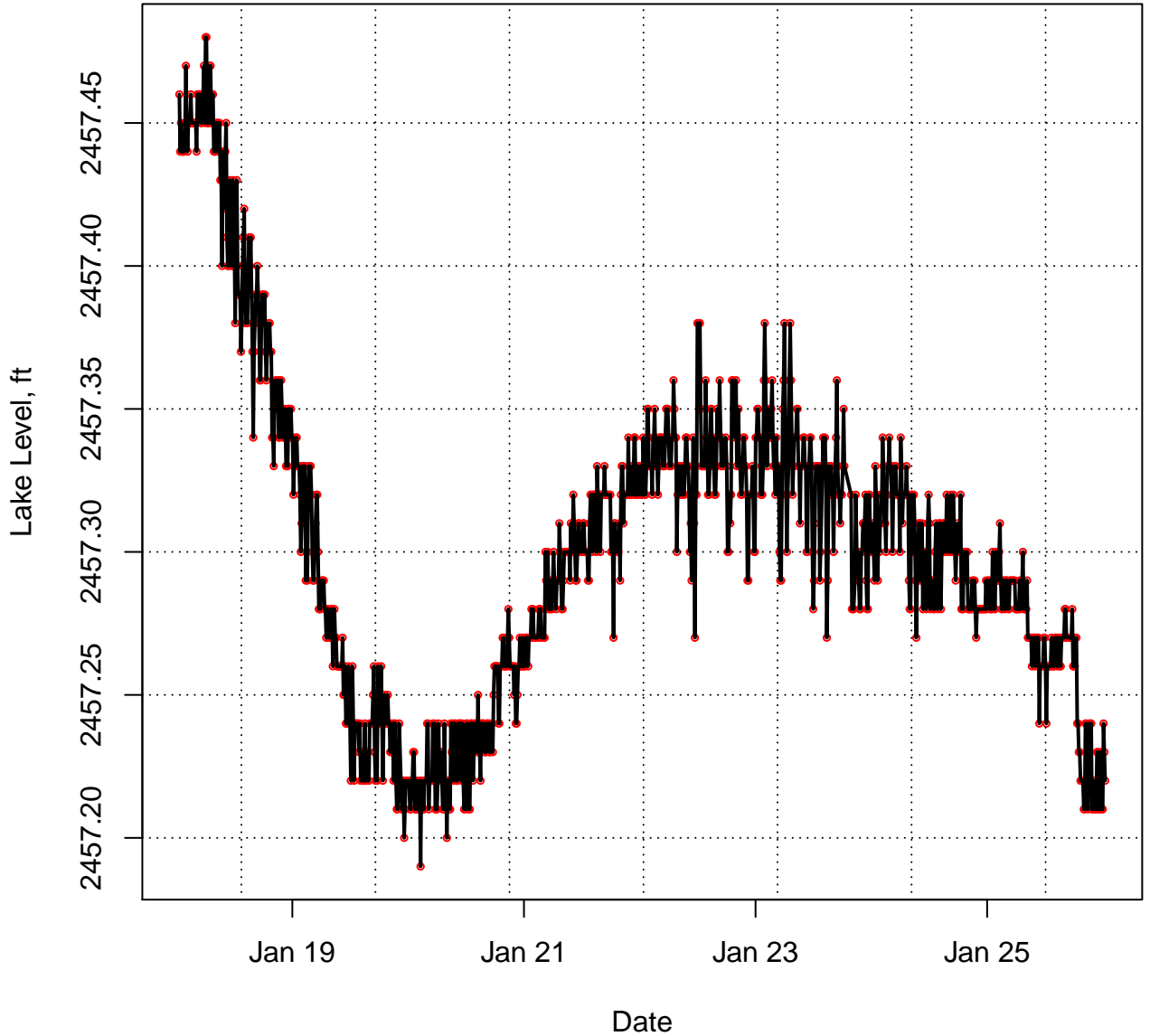
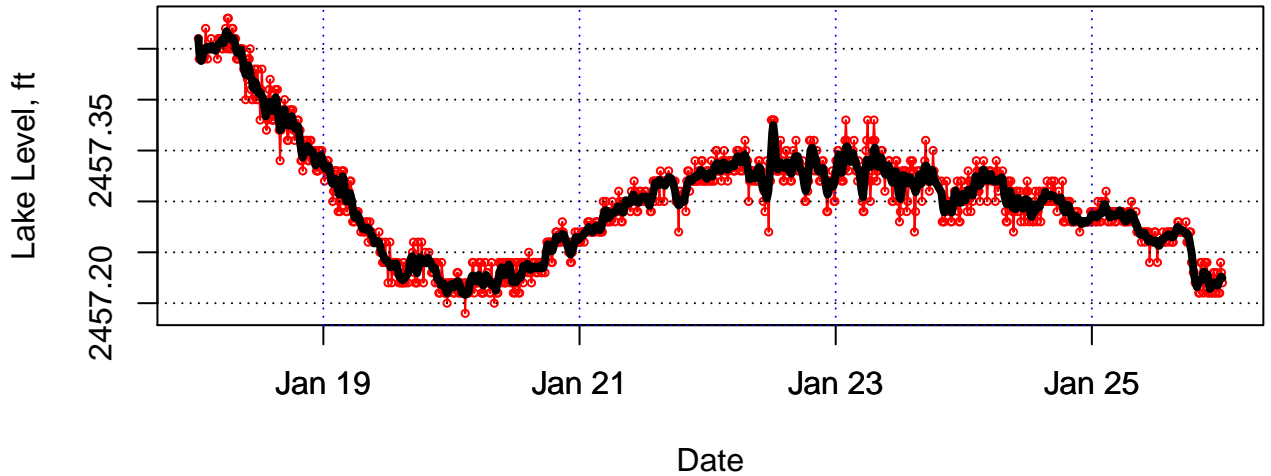


# Original Raw Data; Jan 2018

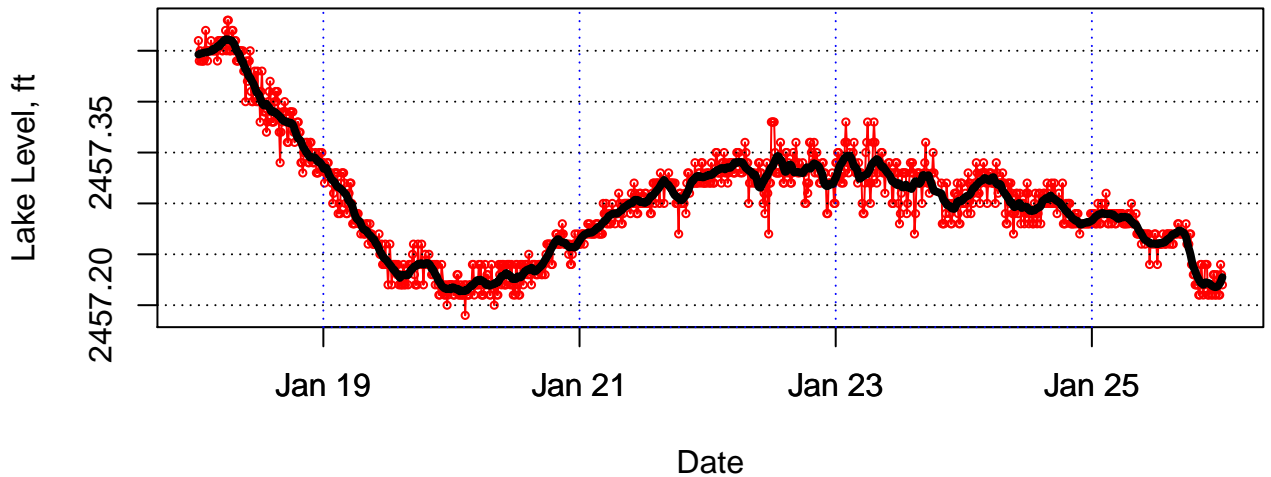


## Savitsky–Golay smoothing filter With $n = 11$



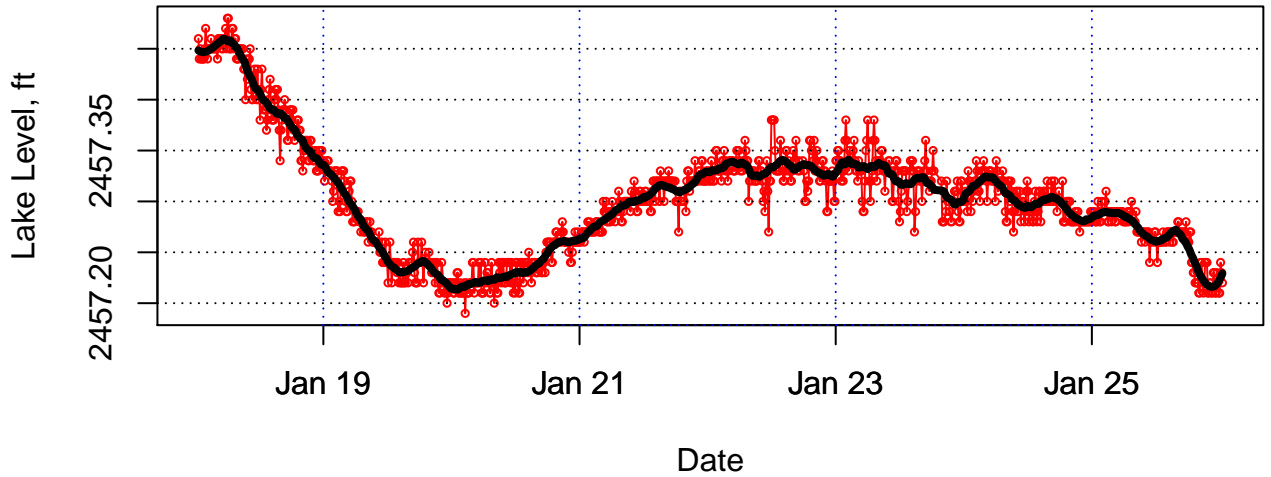
Done with: smoothing\_data.R PLV:2018-01-30

## Savitsky–Golay smoothing filter With $n = 31$



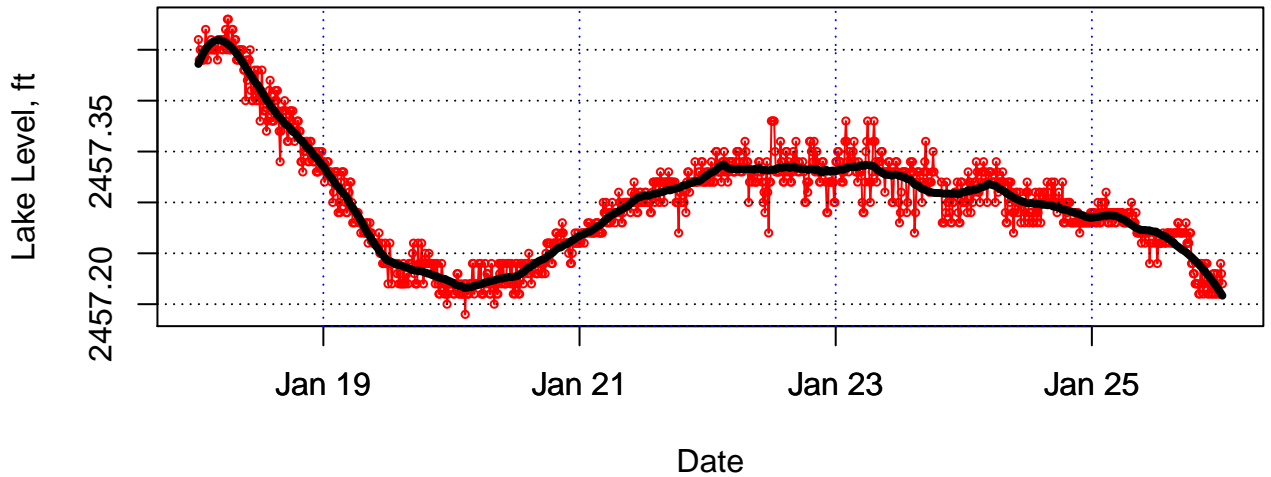
Done with: smoothing\_data.R PLV:2018-01-30

## Savitsky–Golay smoothing filter With $n = 51$



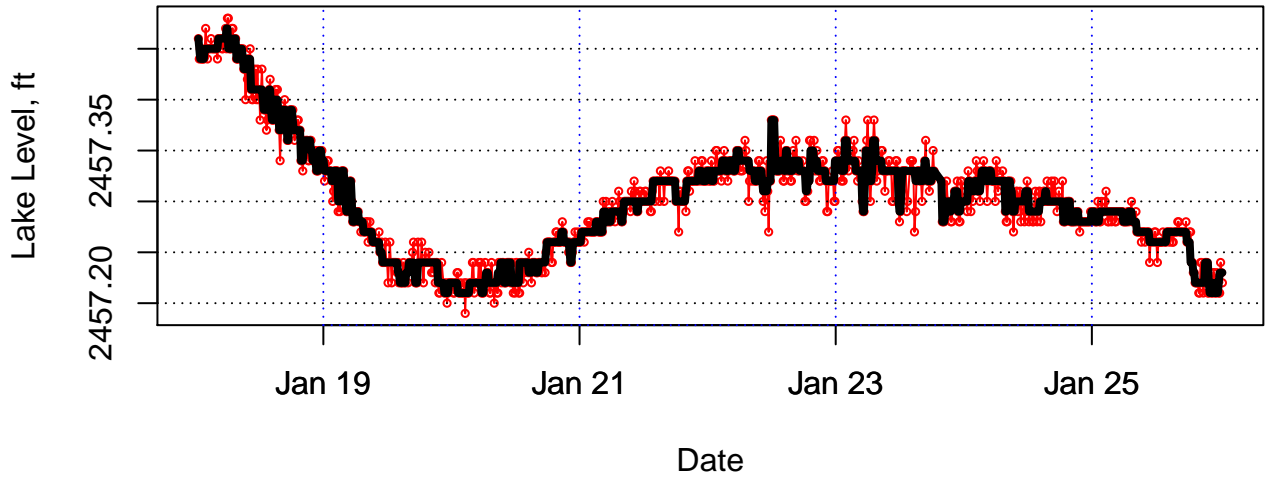
Done with: `smoothing_data.R` PLV:2018-01-30

## Savitsky–Golay smoothing filter With $n = 101$

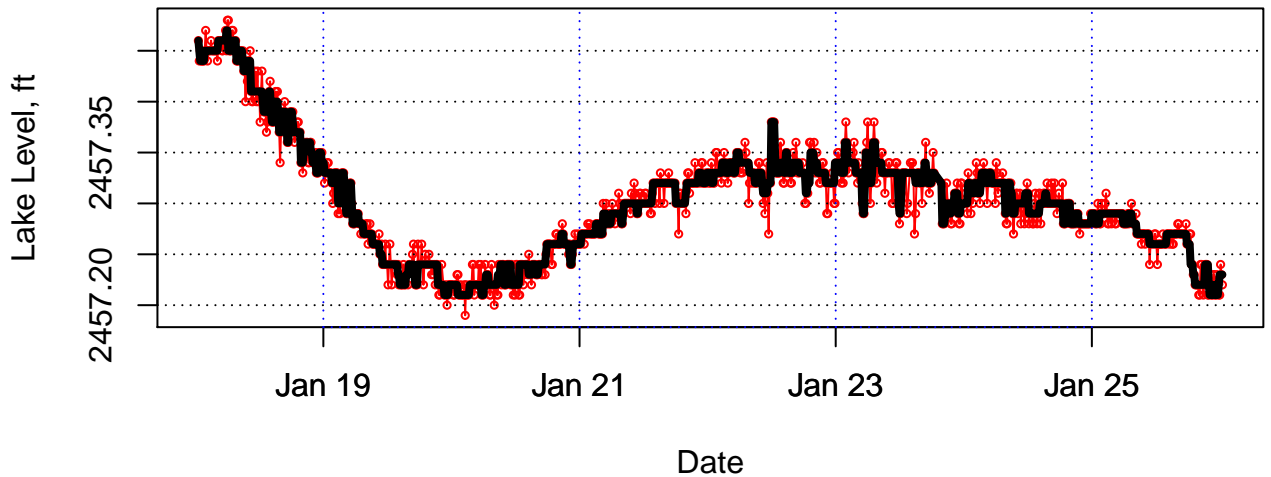


Done with: `smoothing_data.R` PLV:2018-01-30

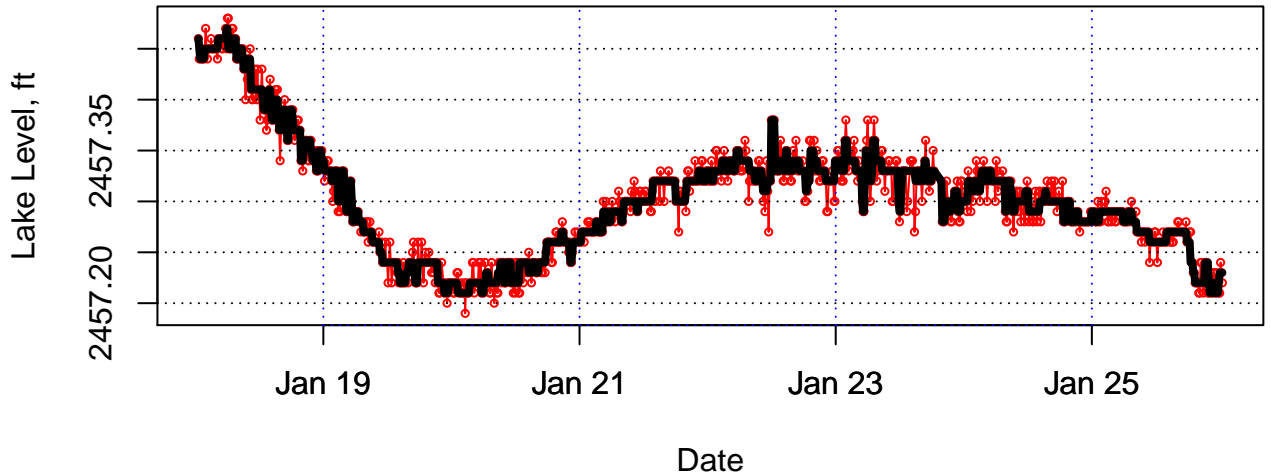
## Tukey Smoothing with 3RS3R Algorithm



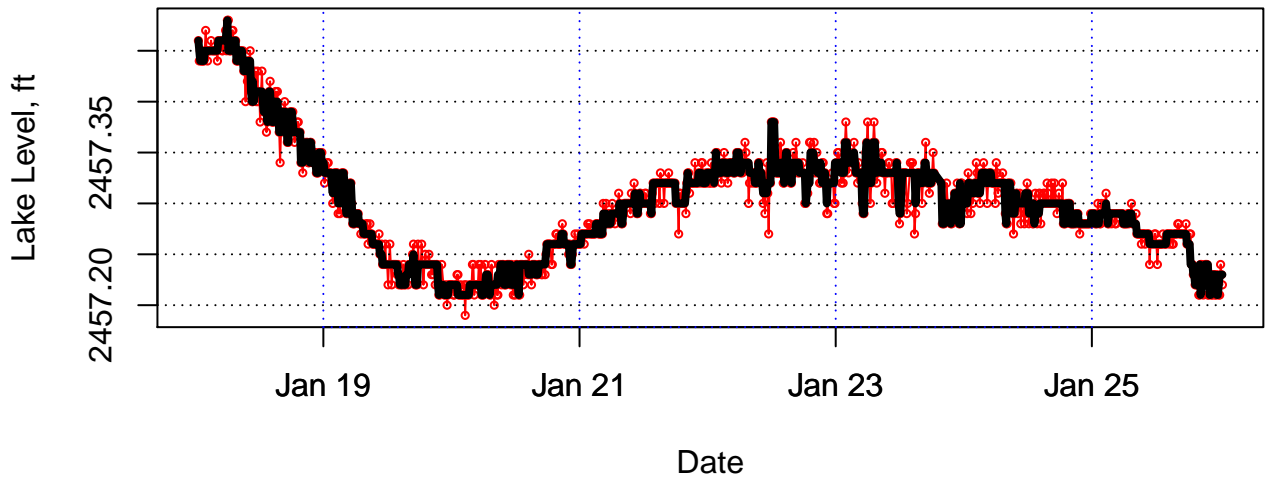
## Tukey Smoothing with 3RS3R Algorithm



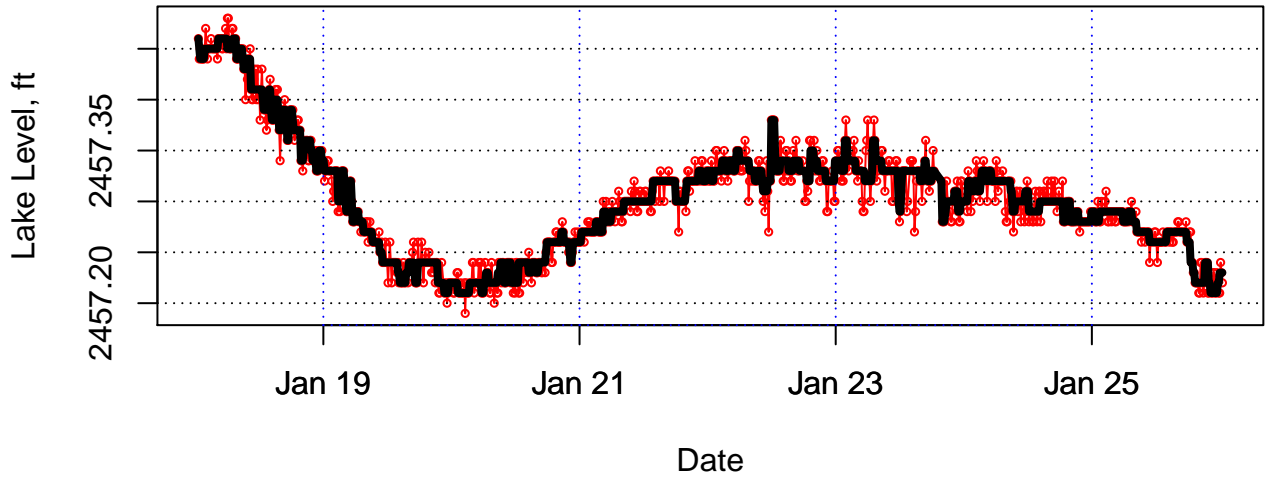
## Tukey Smoothing with 3RS3R Algorithm



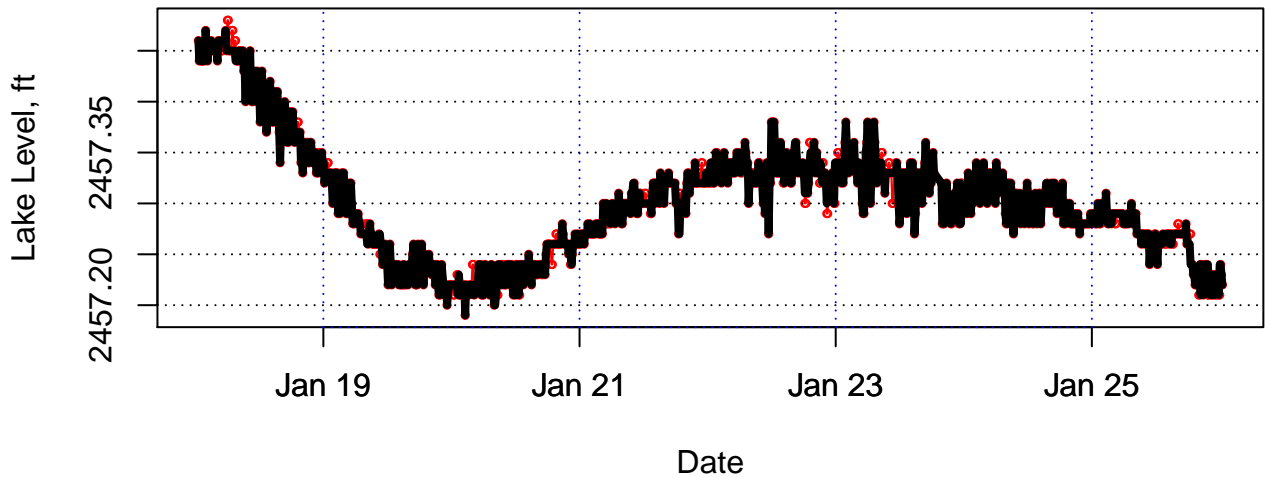
## Tukey Smoothing with 3RSS Algorithm



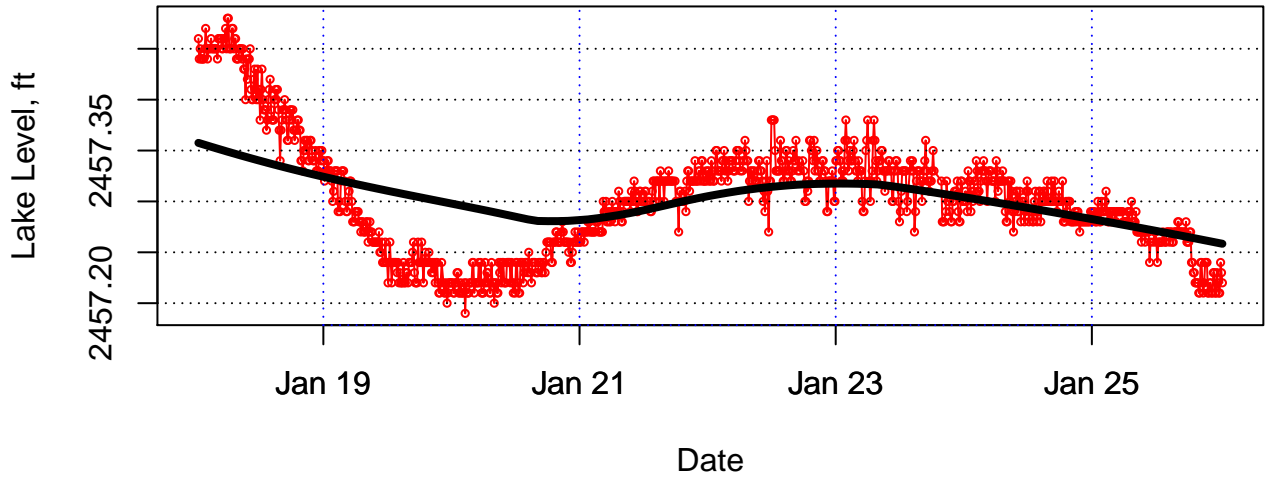
## Tukey Smoothing with 3RSR Algorithm



## Tukey Smoothing with S Algorithm

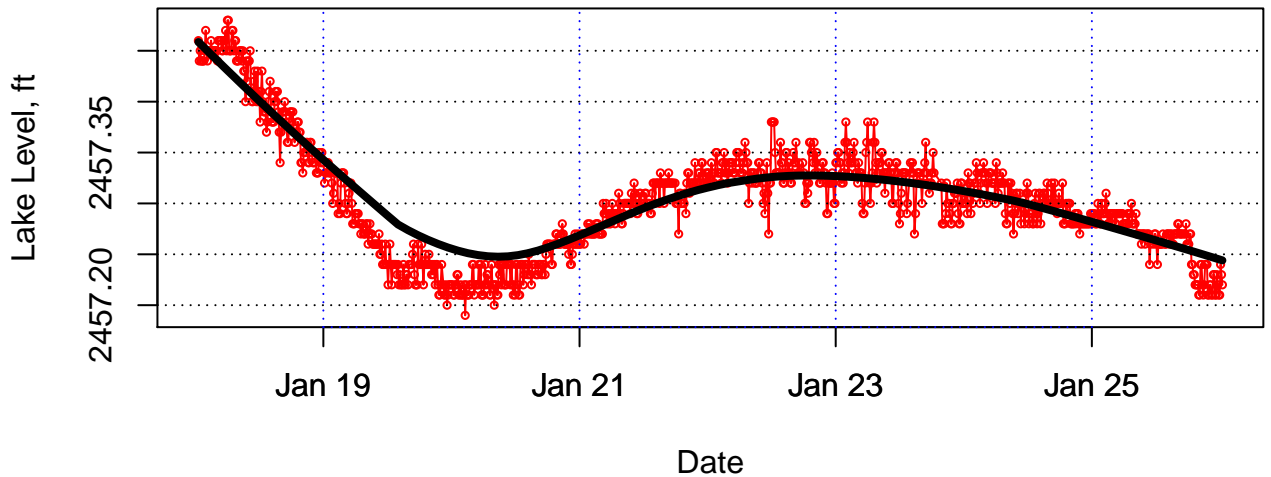


## Lowess Smoothing with $ff = 0.666666666666667$



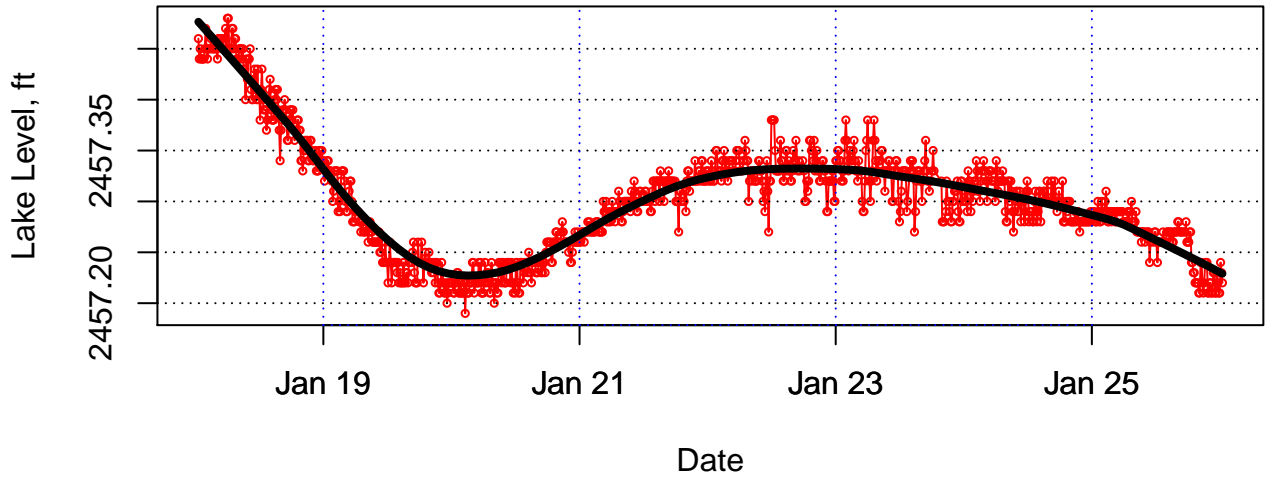
Done with: smoothing\_data.R PLV:2018-01-30

## Lowess Smoothing with $ff = 0.4$



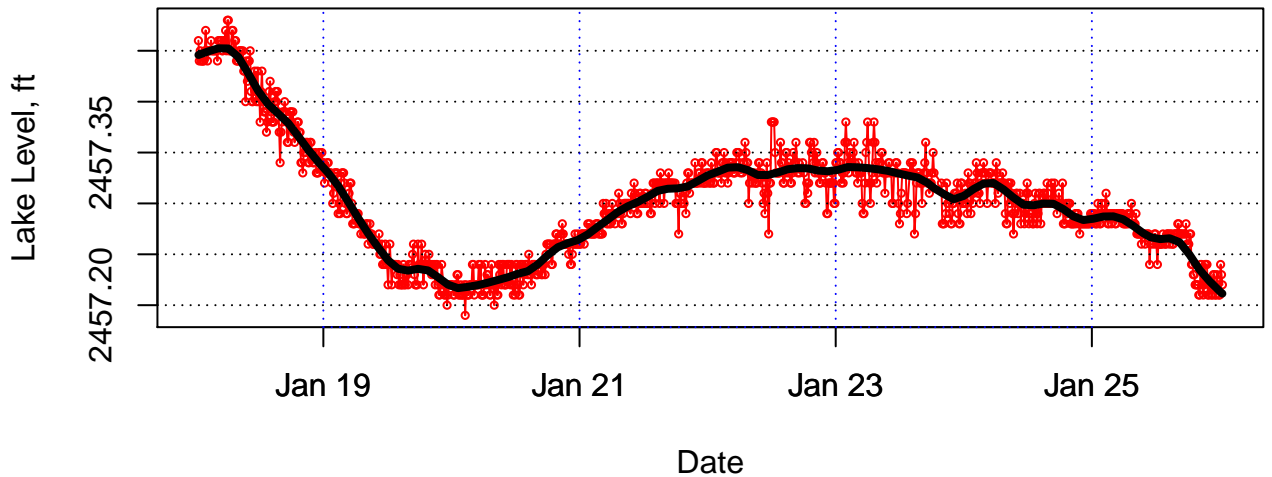
Done with: smoothing\_data.R PLV:2018-01-30

## Lowess Smoothing with $ff = 0.2$



Done with: smoothing\_data.R PLV:2018-01-30

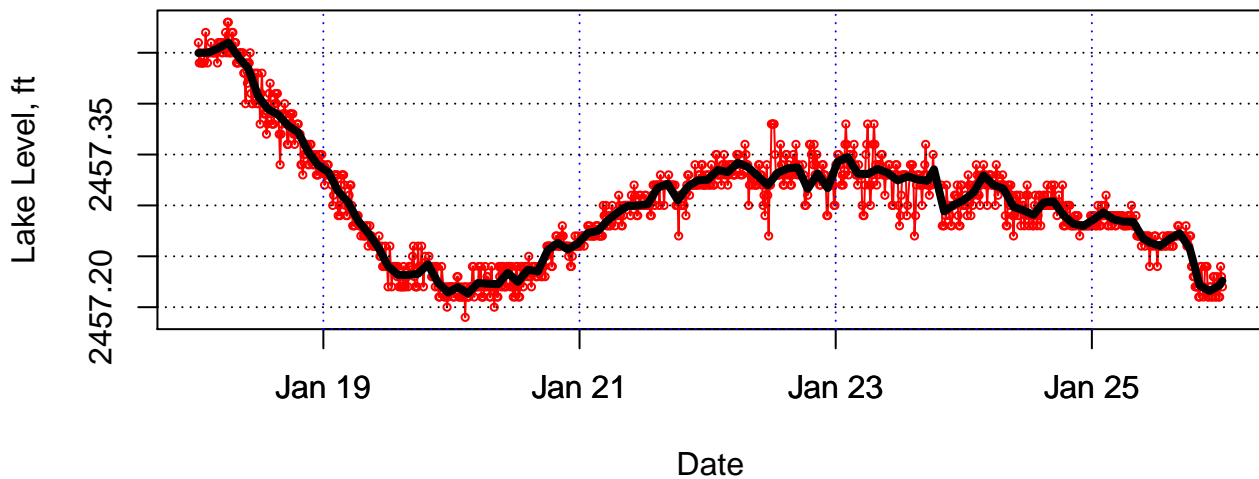
## Lowess Smoothing with $ff = 0.05$



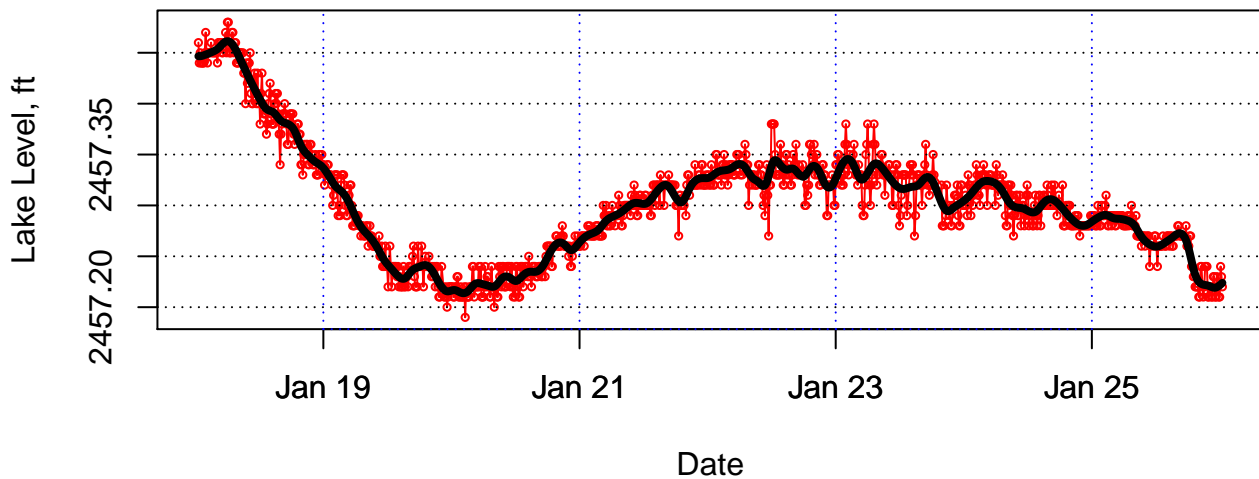
Done with: smoothing\_data.R PLV:2018-01-30



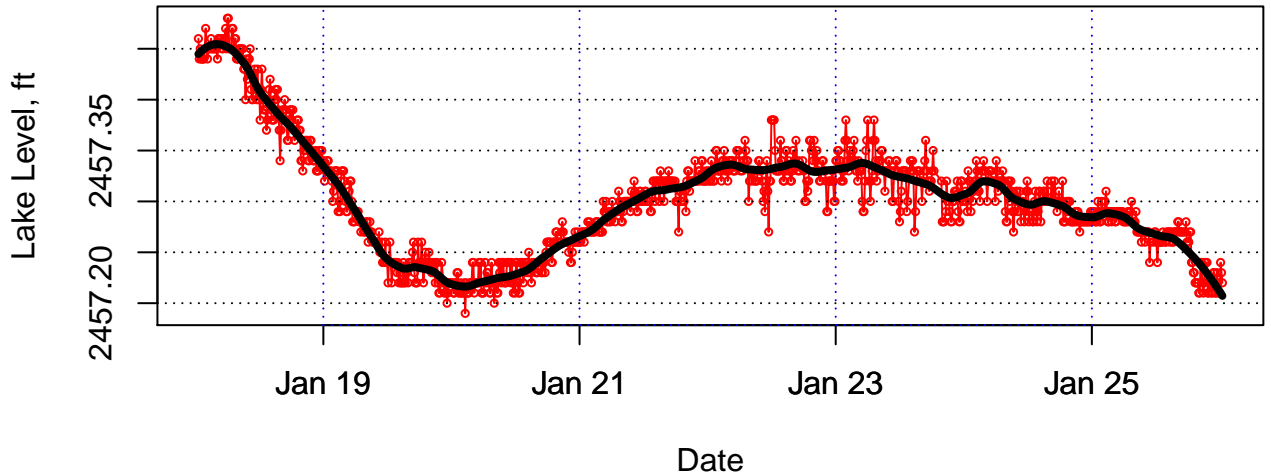
## Lowess Smoothing with $ff = 0.01$



## Smoothing Spline filter

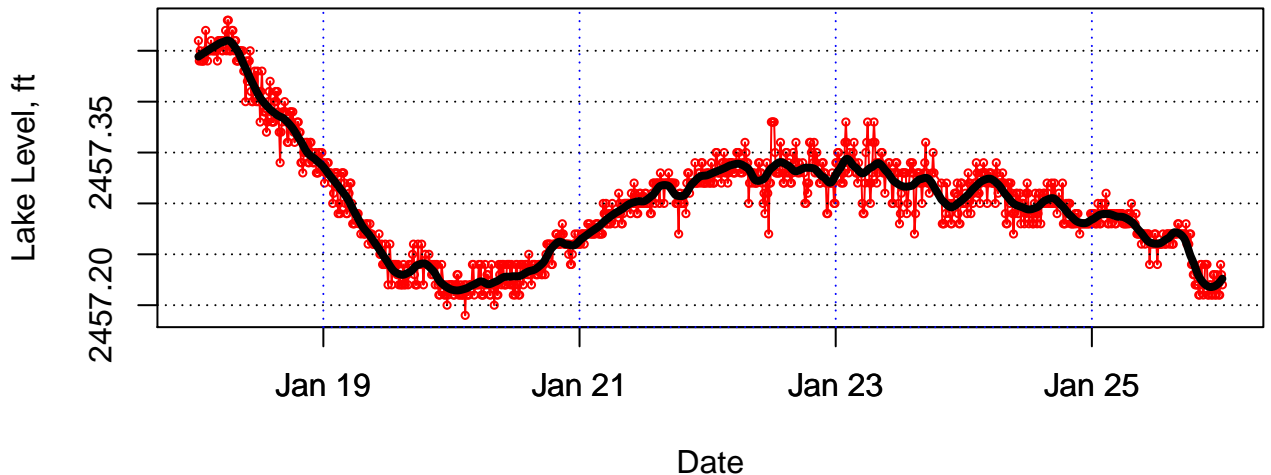


## Smoothing with Loess and span = 0.1



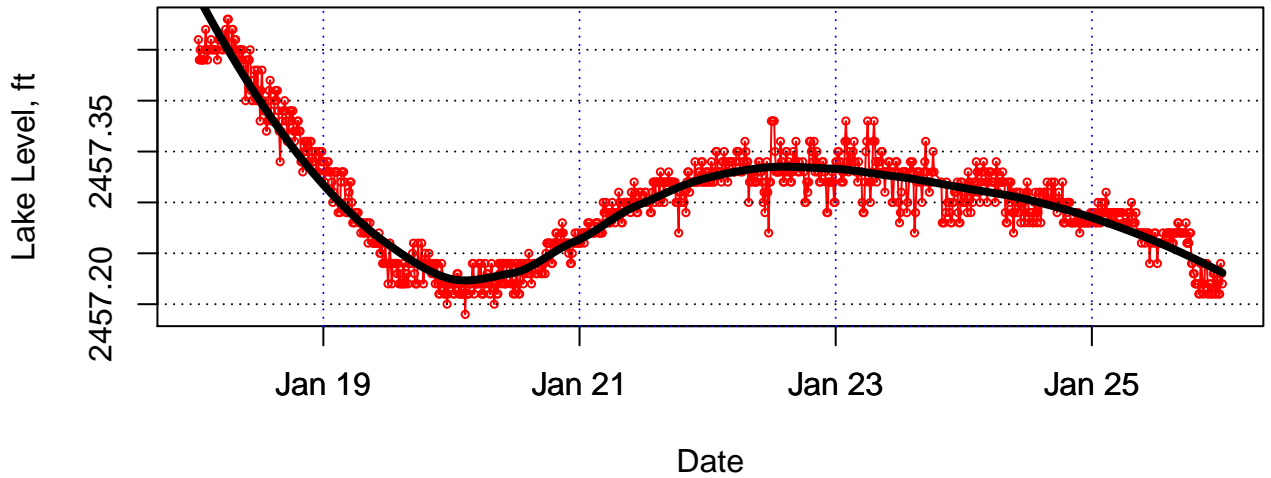
Done with: smoothing\_data.R PLV:2018-01-30

## Smoothing with Loess and span = 0.05



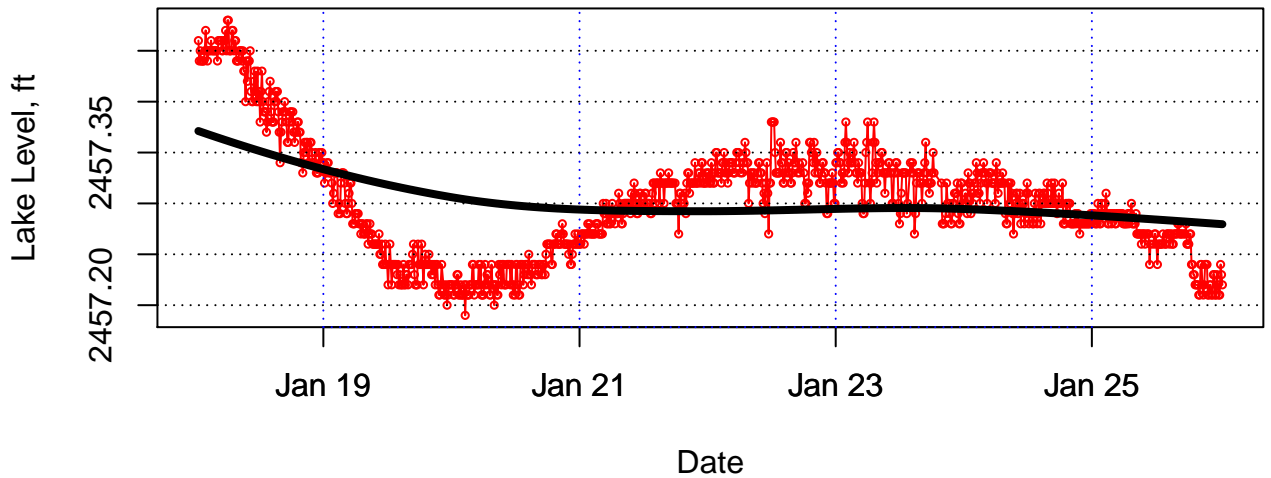
Done with: smoothing\_data.R PLV:2018-01-30

## Smoothing with Loess and span = 0.5



Done with: smoothing\_data.R PLV:2018-01-30

## Smoothing with Loess and span = 2



Done with: smoothing\_data.R PLV:2018-01-30