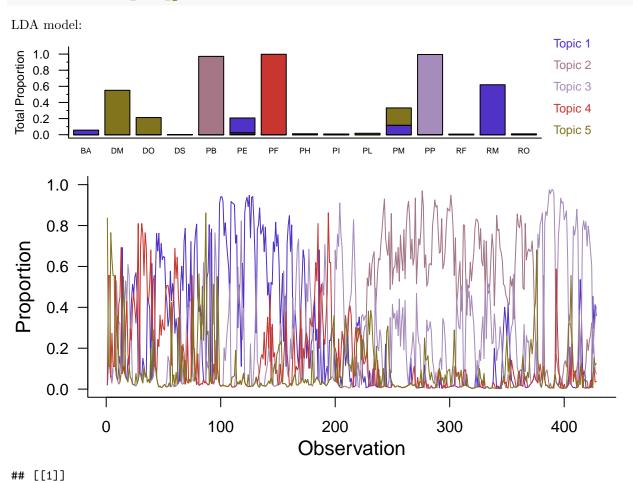
# Results

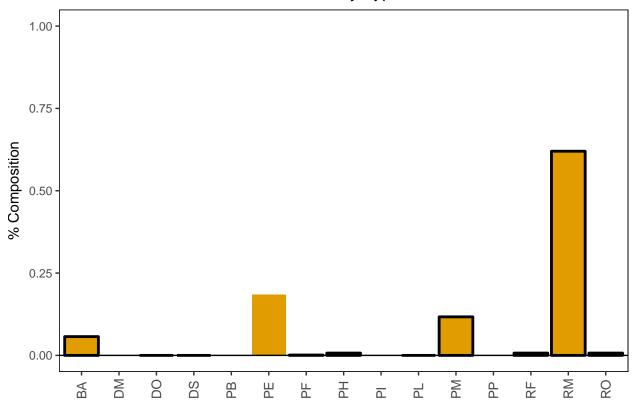
Renata Diaz 5/30/2018

#### Exclosure plots

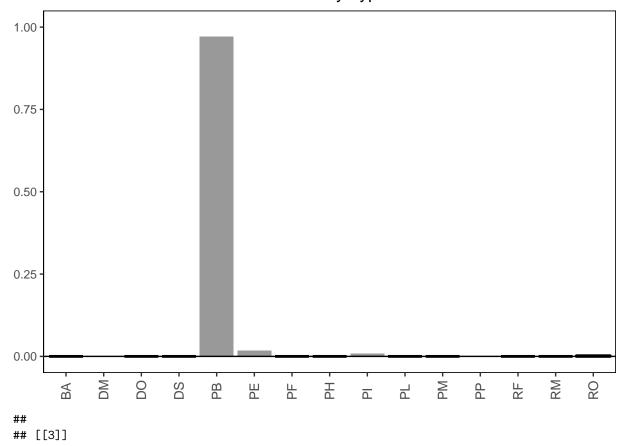
Granivores only, fewer plots (4), full time series.

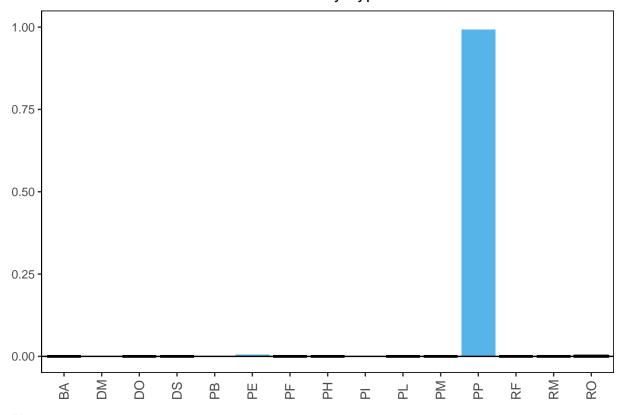
load('models/excl\_time\_gran.Rdata')

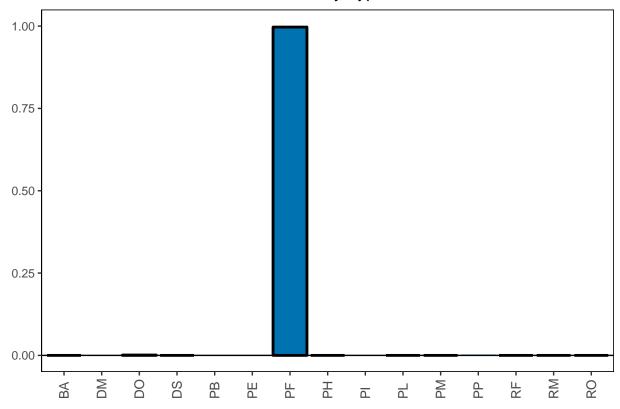




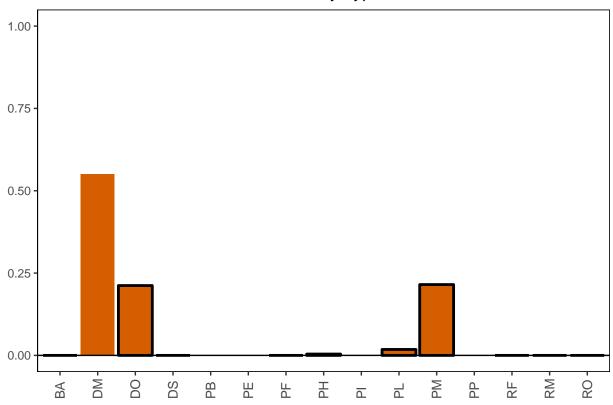
## ## [[2]]







## ## [[5]]



Changepoint model:

```
## Changepoint_1 1974.11 1997.79 1784.789 1999.789 91.57 0.9203 0.5874
## Changepoint_2 2008.44 2009.79 1996.789 2011.789 4.50 0.0452 0.8130
## ESS
## Changepoint_1 39.23734
## Changepoint_2 41.23844
```

For 1e4 iterations, the ESS for the 'best' model is  $\sim 40$  and the autocorrelation is .58 and .81 for the two changepoints. It's also getting a range that extends well before 1977 for the first changepoint. This says to me that we need to run the model for more iterations or tinker with it some other way.

Here are some more diagnostics:

```
## $acceptance_rates
## [1] 0.1236364 0.6030303 0.9063636 0.9601010 0.9710101 0.9738384
##
## $swapping_rates
## [1] 0.1046465 0.2809091 0.8491919 0.9692929 0.9851515
##
## $trip_counts
## [1] 26 9 22 11 32 4
##
## $trip_rates
## [1] 0.0026262626 0.0009090909 0.0022222222 0.0011111111 0.0032323232
## [6] 0.0004040404
```