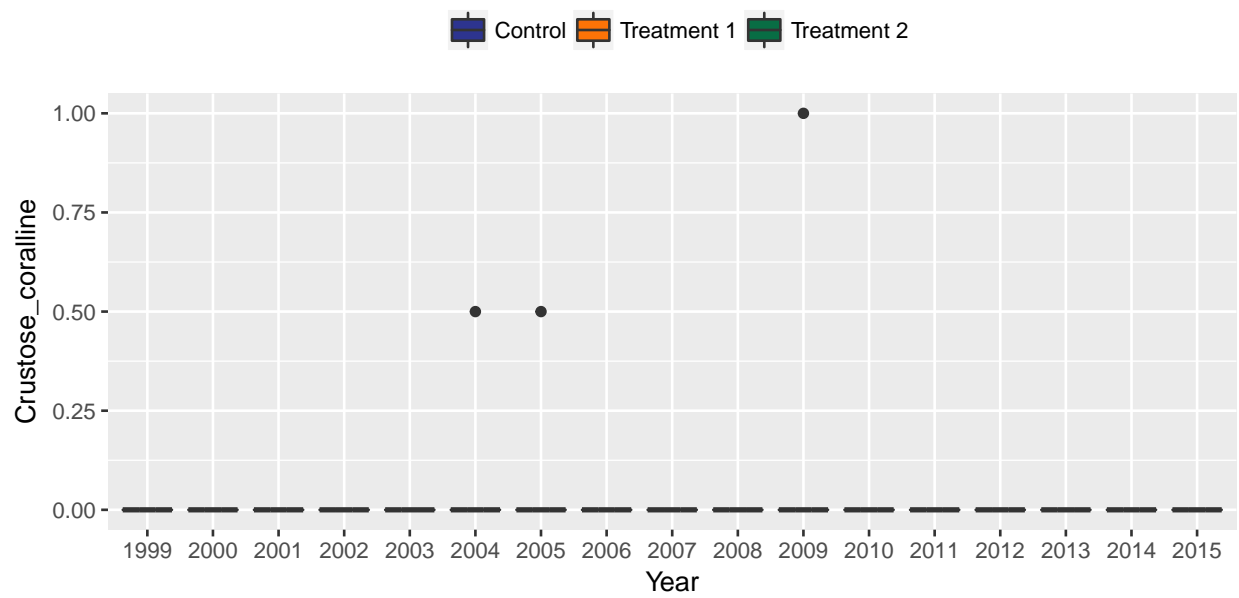
```
##
## [[21]]
```



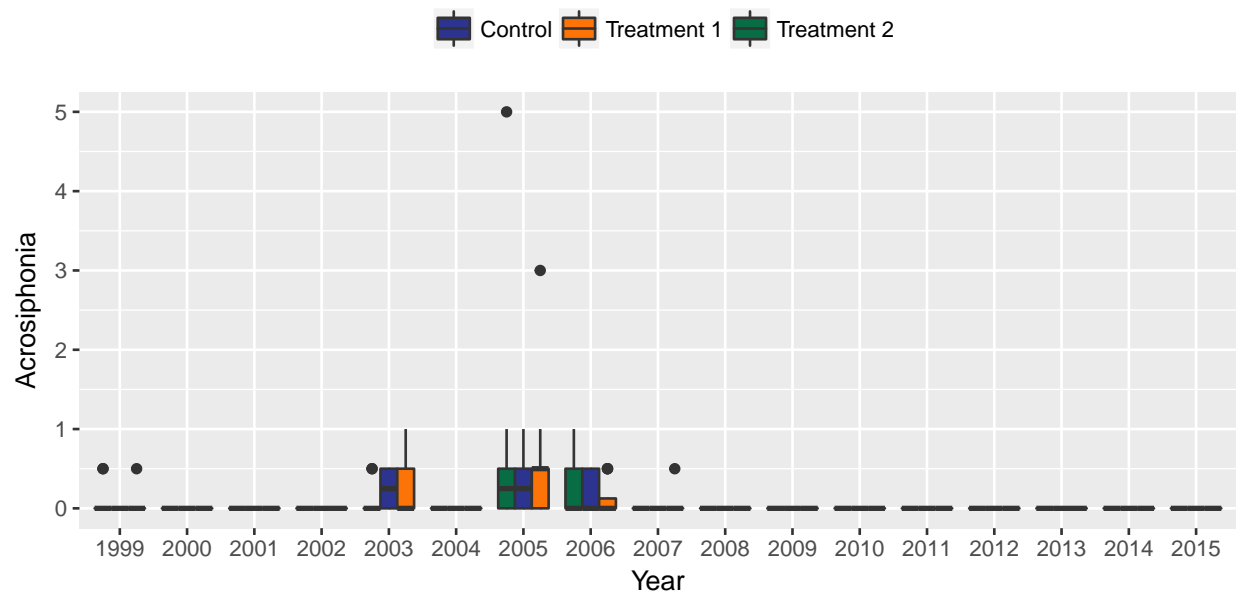
##  
## [[22]]



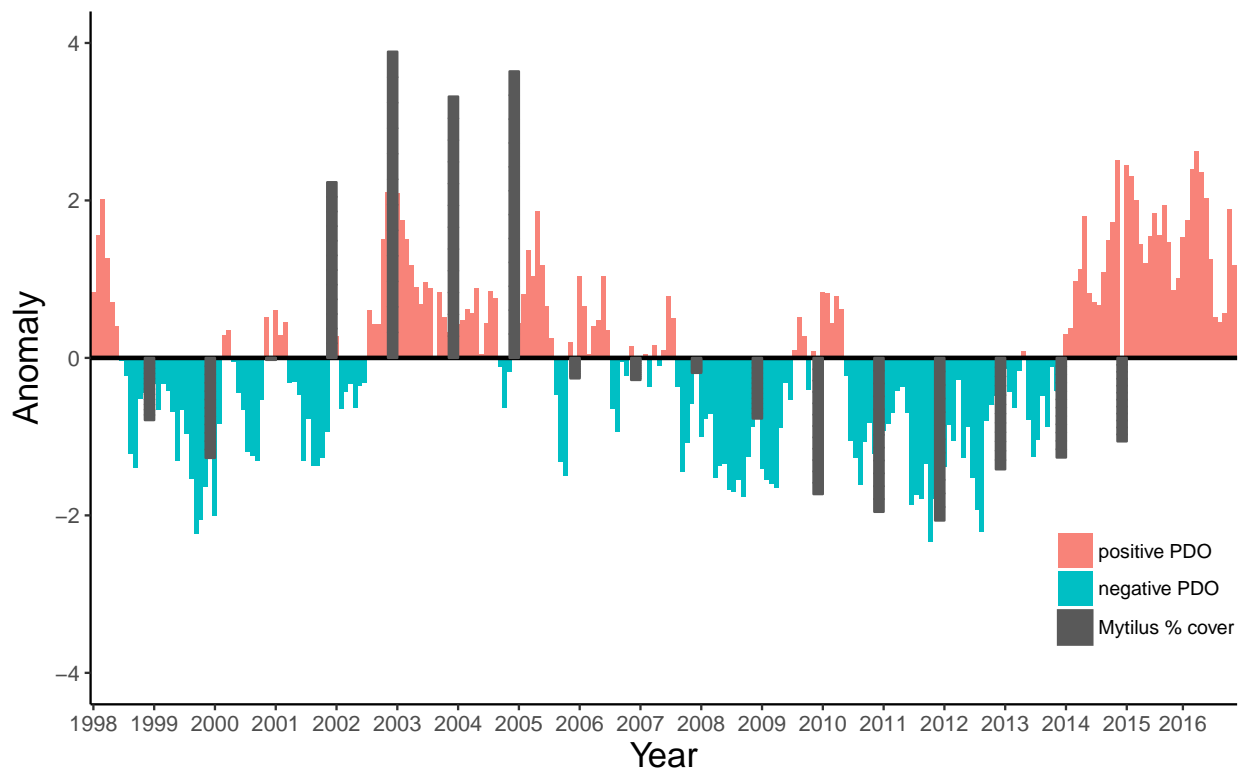
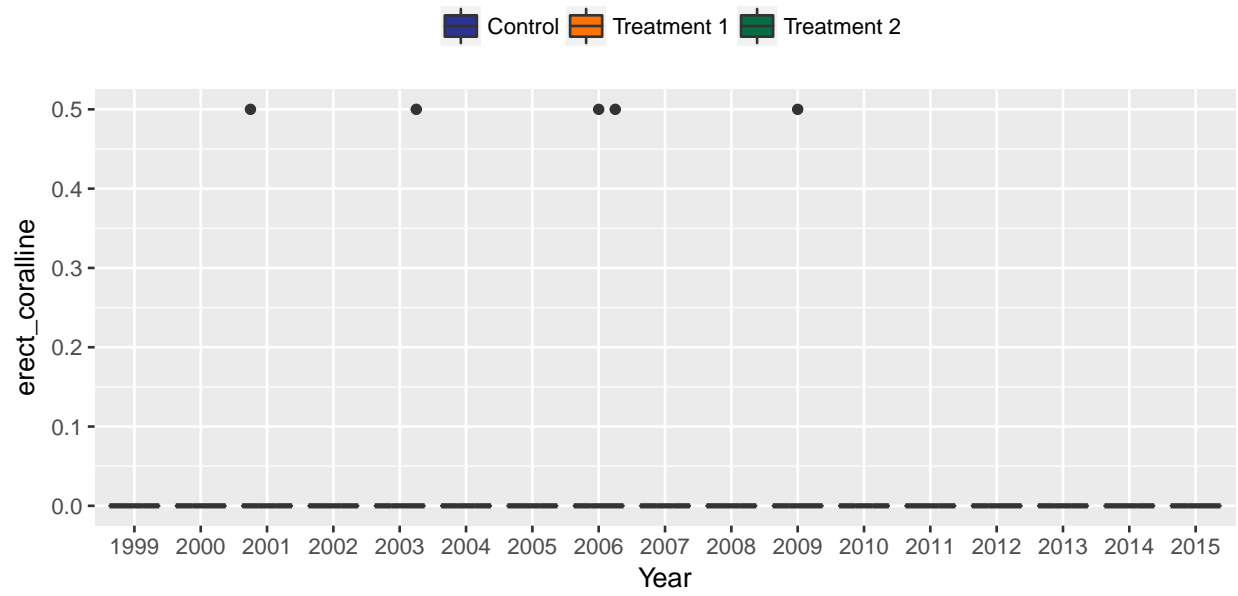
##  
## [[23]]



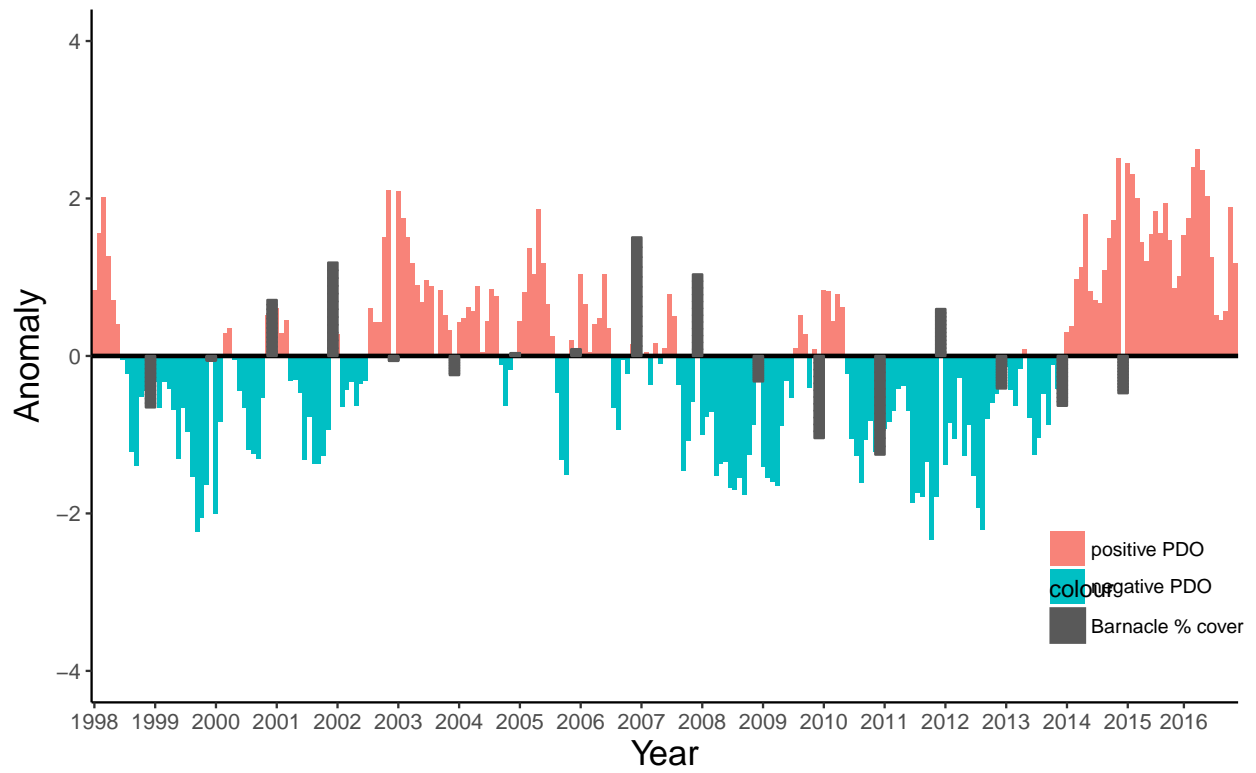
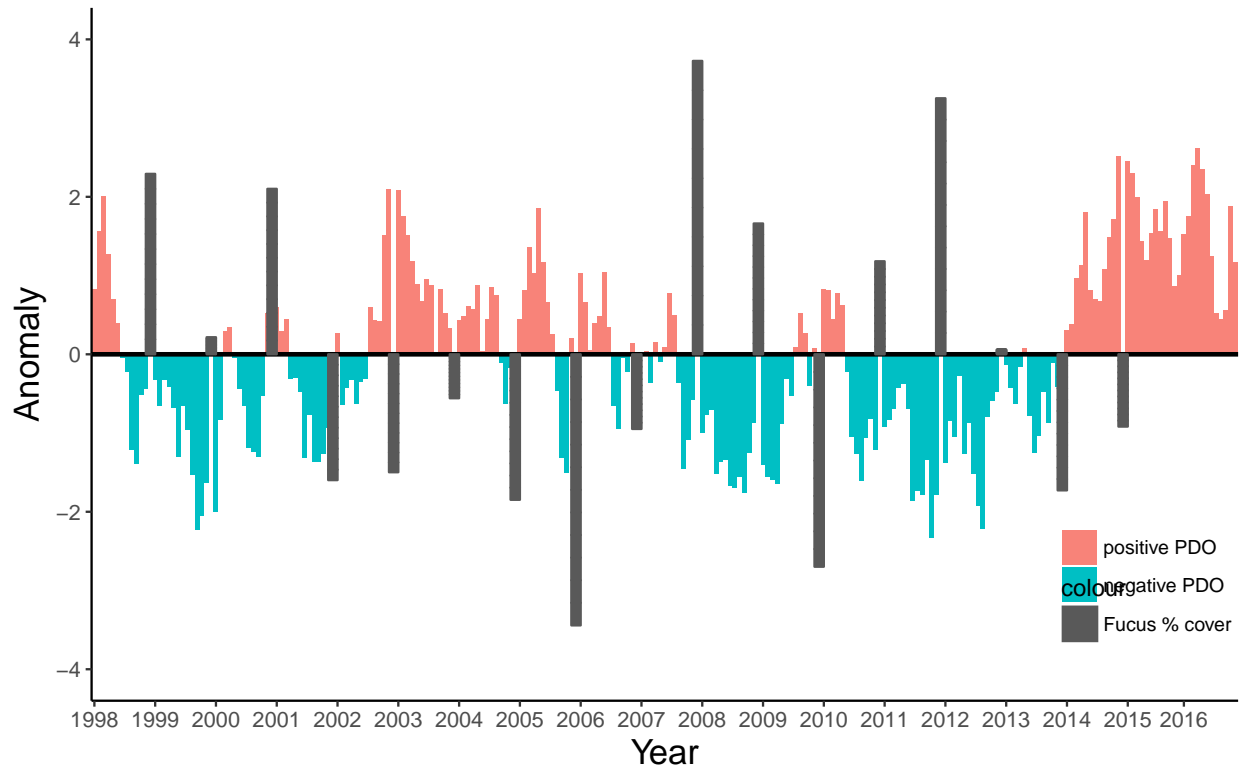
##  
## [[24]]

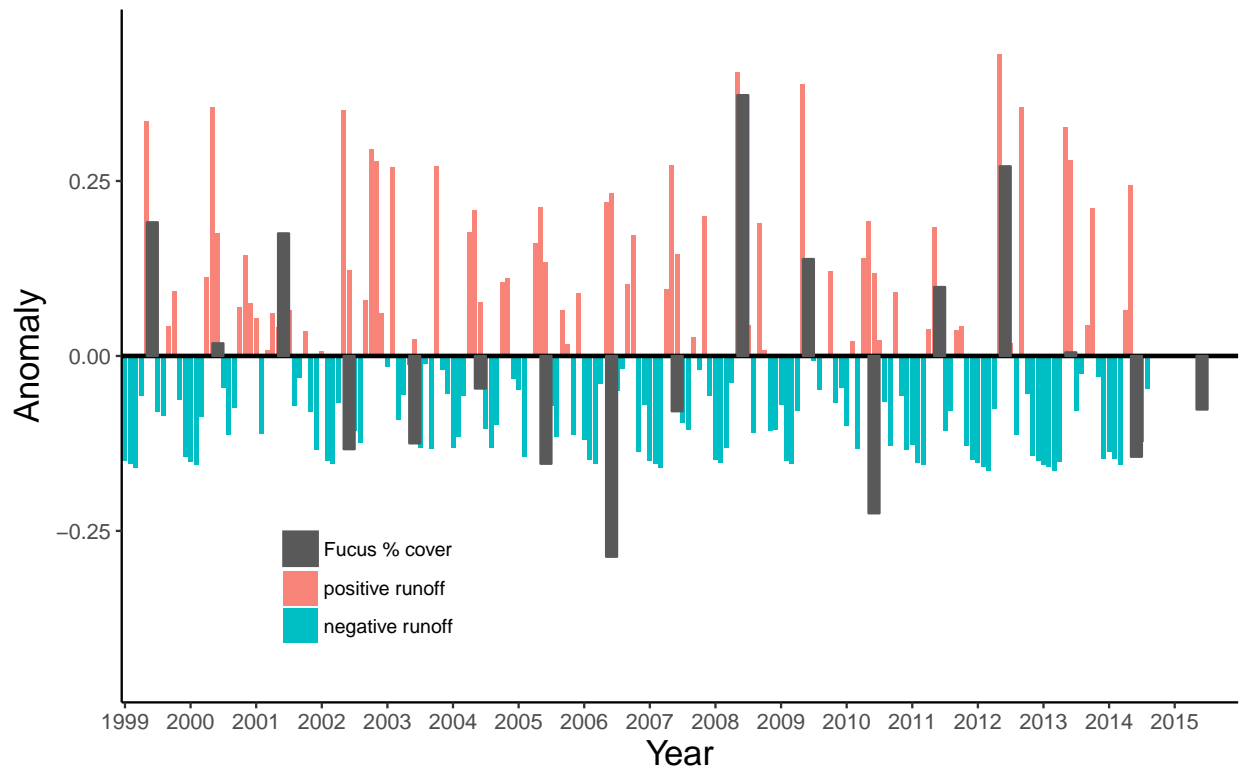
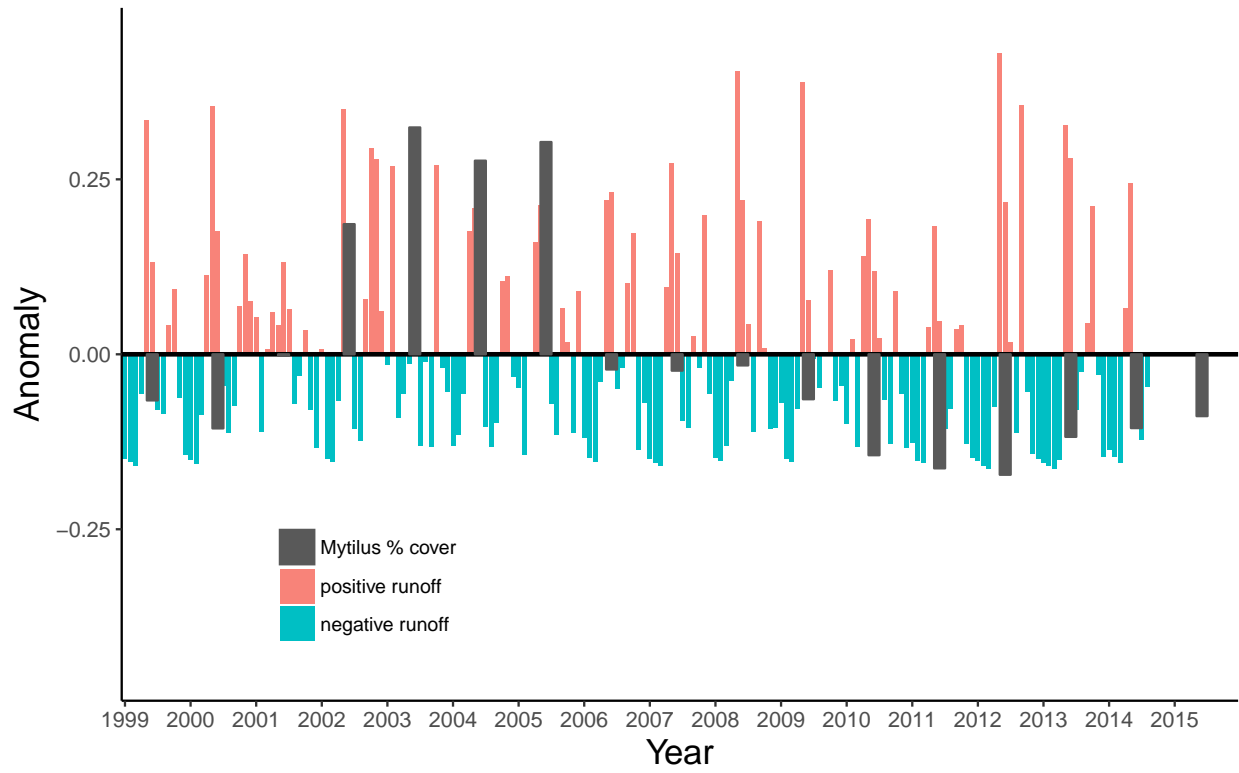


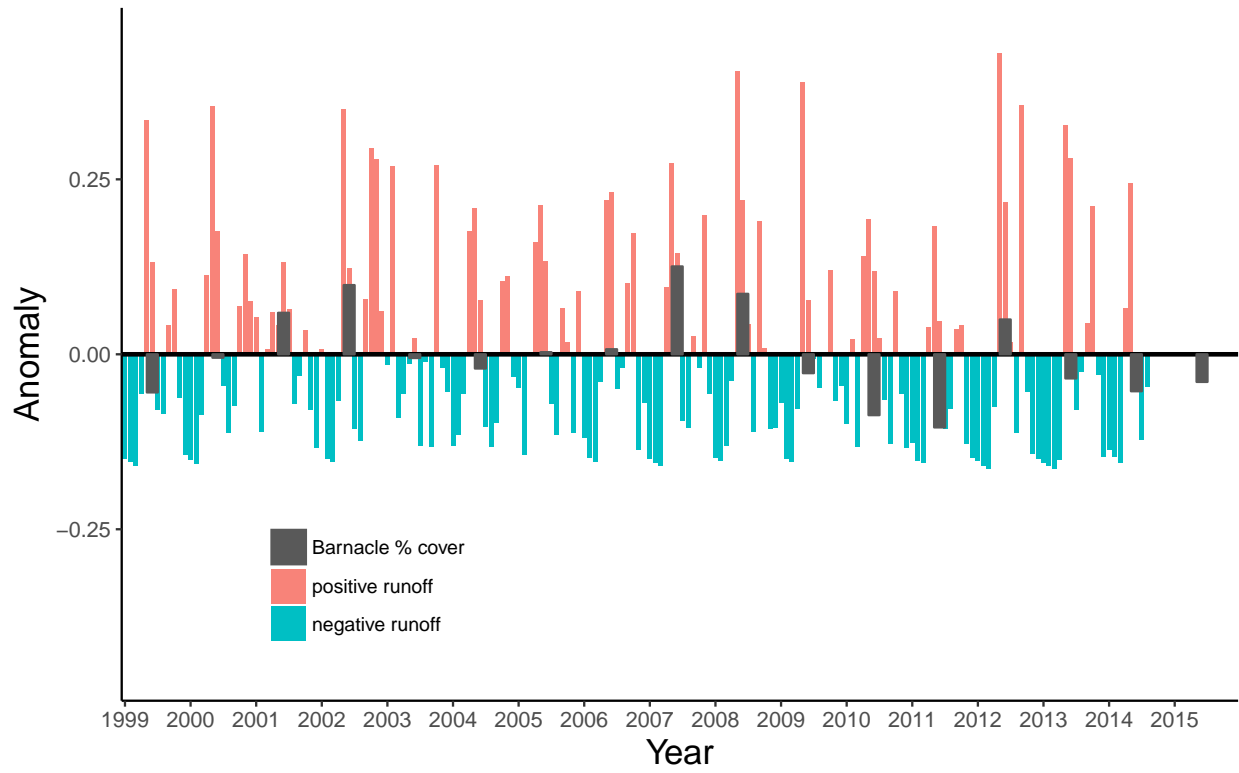
##  
## [[25]]



## Warning: Removed 2 rows containing missing values (geom\_col).

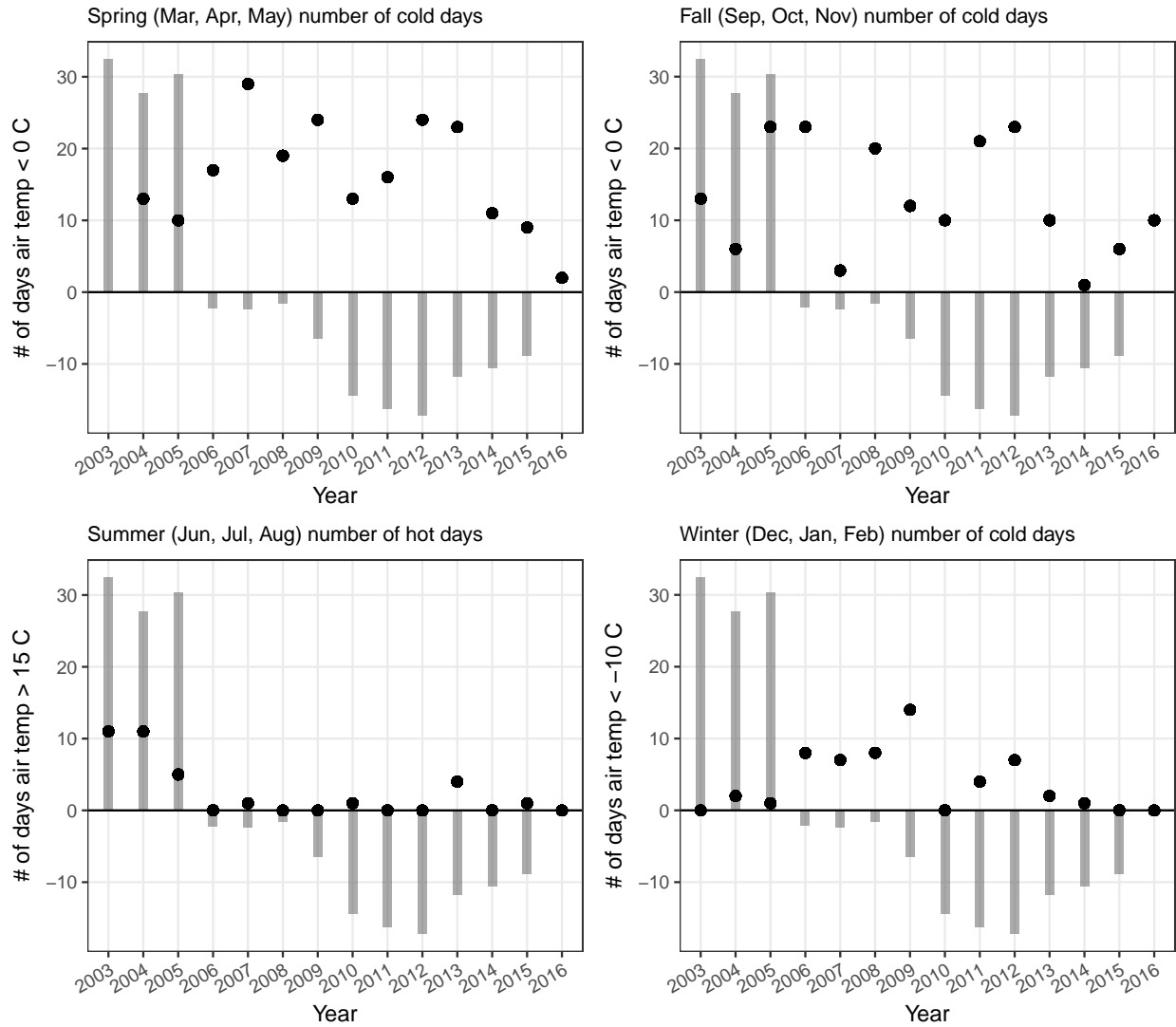




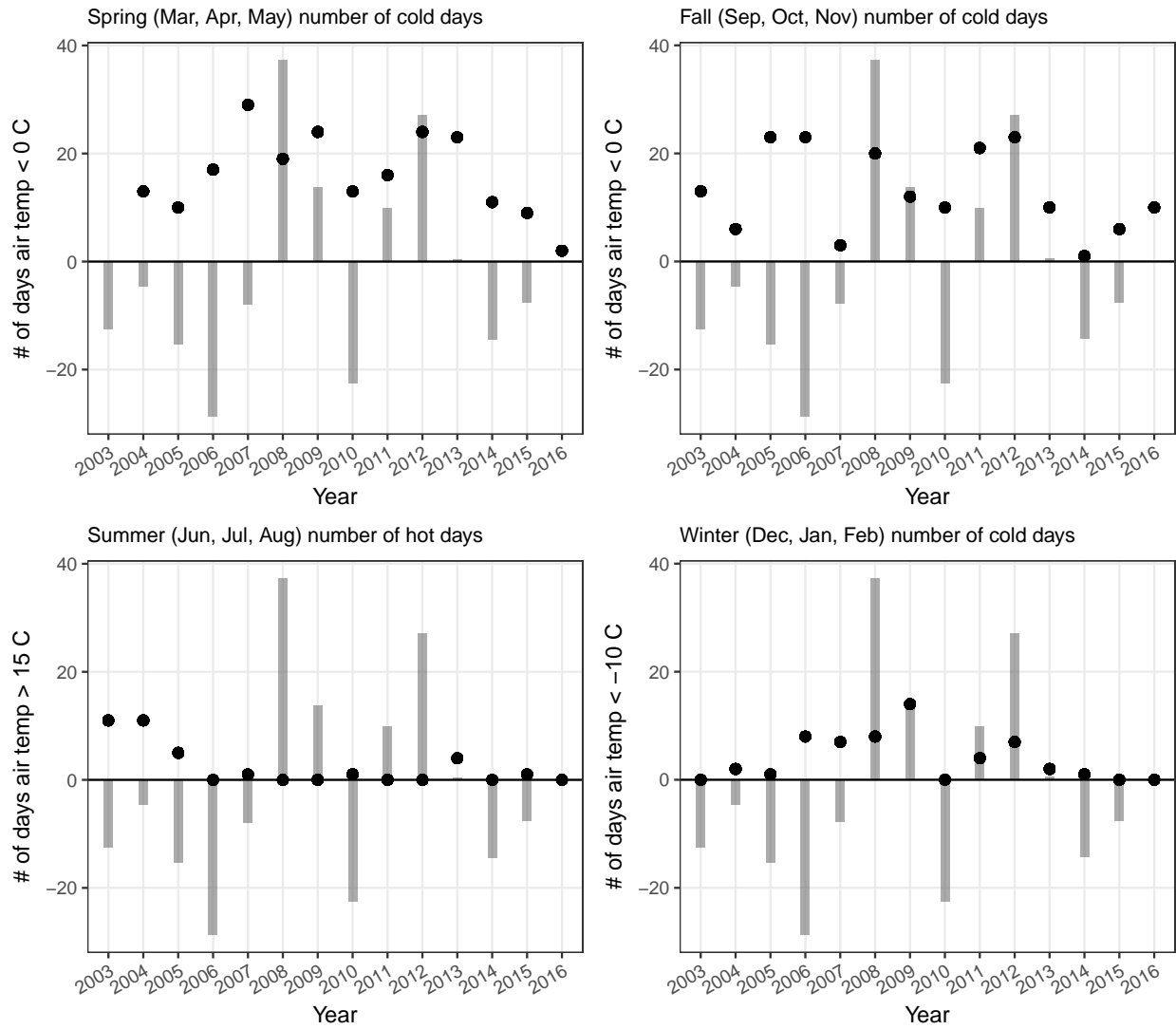




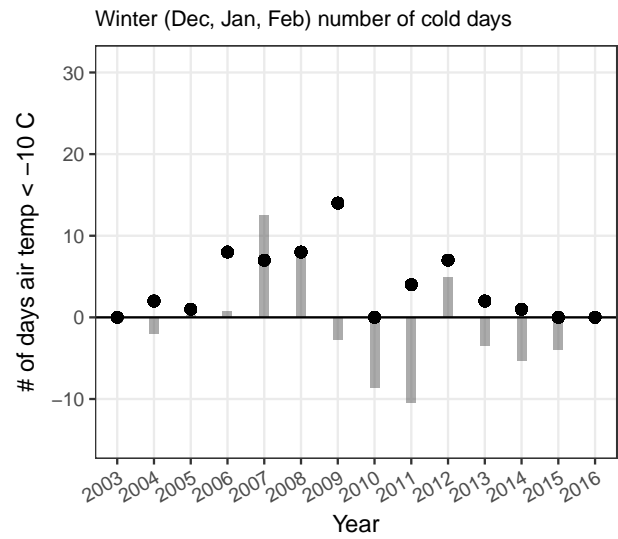
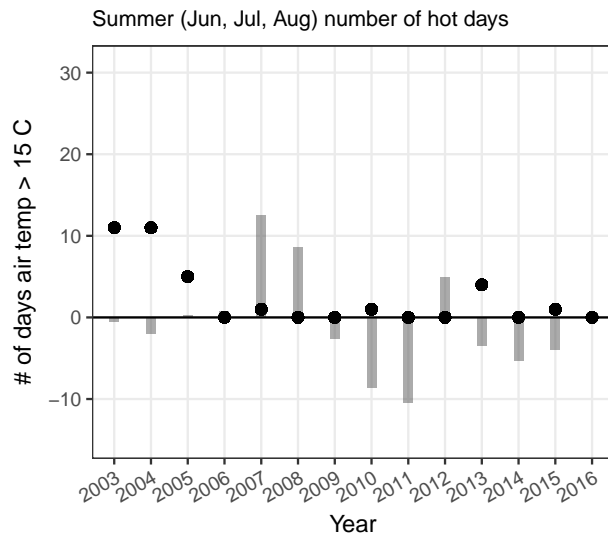
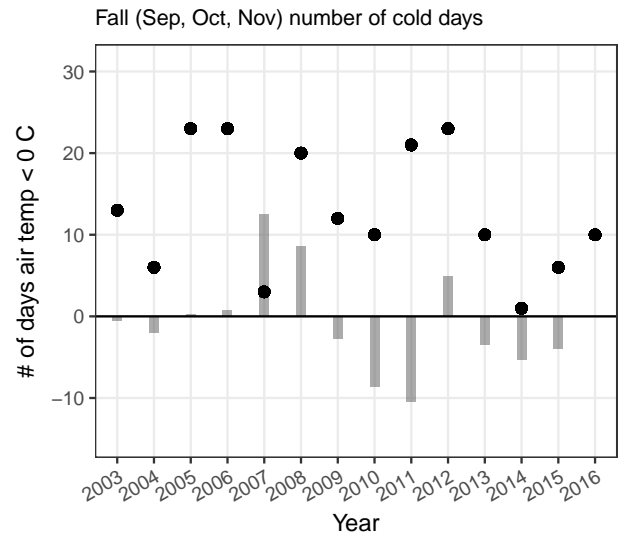
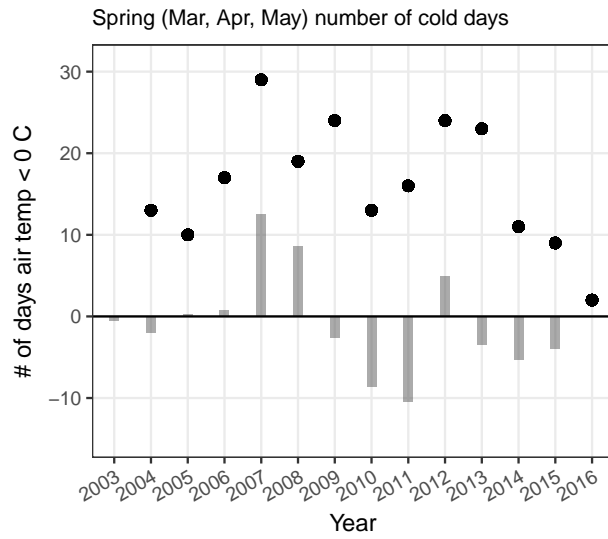
## Mytilus

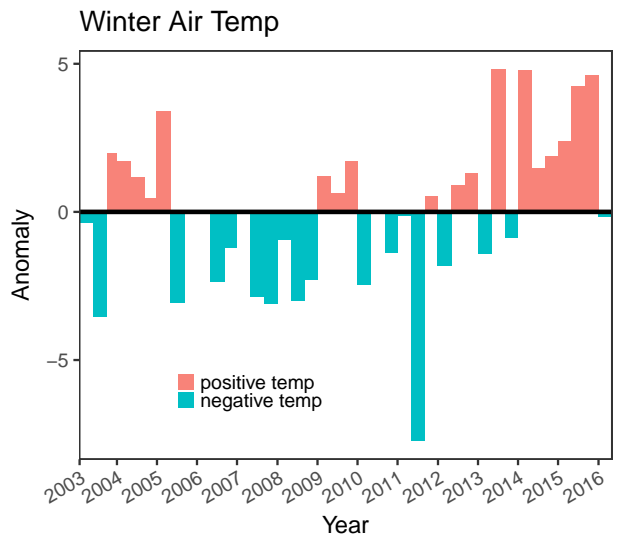
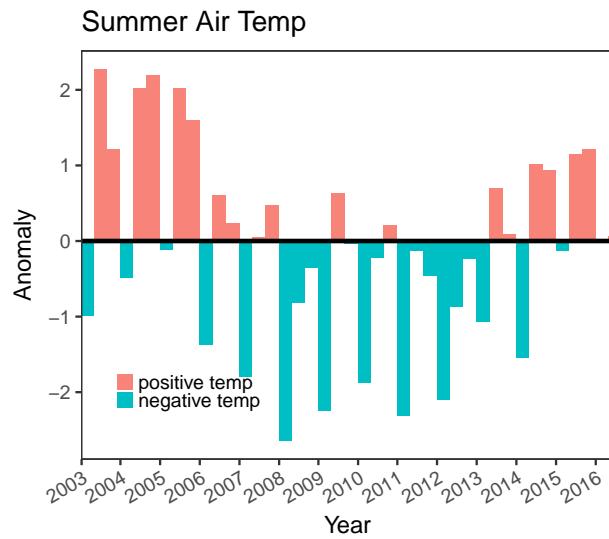
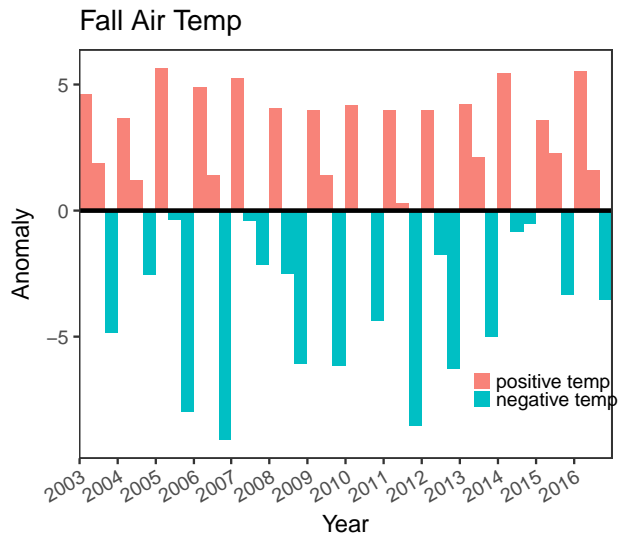
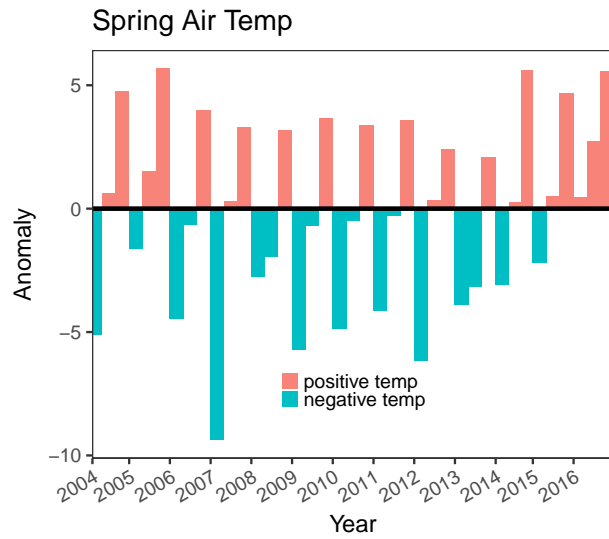


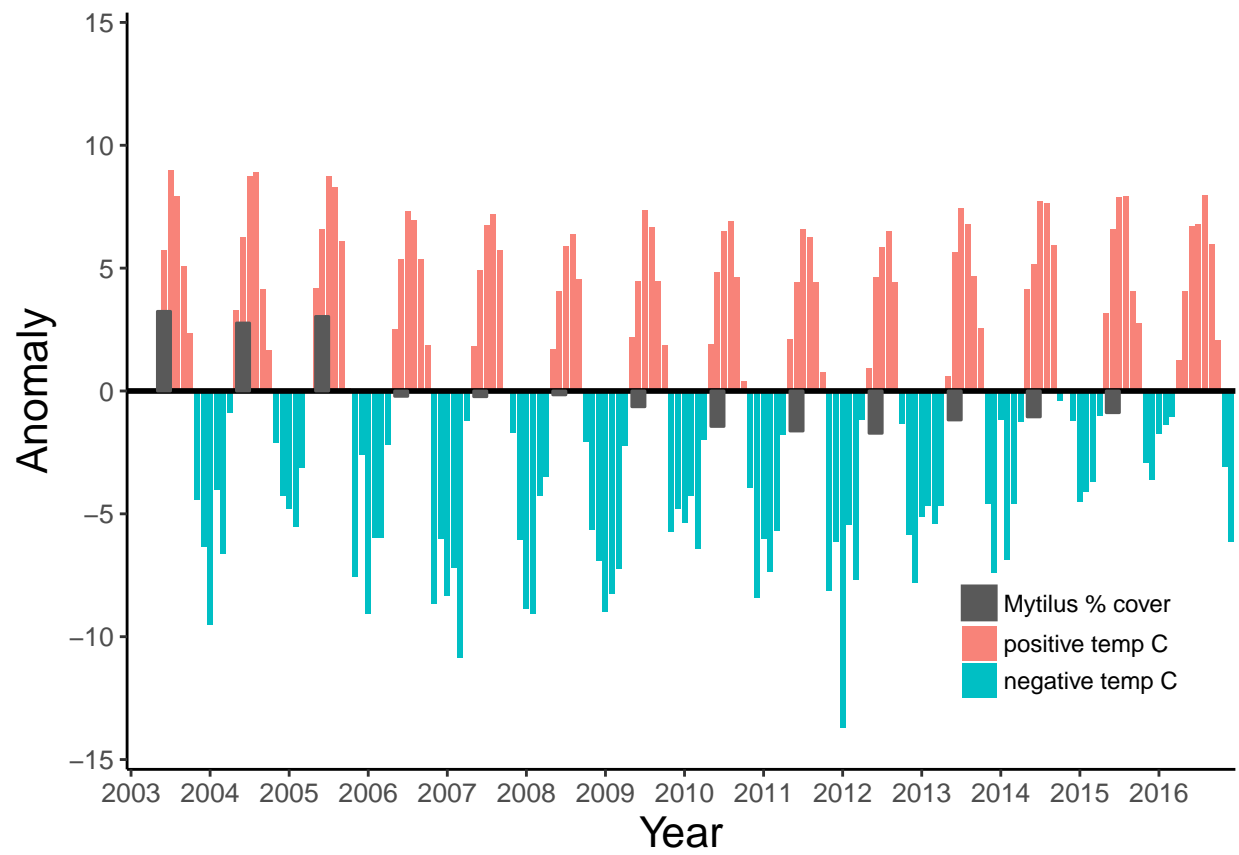
## Fucus

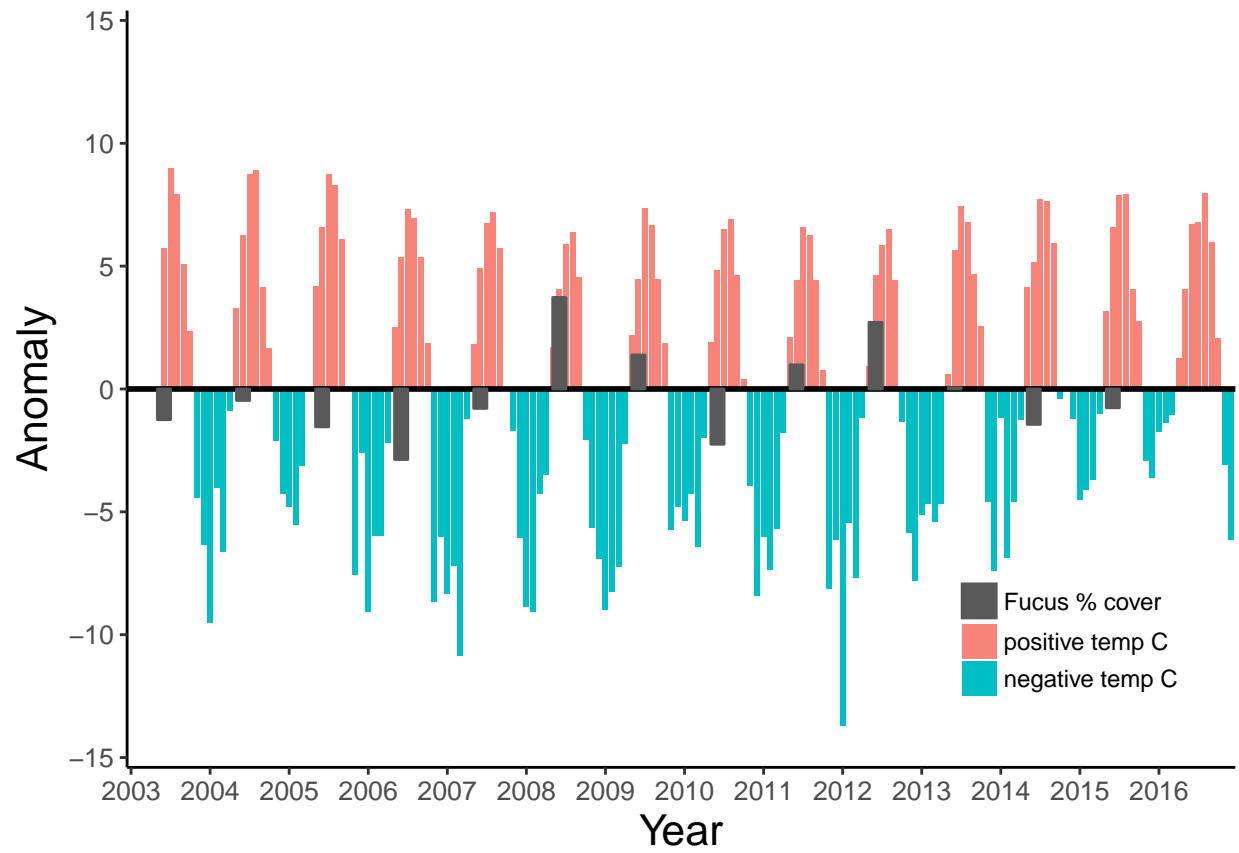


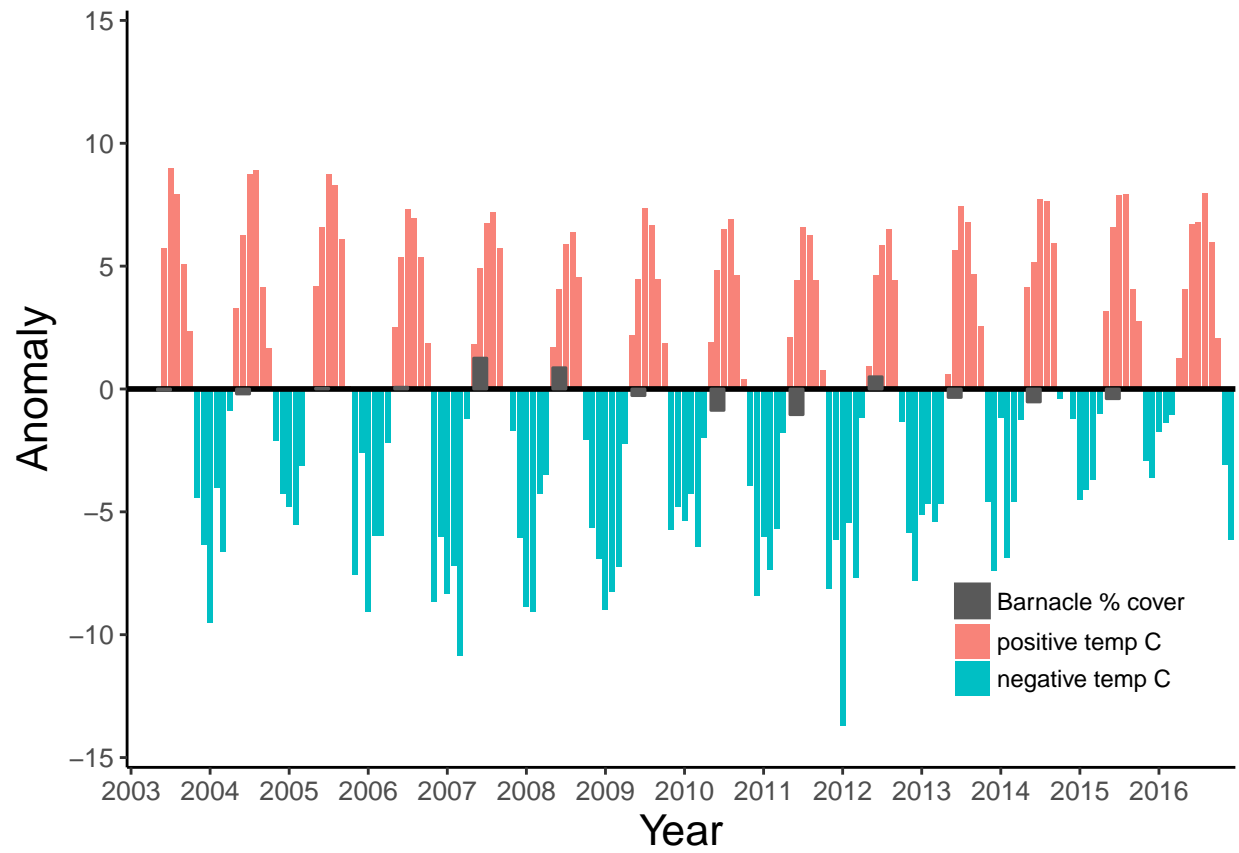
## Barnacles





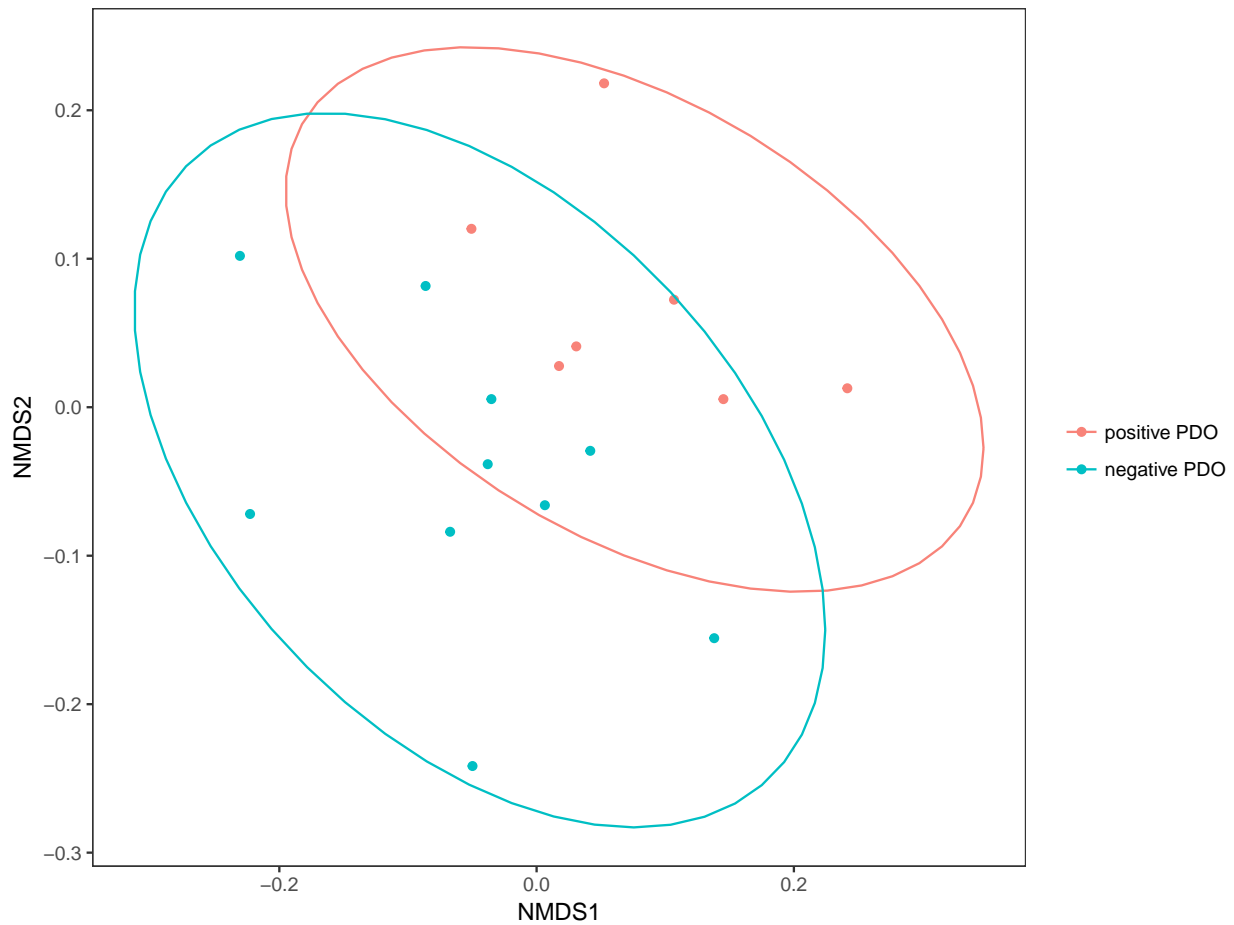






# NMDS Plots

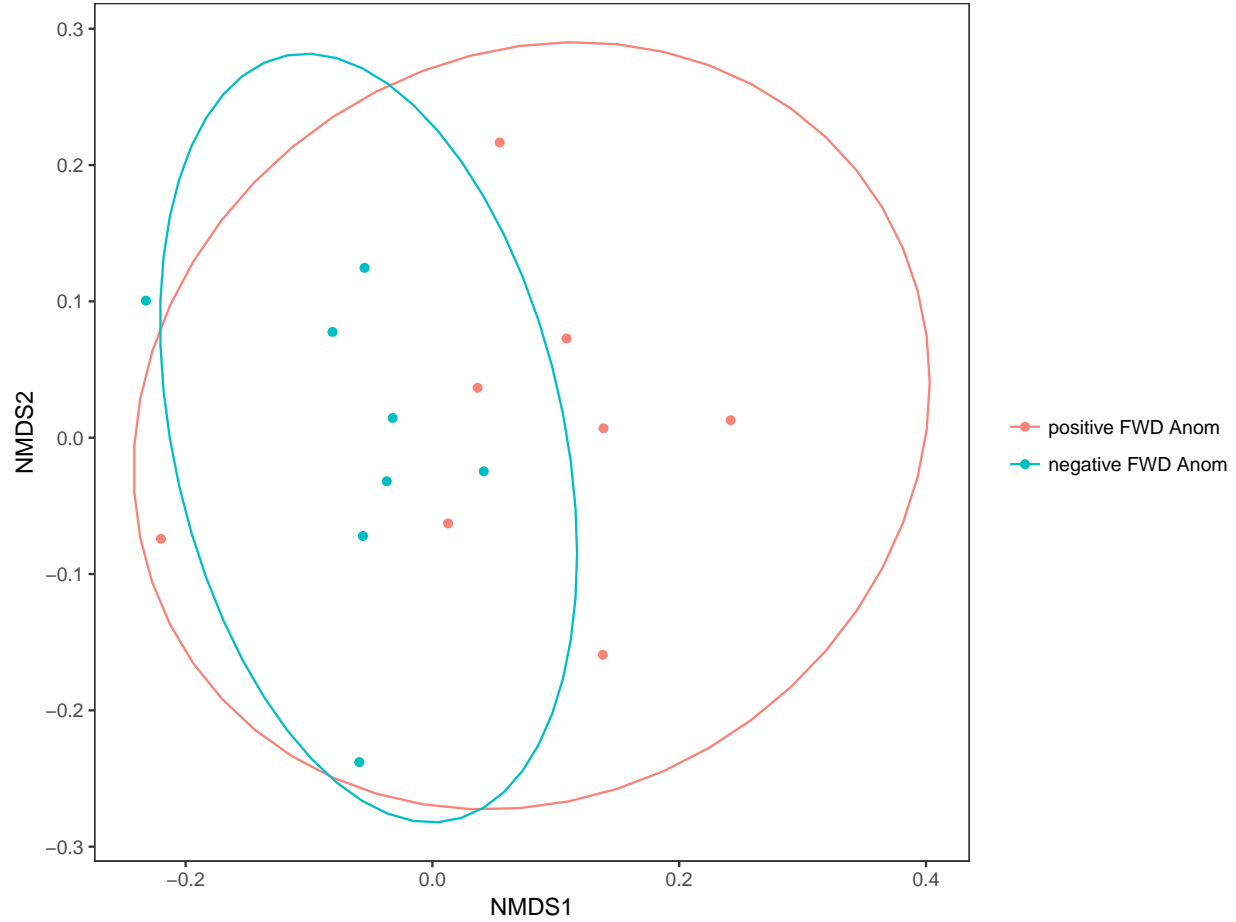
PDO



```
##
## Call:
## vegan::adonis(formula = sp_percov ~ PDO_anul_mn, data = pdo_treats,      permutations = 1000, method
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##           Df SumsOfSqs  MeanSqs F.Model    R2  Pr(>F)
## PDO_anul_mn  1   0.18366 0.183660   5.655 0.27378 0.000999 ***
## Residuals   15   0.48716 0.032477         0.72622
## Total       16   0.67082          1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

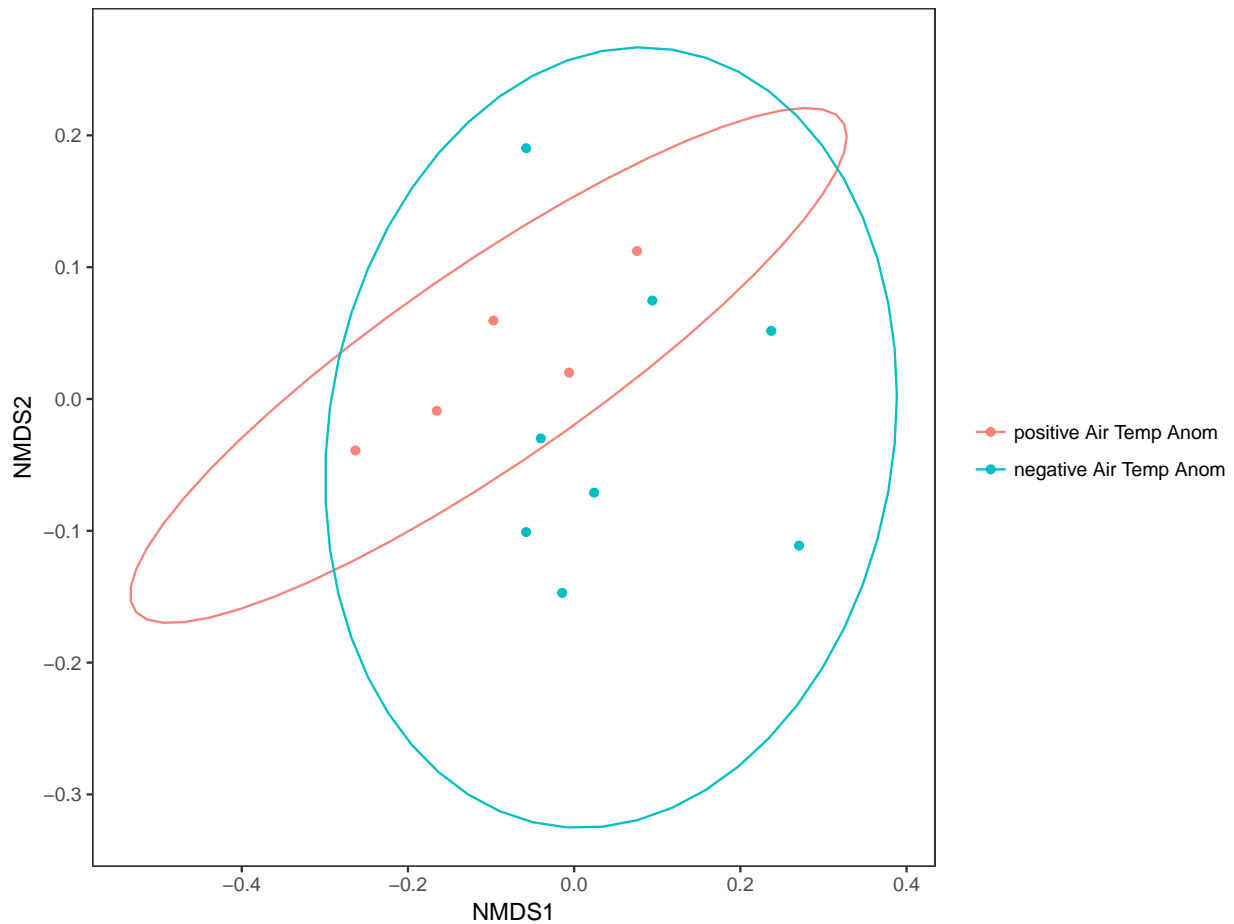


## Freshwater



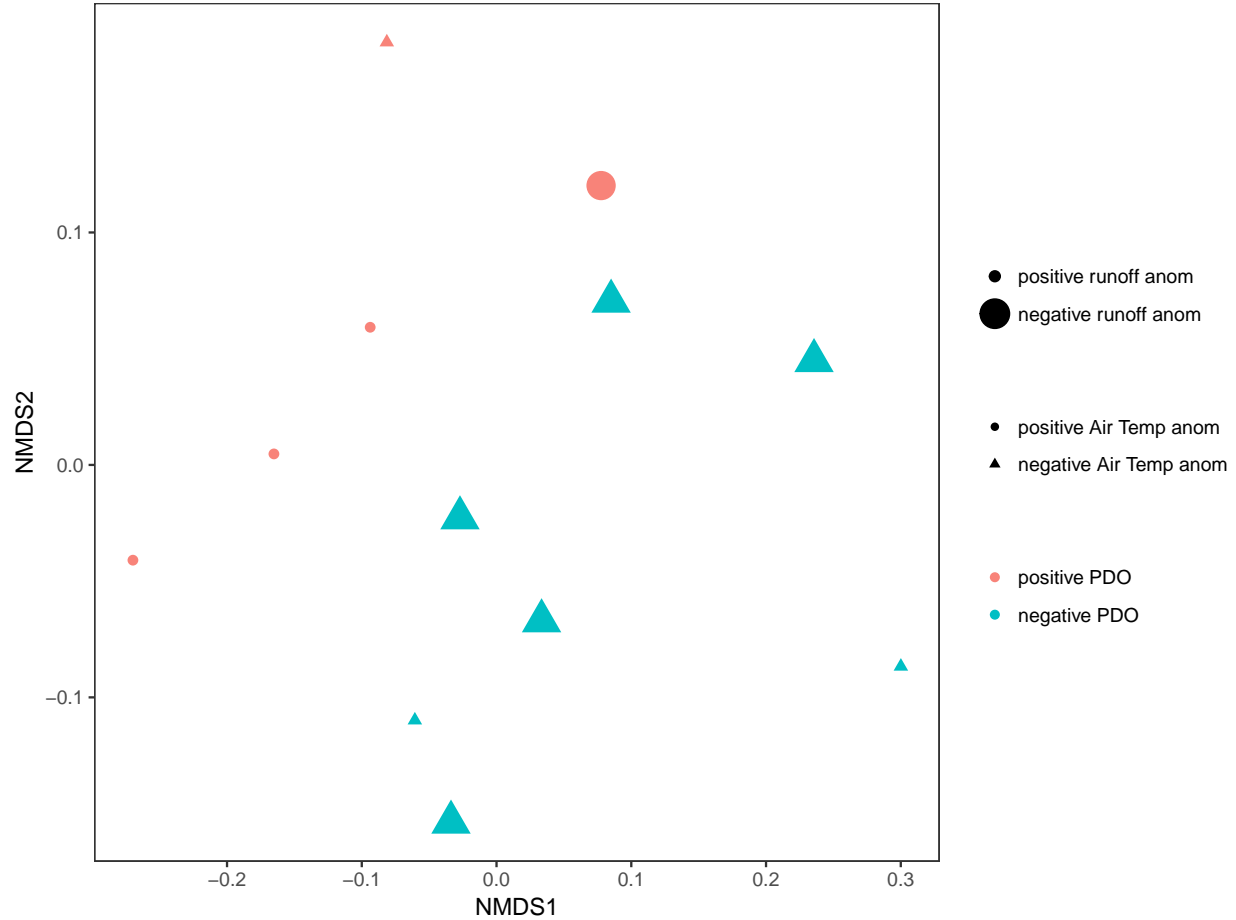
```
##
## Call:
## vegan::adonis(formula = sp_percov2 ~ mean_yearly_discharge_m3s1,      data = fresh_treats, permutati
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##              Df SumsOfSqs  MeanSqs F.Model    R2  Pr(>F)
## mean_yearly_discharge_m3s1  1   0.10794 0.107936  2.7347 0.16342 0.04396 *
## Residuals                14   0.55256 0.039469           0.83658
## Total                    15   0.66050           1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

## Air Temp



```
##
## Call:
## vegan::adonis(formula = sp_percov3 ~ ATemp_YearMn, data = atemp_treats,      permutations = 1000, me
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##              Df SumsOfSqs  MeanSqs F.Model    R2  Pr(>F)
## ATemp_YearMn  1   0.15666 0.156662   4.185 0.2756 0.002997 **
## Residuals    11   0.41177 0.037434         0.7244
## Total        12   0.56843          1.0000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

## All env. variables



```
##
## Call:
## vegan::adonis(formula = sp_percov4 ~ ATemp_YearMn + mn_yr_discharge +      PDO_anul_mn, data = all_t)
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##              Df SumsOfSqs  MeanSqs F.Model    R2  Pr(>F)
## ATemp_YearMn   1  0.16580 0.165802  5.8830 0.29597 0.002997 **
## mn_yr_discharge 1  0.09800 0.098004  3.4774 0.17494 0.012987 *
## PDO_anul_mn    1  0.07093 0.070930  2.5168 0.12662 0.057942 .
## Residuals      8  0.22546 0.028183      0.40247
## Total         11  0.56020              1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```