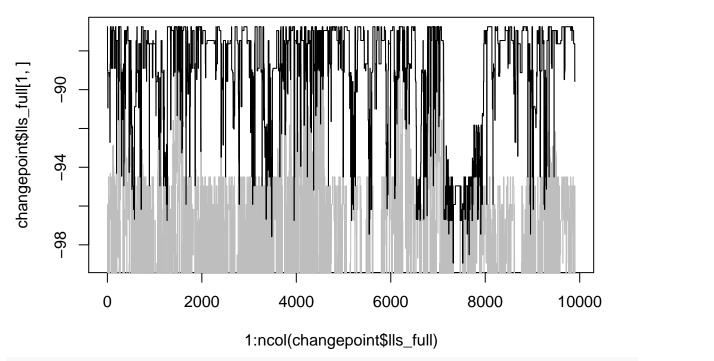
Changepoint diagnostics

Exclosures, 4 plots, full time series

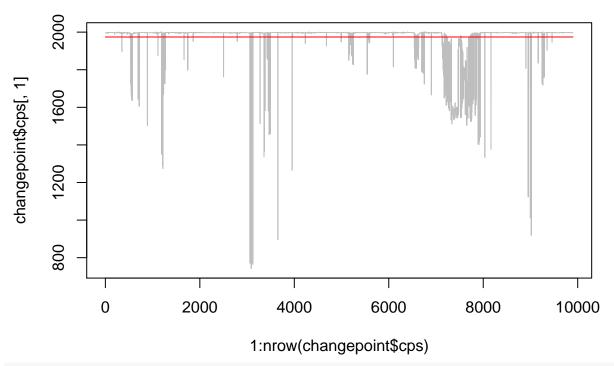
```
load('models/excl_time_gran.Rdata')
summarize cps(changepoint$cps, prob = 0.95)
##
                    Mean Median
                                             Upper
                                                      SD MCMCerr
## Changepoint_1 1974.11 1997.79 1784.789 1999.789 91.57
                                                          0.9203 0.5874
## Changepoint_2 2008.44 2009.79 1996.789 2011.789 4.50
                                                          0.0452 0.8130
##
## Changepoint_1 39.23734
## Changepoint_2 41.23844
plot(1:ncol(changepoint$lls_full), changepoint$lls_full[1, ], type = 'n', main = 'Changepoint lls')
lines(changepoint$lls_full[1, ], col = 'grey')
lines(changepoint$lls_full[2,], col = 'grey')
lines(changepoint$lls_full[3, ], col ='grey')
lines(changepoint$lls_full[4, ], col = 'grey')
lines(changepoint$lls_full[5, ], col = 'grey')
lines(changepoint$lls_full[6, ], col = 'grey')
lines(changepoint$lls, col = 'black')
```

Changepoint IIs



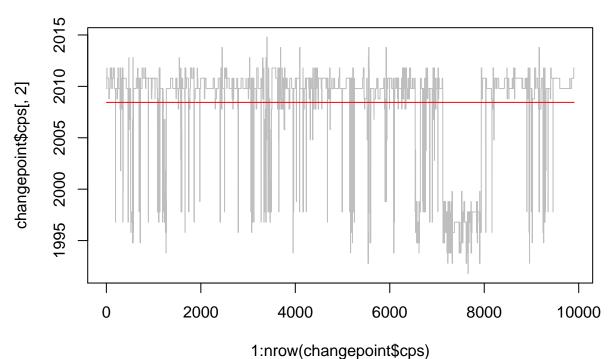
```
plot(1:nrow(changepoint$cps), changepoint$cps[,1], type ='n', main = 'Changepoint 1 estimates')
lines(changepoint$cps[, 1], col = 'grey')
lines(x = 1:nrow(changepoint$cps), y = rep(mean(changepoint$cps[,1]), nrow(changepoint$cps)), col = 're
```

Changepoint 1 estimates



```
plot(1:nrow(changepoint$cps), changepoint$cps[,2], type ='n', main = 'Changepoint 2 estimates')
lines(changepoint$cps[,2], col = 'grey')
lines(x = 1:nrow(changepoint$cps), y = rep(mean(changepoint$cps[,2]), nrow(changepoint$cps)), col = 'reconstruction'
```

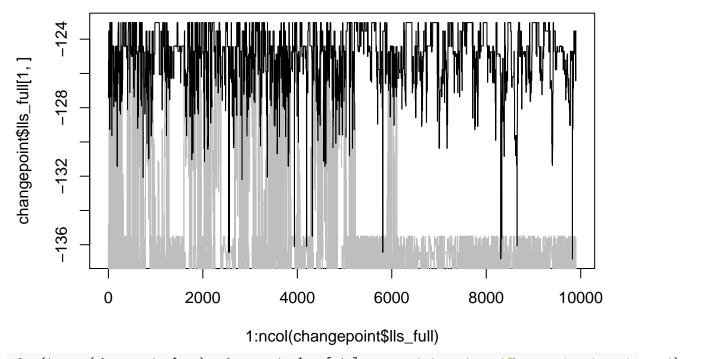
Changepoint 2 estimates



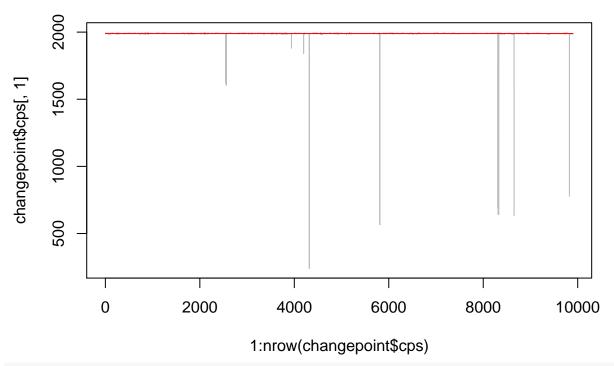
Controls, full time series

```
load('models/ctrl_time_gran.Rdata')
summarize_cps(changepoint$cps, prob = 0.95)
##
                    Mean Median
                                    Lower
                                             Upper
                                                      SD MCMCerr
                                                                    AC10
## Changepoint_1 1989.21 1990.54 1986.537 1993.537 37.73
                                                         0.3792 -0.0003
## Changepoint_2 2000.16 1999.54 1997.537 2003.537 1.90 0.0191 0.3479
## Changepoint_1 4916.5129
## Changepoint_2 457.8272
plot(1:ncol(changepoint$lls_full), changepoint$lls_full[1, ], type = 'n', main = 'Changepoint lls')
lines(changepoint$lls_full[1, ], col = 'grey')
lines(changepoint$lls_full[2,], col = 'grey')
lines(changepoint$lls_full[3, ], col ='grey')
lines(changepoint$lls_full[4, ], col = 'grey')
lines(changepoint$lls_full[5, ], col = 'grey')
lines(changepoint$lls_full[6, ], col = 'grey')
lines(changepoint$lls, col = 'black')
```

Changepoint IIs



Changepoint 1 estimates



```
plot(1:nrow(changepoint$cps), changepoint$cps[,2], type ='n', main = 'Changepoint 2 estimates')
lines(changepoint$cps[,2], col = 'grey')
lines(x = 1:nrow(changepoint$cps), y = rep(mean(changepoint$cps[,2]), nrow(changepoint$cps)), col = 'reconstruction'
```

Changepoint 2 estimates

