

CaseRegression

Marlin

2022-07-27

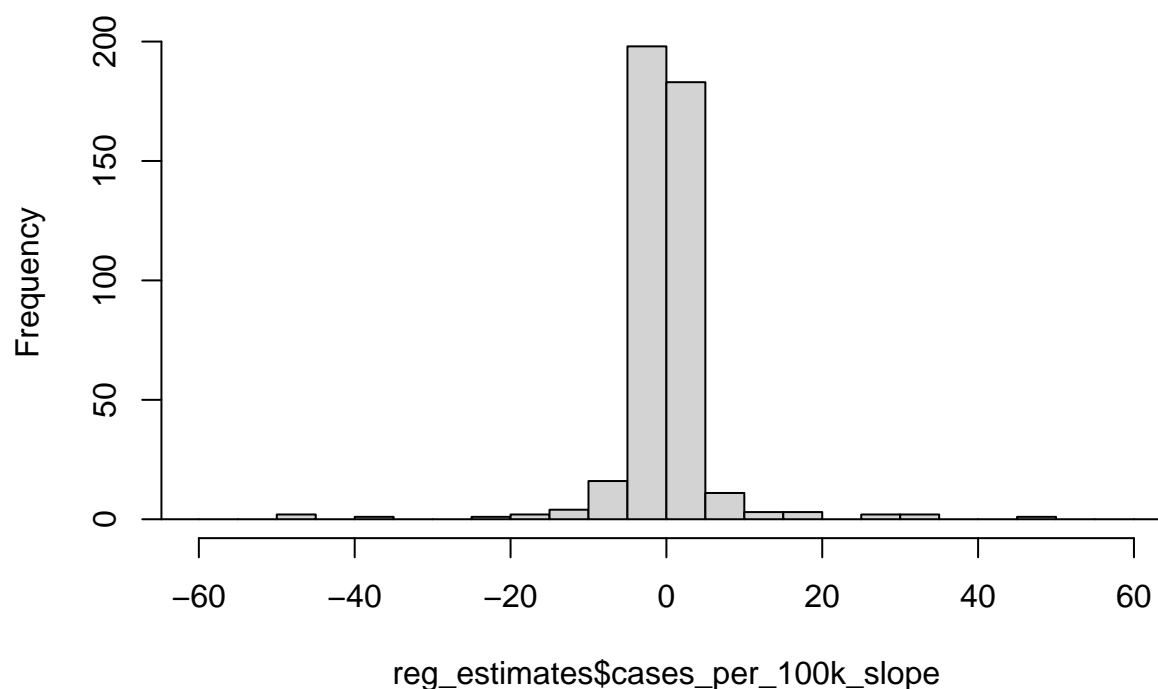
```
## [1] 1

## # A tibble: 6 x 10
## # Groups:   WWTP [1]
##   date      WWTP  cases cases~1 pastw~2 pastw~3 variant mean_~4 pastw~5 pastw~6
##   <date>    <chr> <int>  <dbl>  <dbl>  <int> <chr>    <dbl>  <dbl>  <dbl>
## 1 2021-02-01 Madi~    40   10.5   84.7   593 Alpha/~ 380000   22.3   156.
## 2 2021-02-02 Madi~    65   17.1   86.1   603 Alpha/~ 380000   22.7   159.
## 3 2021-02-03 Madi~   159   41.8   85.4   598 Alpha/~ 380000   22.5   157.
## 4 2021-02-04 Madi~    93   24.5    85   595 Alpha/~ 380000   22.4   157.
## 5 2021-02-05 Madi~    76    20    81   567 Alpha/~ 380000   21.3   149.
## 6 2021-02-06 Madi~    64   16.8   78.4   549 Alpha/~ 380000   20.6   144.
## # ... with abbreviated variable names 1: cases_per_100k,
## #   2: pastwk.avg.casesperday, 3: pastwk.sum.casesperday, 4: mean_pop_served,
## #   5: pastwk.avg.casesperday.per100k, 6: pastwk.sum.casesperday.per100k

##       date      Site FirstConfirmed FirstConfirmed.Per100K
## 1 2021-02-01 Madison          40          10.52632
## 2 2021-02-02 Madison          65          17.10526
## 3 2021-02-03 Madison         159          41.84211
## 4 2021-02-04 Madison          93          24.47368
## 5 2021-02-05 Madison          76          20.00000
## 6 2021-02-06 Madison          64          16.84211
##   pastwk.sum.casesperday.Per100K
## 1          156.0526
## 2          158.6842
## 3          157.3684
## 4          156.5789
## 5          149.2105
## 6          144.4737

## [1] "Madison"
```

Histogram of reg_estimates\$cases_per_100k_slope

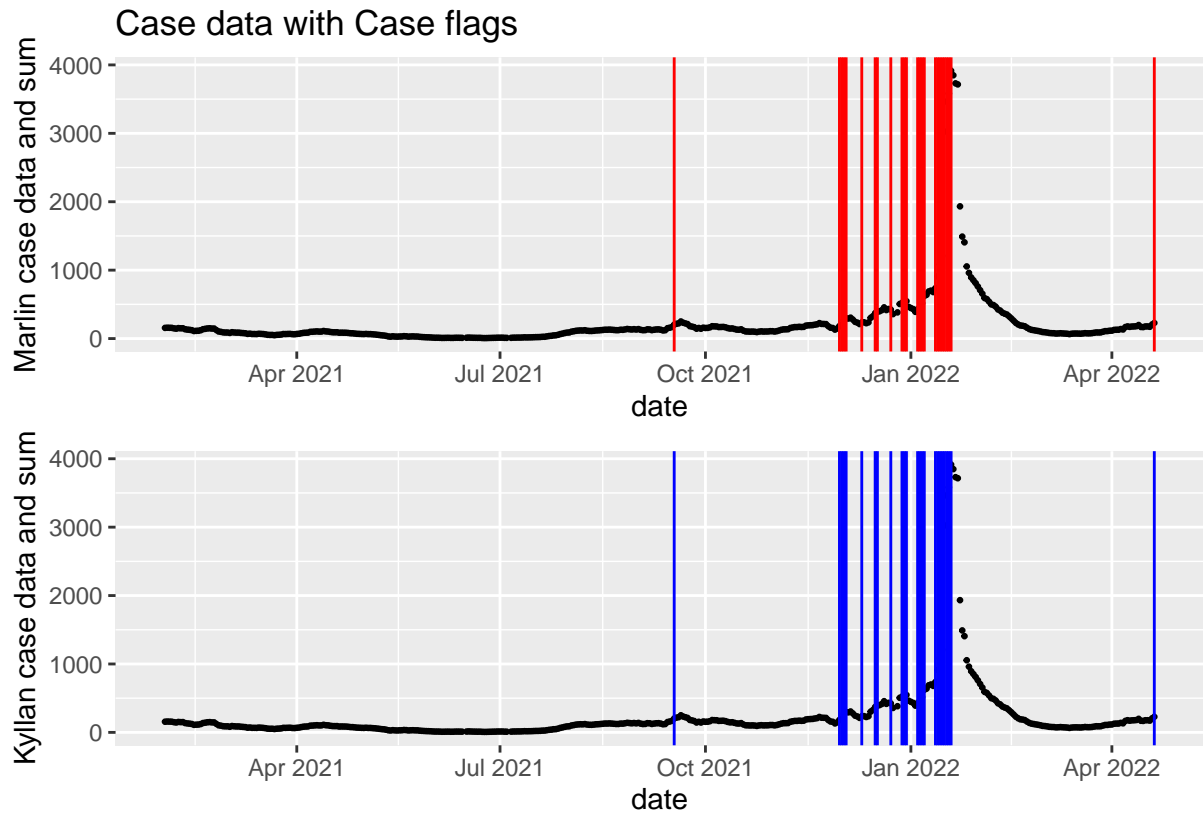


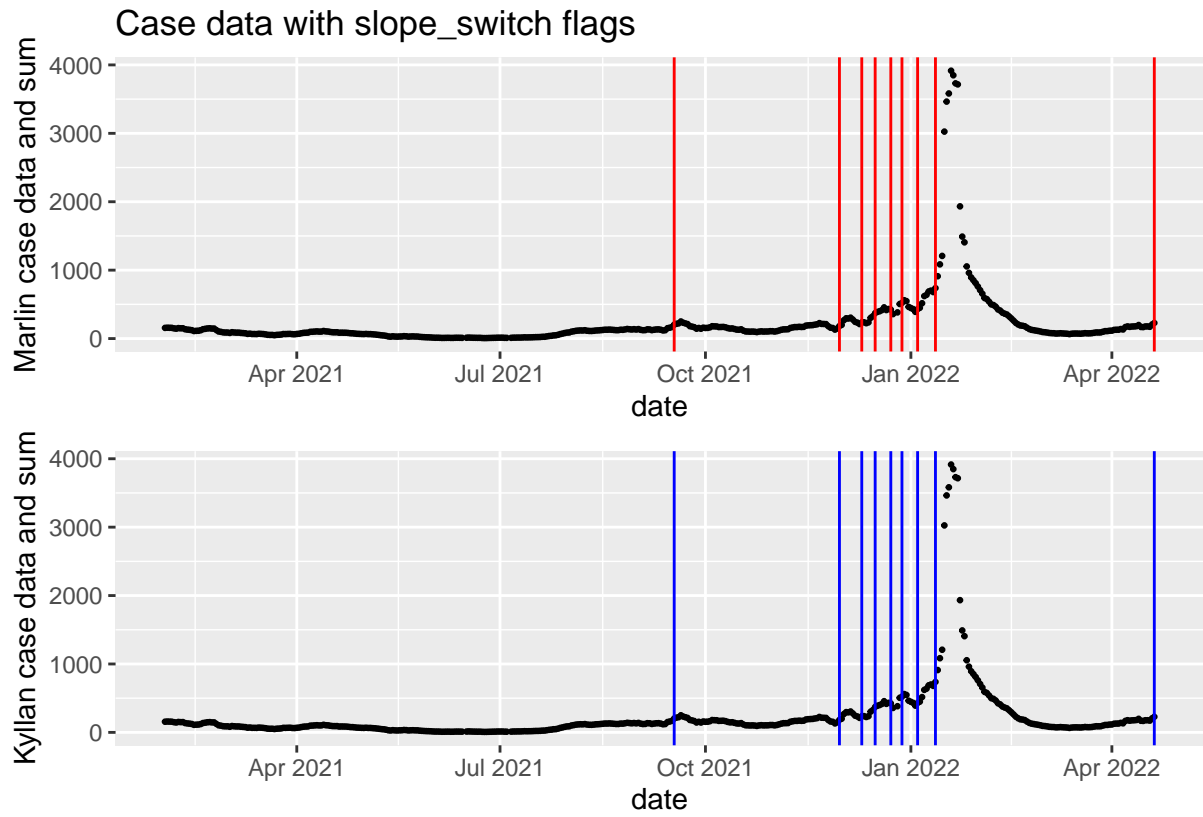
```
##      Min.    1st Qu.    Median      Mean   3rd Qu.     Max.
## -217.39662  -1.14192  -0.03759   0.01707   0.88816  195.93985

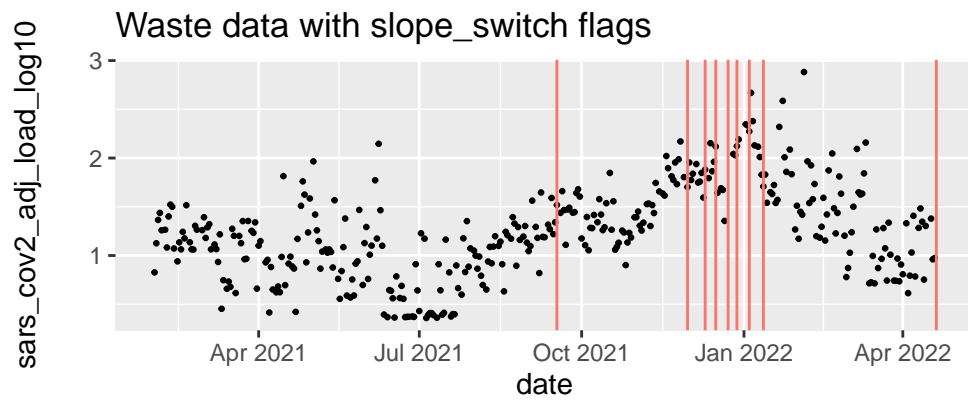
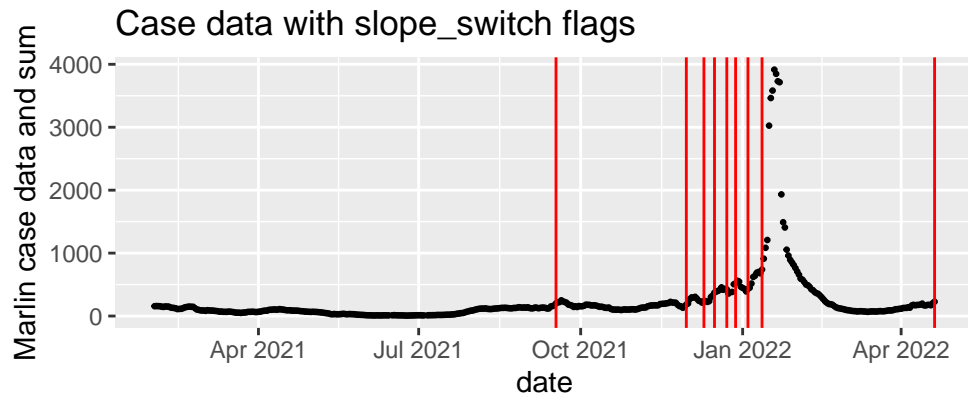
## [1] "Madison"           "FirstConfirmed.Per100K"

## # A tibble: 1 x 9
##   days_elapsed lmreg_n lmreg_s~1 lmreg~2 model~3 pastw~4 case_~5 case_~6 slope~7
##   <dbl>    <int>    <dbl>    <dbl>    <dbl>    <dbl>    <dbl>    <dbl>    <dbl>
## 1      NA      NA      NA      NA      NA  99630      25      23      9
## # ... with abbreviated variable names 1: lmreg_slope, 2: lmreg_sig,
## #   3: modeled_percentchange, 4: pastwk.sum.casesperday.Per100K, 5: case_flag,
## #   6: case_flag_plus_comm.threshold, 7: slope_switch_flag

## # A tibble: 1 x 4
##   WWTTP case_flag case_flag_plus_comm.threshold slope_switch_flag
##   <chr>    <int>                                <int>            <int>
## 1 Madison      25                                23              9
```







colour
Marlin flag