

DHS downsampling to Interceptor

Marlin

2022-07-11

This analysis seeks to answer whether the DHS method is robust when reducing the number of measurements. We do this by running the analysis with the different smoothing on both the original Madison data and the data downsampled to only the days with the 5 sub interceptor measurements.

```
## [1] 380000 106791 89139 83127 42734 70024
```

The interceptors were measured on Monday and Thursday with around 65 total measurements on each of the two days

```
## # A tibble: 2 x 2
##   Wday      n
##   <ord> <int>
## 1 Mon      65
## 2 Thu      64
```

this is the plot showing the results of the DHS methods. the downsampled results show a similar ability to keep track of the major trend.

