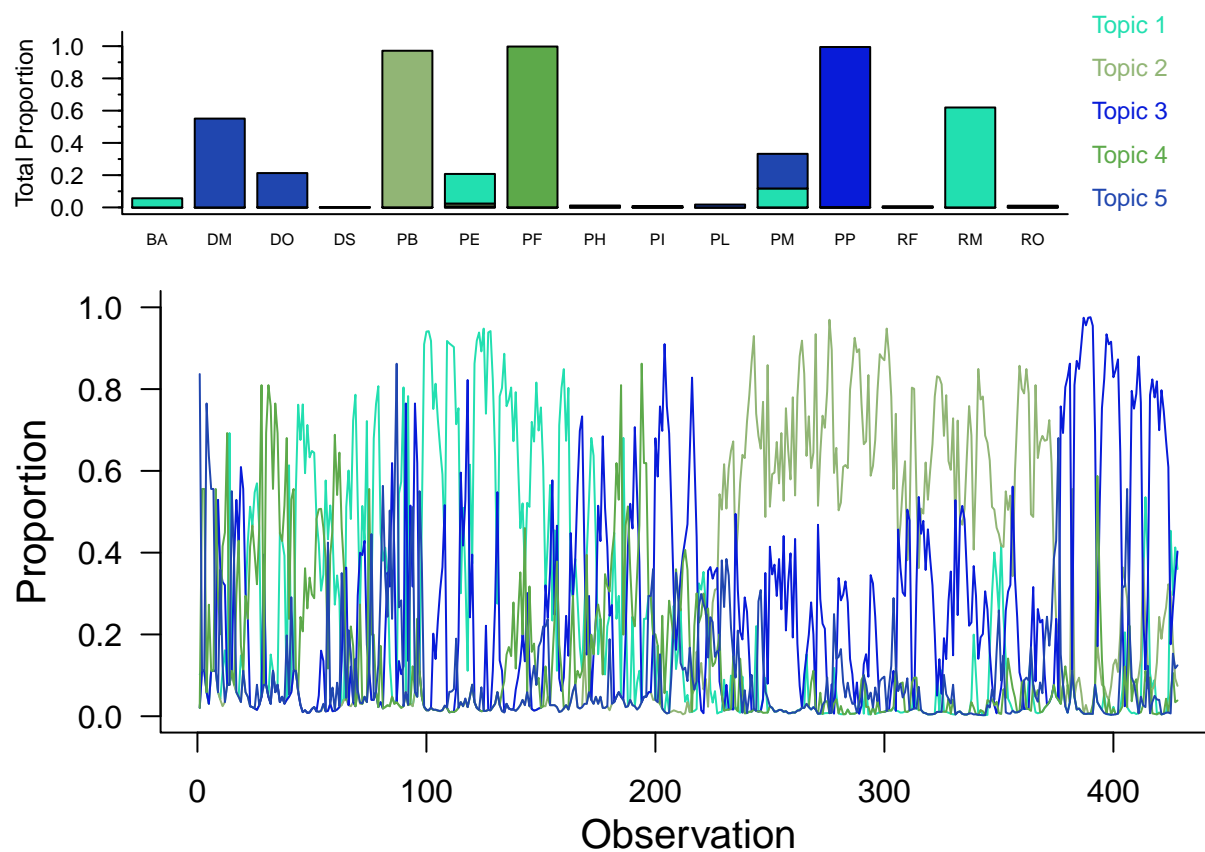# Results

Renata Diaz

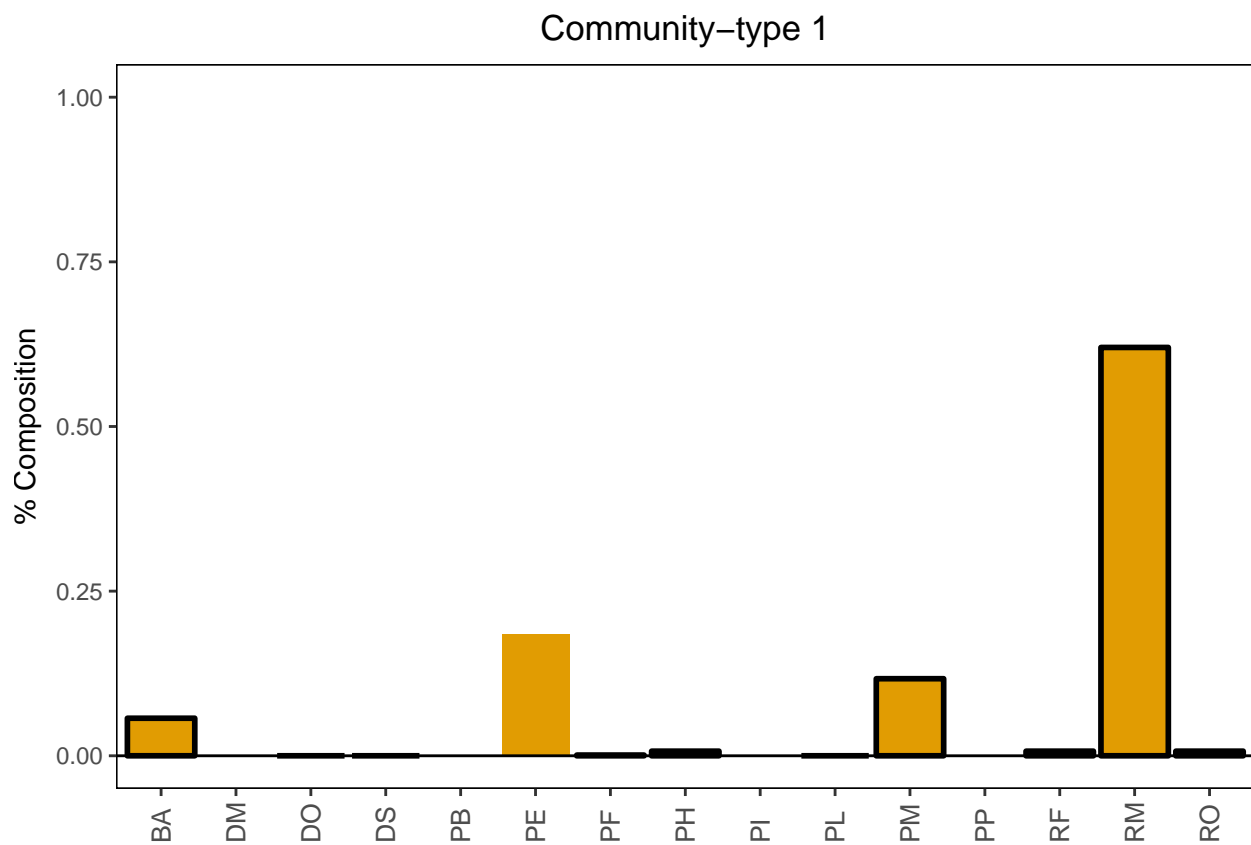*5/30/2018*

Exclosure plots

Granivores only, fewer plots (4), full time series.

```
load('models/excl_time_gran.Rdata')
```
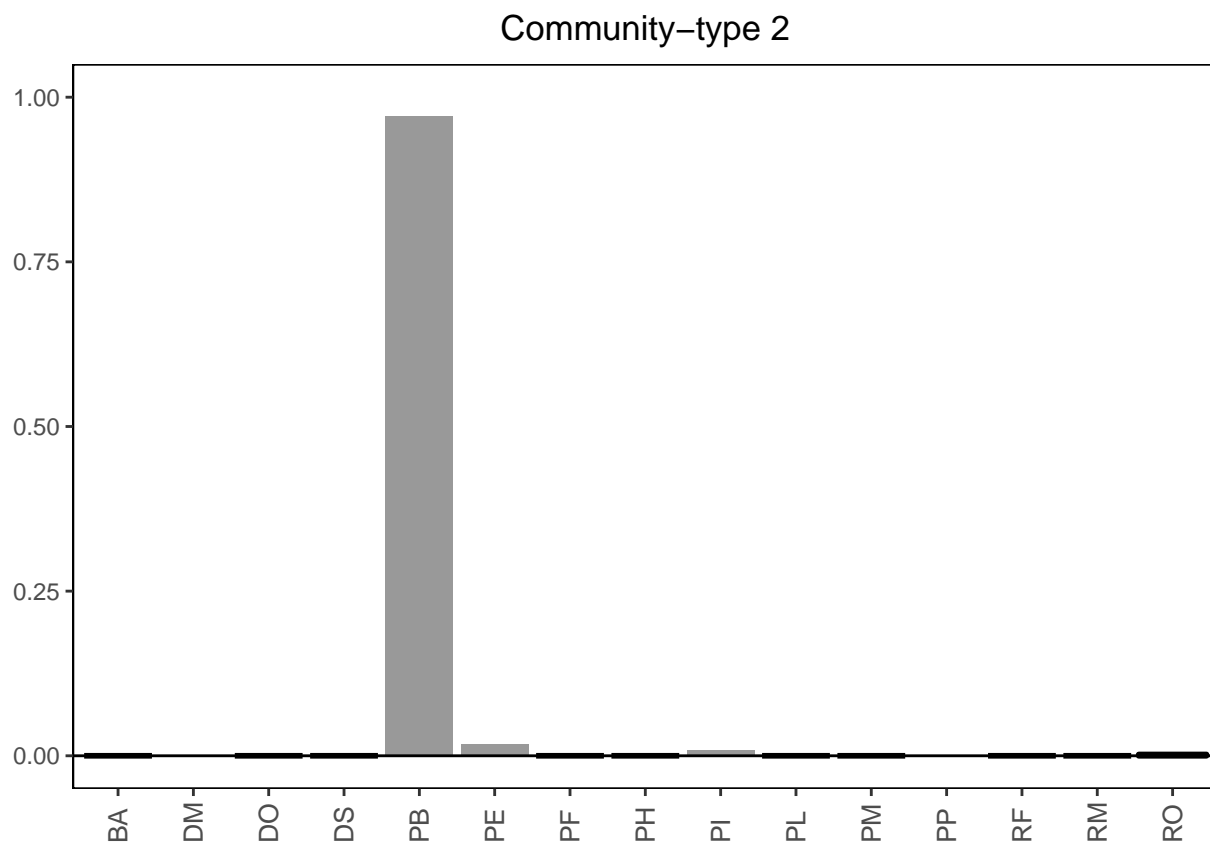
LDA model:


```
## [[1]]
```
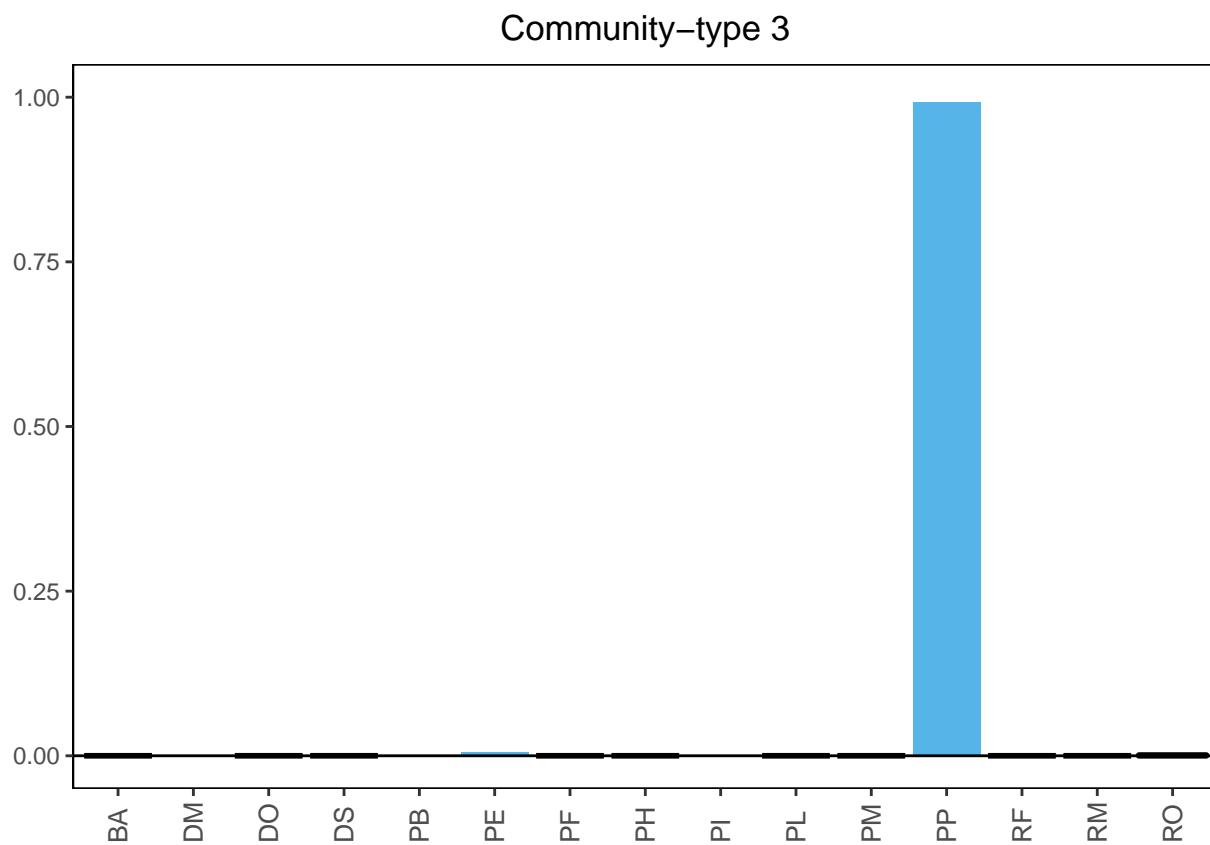
Community-type 1

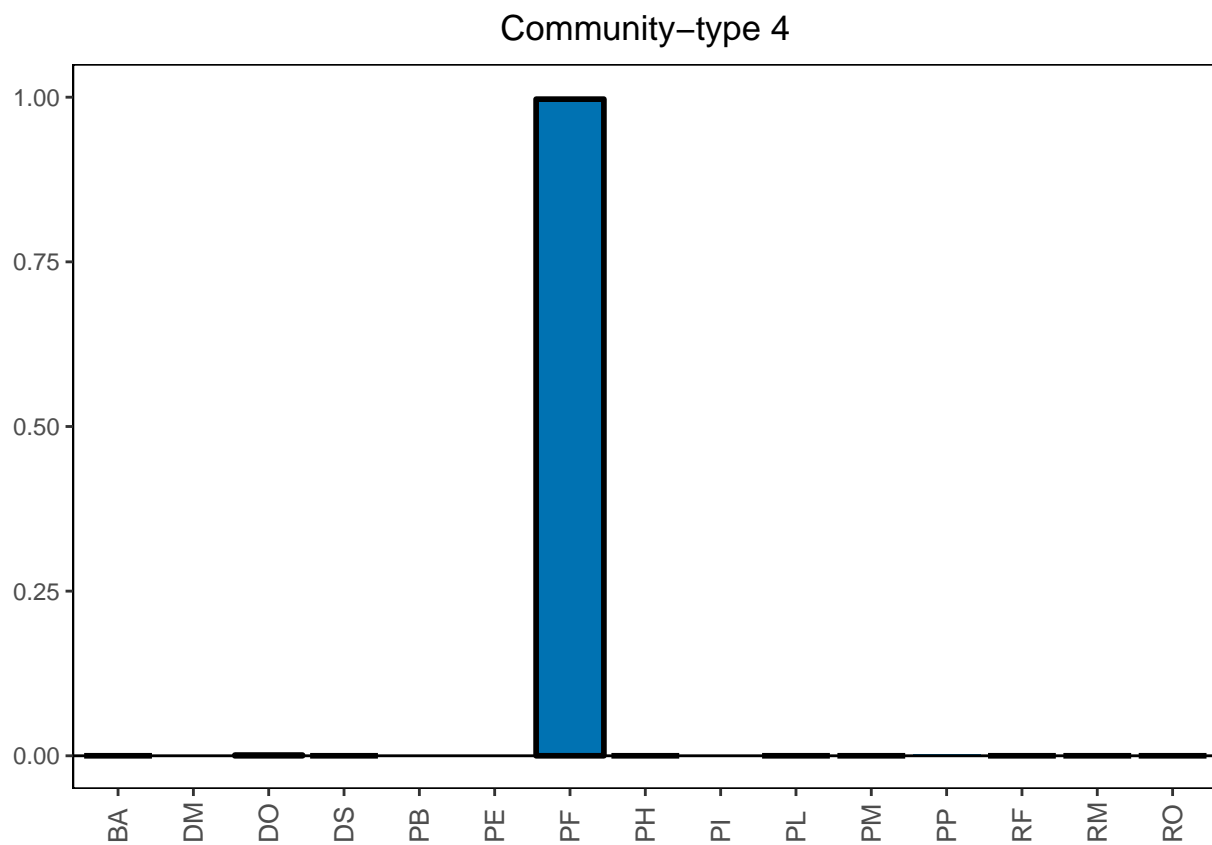##
[[2]]

Community−type 2

```
##
## [[3]]
```

Community−type 3

[[4]]

Community–type 4

```
## 
## [[5]]
```

Community−type 5
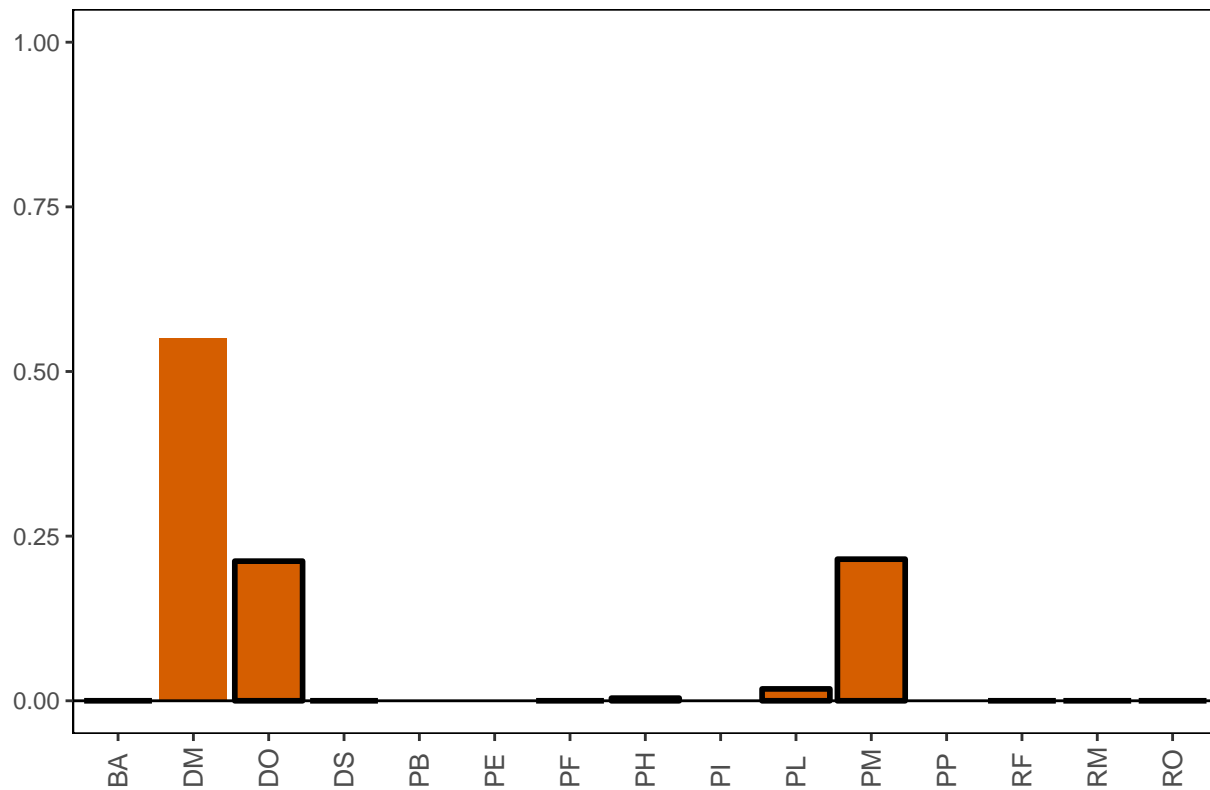
Changepoint model:

```
##                 Mean Median Lower Upper   SD MCMCerr   AC10      ESS
## Changepoint_1 219.24    224   185   242 18.6  0.1869 0.2304 595.5178
## Changepoint_2 368.31    375   326   400 28.9  0.2905 0.3492 316.6409
```

Here are some more diagnostics:

```
## $acceptance_rates
## [1] 0.5480808 0.8333333 0.9108081 0.9355556 0.9440404 0.9434343
##
## $swapping_rates
## [1] 0.1996970 0.5481818 0.8009091 0.9240404 0.9578788
##
## $trip_counts
## [1]   96 105 105  93  97  87
##
## $trip_rates
## [1] 0.009696970 0.010606061 0.010606061 0.009393939 0.009797980 0.008787879

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```
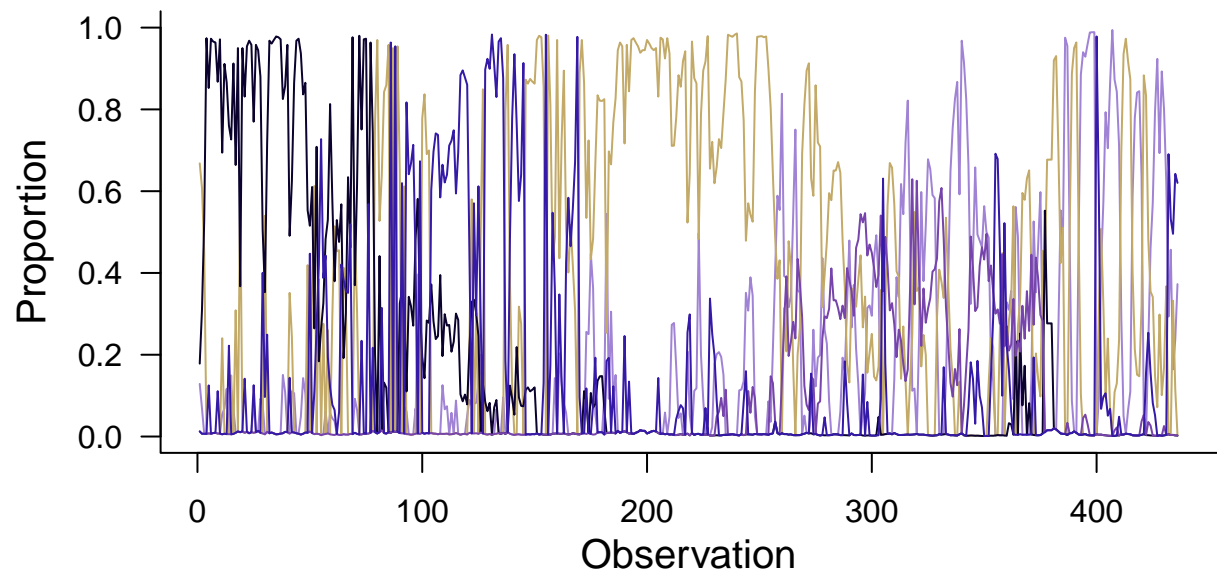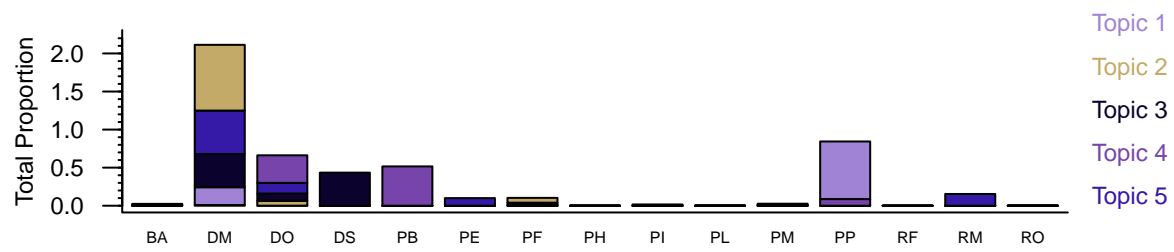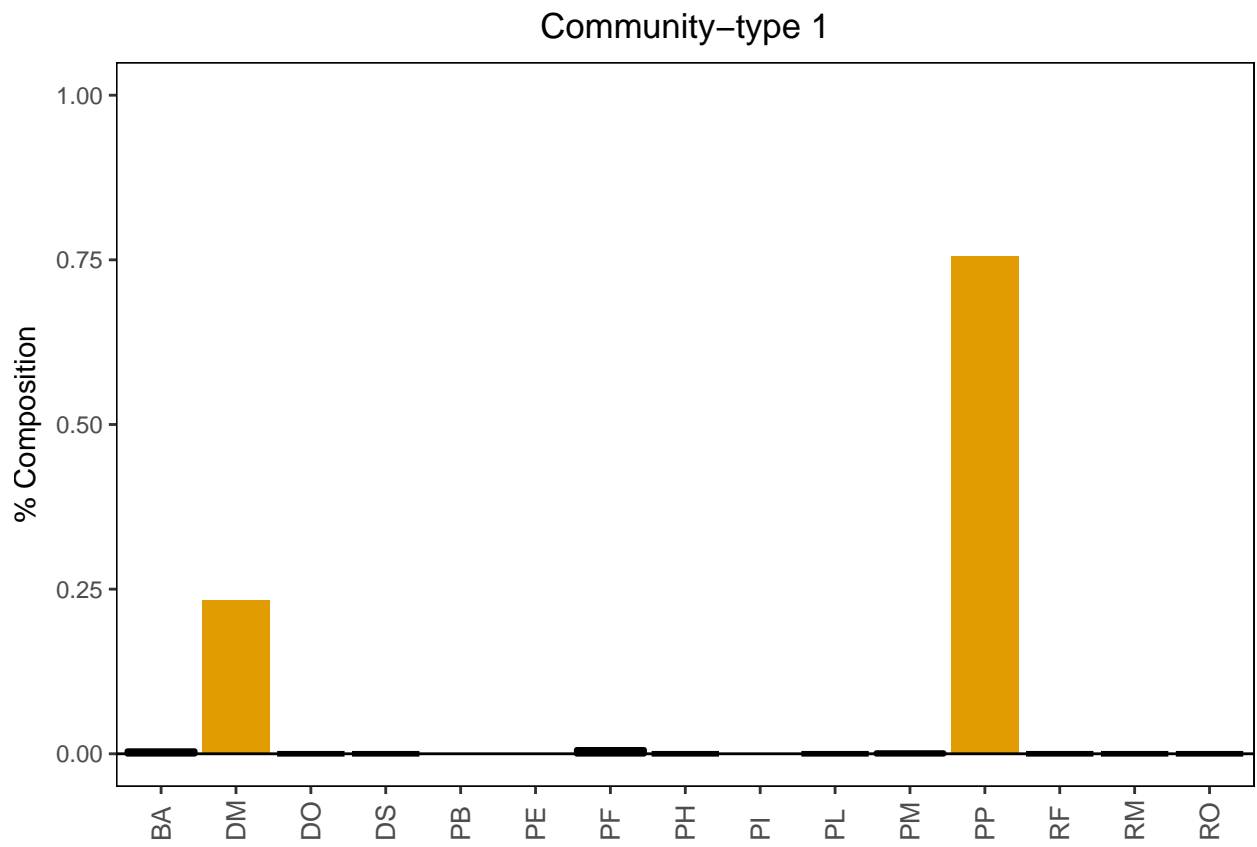
Changepoint estimates – exclosures
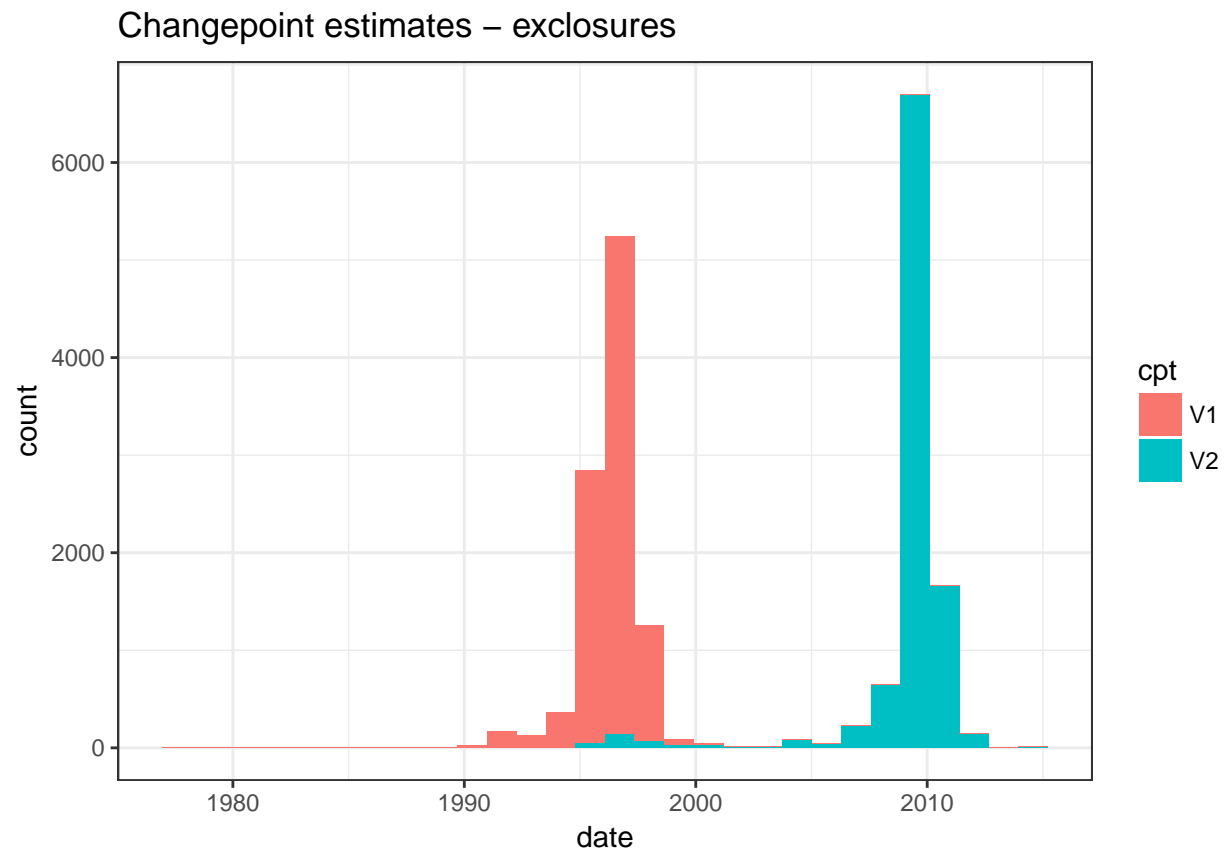
Control plots

Granivores only, fewer plots (4), full time series.
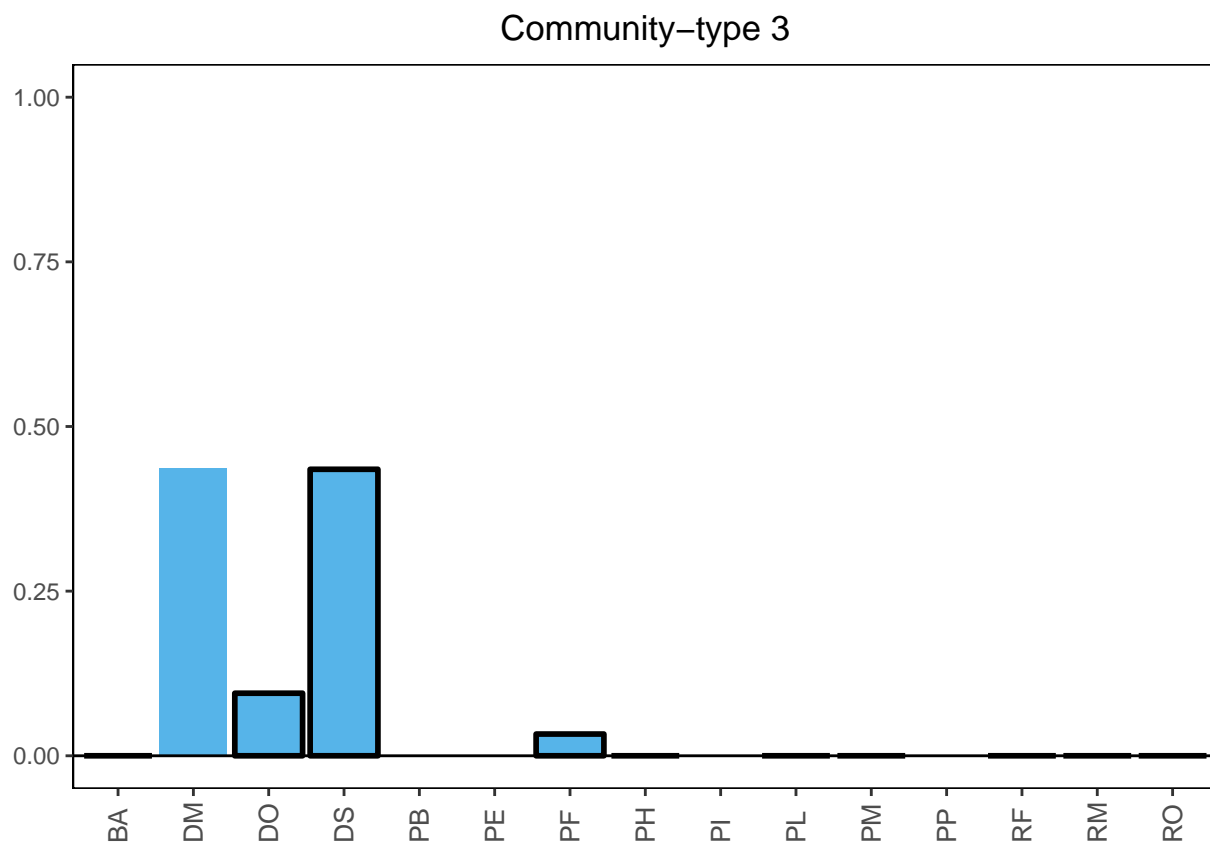
```
load('models/ctrl_time_gran.Rdata')
```

LDA model:
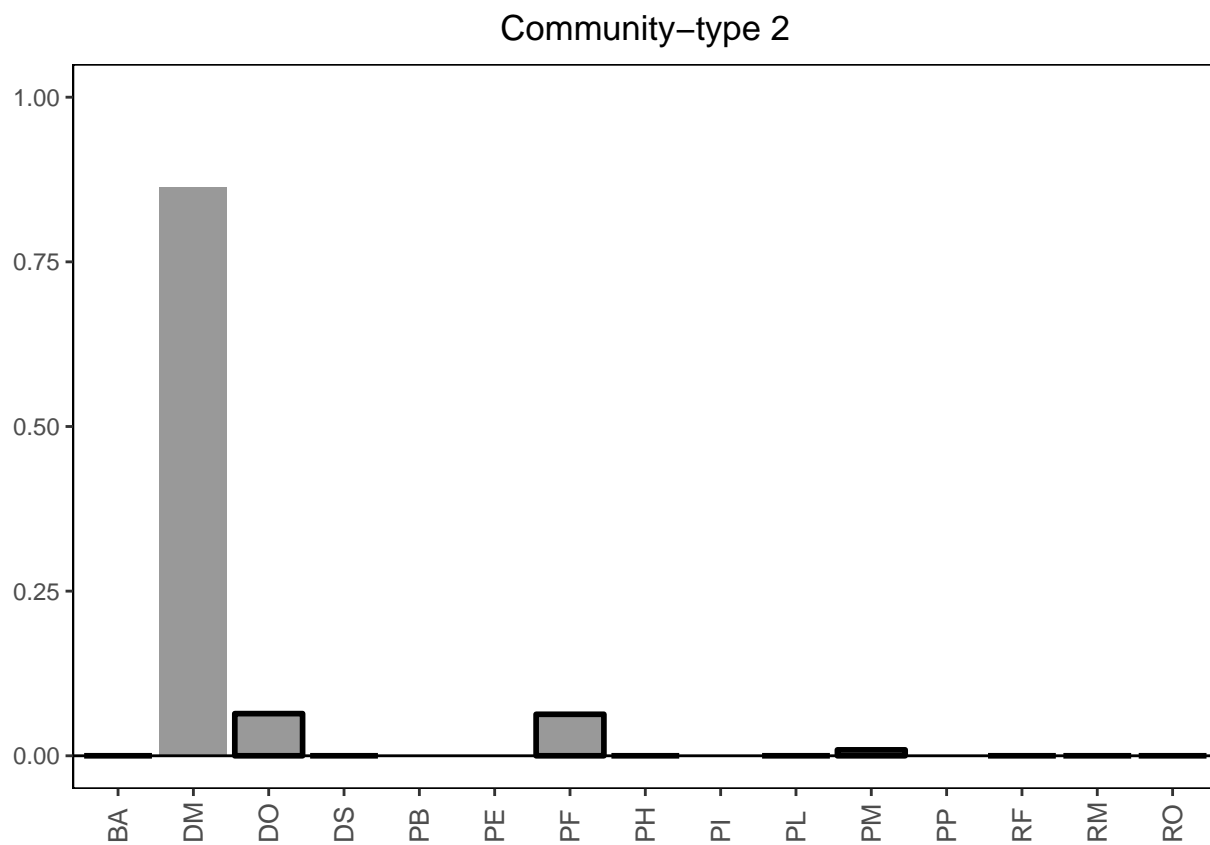
```
## [[1]]
```

Community−type 1

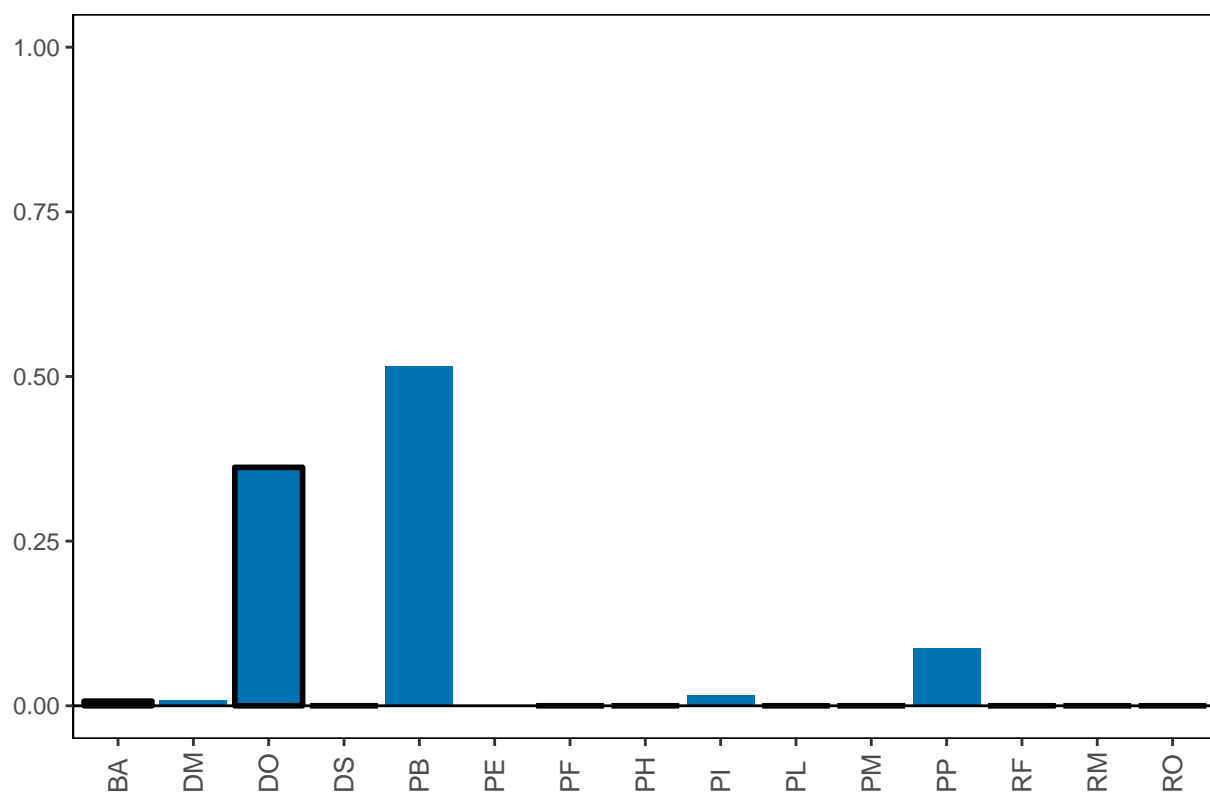## [[2]]

Community−type 2

```
##
## [[3]]
```

Community−type 3

```
##
## [[4]]
```

Community–type 4

```
## 
## [[5]]
```

Community–type 5
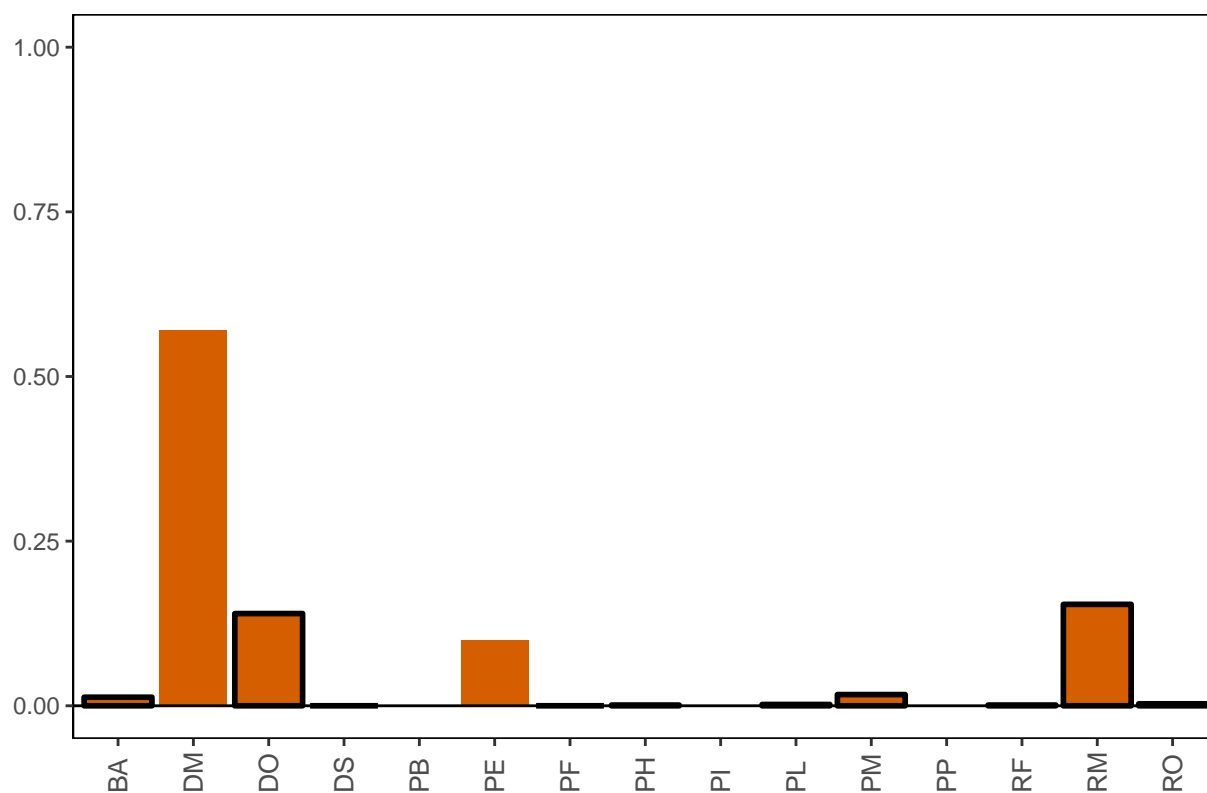
Changepoint model:

```
##                     Mean Median Lower Upper    SD MCMCerr   AC10       ESS
## Changepoint_1 146.59    145    108   193 20.67  0.2077 0.1130 1173.4583
## Changepoint_2 266.10    259    233   313 23.59  0.2371 0.1794  716.1593
```

Here are some more diagnostics:

```
## $acceptance_rates
## [1] 0.6030303 0.8361616 0.9162626 0.9341414 0.9427273 0.9430303
##
## $swapping_rates
## [1] 0.3097980 0.5561616 0.7623232 0.8917172 0.9348485
##
## $trip_counts
## [1] 133 122 155 151 139 143
##
## $trip_rates
## [1] 0.01343434 0.01232323 0.01565657 0.01525253 0.01404040 0.01444444

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

Changepoint estimates – controls

Changepoint estimates