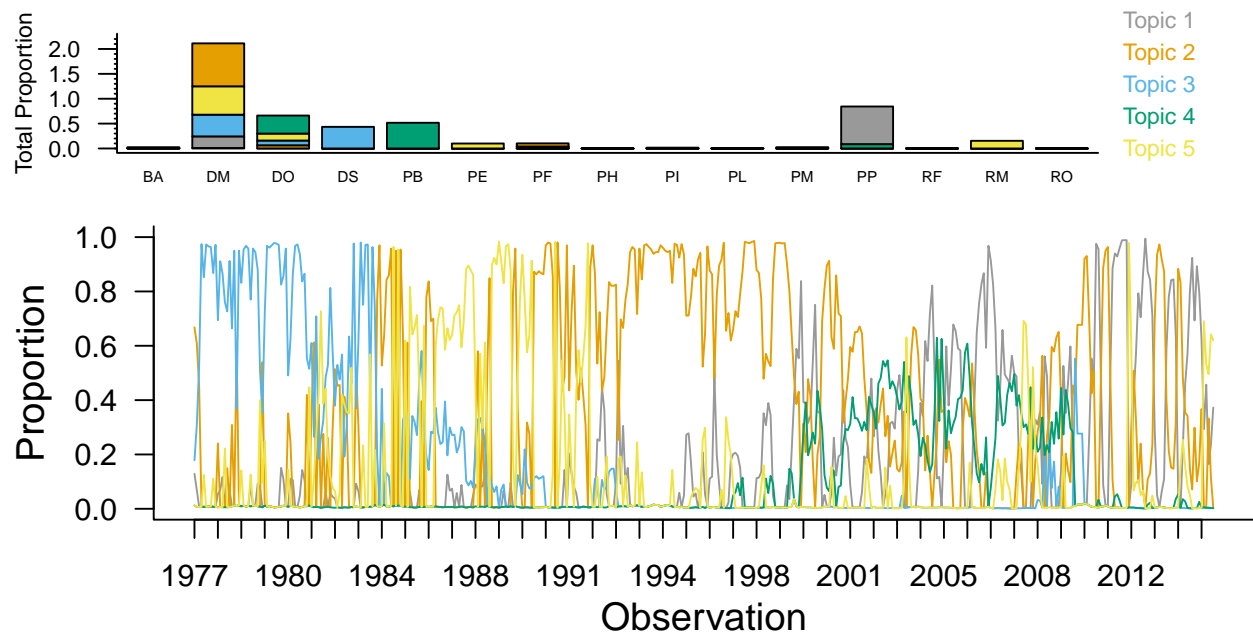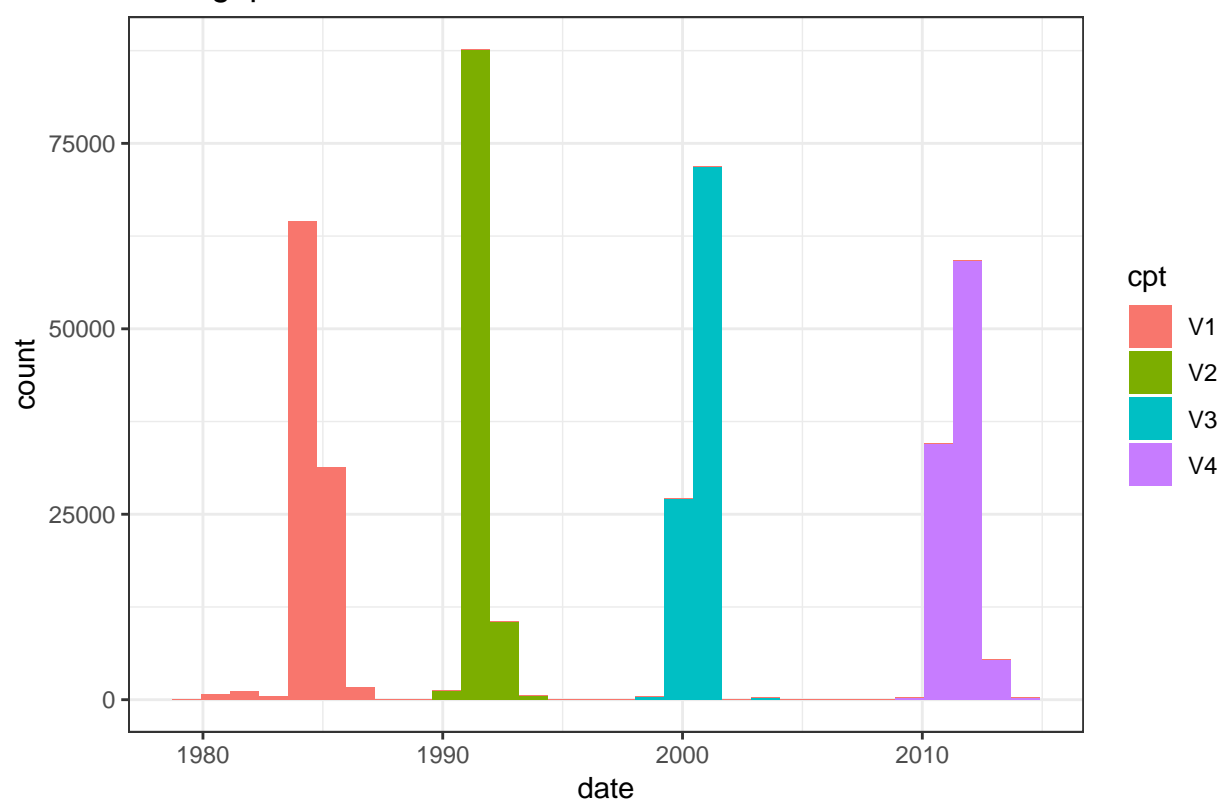# Controls

LDA models

Control plots LDA

Changepoint models

Selected changepoint model for control plots

```
##   Mean_date Median_date Lower_date Upper_date   SD MCMCerr    AC10
## 1 1984-04-29  1984-04-29 1983-11-12 1985-03-16 5.77  0.0183 0.5012
## 2 1990-07-21  1990-04-24 1990-01-06 1992-04-04 7.89  0.0250 0.6355
## 3 1999-07-02  1999-07-02 1998-12-22 1999-11-06 3.56  0.0113 0.4108
## 4 2010-01-16  2009-12-12 2009-05-23 2011-01-05 5.43  0.0172 0.3887
##       ESS
## 1 2722.659
## 2 1747.415
## 3 3019.237
## 4 4556.069

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

## Warning: Removed 1 rows containing non-finite values (stat_bin).
```
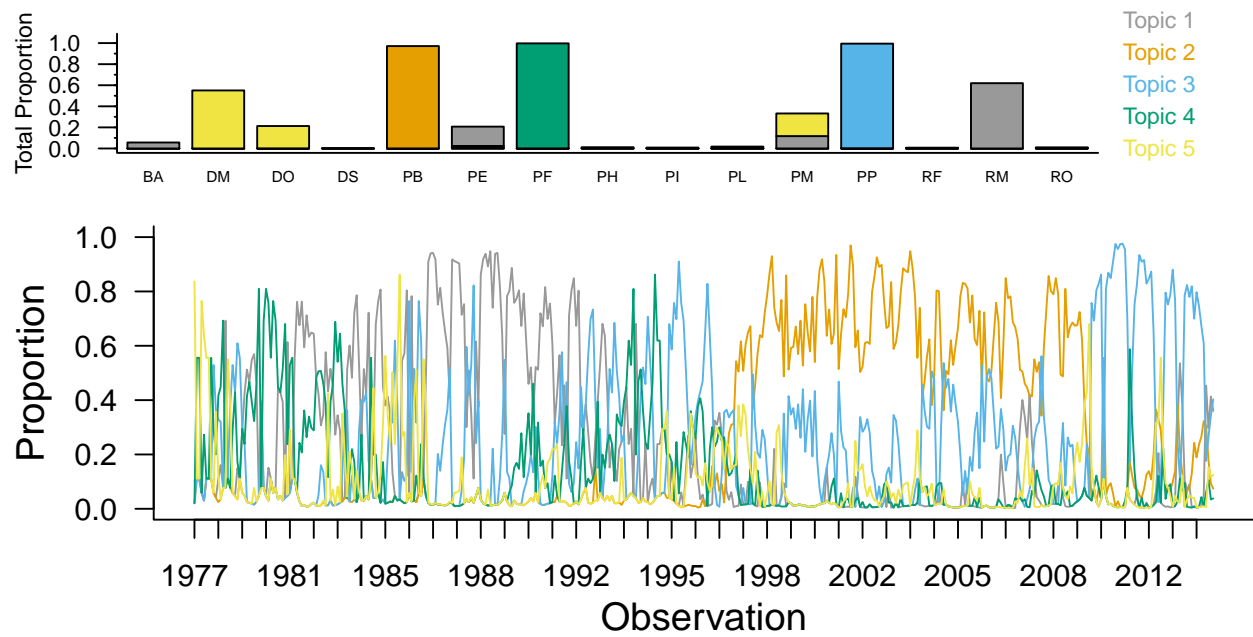
Changepoint estimates – control

Deviances for different numbers of changepoints - control

```
## $`2`
## [1] 1002.729
##
## $`3`
## [1] 977.8784
##
## $`4`
## [1] 969.6513
##
## $`5`
## [1] 985.4329
##
## $`6`
## [1] 1000.607
```

Exclosures
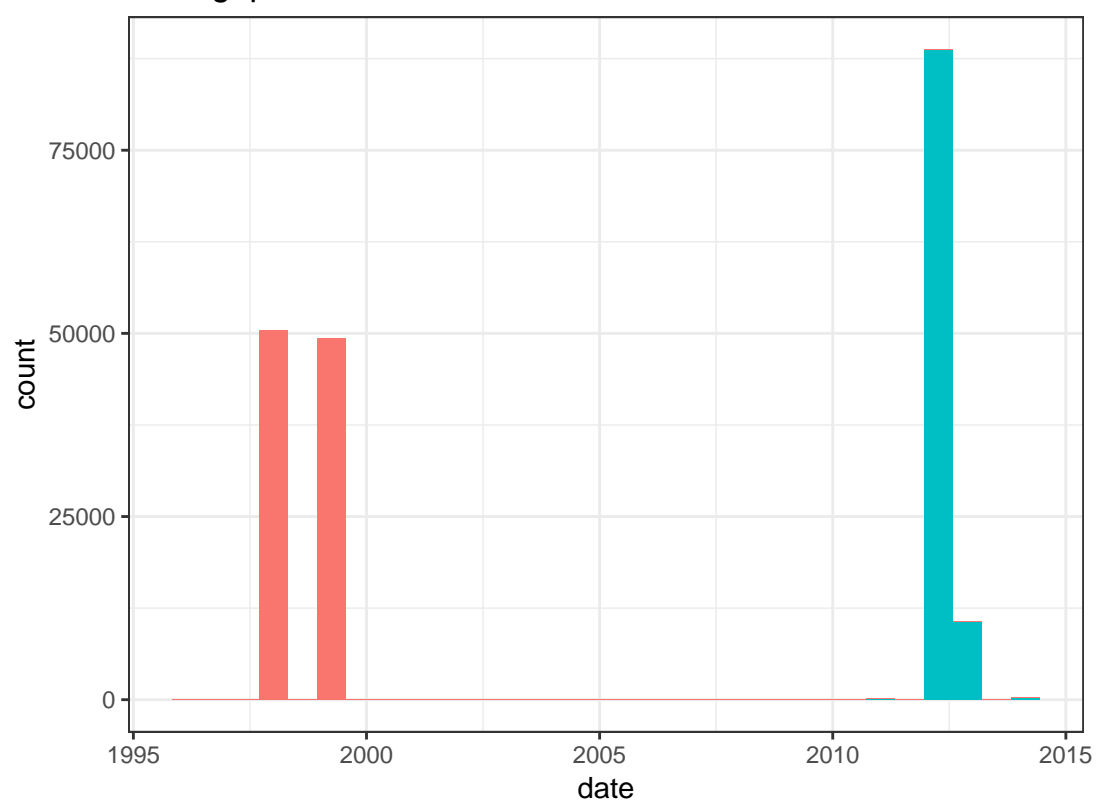
LDA models

Exclosure plots LDA

Changepoint models

Selected changepoint model for control plots

```
##     Mean_date Median_date Lower_date Upper_date   SD MCMCerr    AC10
## 1 1997-06-09  1997-05-10 1996-12-18 1997-09-27 2.60  0.0082 0.1011
## 2 2010-02-13  2010-01-16 2009-08-22 2010-07-30 3.25  0.0103 0.0993
##        ESS
## 1 14131.30
## 2 14397.04

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

Changepoint estimates – exclosures

Deviances for different numbers of changepoints - exclosure

```
## $`2`
## [1] 1085.769
##
## $`3`
## [1] 1092.302
##
## $`4`
## [1] 1094.06
##
## $`5`
## [1] 1110.526
##
## $`6`
## [1] 1127.871
```