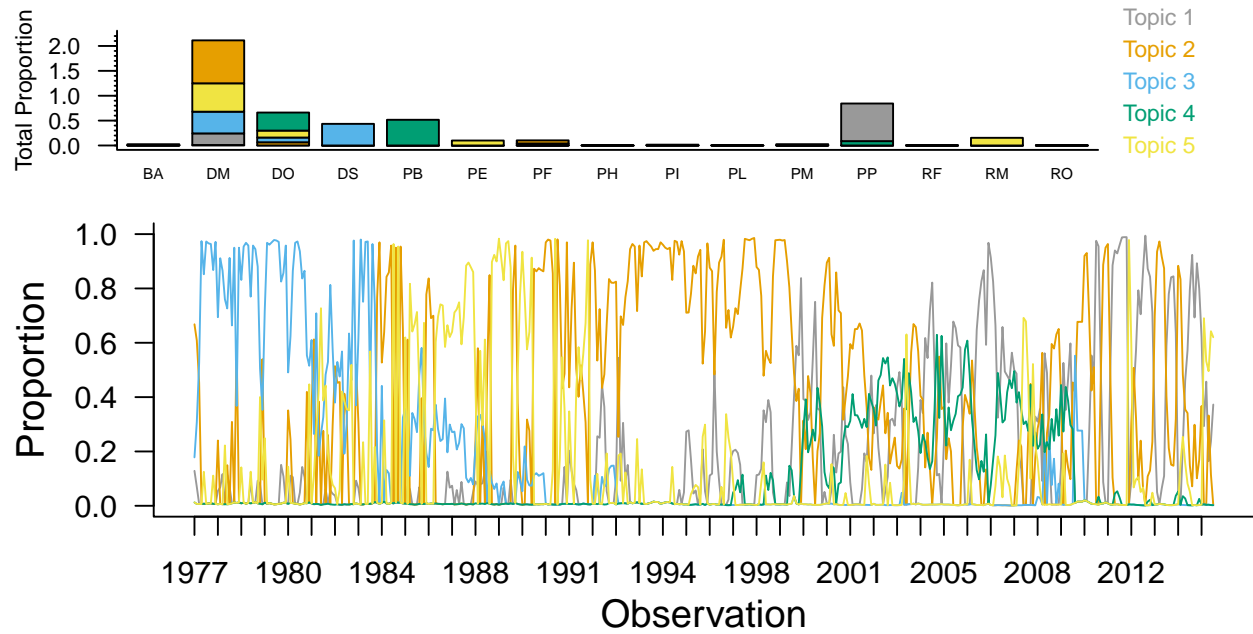


With weights all equal

LDA models

Control plots LDA



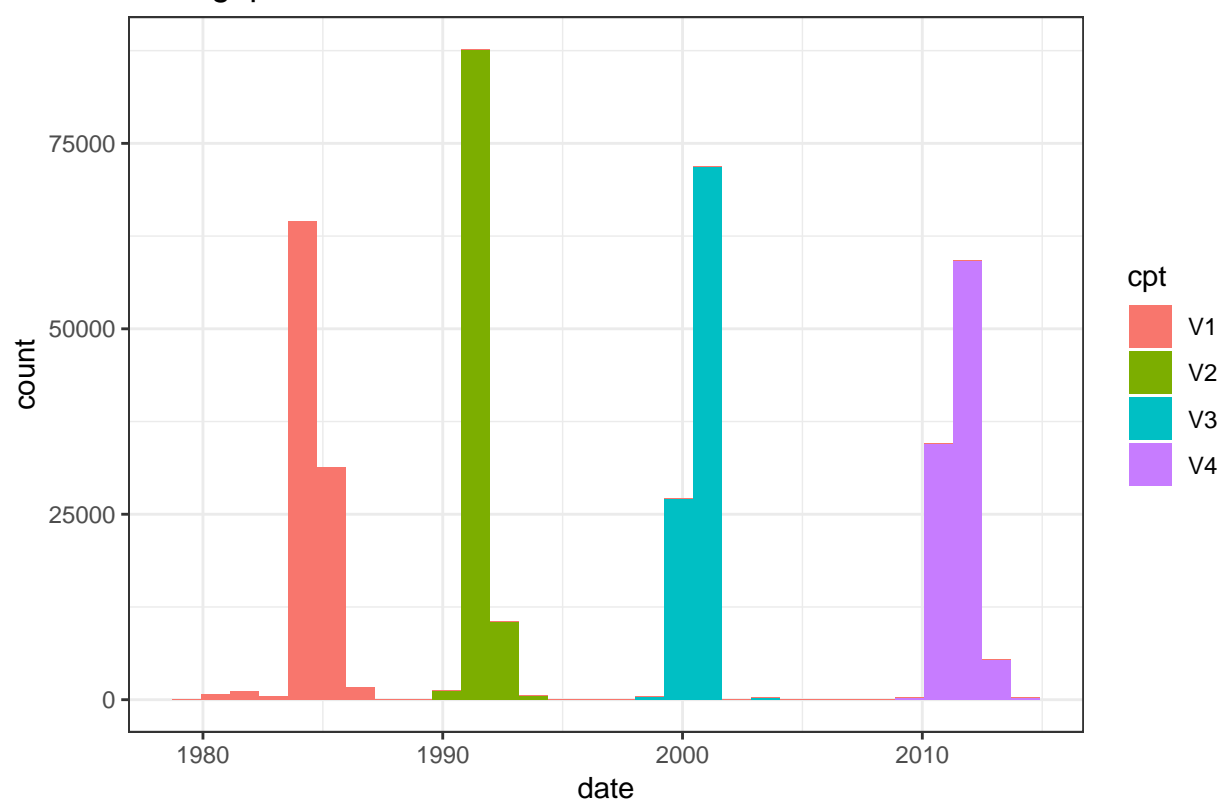
Changepoint models

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
```