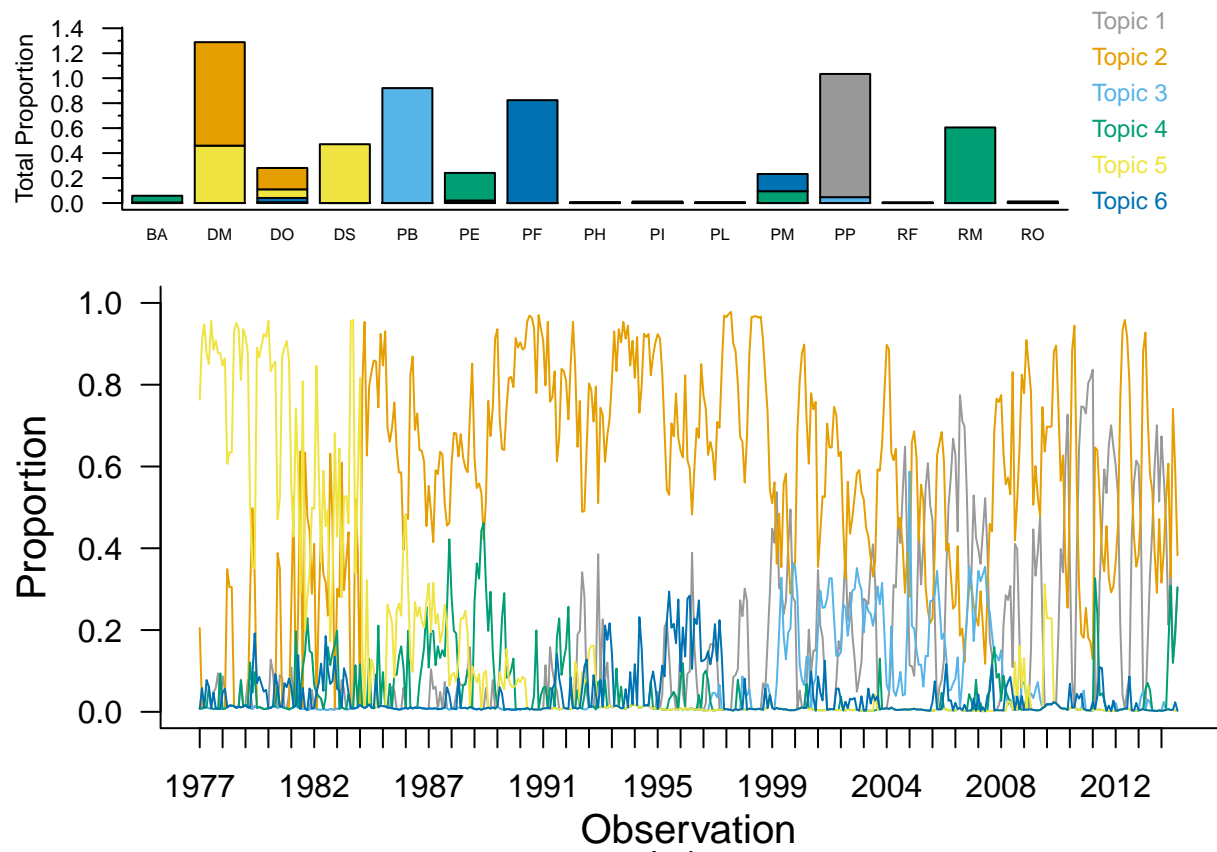
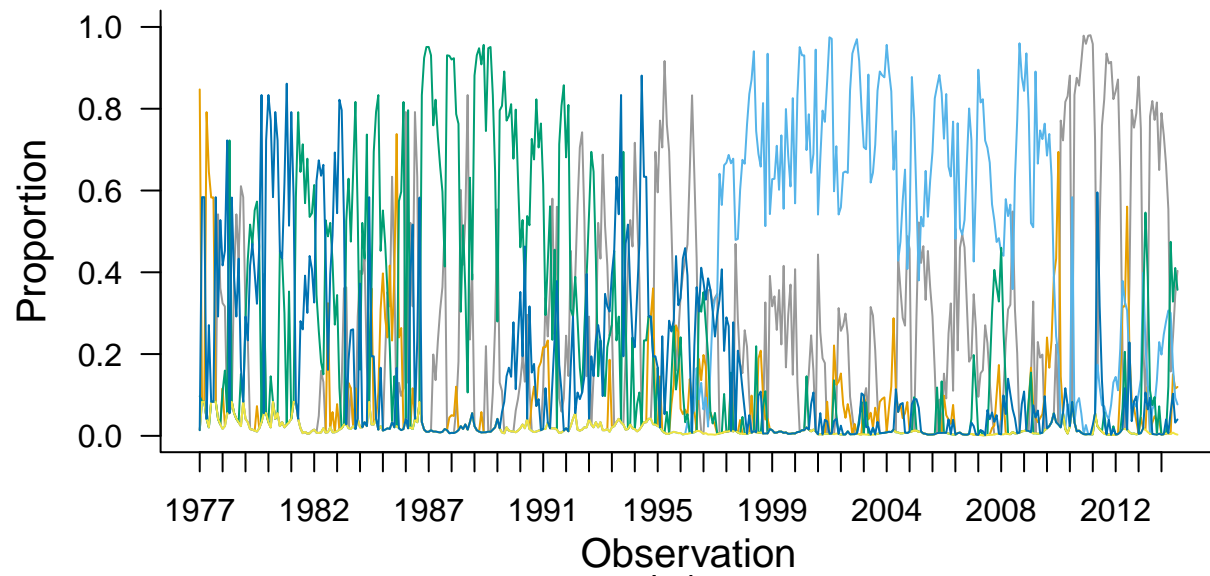
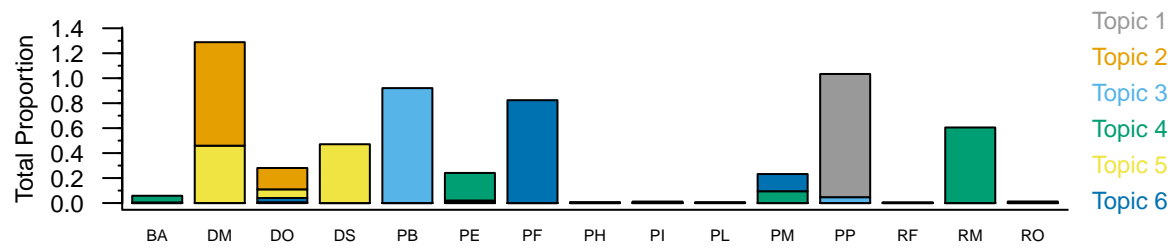


## LDA

*Control samples:*



*Exclosure samples:*

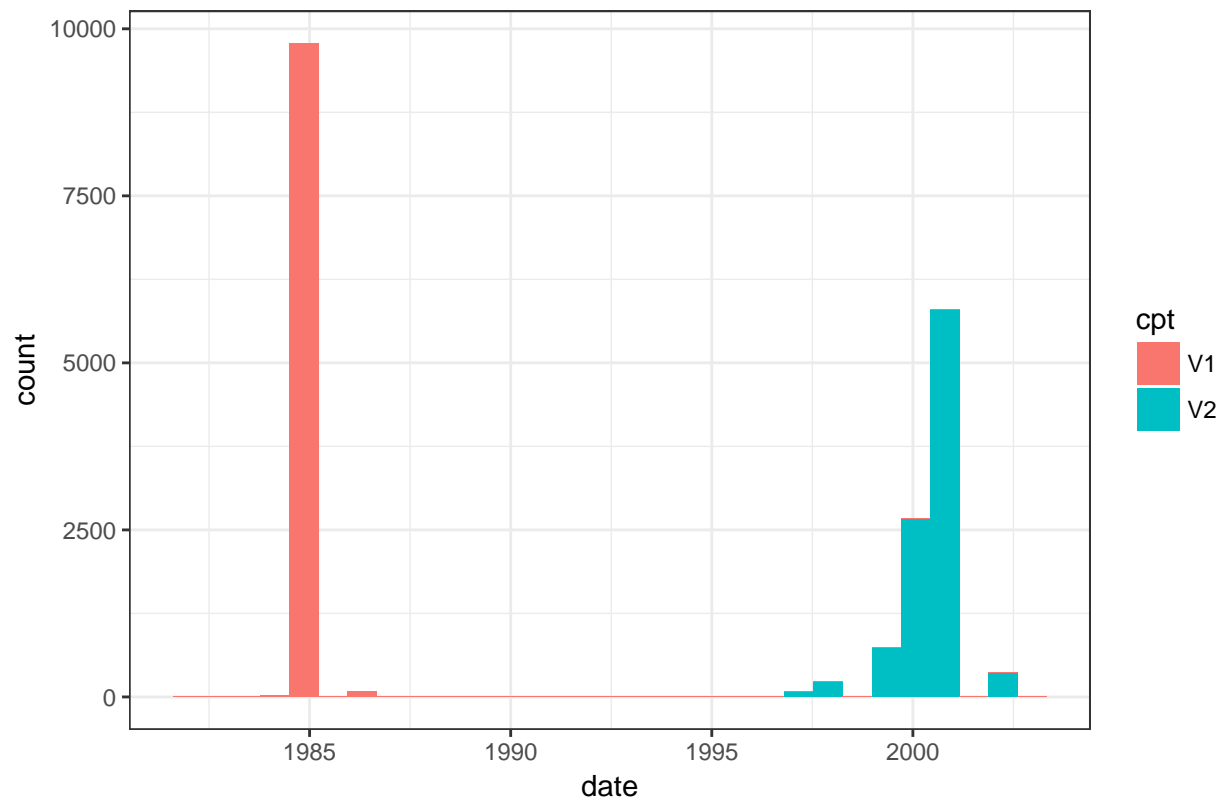


## Changepoint models

### Changepoint for *controls*:

```
##      Mean_date Median_date Lower_date Upper_date   SD MCMCerr   AC10
## 1 1984-04-29  1984-04-29 1983-12-08 1984-07-03 1.97  0.0198 0.0483
## 2 1998-12-22  1999-02-20 1997-07-09 1999-12-05 9.61  0.0966 0.2023
##      ESS
## 1 2051.7603
## 2  888.2261
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

### Changepoint estimates – control



### Deviances for different numbers of changepoints - control

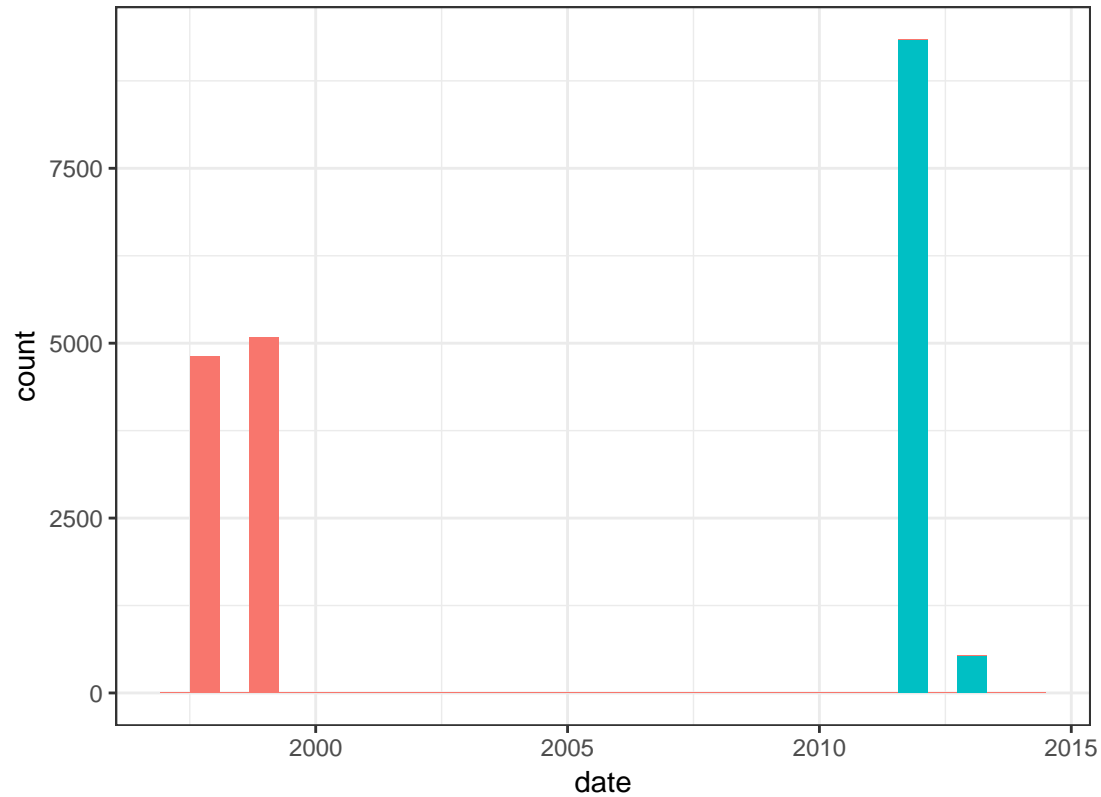
```
## $`2`
## [1] 962.1648
##
## $`3`
## [1] 973.354
##
## $`4`
## [1] 988.0757
##
## $`5`
## [1] 1011.797
##
## $`6`
```

```
## [1] 1037.84
```

Changepoint for *exclosures*:

```
##      Mean_date Median_date Lower_date Upper_date   SD MCMCerr   AC10
## 1 1997-06-09 1997-06-09 1997-01-07 1997-09-27 2.34 0.0235 0.1150
## 2 2010-01-16 2009-12-12 2009-08-22 2010-06-04 2.76 0.0277 0.1339
##      ESS
## 1 1344.574
## 2 1313.975
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

### Changepoint estimates – exclosure



### Deviances for different numbers of changepoints - exclosure

```
## $`2`
## [1] 1107.254
##
## $`3`
## [1] 1118.8
##
## $`4`
## [1] 1120.007
##
## $`5`
## [1] 1140.427
##
## $`6`
## [1] 1166.782
```