DHS analysis using reproducible package

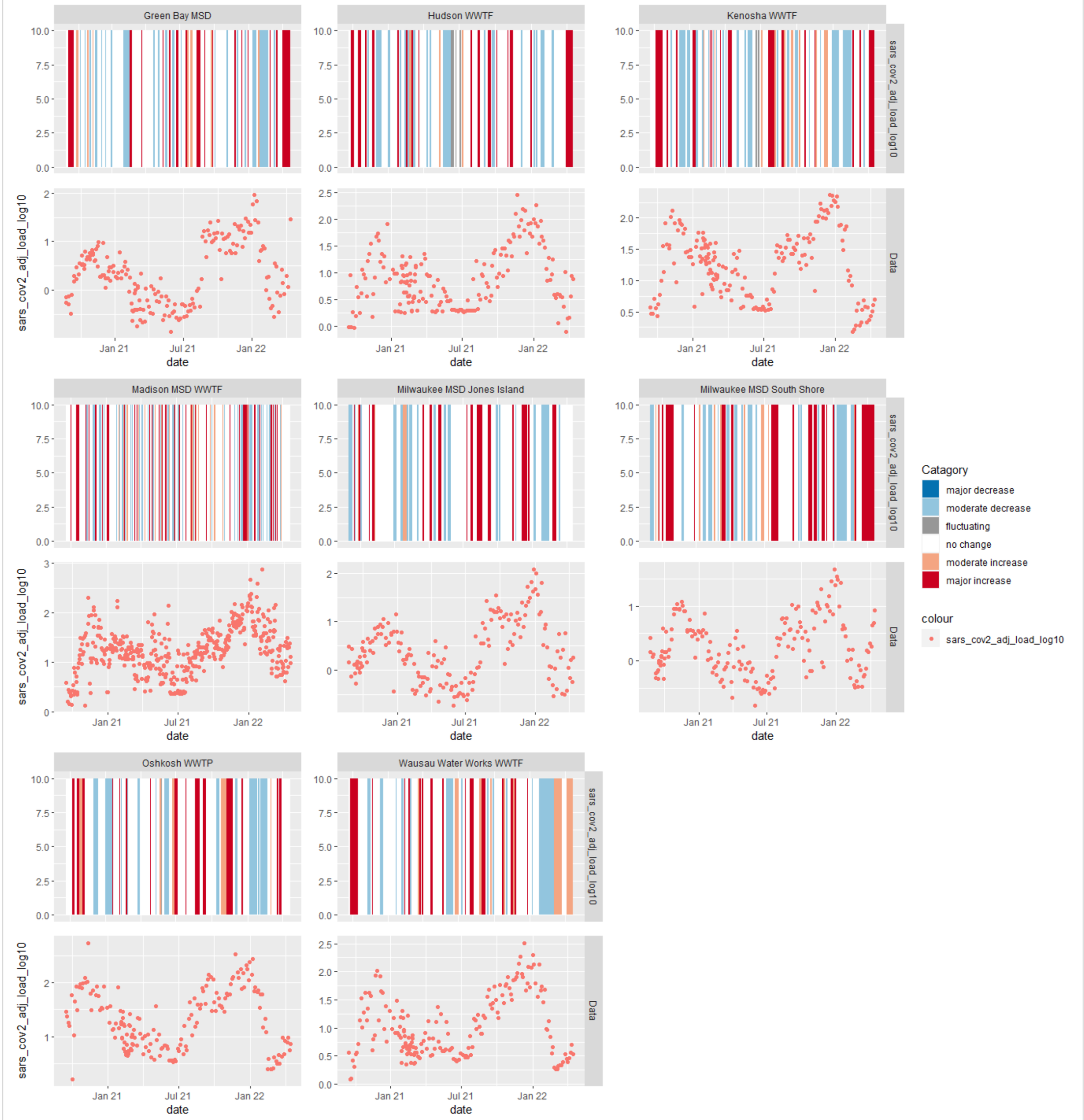
```
library(DSIWastewater)
```

```
data(wastewater_data, package = "DSIWastewater")

workset4_data <- buildWorkSheet4(wastewater_data)

#Only show Site with more than 180 measurements for vignette for brevity
workset4_data <- workset4_data[workset4_data$n >= 180,]
```

```
reg_estimates_data <- buildRegressionEstimateTable(workset4_data)
head(reg_estimates_data)
```

```
## # A tibble: 6 × 9
##   WWTP          Method     date       days_elapsed lmreg_n lmreg_slope lmreg_sig
##   <chr>         <chr>      <date>            <dbl>   <int>       <dbl>     <dbl>
## 1 Green Bay MSD sars_cov2… 2020-09-06           14       5    -0.0163     0.230
## 2 Green Bay MSD sars_cov2… 2020-09-07           14       5    -0.00815    0.636
## 3 Green Bay MSD sars_cov2… 2020-09-13           14       5     0.0242     0.323
## 4 Green Bay MSD sars_cov2… 2020-09-14           14       5     0.0363     0.202
## 5 Green Bay MSD sars_cov2… 2020-09-20           14       5     0.0460     0.0894
## 6 Green Bay MSD sars_cov2… 2020-09-21           14       5     0.0314     0.0553
## # … with 2 more variables: modeled_percentchange <dbl>, Catagory <fct>
```

```
createDHSMethod_Plot(reg_estimates_data, workset4_data)
```




```
reg_estimates_Reduced_data <- reg_estimates_data[
                                reg_estimates_data$WWTP == "Madison MSD WWTF",
                                ]

workset4_Reduced_data <- workset4_data[
                               workset4_data$WWTP == "Madison MSD WWTF",
                               ]
```

```
createDHSMethod_Plot(reg_estimates_Reduced_data, workset4_Reduced_data)
```