DHS downsampling work

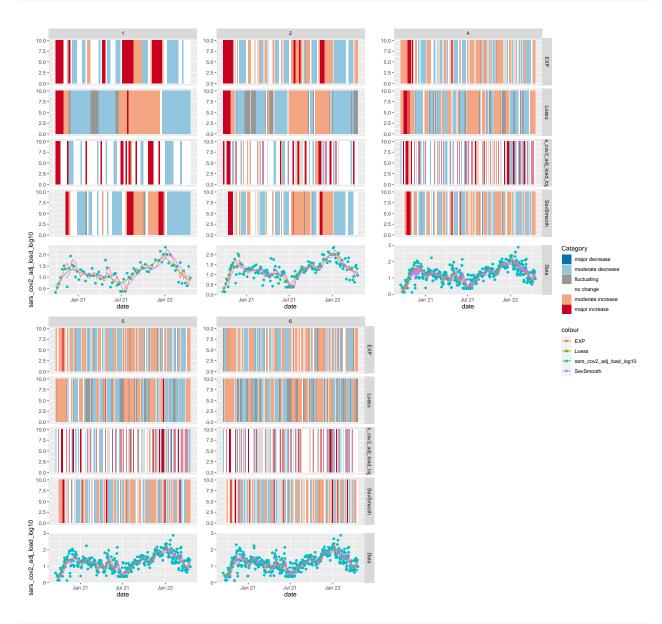
Marlin

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```
library(DSIWastewater)
library(zoo)
library(lubridate)
library(dplyr)
library(tidyr)
library(ggplot2)
source("DownSamplingFuncs.R")
#Analyse day of week effect with new data
#see if mean changes on day of week
#push off to later
#a <- workset4_data%>%
# group_by(date)%>%
# summarise(m = mean(sars_cov2_adj_load_log10))
#1, 4
data(DHSWaste_data, package = "DSIWastewater")
Mad_data <- DHSWaste_data%>%
  buildWorkSheet4()%>%
  filter(WWTP == "Madison MSD WWTF")
Full_Mad_data <- unlist(lapply(1:6,  # Get all combinations
              combinat::combn,
              x = 1:6,
              simplify = FALSE),
       recursive = FALSE)%>%
  lapply(FUN = PrepDataSmoothings,
         DF = Mad_data)%>%
  bind_rows()
Full_reg_data <- Full_Mad_data%>%
                          buildRegressionEstimateTable(
                               RunOn = c("sars_cov2_adj_load_log10",
                                "SevSmooth",
                                "EXP",
                                "Loess"),
                               SplitOn = "TrueName")%>%
  mutate(data = nchar(TrueName))
```

```
sliceVec <- c("2","25","1235","1256","12356","123456")
Singular_Mad_data <- Full_Mad_data%>%
  filter(TrueName %in% sliceVec)

Singular_reg_data <- Full_reg_data%>%
  filter(TrueName %in% sliceVec)
```



Messure_reg_estimates_data <- Full_reg_data%>%
 prepDataForMessure(BreakOn = "data")

