

Results

Renata Diaz

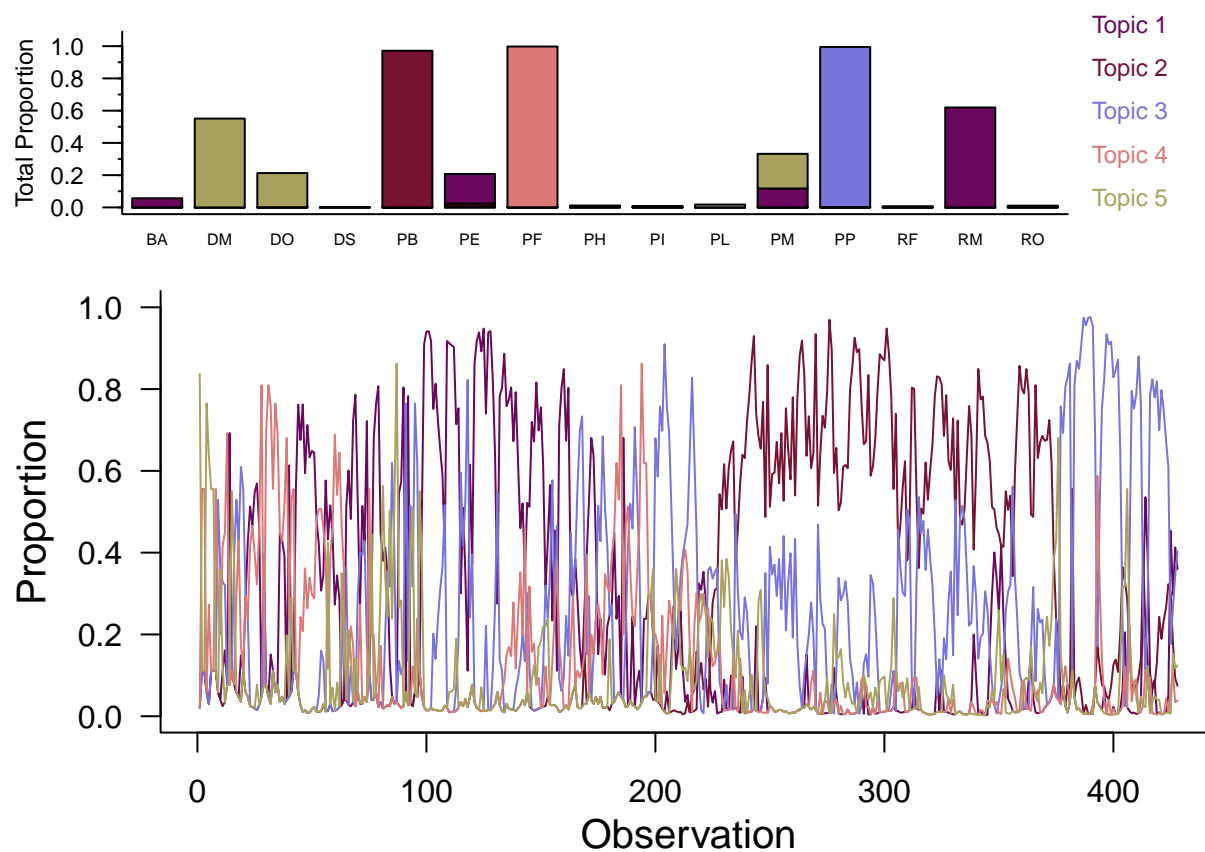
5/30/2018

Exclosure plots

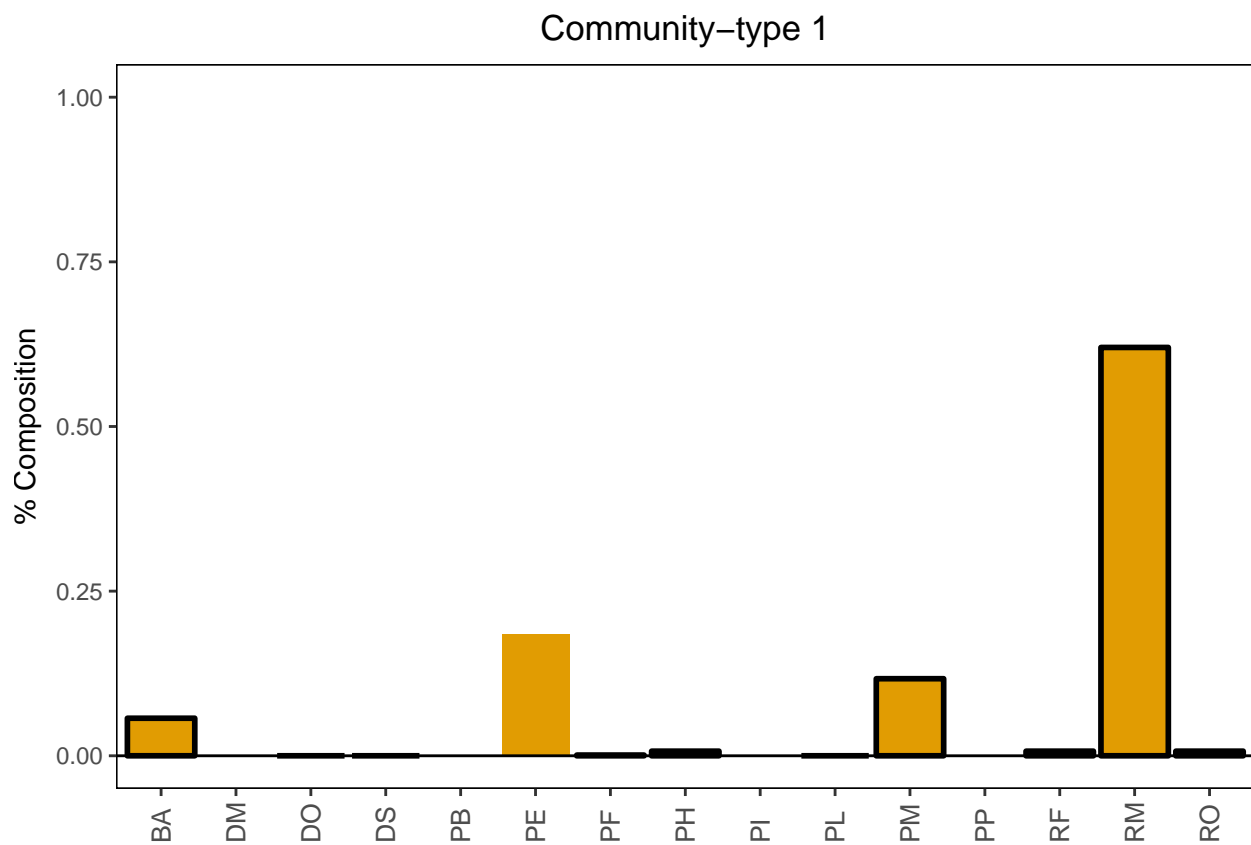
Granivores only, fewer plots (4), full time series.

```
load('models/excl_time_gran.Rdata')
```

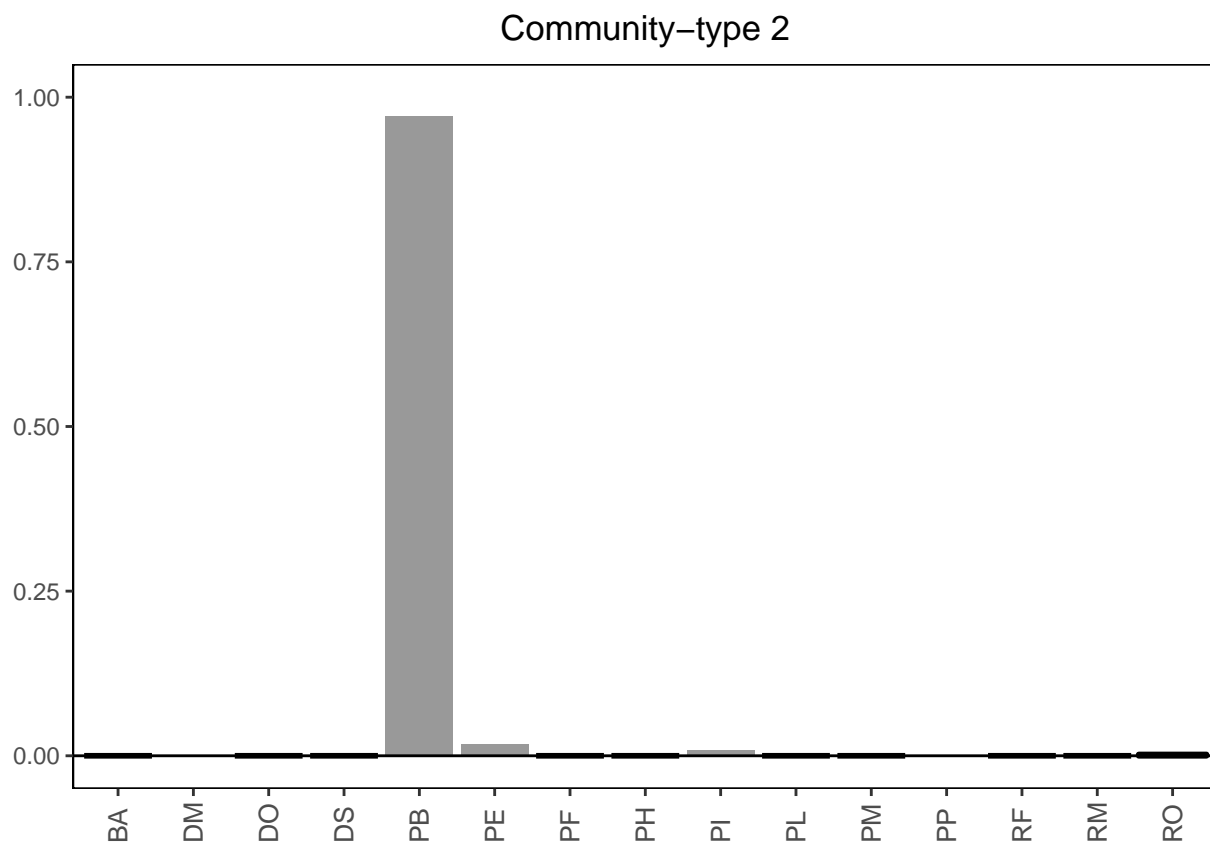
LDA model:



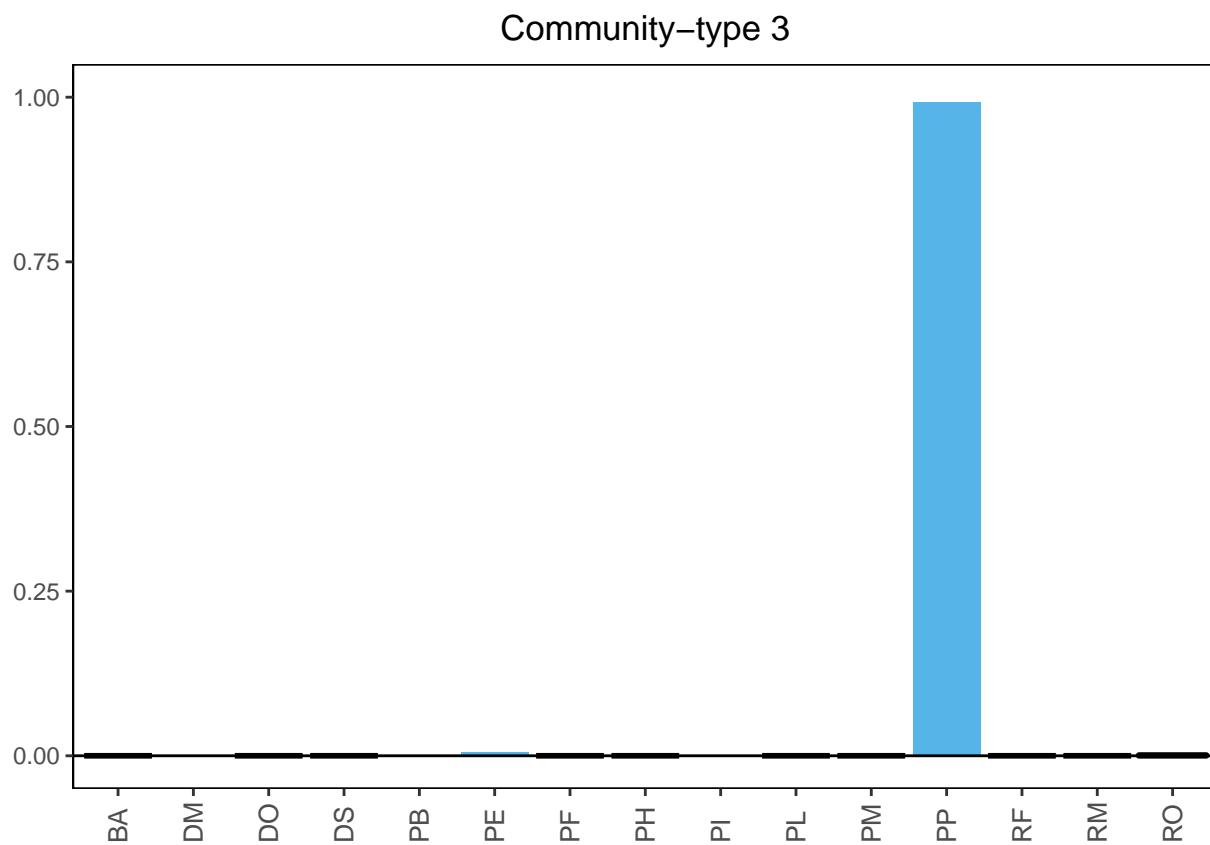
```
## [[1]]
```



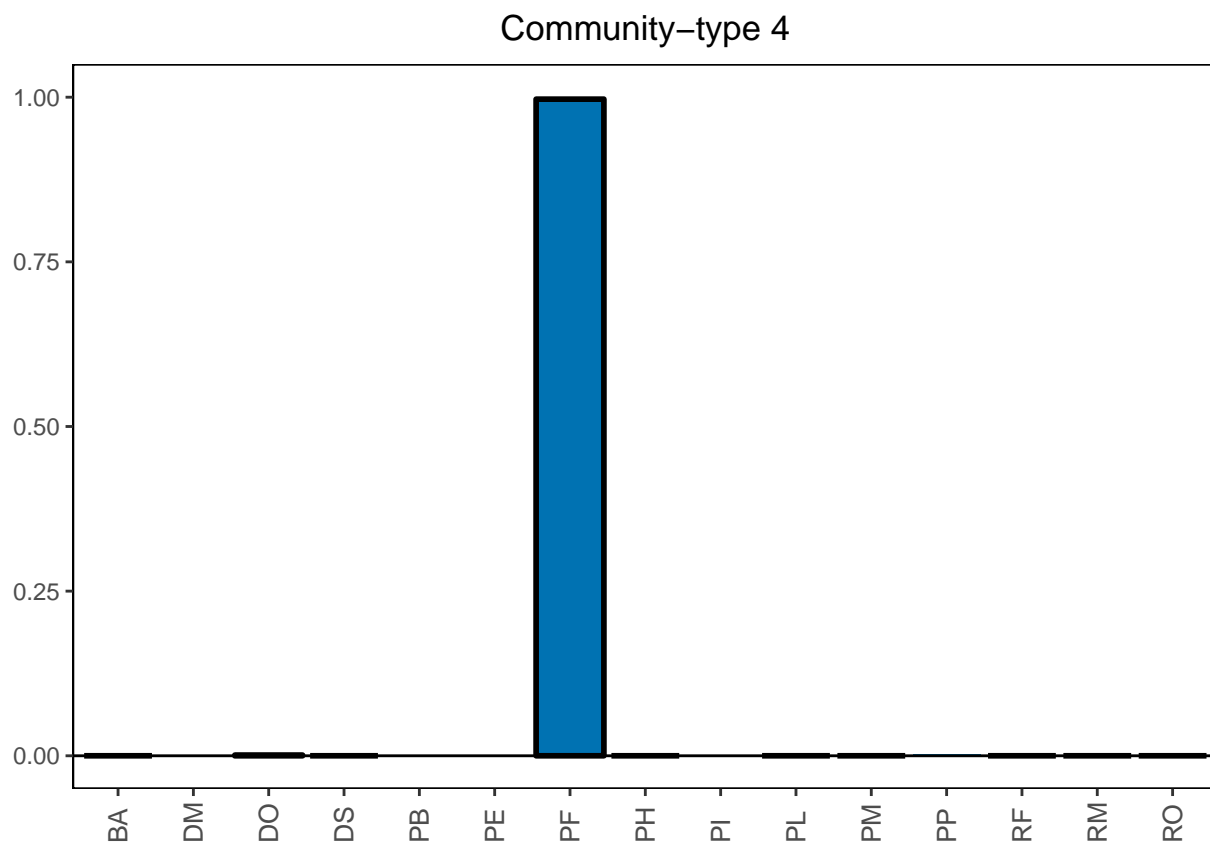
[[2]]



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

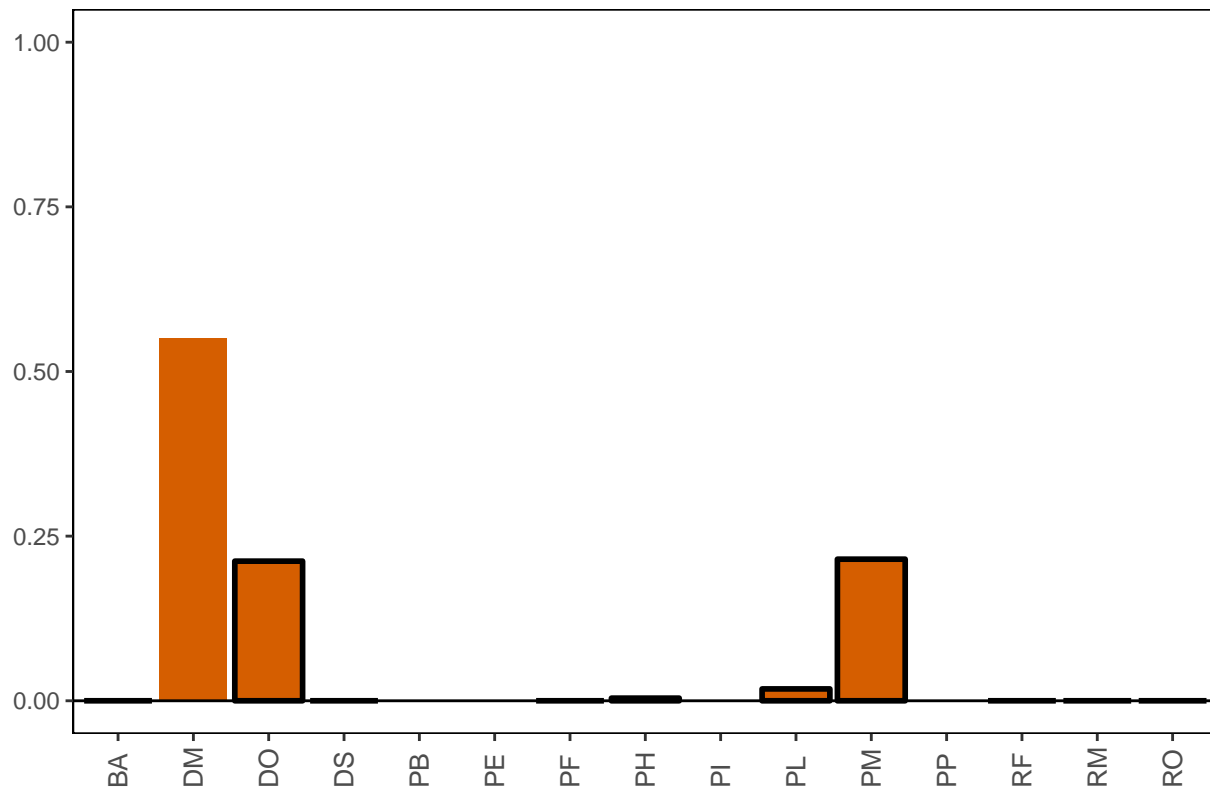


```
##  
## [[4]]
```



```
##  
## [[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:

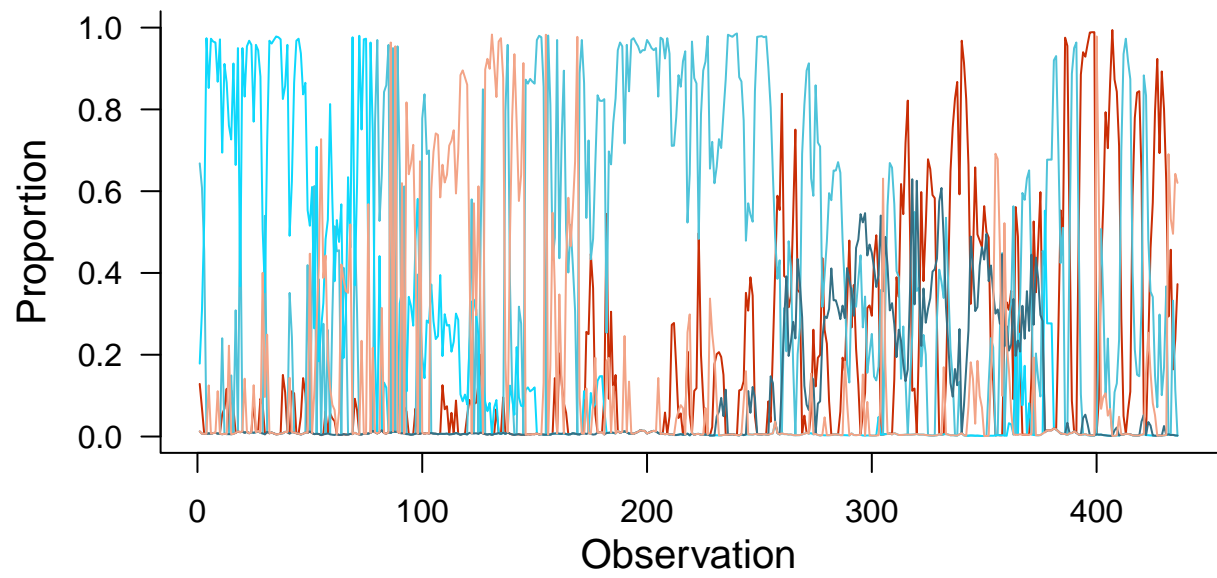
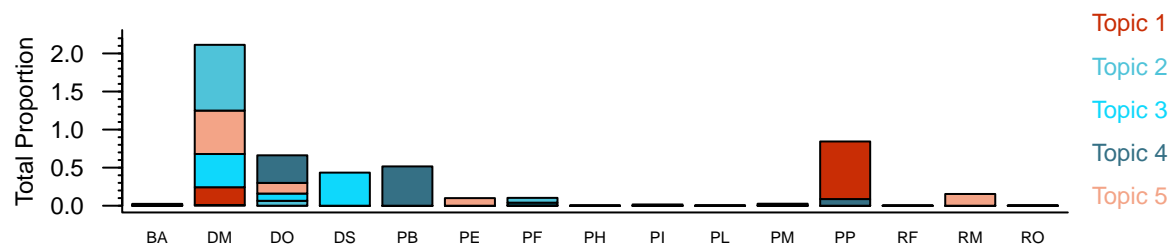
```
## $acceptance_rates
## [1] 0.5480808 0.8333333 0.9108081 0.9355556 0.9440404 0.9434343
##
## $swapping_rates
## [1] 0.1996970 0.5481818 0.8009091 0.9240404 0.9578788
##
## $trip_counts
## [1] 96 105 105 93 97 87
##
## $trip_rates
## [1] 0.009696970 0.010606061 0.010606061 0.009393939 0.009797980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

Control plots

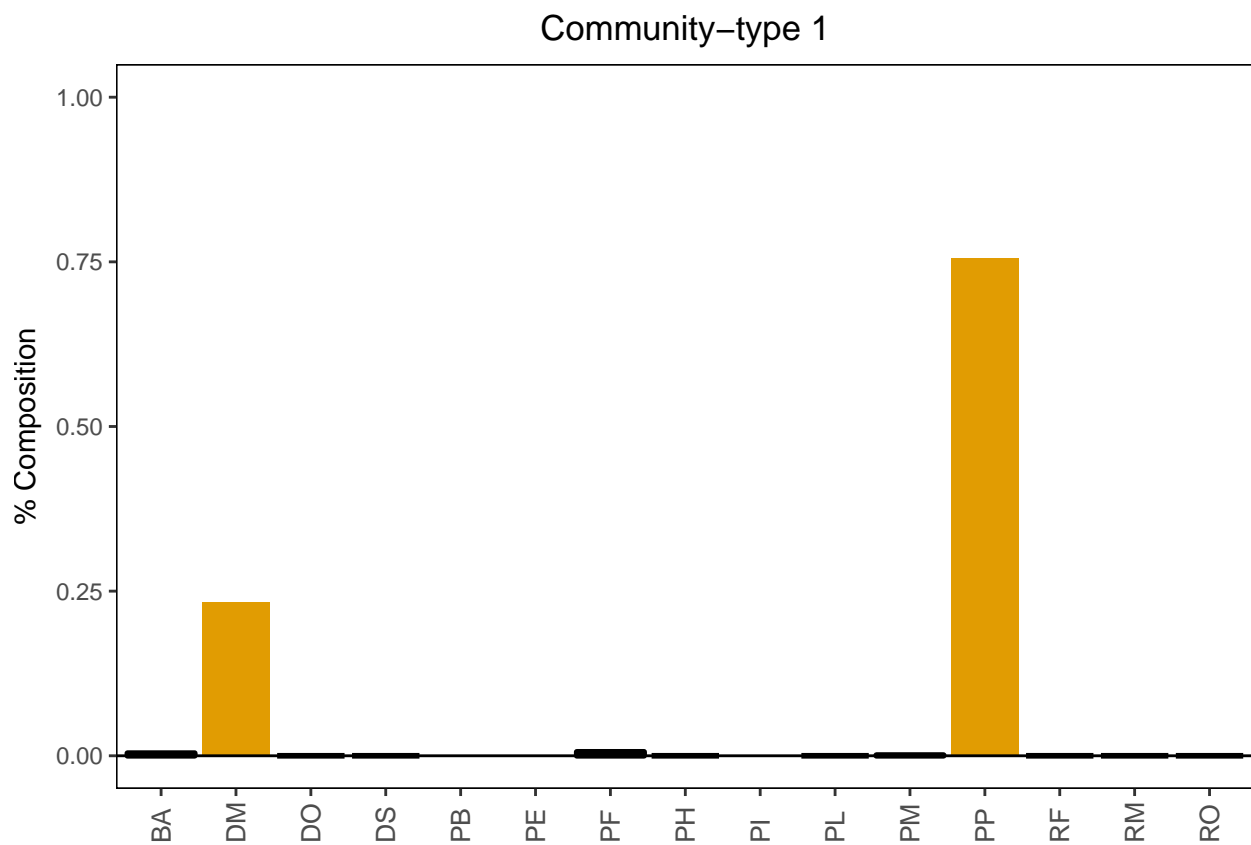
Granivores only, fewer plots (4), full time series.

```
load('models/ctrl_time_gran.Rdata')
```

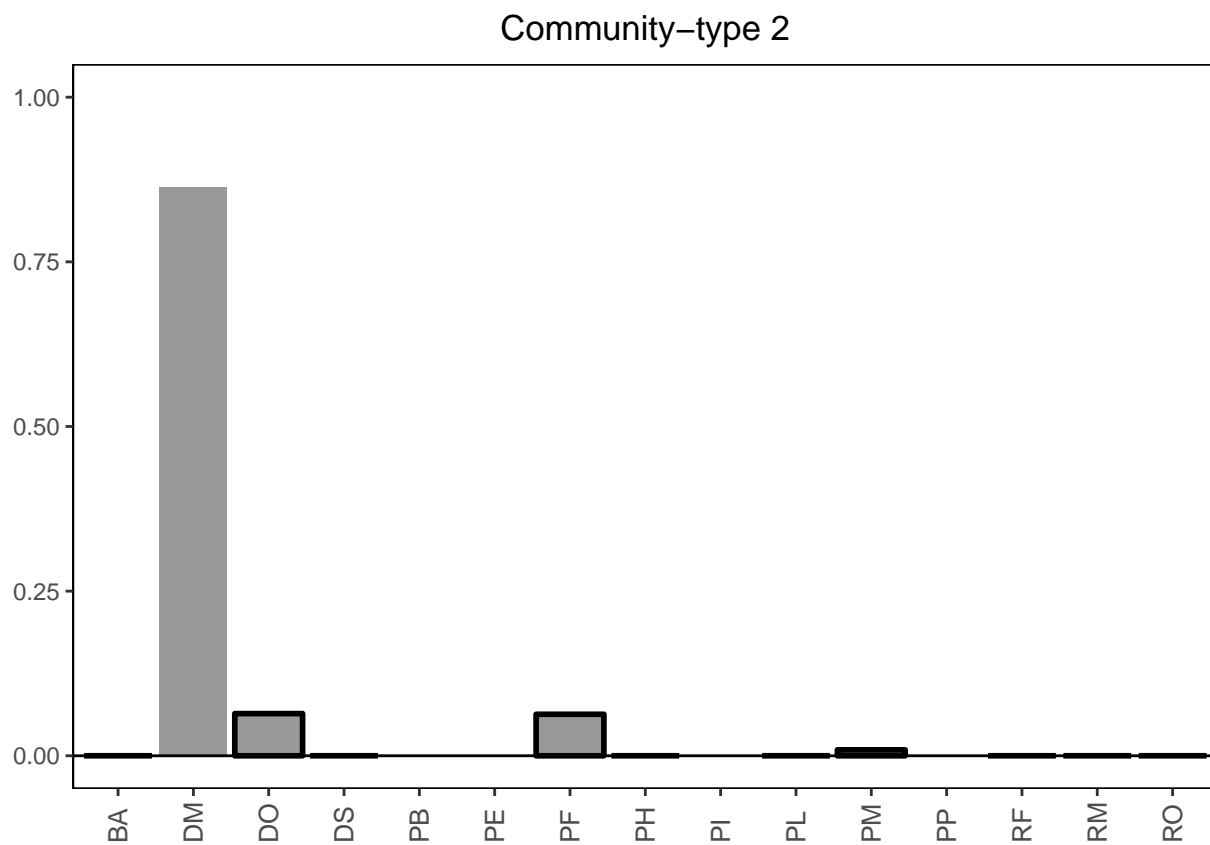
LDA model:



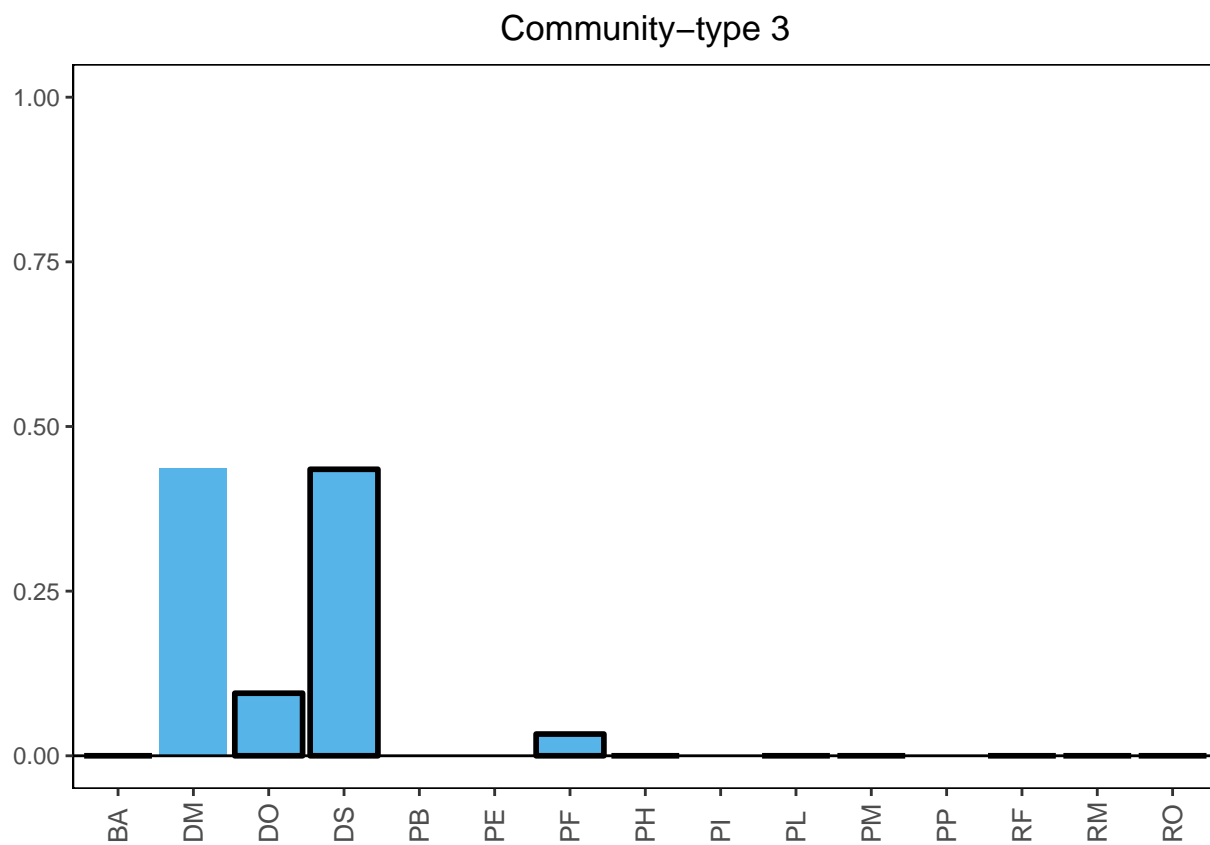
[[1]]



```
##  
## [[2]]
```

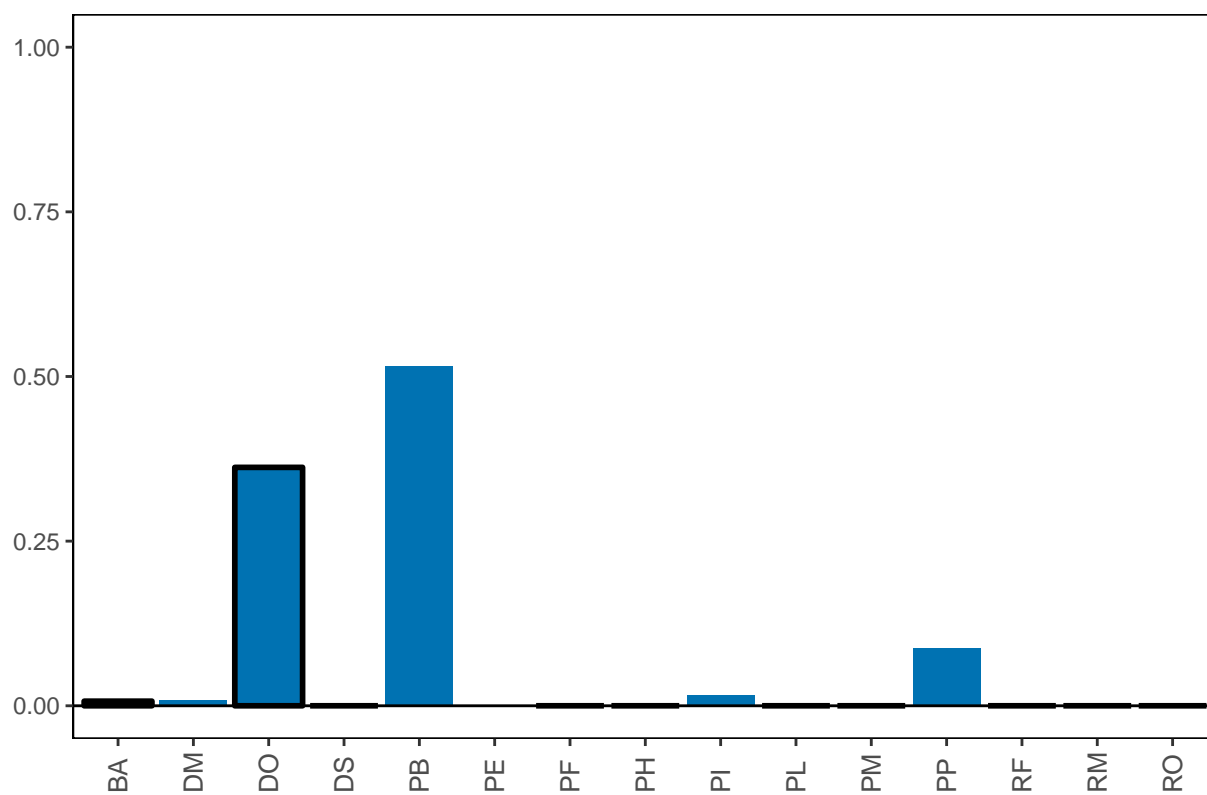



[[3]]



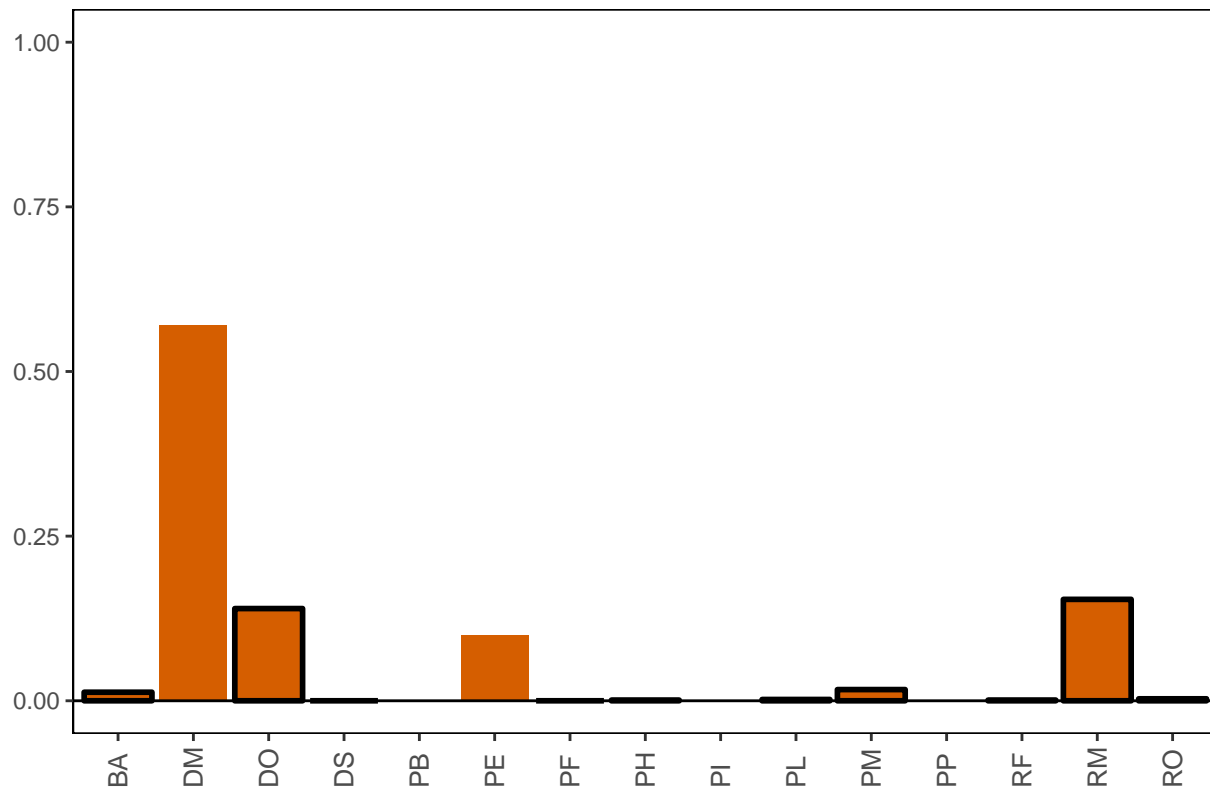
```
##  
## [[4]]
```

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
```

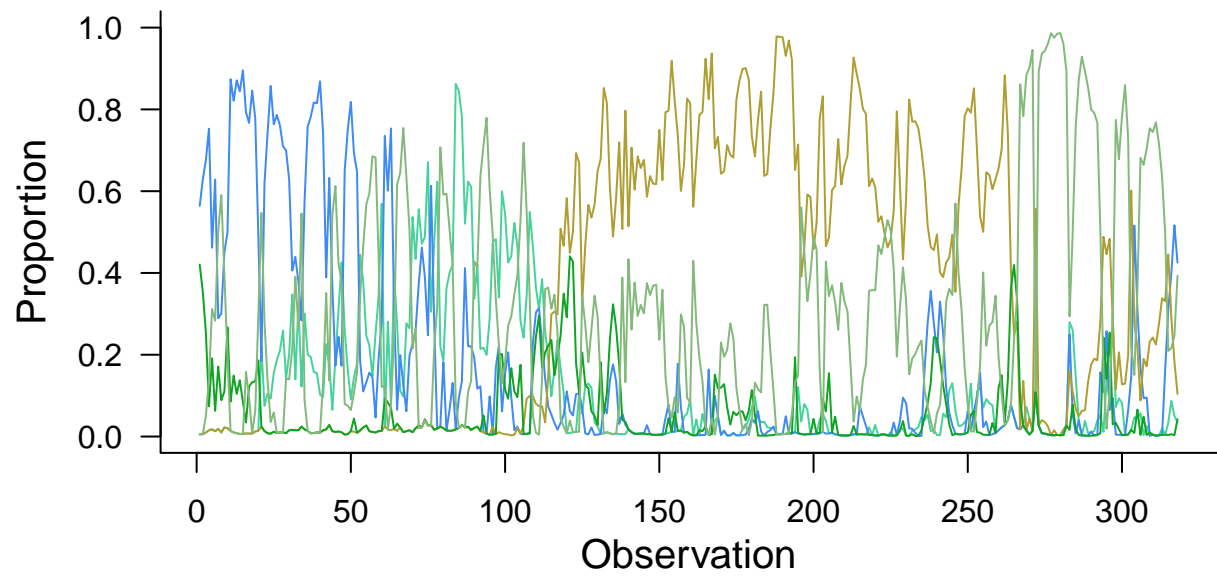
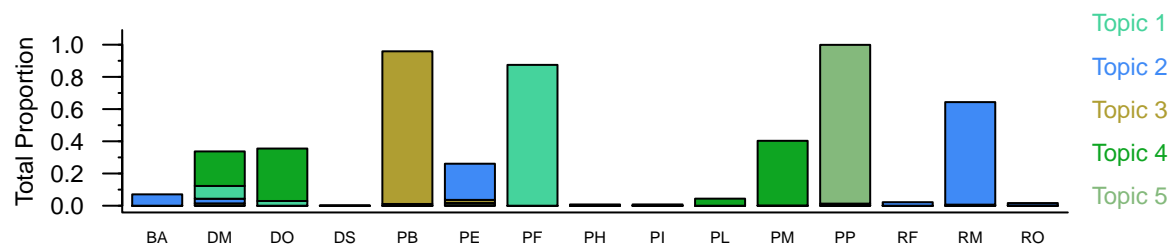
Here are some more diagnostics:

```
## $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
##
## $strip_counts
## [1] 133 122 155 151 139 143
##
## $strip_rates
## [1] 0.01343434 0.01232323 0.01565657 0.01525253 0.01404040 0.01444444
```

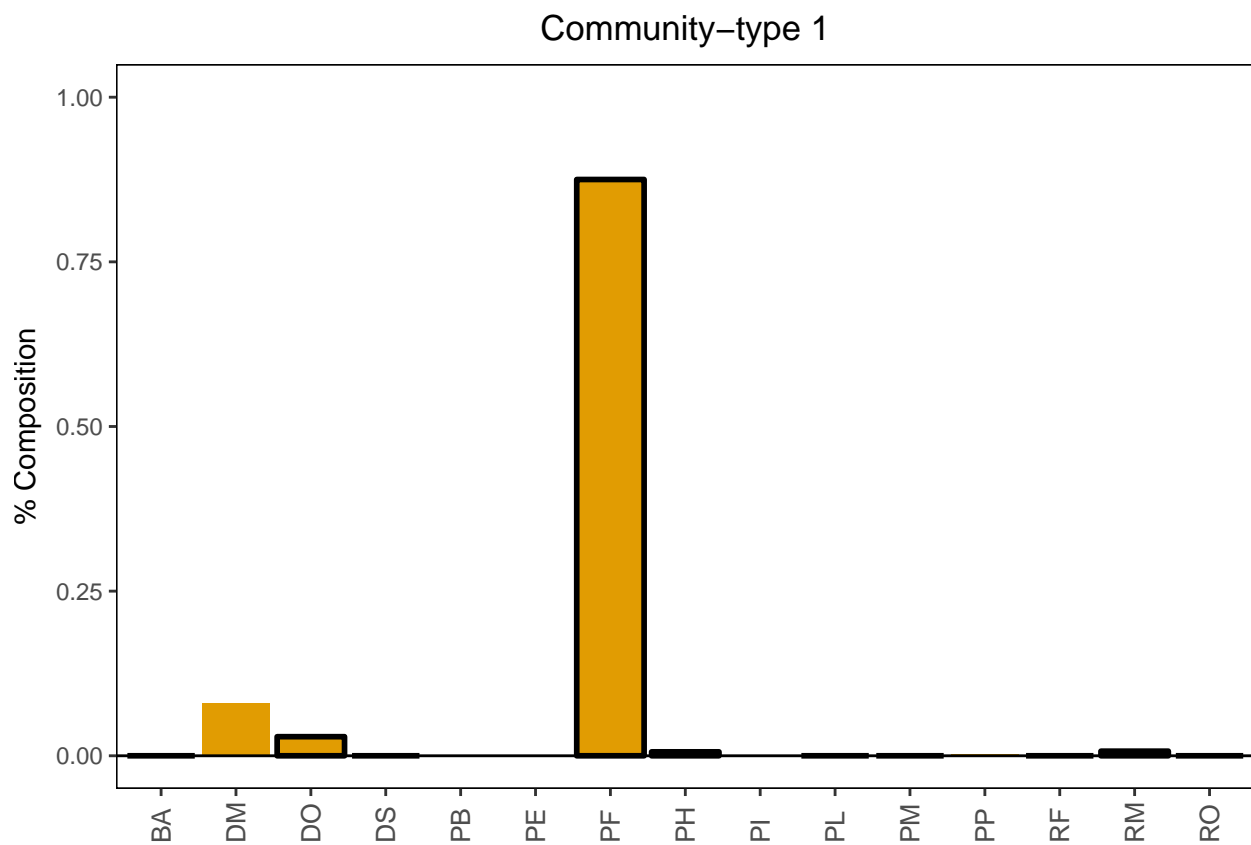
Exlosures, more plots and less time

```
load('models/excl_plots_gran_1e4.Rdata')
```

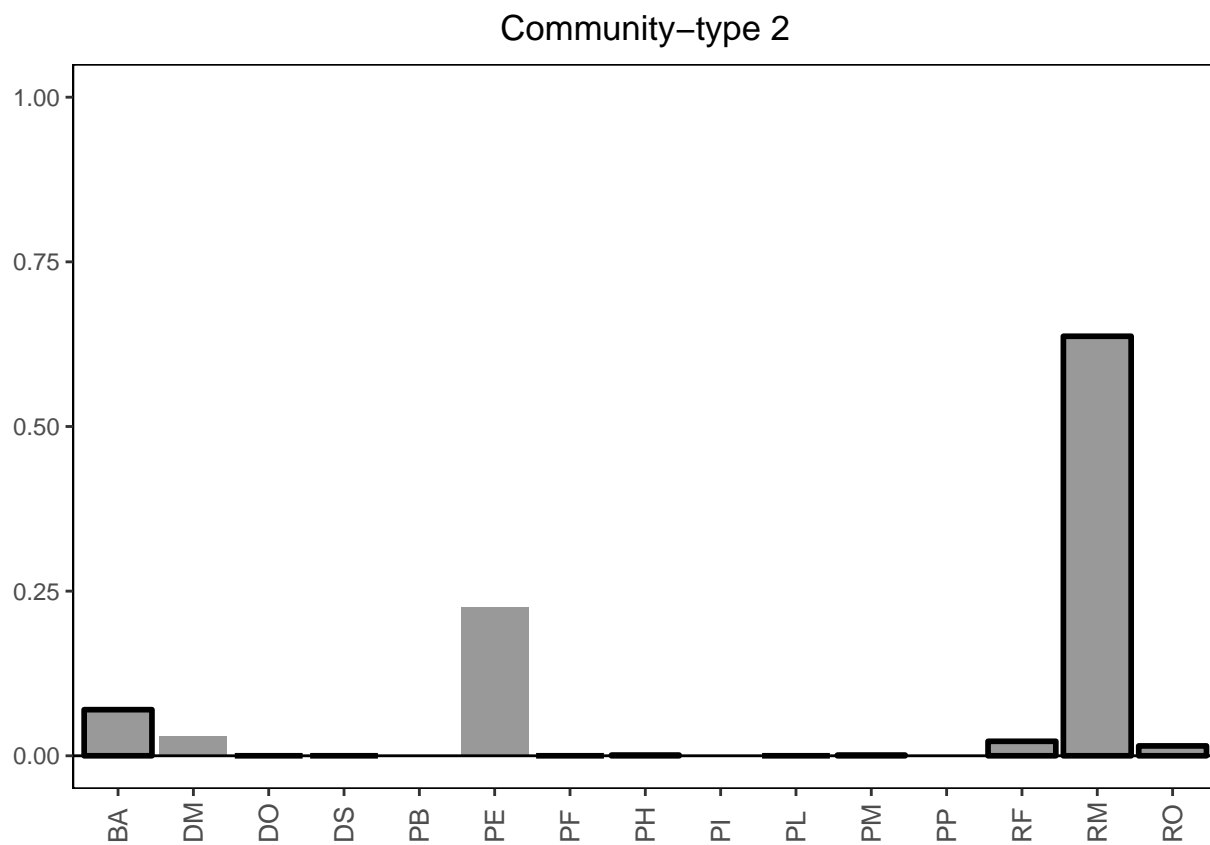
LDA model:



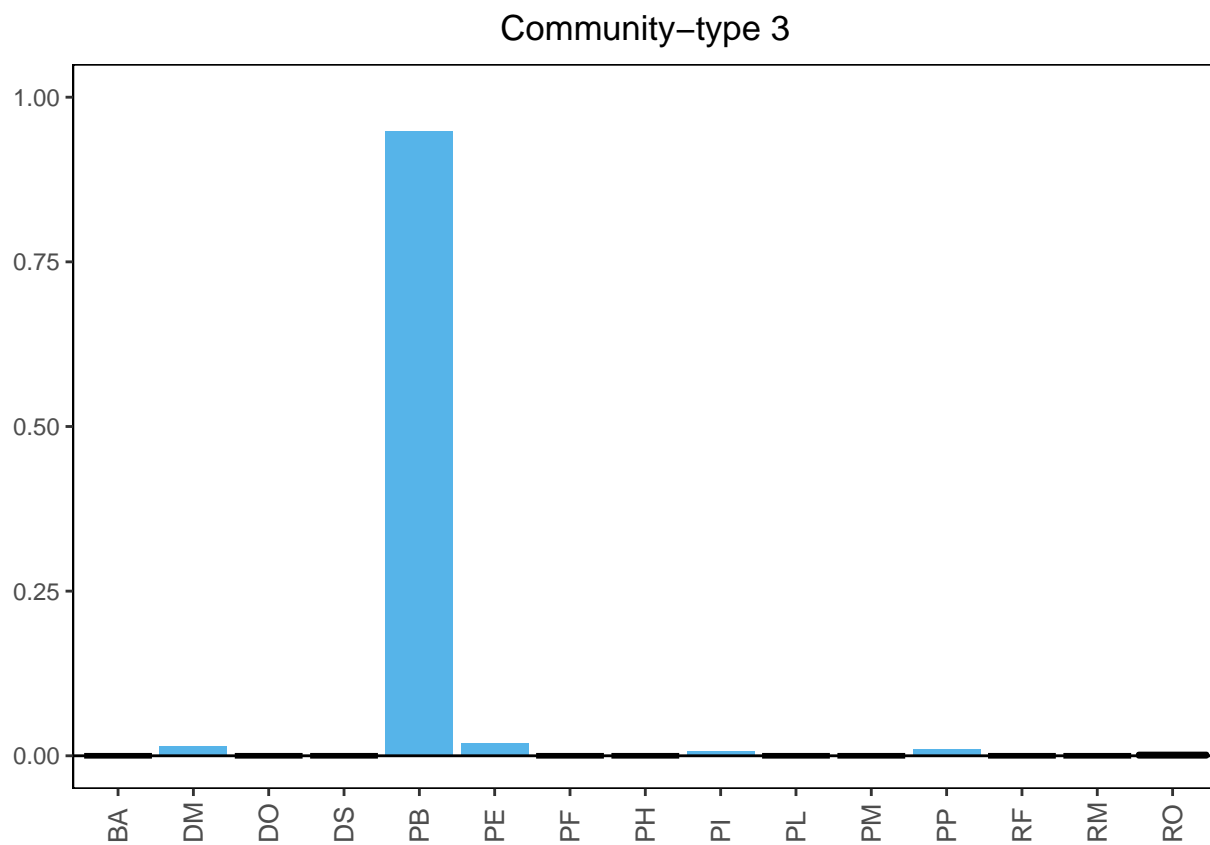
[[1]]



```
##  
## [[2]]
```

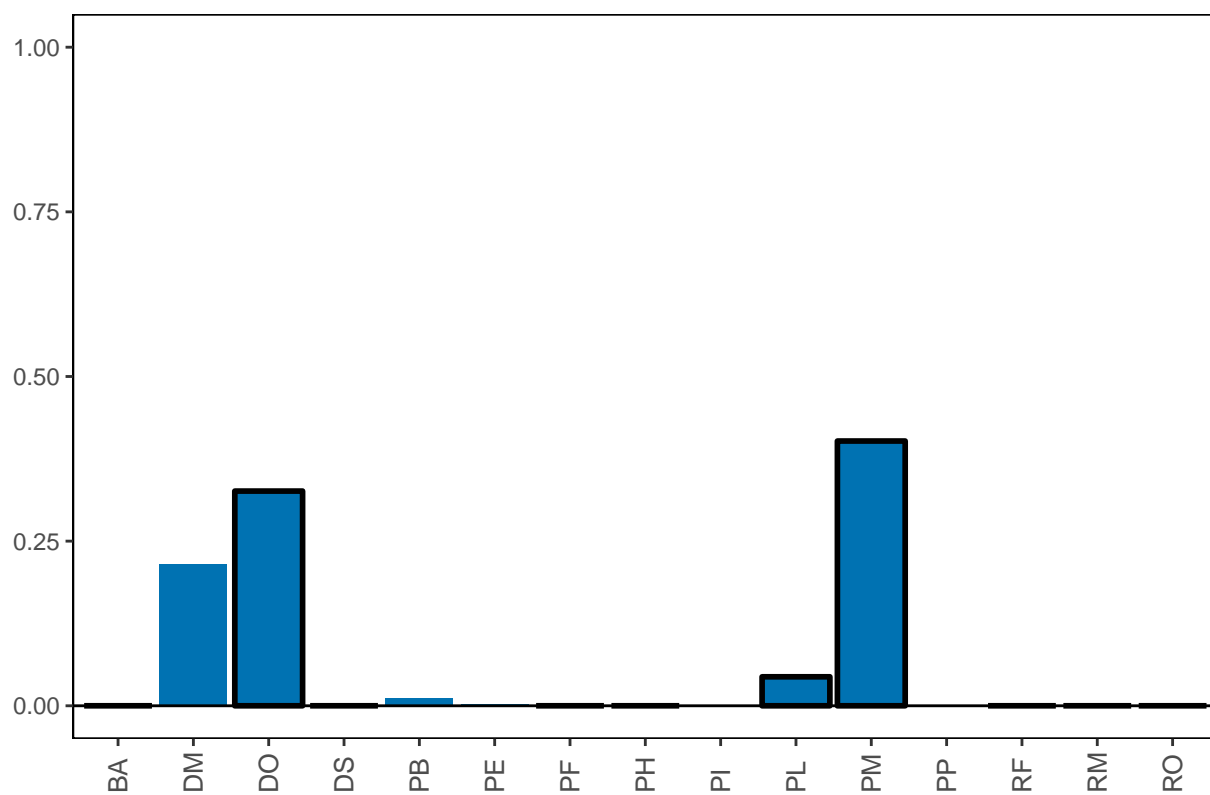


```
##  
## [[3]]
```

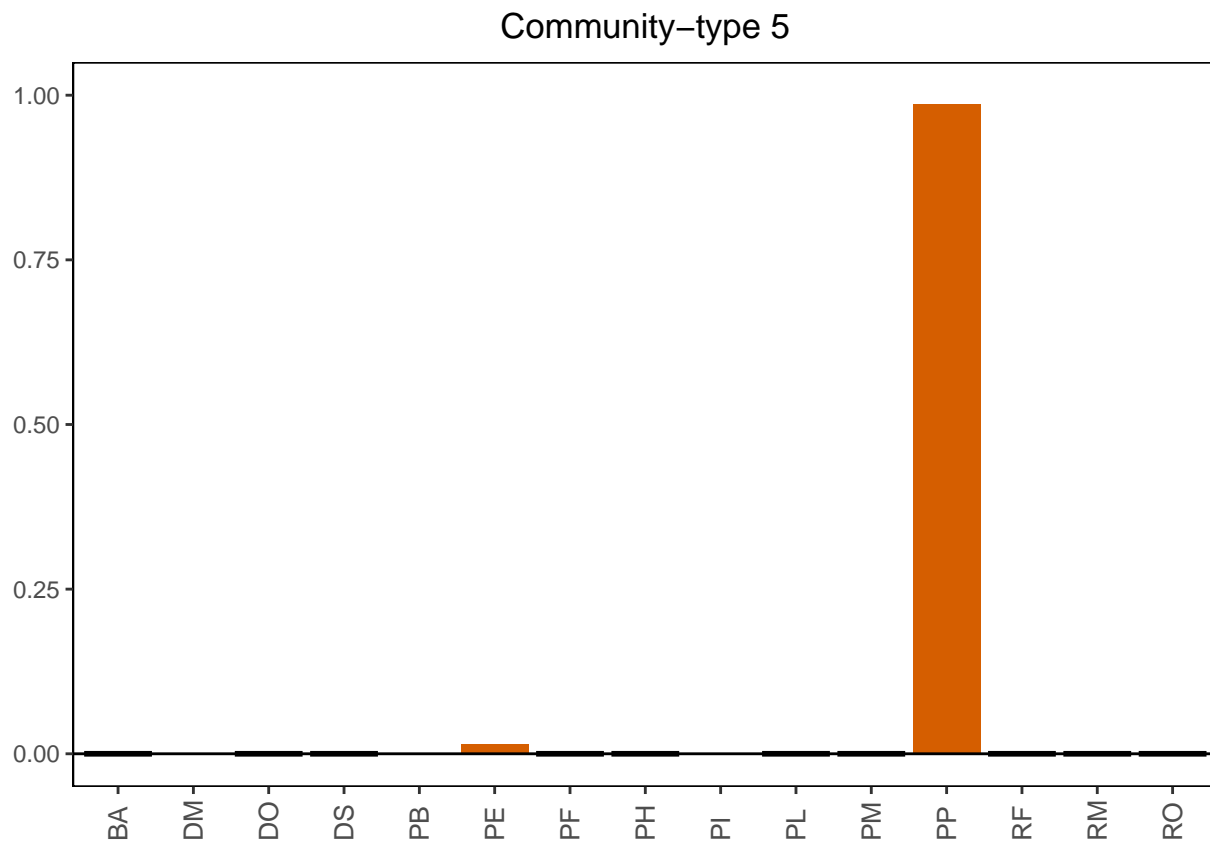


```
##  
## [[4]]
```


Community-type 4



[[5]]



Changepoint model:

	Mean	Median	Lower	Upper	SD	MCMCerr	AC10	ESS
## Changepoint_1	115.39	116	93	141	13.43	0.1350	0.1167	1492.6477
## Changepoint_2	256.34	262	212	287	26.80	0.2694	0.1926	755.3927

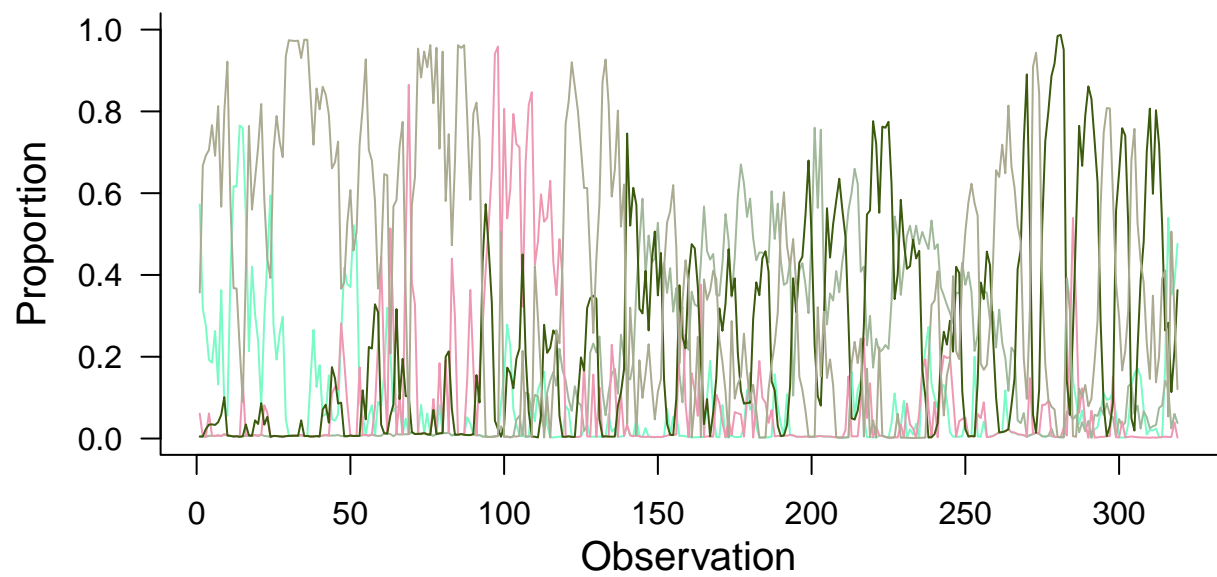
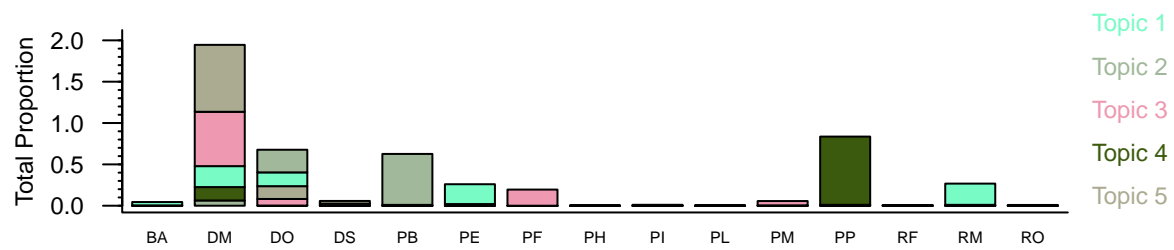
Here are some more diagnostics:

```
## $acceptance_rates
## [1] 0.5788889 0.8097980 0.8881818 0.9147475 0.9271717 0.9245455
##
## $swapping_rates
## [1] 0.2688889 0.5852525 0.8390909 0.9445455 0.9712121
##
## $strip_counts
## [1] 140 137 161 130 160 167
##
## $strip_rates
## [1] 0.01414141 0.01383838 0.01626263 0.01313131 0.01616162 0.01686869
```

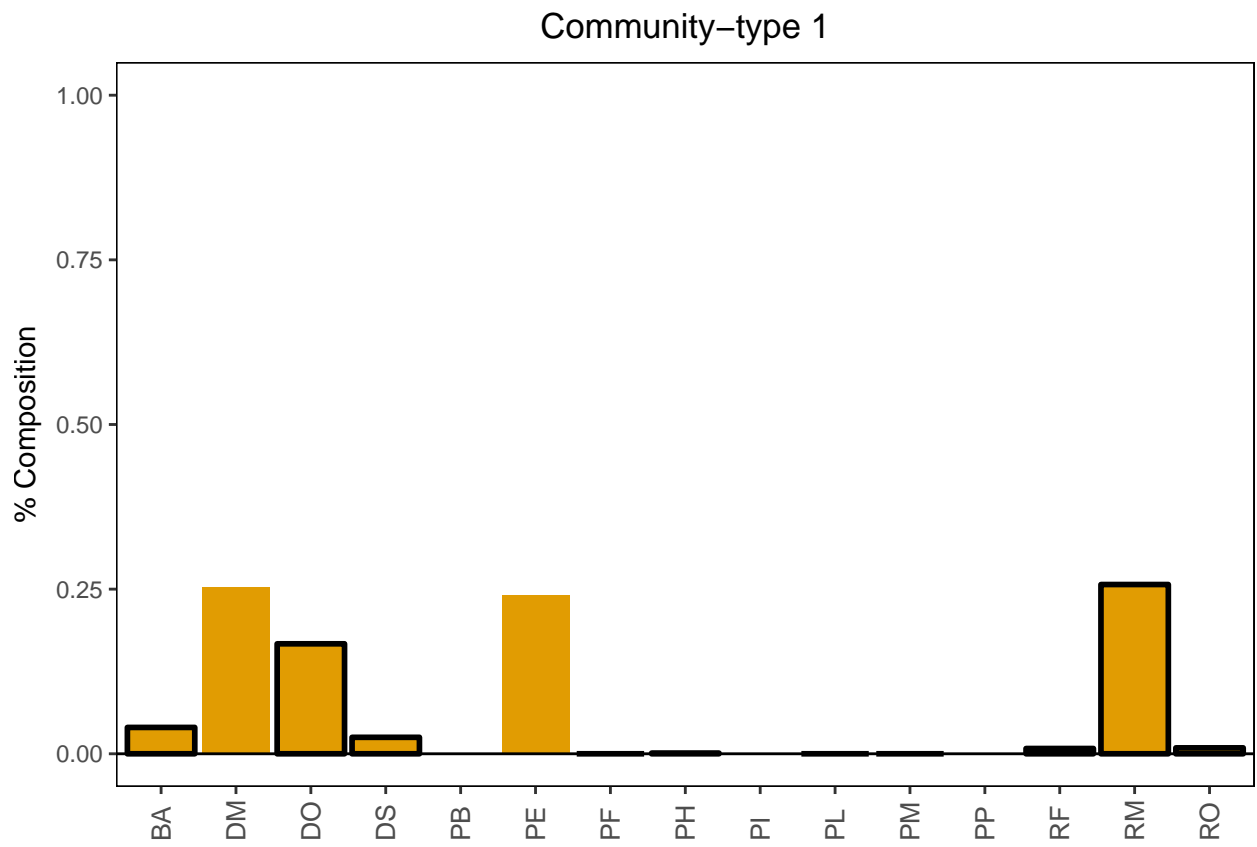
Controls, more plots and less time

```
load('models/ctrl_plots_gran_1e4.Rdata')
```

LDA model:

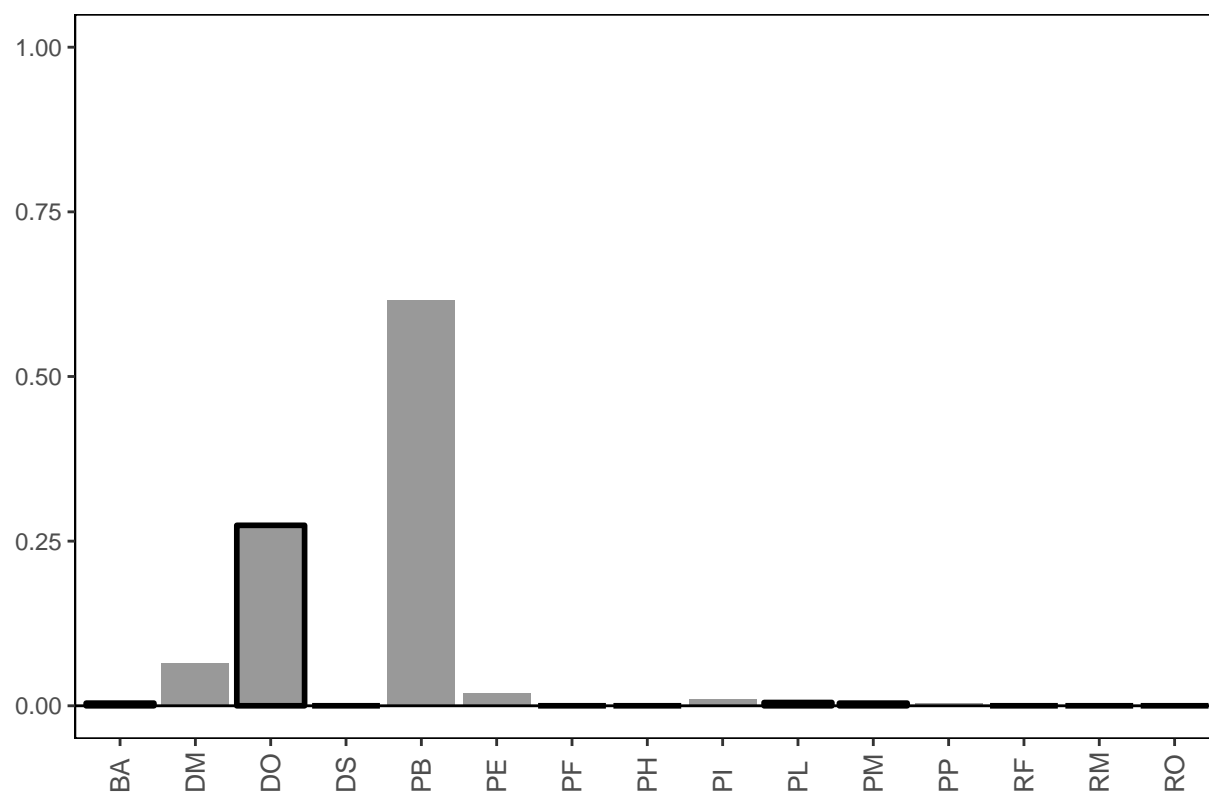


[[1]]



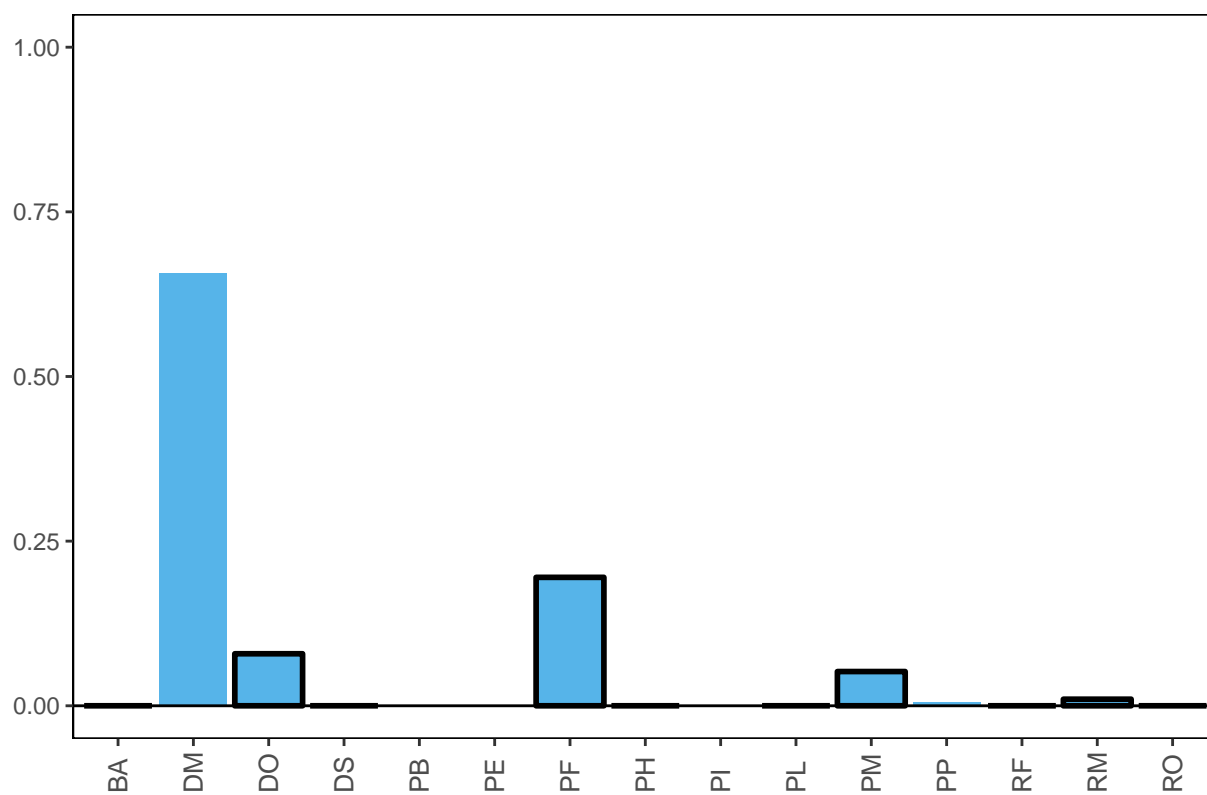
[[2]]

Community-type 2

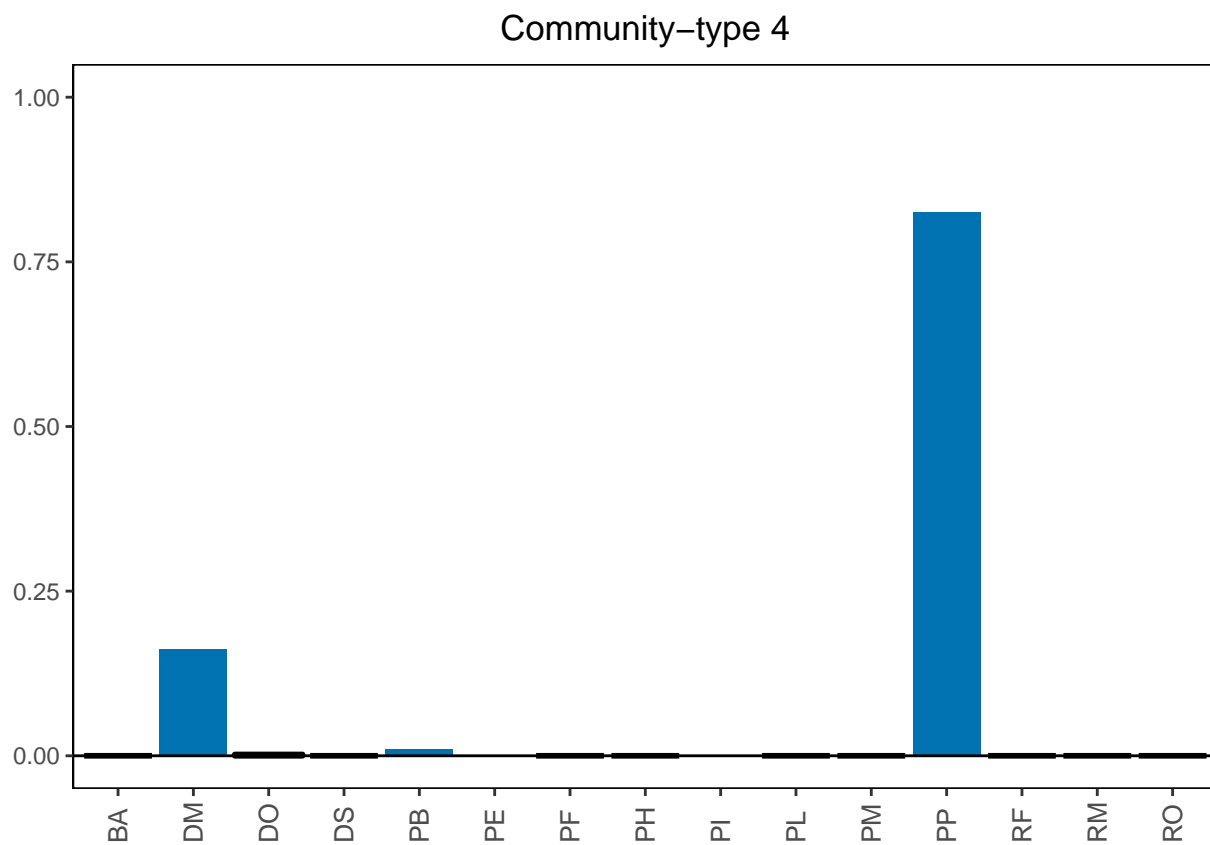


```
##  
## [[3]]
```

Community-type 3

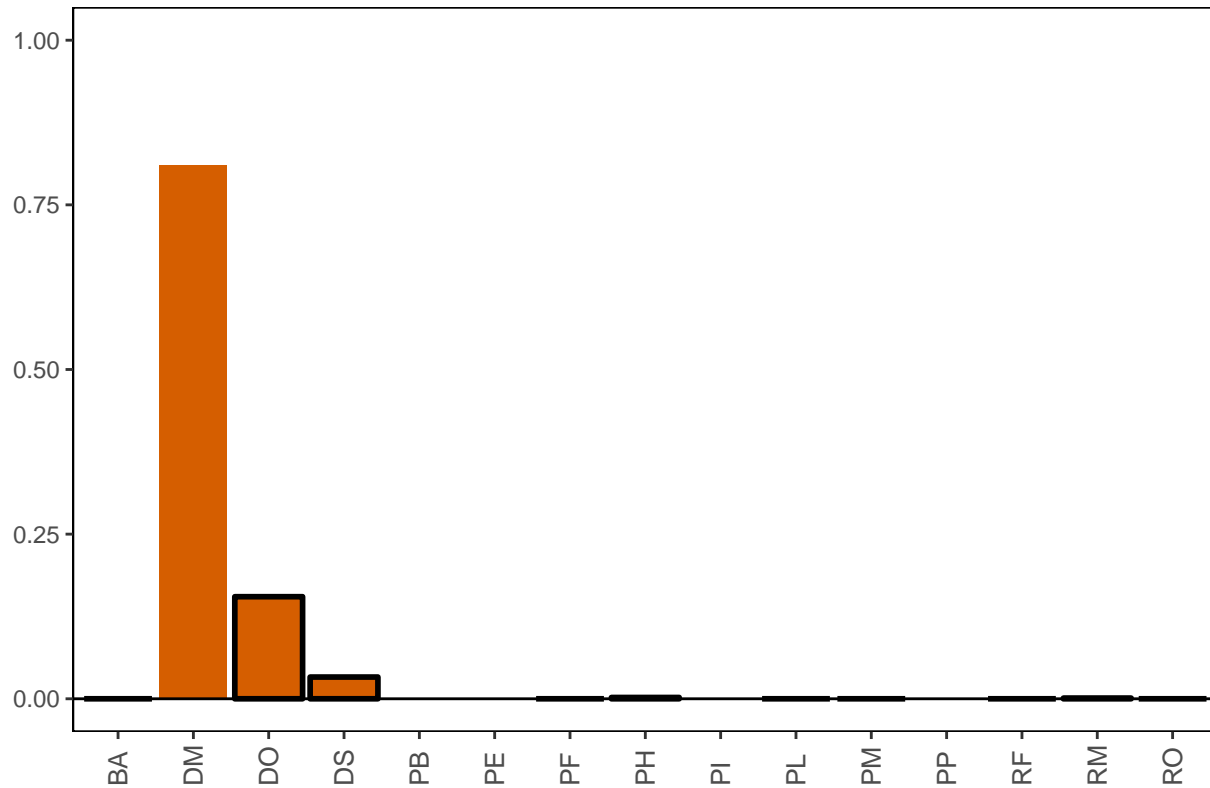


[[4]]



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

Community-type 5



Changepoint model:

	Mean	Median	Lower	Upper	SD	MCMCerr	AC10	ESS
Changepoint_1	113.28	127	44	147	30.99	0.3115	0.313	381.1544
Changepoint_2	225.52	257	115	285	60.30	0.6060	0.364	301.2265

Here are some more diagnostics:

```
## $acceptance_rates
## [1] 0.6321212 0.8244444 0.8913131 0.9158586 0.9214141 0.9197980
##
## $swapping_rates
## [1] 0.3754545 0.6215152 0.8279798 0.9310101 0.9578788
##
## $strip_counts
## [1] 275 259 248 251 300 261
##
## $strip_rates
## [1] 0.02777778 0.02616162 0.02505051 0.02535354 0.03030303 0.02636364
```