

univar_Taylor

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```
library(lubridate) # Unix to Date Timestamps/POSIXct

## Warning: package 'lubridate' was built under R version 4.0.5

##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
## 
##     date, intersect, setdiff, union

library(arrows)

##
## Attaching package: 'arrows'

## The following object is masked from 'package:lubridate':
## 
##     duration

## The following object is masked from 'package:utils':
## 
##     timestamp

library(tswge)
library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.0.5

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr    0.3.4
## v tibble   3.1.6      v dplyr    1.0.8
## v tidyverse 1.2.0      v stringr  1.4.0
## v readr    2.1.2      vforcats 0.5.1

## Warning: package 'ggplot2' was built under R version 4.0.5
```

```

## Warning: package 'tibble' was built under R version 4.0.5

## Warning: package 'tidyr' was built under R version 4.0.5

## Warning: package 'readr' was built under R version 4.0.5

## Warning: package 'dplyr' was built under R version 4.0.5

## -- Conflicts ----- tidyverse_conflicts() --
## x lubridate::as.difftime() masks base::as.difftime()
## x lubridate::date()      masks base::date()
## x arrow::duration()     masks lubridate::duration()
## x dplyr::filter()       masks stats::filter()
## x lubridate::intersect() masks base::intersect()
## x dplyr::lag()          masks stats::lag()
## x lubridate::setdiff()   masks base::setdiff()
## x lubridate::union()    masks base::union()

train = read_parquet("data/btc-train.parquet")
test.short = read_parquet("data/btc-test-short.parquet")
test.long = read_parquet("data/btc-test-long.parquet")

```

Data Cleanup

```

summary(train)

##      unix_time           Asset_ID      Count        Open
##  Min.   :1.620e+09   Min.   :1   Min.   : 424   Min.   :30389
##  1st Qu.:1.620e+09   1st Qu.:1   1st Qu.: 2370   1st Qu.:38044
##  Median :1.621e+09   Median :1   Median : 3253   Median :47816
##  Mean   :1.621e+09   Mean   :1   Mean   : 4268   Mean   :46949
##  3rd Qu.:1.622e+09   3rd Qu.:1   3rd Qu.: 4828   3rd Qu.:56650
##  Max.   :1.623e+09   Max.   :1   Max.   :69511   Max.   :59539
##              High            Low          Close          Volume
##  Min.   :31425   Min.   :29000   Min.   :30278   Min.   :  8.328
##  1st Qu.:38154   1st Qu.:37953   1st Qu.:38045   1st Qu.: 62.951
##  Median :47930   Median :47703   Median :47811   Median :100.858
##  Mean   :47048   Mean   :46856   Mean   :46948   Mean   :157.882
##  3rd Qu.:56721   3rd Qu.:56576   3rd Qu.:56650   3rd Qu.:175.877
##  Max.   :59603   Max.   :59474   Max.   :59543   Max.   :4888.497
##              VWAP            Target          timestamp
##  Min.   :30294   Min.   :-0.0725565   Min.   :2021-05-01 00:01:00
##  1st Qu.:38047   1st Qu.:-0.0015068   1st Qu.:2021-05-08 18:00:30
##  Median :47806   Median :-0.0002147   Median :2021-05-16 12:00:00
##  Mean   :46949   Mean   :-0.0001079   Mean   :2021-05-16 12:00:00
##  3rd Qu.:56649   3rd Qu.: 0.0011396   3rd Qu.:2021-05-24 05:59:30
##  Max.   :59536   Max.   : 0.0434798   Max.   :2021-05-31 23:59:00

```

```
summary(test.short)
```

```
##      timestamp          Asset_ID    Count        Open
##  Min.   :1.623e+09   Min.   :1   Min.   : 764   Min.   :35732
##  1st Qu.:1.623e+09  1st Qu.:1   1st Qu.: 1572  1st Qu.:36222
##  Median :1.623e+09  Median :1   Median : 2021  Median :36452
##  Mean   :1.623e+09  Mean   :1   Mean   : 2539  Mean   :36575
##  3rd Qu.:1.623e+09 3rd Qu.:1   3rd Qu.: 2826  3rd Qu.:36851
##  Max.   :1.623e+09  Max.   :1   Max.   :26652  Max.   :37887
##      High            Low           Close        Volume
##  Min.   :35818   Min.   :35659   Min.   :35734   Min.   : 10.93
##  1st Qu.:36262   1st Qu.:36177   1st Qu.:36222   1st Qu.: 50.99
##  Median :36490   Median :36408   Median :36453   Median : 73.15
##  Mean   :36616   Mean   :36533   Mean   :36575   Mean   :104.22
##  3rd Qu.:36889   3rd Qu.:36815   3rd Qu.:36851   3rd Qu.:111.70
##  Max.   :37934   Max.   :37785   Max.   :37898   Max.   :2179.60
##      VWAP            Target
##  Min.   :35768   Min.   :-0.0077865
##  1st Qu.:36218   1st Qu.:-0.0012736
##  Median :36448   Median :-0.0002544
##  Mean   :36574   Mean   :-0.0002116
##  3rd Qu.:36850   3rd Qu.: 0.0007407
##  Max.   :37857   Max.   : 0.0110617
```

```
summary(test.long)
```

```
##      timestamp          Asset_ID    Count        Open
##  Min.   :1.623e+09   Min.   :1   Min.   : 491   Min.   :33385
##  1st Qu.:1.623e+09  1st Qu.:1   1st Qu.: 1296  1st Qu.:36106
##  Median :1.623e+09  Median :1   Median : 1727  Median :36652
##  Mean   :1.623e+09  Mean   :1   Mean   : 2235  Mean   :36842
##  3rd Qu.:1.623e+09 3rd Qu.:1   3rd Qu.: 2463  3rd Qu.:37577
##  Max.   :1.623e+09  Max.   :1   Max.   :54702  Max.   :39460
##      High            Low           Close        Volume
##  Min.   :33501   Min.   :33281   Min.   :33411   Min.   : 8.172
##  1st Qu.:36142   1st Qu.:36069   1st Qu.:36105   1st Qu.: 42.134
##  Median :36694   Median :36609   Median :36652   Median : 63.108
##  Mean   :36882   Mean   :36801   Mean   :36842   Mean   : 94.557
##  3rd Qu.:37615   3rd Qu.:37539   3rd Qu.:37578   3rd Qu.:102.983
##  Max.   :39490   Max.   :39430   Max.   :39458   Max.   :4110.244
##      VWAP            Target
##  Min.   :33414   Min.   :-1.138e-02
##  1st Qu.:36106   1st Qu.:-8.781e-04
##  Median :36653   Median :-7.698e-05
##  Mean   :36842   Mean   :-5.134e-05
##  3rd Qu.:37577   3rd Qu.: 7.669e-04
##  Max.   :39469   Max.   : 1.106e-02
```

Converting UNIX timestamps to POSIXct so they are human readable

```

train <- train %>% mutate(timestamp = as_datetime(timestamp))
test.short <- test.short %>% mutate(timestamp = as_datetime(timestamp))
test.long <- test.long %>% mutate(timestamp = as_datetime(timestamp))

```

EDA Exploration

```

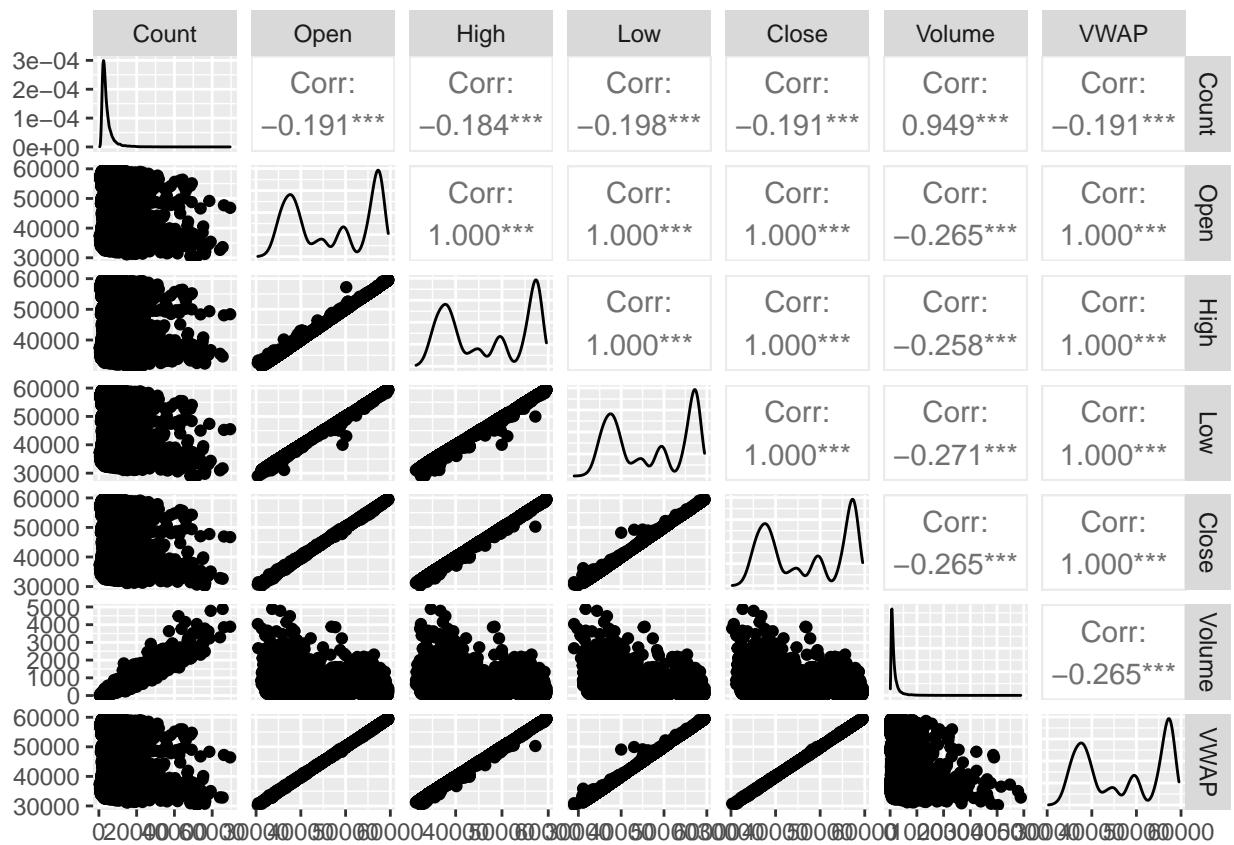
library(GGally)

## Warning: package 'GGally' was built under R version 4.0.5

## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2

ggpairs(train[3:9])

```



We'll use Open as our response, and try building a univariate model or two with Volume and Count

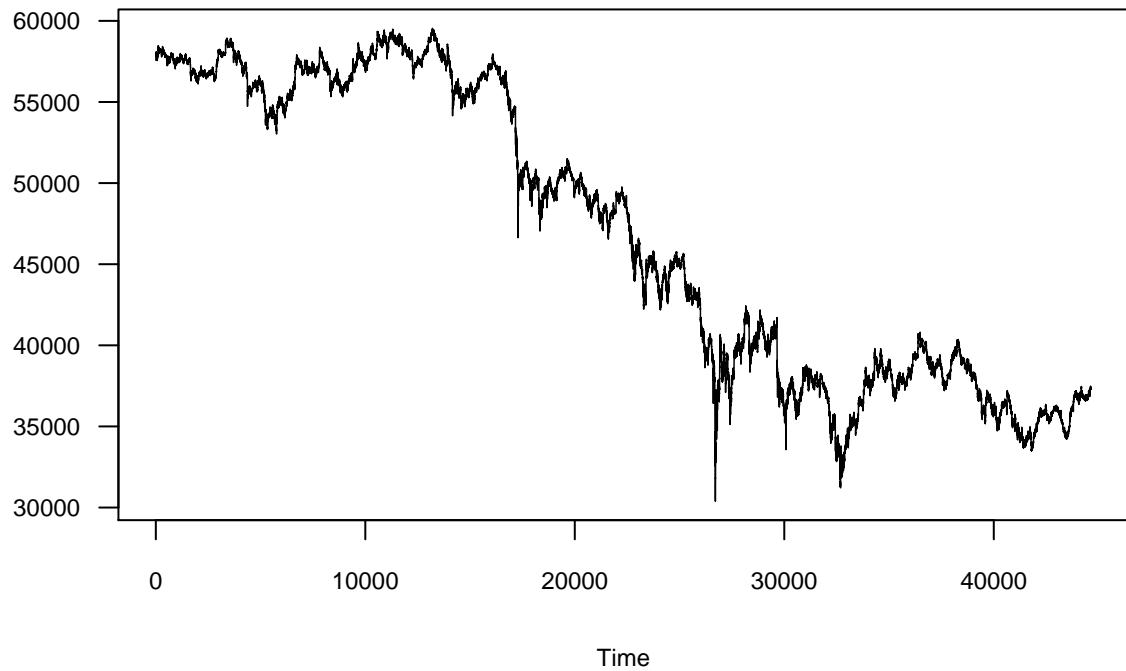
Let's first look at our time series plots to get an idea of how Open operates

```

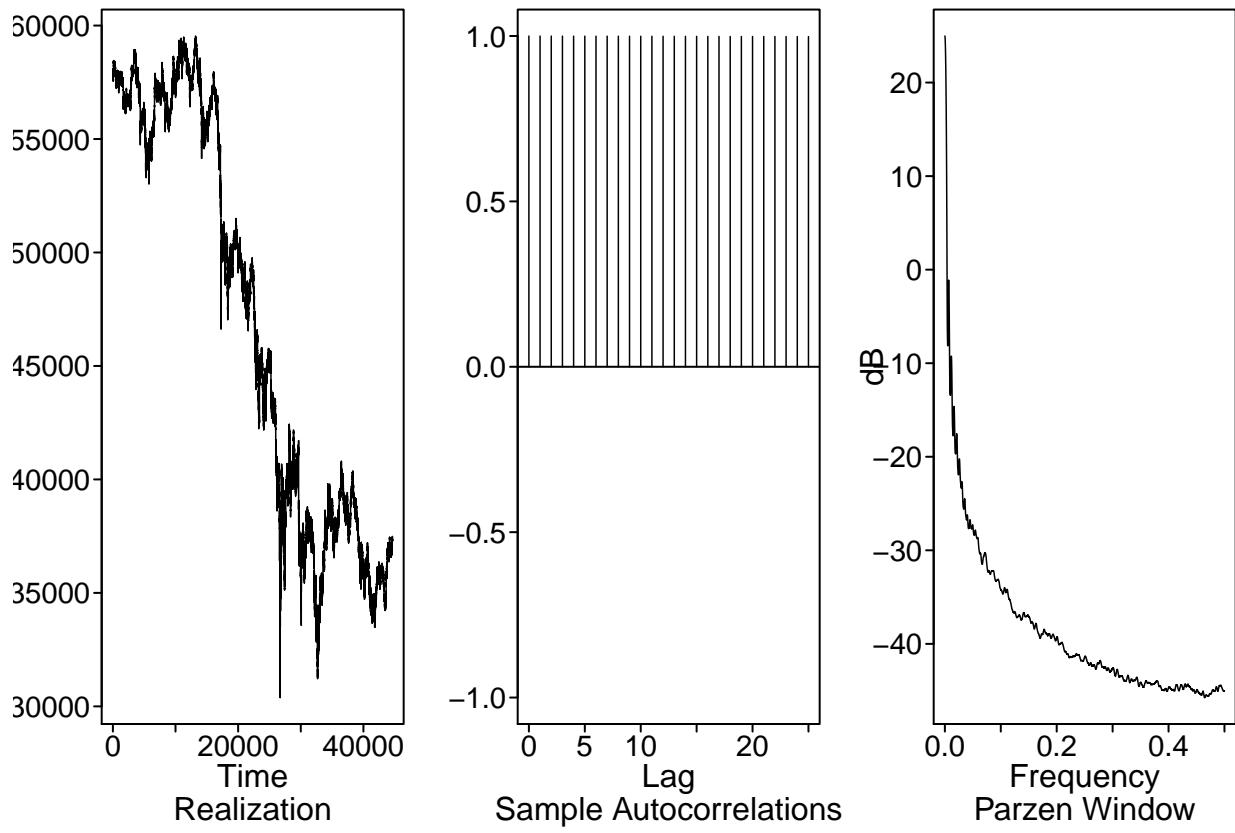
library(tswge)

plottts.wge(train$Open)

```



```
plotts.sample.wge(train$Open)
```



```

## $xbar
## [1] 46948.88
##
## $autplt
## [1] 1.0000000 0.9999325 0.9998586 0.9997848 0.9997126 0.9996405 0.9995690
## [8] 0.9994983 0.9994280 0.9993593 0.9992917 0.9992226 0.9991521 0.9990807
## [15] 0.9990103 0.9989384 0.9988678 0.9987962 0.9987259 0.9986561 0.9985857
## [22] 0.9985141 0.9984412 0.9983698 0.9983010 0.9982338
##
## $freq
## [1] 2.240194e-05 4.480387e-05 6.720581e-05 8.960774e-05 1.120097e-04
## [6] 1.344116e-04 1.568135e-04 1.792155e-04 2.016174e-04 2.240194e-04
## [11] 2.464213e-04 2.688232e-04 2.912252e-04 3.136271e-04 3.360290e-04
## [16] 3.584310e-04 3.808329e-04 4.032348e-04 4.256368e-04 4.480387e-04
## [21] 4.704406e-04 4.928426e-04 5.152445e-04 5.376465e-04 5.600484e-04
## [26] 5.824503e-04 6.048523e-04 6.272542e-04 6.496561e-04 6.720581e-04
## [31] 6.944600e-04 7.168619e-04 7.392639e-04 7.616658e-04 7.840677e-04
## [36] 8.064697e-04 8.288716e-04 8.512736e-04 8.736755e-04 8.960774e-04
## [41] 9.184794e-04 9.408813e-04 9.632832e-04 9.856852e-04 1.008087e-03
## [46] 1.030489e-03 1.052891e-03 1.075293e-03 1.097695e-03 1.120097e-03
## [51] 1.142499e-03 1.164901e-03 1.187303e-03 1.209705e-03 1.232106e-03
## [56] 1.254508e-03 1.276910e-03 1.299312e-03 1.321714e-03 1.344116e-03
## [61] 1.366518e-03 1.388920e-03 1.411322e-03 1.433724e-03 1.456126e-03
## [66] 1.478528e-03 1.500930e-03 1.523332e-03 1.545734e-03 1.568135e-03
## [71] 1.590537e-03 1.612939e-03 1.635341e-03 1.657743e-03 1.680145e-03
## [76] 1.702547e-03 1.724949e-03 1.747351e-03 1.769753e-03 1.792155e-03

```

```

## [81] 1.814557e-03 1.836959e-03 1.859361e-03 1.881763e-03 1.904165e-03
## [86] 1.926566e-03 1.948968e-03 1.971370e-03 1.993772e-03 2.016174e-03
## [91] 2.038576e-03 2.060978e-03 2.083380e-03 2.105782e-03 2.128184e-03
## [96] 2.150586e-03 2.172988e-03 2.195390e-03 2.217792e-03 2.240194e-03
## [101] 2.262595e-03 2.284997e-03 2.307399e-03 2.329801e-03 2.352203e-03
## [106] 2.374605e-03 2.397007e-03 2.419409e-03 2.441811e-03 2.464213e-03
## [111] 2.486615e-03 2.509017e-03 2.531419e-03 2.553821e-03 2.576223e-03
## [116] 2.598625e-03 2.621026e-03 2.643428e-03 2.665830e-03 2.688232e-03
## [121] 2.710634e-03 2.733036e-03 2.755438e-03 2.777840e-03 2.800242e-03
## [126] 2.822644e-03 2.845046e-03 2.867448e-03 2.889850e-03 2.912252e-03
## [131] 2.934654e-03 2.957055e-03 2.979457e-03 3.001859e-03 3.024261e-03
## [136] 3.046663e-03 3.069065e-03 3.091467e-03 3.113869e-03 3.136271e-03
## [141] 3.158673e-03 3.181075e-03 3.203477e-03 3.225879e-03 3.248281e-03
## [146] 3.270683e-03 3.293085e-03 3.315486e-03 3.337888e-03 3.360290e-03
## [151] 3.382692e-03 3.405094e-03 3.427496e-03 3.449898e-03 3.472300e-03
## [156] 3.494702e-03 3.517104e-03 3.539506e-03 3.561908e-03 3.584310e-03
## [161] 3.606712e-03 3.629114e-03 3.651515e-03 3.673917e-03 3.696319e-03
## [166] 3.718721e-03 3.741123e-03 3.763525e-03 3.785927e-03 3.808329e-03
## [171] 3.830731e-03 3.853133e-03 3.875535e-03 3.897937e-03 3.920339e-03
## [176] 3.942741e-03 3.965143e-03 3.987545e-03 4.009946e-03 4.032348e-03
## [181] 4.054750e-03 4.077152e-03 4.099554e-03 4.121956e-03 4.144358e-03
## [186] 4.166760e-03 4.189162e-03 4.211564e-03 4.233966e-03 4.256368e-03
## [191] 4.278770e-03 4.301172e-03 4.323574e-03 4.345975e-03 4.368377e-03
## [196] 4.390779e-03 4.413181e-03 4.435583e-03 4.457985e-03 4.480387e-03
## [201] 4.502789e-03 4.525191e-03 4.547593e-03 4.569995e-03 4.592397e-03
## [206] 4.614799e-03 4.637201e-03 4.659603e-03 4.682005e-03 4.704406e-03
## [211] 4.726808e-03 4.749210e-03 4.771612e-03 4.794014e-03 4.816416e-03
## [216] 4.838818e-03 4.861220e-03 4.883622e-03 4.906024e-03 4.928426e-03
## [221] 4.950828e-03 4.973230e-03 4.995632e-03 5.018034e-03 5.040435e-03
## [226] 5.062837e-03 5.085239e-03 5.107641e-03 5.130043e-03 5.152445e-03
## [231] 5.174847e-03 5.197249e-03 5.219651e-03 5.242053e-03 5.264455e-03
## [236] 5.286857e-03 5.309259e-03 5.331661e-03 5.354063e-03 5.376465e-03
## [241] 5.398866e-03 5.421268e-03 5.443670e-03 5.466072e-03 5.488474e-03
## [246] 5.510876e-03 5.533278e-03 5.555680e-03 5.578082e-03 5.600484e-03
## [251] 5.622886e-03 5.645288e-03 5.667690e-03 5.690092e-03 5.712494e-03
## [256] 5.734895e-03 5.757297e-03 5.779699e-03 5.802101e-03 5.824503e-03
## [261] 5.846905e-03 5.869307e-03 5.891709e-03 5.914111e-03 5.936513e-03
## [266] 5.958915e-03 5.981317e-03 6.003719e-03 6.026121e-03 6.048523e-03
## [271] 6.070925e-03 6.093326e-03 6.115728e-03 6.138130e-03 6.160532e-03
## [276] 6.182934e-03 6.205336e-03 6.227738e-03 6.250140e-03 6.272542e-03
## [281] 6.294944e-03 6.317346e-03 6.339748e-03 6.362150e-03 6.384552e-03
## [286] 6.406954e-03 6.429355e-03 6.451757e-03 6.474159e-03 6.496561e-03
## [291] 6.518963e-03 6.541365e-03 6.563767e-03 6.586169e-03 6.608571e-03
## [296] 6.630973e-03 6.653375e-03 6.675777e-03 6.698179e-03 6.720581e-03
## [301] 6.742983e-03 6.765385e-03 6.787786e-03 6.810188e-03 6.832590e-03
## [306] 6.854992e-03 6.877394e-03 6.899796e-03 6.922198e-03 6.944600e-03
## [311] 6.967002e-03 6.989404e-03 7.011806e-03 7.034208e-03 7.056610e-03
## [316] 7.079012e-03 7.101414e-03 7.123815e-03 7.146217e-03 7.168619e-03
## [321] 7.191021e-03 7.213423e-03 7.235825e-03 7.258227e-03 7.280629e-03
## [326] 7.303031e-03 7.325433e-03 7.347835e-03 7.370237e-03 7.392639e-03
## [331] 7.415041e-03 7.437443e-03 7.459845e-03 7.482246e-03 7.504648e-03
## [336] 7.527050e-03 7.549452e-03 7.571854e-03 7.594256e-03 7.616658e-03
## [341] 7.639060e-03 7.661462e-03 7.683864e-03 7.706266e-03 7.728668e-03
## [346] 7.751070e-03 7.773472e-03 7.795874e-03 7.818275e-03 7.840677e-03

```

```

## [351] 7.863079e-03 7.885481e-03 7.907883e-03 7.930285e-03 7.952687e-03
## [356] 7.975089e-03 7.997491e-03 8.019893e-03 8.042295e-03 8.064697e-03
## [361] 8.087099e-03 8.109501e-03 8.131903e-03 8.154305e-03 8.176706e-03
## [366] 8.199108e-03 8.221510e-03 8.243912e-03 8.266314e-03 8.288716e-03
## [371] 8.311118e-03 8.333520e-03 8.355922e-03 8.378324e-03 8.400726e-03
## [376] 8.423128e-03 8.445530e-03 8.467932e-03 8.490334e-03 8.512736e-03
## [381] 8.535137e-03 8.557539e-03 8.579941e-03 8.602343e-03 8.624745e-03
## [386] 8.647147e-03 8.669549e-03 8.691951e-03 8.714353e-03 8.736755e-03
## [391] 8.759157e-03 8.781559e-03 8.803961e-03 8.826363e-03 8.848765e-03
## [396] 8.871166e-03 8.893568e-03 8.915970e-03 8.938372e-03 8.960774e-03
## [401] 8.983176e-03 9.005578e-03 9.027980e-03 9.050382e-03 9.072784e-03
## [406] 9.095186e-03 9.117588e-03 9.139990e-03 9.162392e-03 9.184794e-03
## [411] 9.207196e-03 9.229597e-03 9.251999e-03 9.274401e-03 9.296803e-03
## [416] 9.319205e-03 9.341607e-03 9.364009e-03 9.386411e-03 9.408813e-03
## [421] 9.431215e-03 9.453617e-03 9.476019e-03 9.498421e-03 9.520823e-03
## [426] 9.543225e-03 9.565626e-03 9.588028e-03 9.610430e-03 9.632832e-03
## [431] 9.655234e-03 9.677636e-03 9.700038e-03 9.722440e-03 9.744842e-03
## [436] 9.767244e-03 9.789646e-03 9.812048e-03 9.834450e-03 9.856852e-03
## [441] 9.879254e-03 9.901656e-03 9.924057e-03 9.946459e-03 9.968861e-03
## [446] 9.991263e-03 1.001367e-02 1.003607e-02 1.005847e-02 1.008087e-02
## [451] 1.010327e-02 1.012567e-02 1.014808e-02 1.017048e-02 1.019288e-02
## [456] 1.021528e-02 1.023768e-02 1.026009e-02 1.028249e-02 1.030489e-02
## [461] 1.032729e-02 1.034969e-02 1.037210e-02 1.039450e-02 1.041690e-02
## [466] 1.043930e-02 1.046170e-02 1.048411e-02 1.050651e-02 1.052891e-02
## [471] 1.055131e-02 1.057371e-02 1.059612e-02 1.061852e-02 1.064092e-02
## [476] 1.066332e-02 1.068572e-02 1.070813e-02 1.073053e-02 1.075293e-02
## [481] 1.077533e-02 1.079773e-02 1.082013e-02 1.084254e-02 1.086494e-02
## [486] 1.088734e-02 1.090974e-02 1.093214e-02 1.095455e-02 1.097695e-02
## [491] 1.099935e-02 1.102175e-02 1.104415e-02 1.106656e-02 1.108896e-02
## [496] 1.111136e-02 1.113376e-02 1.115616e-02 1.117857e-02 1.120097e-02
## [501] 1.122337e-02 1.124577e-02 1.126817e-02 1.129058e-02 1.131298e-02
## [506] 1.133538e-02 1.135778e-02 1.138018e-02 1.140259e-02 1.142499e-02
## [511] 1.144739e-02 1.146979e-02 1.149219e-02 1.151459e-02 1.153700e-02
## [516] 1.155940e-02 1.158180e-02 1.160420e-02 1.162660e-02 1.164901e-02
## [521] 1.167141e-02 1.169381e-02 1.171621e-02 1.173861e-02 1.176102e-02
## [526] 1.178342e-02 1.180582e-02 1.182822e-02 1.185062e-02 1.187303e-02
## [531] 1.189543e-02 1.191783e-02 1.194023e-02 1.196263e-02 1.198504e-02
## [536] 1.200744e-02 1.202984e-02 1.205224e-02 1.207464e-02 1.209705e-02
## [541] 1.211945e-02 1.214185e-02 1.216425e-02 1.218665e-02 1.220905e-02
## [546] 1.223146e-02 1.225386e-02 1.227626e-02 1.229866e-02 1.232106e-02
## [551] 1.234347e-02 1.236587e-02 1.238827e-02 1.241067e-02 1.243307e-02
## [556] 1.245548e-02 1.247788e-02 1.250028e-02 1.252268e-02 1.254508e-02
## [561] 1.256749e-02 1.258989e-02 1.261229e-02 1.263469e-02 1.265709e-02
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## [22159] -44.8389470 -44.8420002 -44.8450484 -44.8480918 -44.8511303 -44.8541638
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## [22189] -44.9277928 -44.9306057 -44.9334034 -44.9361854 -44.9389508 -44.9416988
## [22195] -44.9444288 -44.9471398 -44.9498312 -44.9525020 -44.9551515 -44.9577786
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## [22213] -44.9894987 -44.9917193 -44.9939040 -44.9960518 -44.9981619 -45.0002335
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```

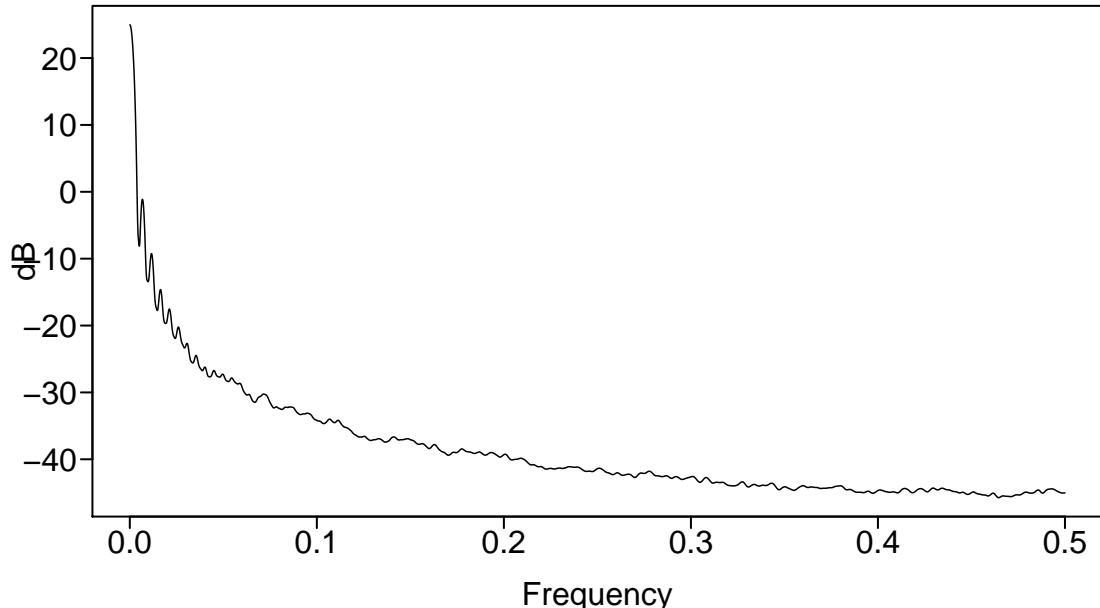
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## [22237] -45.0312634 -45.0324175 -45.0335210 -45.0345739 -45.0355760 -45.0365273
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## [22255] -45.0443599 -45.0446277 -45.0448507 -45.0450299 -45.0451662 -45.0452603
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## [22267] -45.0448306 -45.0446275 -45.0443930 -45.0441282 -45.0438345 -45.0435134
## [22273] -45.0431664 -45.0427948 -45.0424003 -45.0419842 -45.0415481 -45.0410937
## [22279] -45.0406225 -45.0401360 -45.0396358 -45.0391236 -45.0386009 -45.0380693
## [22285] -45.0375304 -45.0369858 -45.0364370 -45.0358857 -45.0353334 -45.0347816
## [22291] -45.0342319 -45.0336857 -45.0331445 -45.0326098 -45.0320830 -45.0315654
## [22297] -45.0310584 -45.0305633 -45.0300815 -45.0296141 -45.0291623 -45.0287272
## [22303] -45.0283101 -45.0279118 -45.0275334 -45.0271759 -45.0268401 -45.0265269
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```

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parzen.wge(train$Open)
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Parzen Window Truncation point: M = 422



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##      [6] 1.344116e-04 1.568135e-04 1.792155e-04 2.016174e-04 2.240194e-04
##     [11] 2.464213e-04 2.688232e-04 2.912252e-04 3.136271e-04 3.360290e-04
##     [16] 3.584310e-04 3.808329e-04 4.032348e-04 4.256368e-04 4.480387e-04
##     [21] 4.704406e-04 4.928426e-04 5.152445e-04 5.376465e-04 5.600484e-04

```

```

## [26] 5.824503e-04 6.048523e-04 6.272542e-04 6.496561e-04 6.720581e-04
## [31] 6.944600e-04 7.168619e-04 7.392639e-04 7.616658e-04 7.840677e-04
## [36] 8.064697e-04 8.288716e-04 8.512736e-04 8.736755e-04 8.960774e-04
## [41] 9.184794e-04 9.408813e-04 9.632832e-04 9.856852e-04 1.008087e-03
## [46] 1.030489e-03 1.052891e-03 1.075293e-03 1.097695e-03 1.120097e-03
## [51] 1.142499e-03 1.164901e-03 1.187303e-03 1.209705e-03 1.232106e-03
## [56] 1.254508e-03 1.276910e-03 1.299312e-03 1.321714e-03 1.344116e-03
## [61] 1.366518e-03 1.388920e-03 1.411322e-03 1.433724e-03 1.456126e-03
## [66] 1.478528e-03 1.500930e-03 1.523332e-03 1.545734e-03 1.568135e-03
## [71] 1.590537e-03 1.612939e-03 1.635341e-03 1.657743e-03 1.680145e-03
## [76] 1.702547e-03 1.724949e-03 1.747351e-03 1.769753e-03 1.792155e-03
## [81] 1.814557e-03 1.836959e-03 1.859361e-03 1.881763e-03 1.904165e-03
## [86] 1.926566e-03 1.948968e-03 1.971370e-03 1.993772e-03 2.016174e-03
## [91] 2.038576e-03 2.060978e-03 2.083380e-03 2.105782e-03 2.128184e-03
## [96] 2.150586e-03 2.172988e-03 2.195390e-03 2.217792e-03 2.240194e-03
## [101] 2.262595e-03 2.284997e-03 2.307399e-03 2.329801e-03 2.352203e-03
## [106] 2.374605e-03 2.397007e-03 2.419409e-03 2.441811e-03 2.464213e-03
## [111] 2.486615e-03 2.509017e-03 2.531419e-03 2.553821e-03 2.576223e-03
## [116] 2.598625e-03 2.621026e-03 2.643428e-03 2.665830e-03 2.688232e-03
## [121] 2.710634e-03 2.733036e-03 2.755438e-03 2.777840e-03 2.800242e-03
## [126] 2.822644e-03 2.845046e-03 2.867448e-03 2.889850e-03 2.912252e-03
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## [136] 3.046663e-03 3.069065e-03 3.091467e-03 3.113869e-03 3.136271e-03
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## [161] 3.606712e-03 3.629114e-03 3.651515e-03 3.673917e-03 3.696319e-03
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## [286] 6.406954e-03 6.429355e-03 6.451757e-03 6.474159e-03 6.496561e-03
## [291] 6.518963e-03 6.541365e-03 6.563767e-03 6.586169e-03 6.608571e-03

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## [22153] -44.8205243 -44.8236074 -44.8266854 -44.8297583 -44.8328262 -44.8358890

```

```

## [22159] -44.8389470 -44.8420002 -44.8450484 -44.8480918 -44.8511303 -44.8541638
## [22165] -44.8571923 -44.8602157 -44.8632338 -44.8662466 -44.8692540 -44.8722556
## [22171] -44.8752513 -44.8782410 -44.8812243 -44.8842010 -44.8871707 -44.8901332
## [22177] -44.8930881 -44.8960350 -44.8989735 -44.9019033 -44.9048238 -44.9077346
## [22183] -44.9106352 -44.9135250 -44.9164035 -44.9192702 -44.9221244 -44.9249655
## [22189] -44.9277928 -44.9306057 -44.9334034 -44.9361854 -44.9389508 -44.9416988
## [22195] -44.9444288 -44.9471398 -44.9498312 -44.9525020 -44.9551515 -44.9577786
## [22201] -44.9603827 -44.9629628 -44.9655180 -44.9680473 -44.9705500 -44.9730250
## [22207] -44.9754715 -44.9778885 -44.9802751 -44.9826303 -44.9849533 -44.9872431
## [22213] -44.9894987 -44.9917193 -44.9939040 -44.9960518 -44.9981619 -45.0002335
## [22219] -45.0022655 -45.0042573 -45.0062080 -45.0081168 -45.0099829 -45.0118055
## [22225] -45.0135841 -45.0153177 -45.0170059 -45.0186480 -45.0202433 -45.0217913
## [22231] -45.0232914 -45.0247432 -45.0261463 -45.0275002 -45.0288046 -45.0300591
## [22237] -45.0312634 -45.0324175 -45.0335210 -45.0345739 -45.0355760 -45.0365273
## [22243] -45.0374279 -45.0382779 -45.0390773 -45.0398263 -45.0405253 -45.0411744
## [22249] -45.0417741 -45.0423247 -45.0428267 -45.0432806 -45.0436871 -45.0440466
## [22255] -45.0443599 -45.0446277 -45.0448507 -45.0450299 -45.0451662 -45.0452603
## [22261] -45.0453134 -45.0453265 -45.0453006 -45.0452369 -45.0451365 -45.0450007
## [22267] -45.0448306 -45.0446275 -45.0443930 -45.0441282 -45.0438345 -45.0435134
## [22273] -45.0431664 -45.0427948 -45.0424003 -45.0419842 -45.0415481 -45.0410937
## [22279] -45.0406225 -45.0401360 -45.0396358 -45.0391236 -45.0386009 -45.0380693
## [22285] -45.0375304 -45.0369858 -45.0364370 -45.0358857 -45.0353334 -45.0347816
## [22291] -45.0342319 -45.0336857 -45.0331445 -45.0326098 -45.0320830 -45.0315654
## [22297] -45.0310584 -45.0305633 -45.0300815 -45.0296141 -45.0291623 -45.0287272
## [22303] -45.0283101 -45.0279118 -45.0275334 -45.0271759 -45.0268401 -45.0265269
## [22309] -45.0262370 -45.0259712 -45.0257300 -45.0255142 -45.0253241 -45.0251603
## [22315] -45.0250233 -45.0249132 -45.0248304 -45.0247751 -45.0247474

```

We can see from the plotts.wge that we have a wandering realization of the Open variable for BTC. We most likely have a positive phi to estimate.

Univariate Models

```
aic5.wge(train$Open, p=0:10, q=0:10) # p=10, q=8
```

```

## -----WORKING... PLEASE WAIT...
##
##
## Error in aic calculation at 2 9
## Error in aic calculation at 3 5
## Error in aic calculation at 4 6
## Error in aic calculation at 4 9
## Five Smallest Values of aic
##      p    q      aic
##    10    8  8.724981
##     9    8  8.725003
##    10    6  8.725375
##     7    9  8.725437
##    10    7  8.725440

```

```
aic5.wge(train$Open, p=0:10, q=0:10, type="bic") # p=9, q=8
```

```
## -----WORKING... PLEASE WAIT...
##
##
## Error in aic calculation at 2 9
## Error in aic calculation at 3 5
## Error in aic calculation at 4 6
## Error in aic calculation at 4 9
## Five Smallest Values of bic
##      p     q      bic
##    9     8  8.728513
##    1     1  8.728622
##   10     8  8.728686
##   10     6  8.728691
##    4     0  8.728709
```

Model 1 – AIC

ARMA(10,8)

```
aic.est.arma = est.arma.wge(train$Open, p=10, q=8)
```

```
##
##
## Coefficients of AR polynomial:
## 0.4383 0.1313 -0.7409 0.5971 -0.0892 -0.1094 0.2735 0.1272 0.3625 0.0096
##
##          AR Factor Table
## Factor        Roots      Abs Recip System Freq
## 1-1.0000B     1.0000    1.0000  0.0000
## 1-1.4308B+0.9587B^2 0.7462+-0.6973i 0.9791  0.1196
## 1-0.4199B+0.9013B^2 0.2329+-1.0273i 0.9494  0.2145
## 1+1.8203B+0.8549B^2 -1.0646+-0.1906i 0.9246  0.4718
## 1+0.5655B+0.4864B^2 -0.5813+-1.3107i 0.6974  0.3164
## 1+0.0266B       -37.5482    0.0266  0.5000
##
##
##          MA FACTOR TABLE
## Factor        Roots      Abs Recip System Freq
## 1-1.4286B+0.9643B^2 0.7407+-0.6988i 0.9820  0.1204
## 1-0.4035B+0.9102B^2 0.2216+-1.0245i 0.9540  0.2161
## 1+1.8407B+0.8760B^2 -1.0506+-0.1943i 0.9359  0.4709
## 1+0.6362B+0.5124B^2 -0.6208+-1.2514i 0.7158  0.3233
```

```
aic.est.arma$phi  
## [1] 0.43830851 0.13129630 -0.74091140 0.59707980 -0.08919616 -0.10943603  
## [7] 0.27347182 0.12715326 0.36250445 0.00956941
```

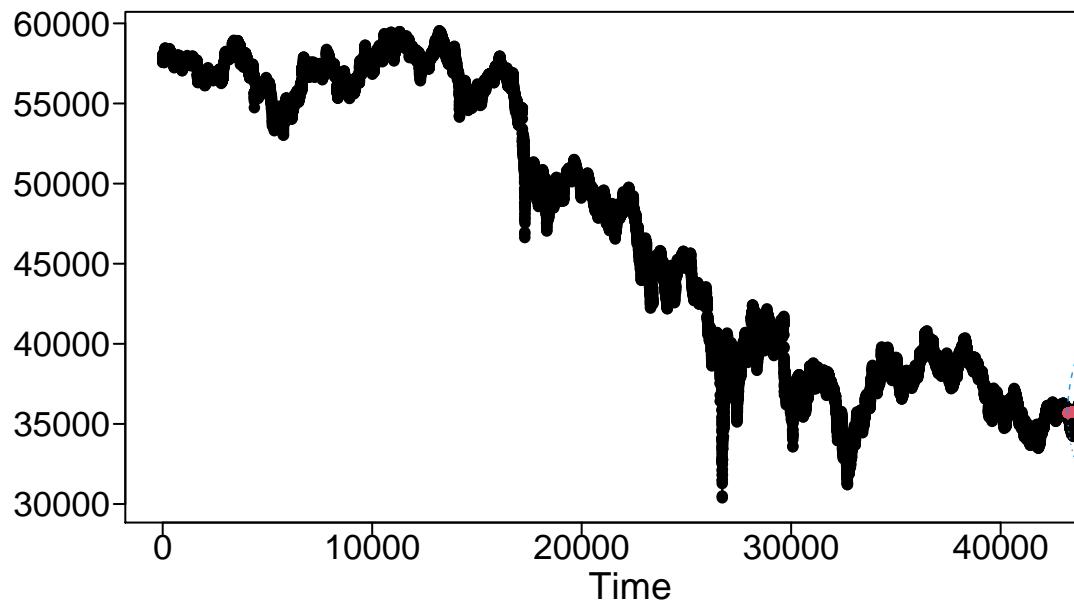
```
aic.est.arma$theta
```

```
## [1] -0.6448009 -0.4724481 -1.1925325 -0.6661429 -0.7052914 -0.8116674 -0.5587097  
## [8] -0.3939781
```

```
aic.est.arma$avar
```

```
## [1] 6149.52
```

```
forecast.period = 1440  
aic.fore.short.arma = fore.arma.wge(train$Open, phi=aic.est.arma$phi, theta = aic.est.arma$theta, n.ahead=1)
```



Short-Term Forecast

```
end.idx = length(train$Open)  
start.idx = end.idx - forecast.period+1  
  
aic.short.ASE = mean((train$Open[start.idx:end.idx] - aic.fore.short.arma$f)^2)  
aic.short.ASE
```

```

## [1] 802022.5

# ASE = 802,022.5
sqrt(aic.short.ASE)

## [1] 895.5571

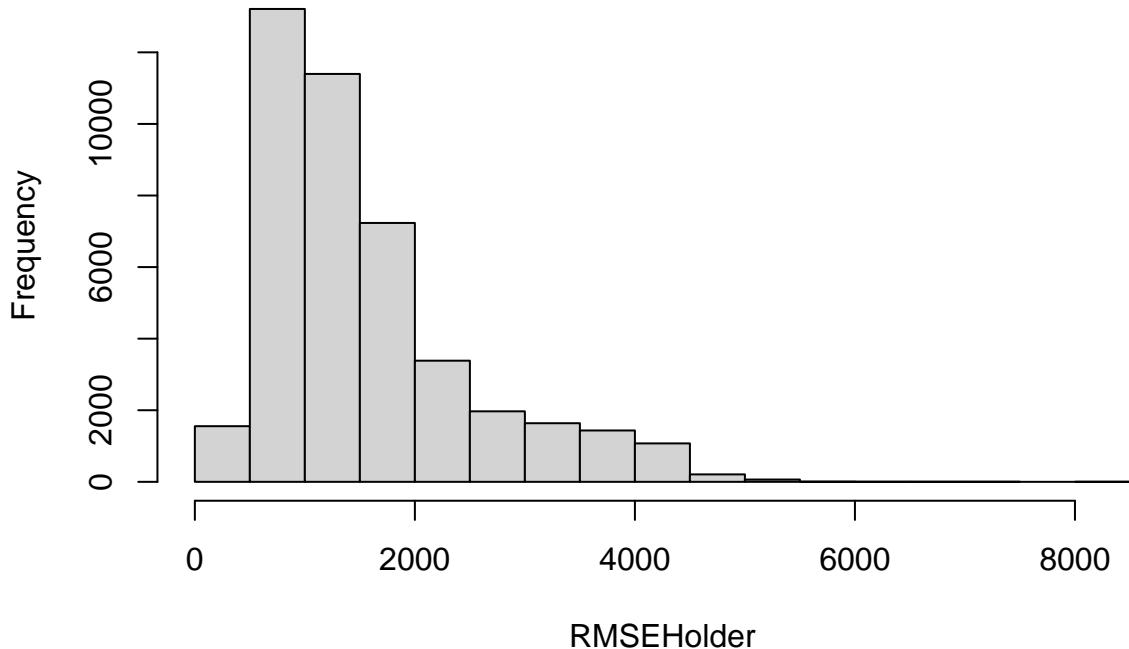
# Root ASE = 895.5571

roll.win.rmse.wge(train$Open, horizon = forecast.period, s = 0, d = 0, phi=aic.est.arma$phi, theta = aic.est.arma$theta, n.ahead = 1440)

## [1] "Please Hold For a Moment, TSWGE is processing the Rolling Window RMSE with 43189 windows."

```

RMSEs for Individual Windows



```

## [1] "The Summary Statistics for the Rolling Window RMSE Are:"
##      Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##    217.4   876.4 1278.2 1555.0 1900.5 8234.3
## [1] "The Rolling Window RMSE is: 1555.023"

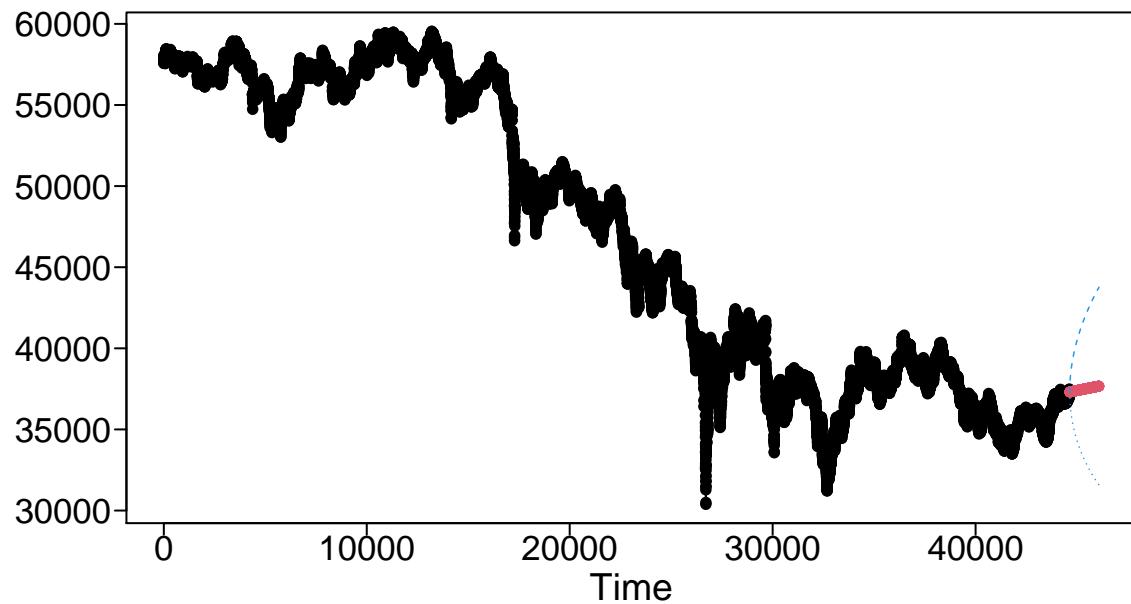
# Rolling Window RMSE = 1555.023

```

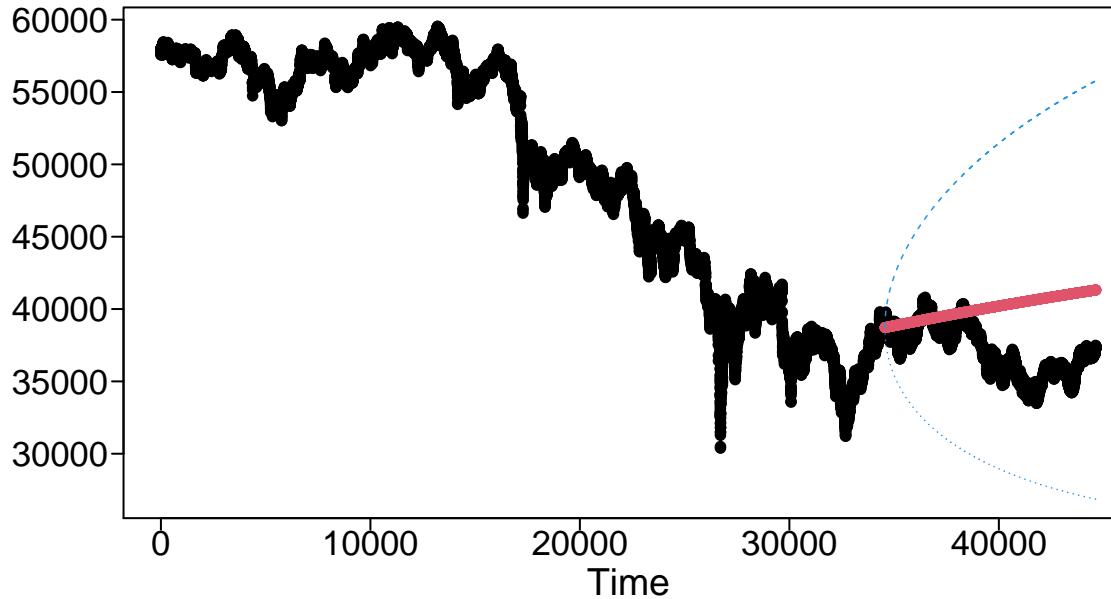
```

forecast.period = 1440
aic.fore.short.arma = fore.arma.wge(train$Open, phi=aic.est.arma$phi, theta = aic.est.arma$theta, n.ahead = 1440)

```



```
forecast.period = 10080  
aic.fore.long.arma = fore.arma.wge(train$Open, phi=aic.est.arma$phi, theta = aic.est.arma$theta, n.ahead=
```



Long-Term Forecast

```

end.idx = length(train$Open)
start.idx = end.idx - forecast.period+1

aic.long.ASE = mean((train$Open[start.idx:end.idx] - aic.fore.short.arma$f)^2)
aic.long.ASE

## [1] 3092244

# ASE = 3,092,243.65520781
sqrt(aic.long.ASE)

## [1] 1758.478

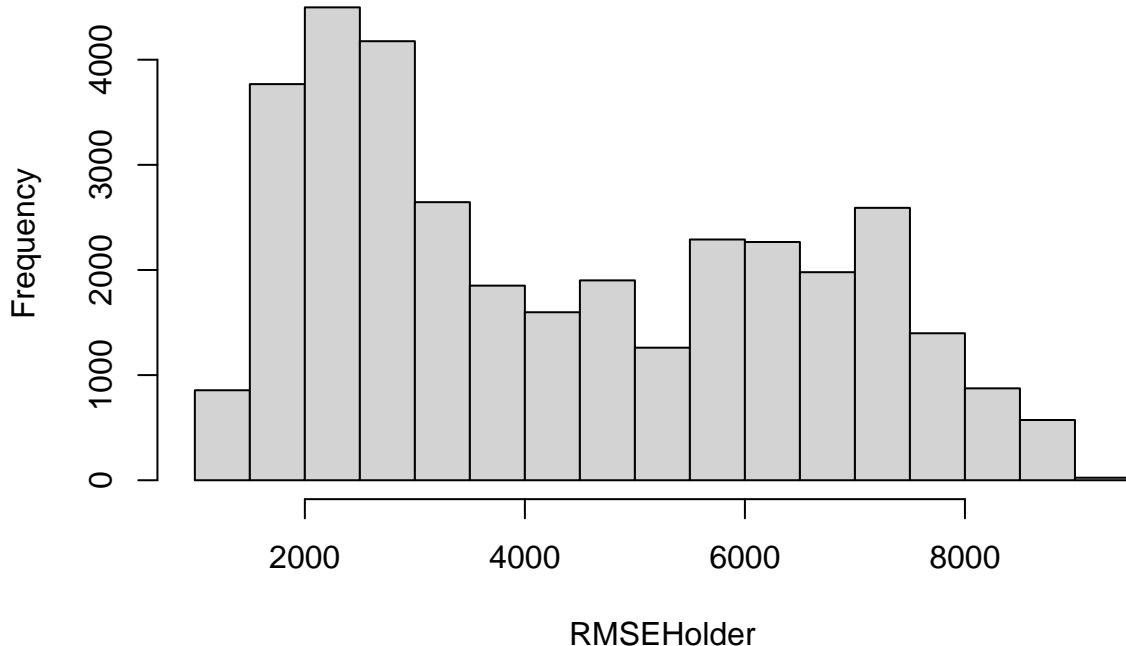
# Root ASE = 1,758.478

roll.win.rmse.wge(train$Open, horizon = forecast.period, s = 0, d = 0, phi=aic.est.arma$phi, theta = aic.est.arma$theta)

## [1] "Please Hold For a Moment, TSWGE is processing the Rolling Window RMSE with 34549 windows."

```

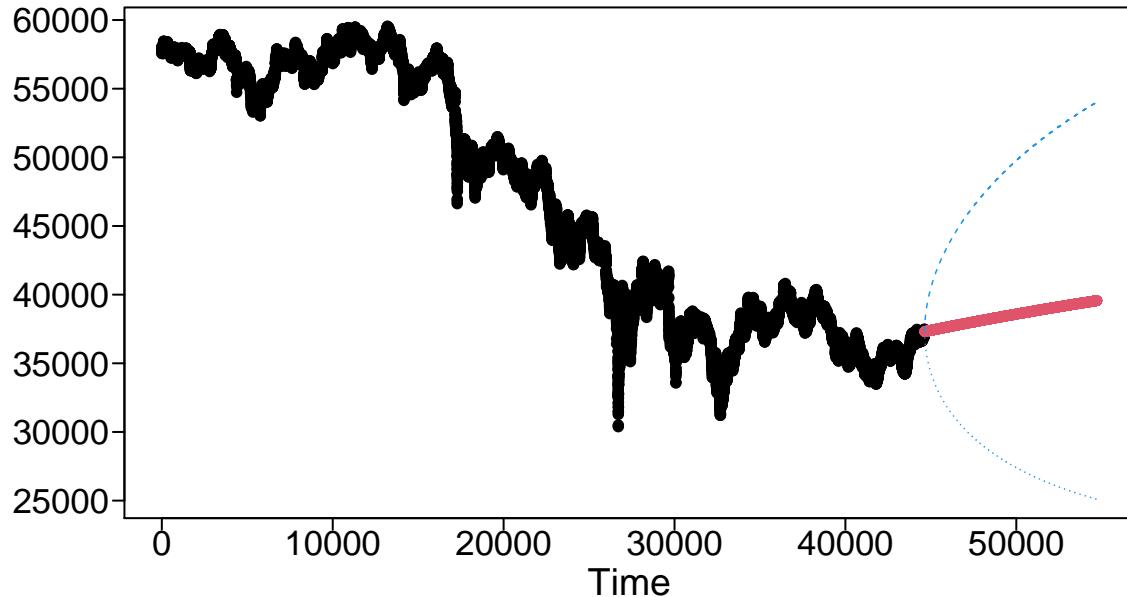
RMSEs for Individual Windows



```
## [1] "The Summary Statistics for the Rolling Window RMSE Are:"  
##      Min. 1st Qu. Median   Mean 3rd Qu.   Max.  
##    1154     2425    3859    4342    6187   9148  
## [1] "The Rolling Window RMSE is: 4341.545"
```

```
# Rolling Window RMSE = 4341.545
```

```
forecast.period = 10080  
aic.fore.long.arma = fore.arma.wge(train$Open, phi=aic.est.arma$phi, theta = aic.est.arma$theta, n.ahead=10080)
```



Model 2 – BIC

ARMA(9,8)

```
bic.est.arma = est.arma.wge(train$Open, p=9, q=8)
```

```
## -0.6169 -0.4894 -1.2061 -0.6096 -0.7290 -0.7915 -0.5286 -0.4315
```

```
##
```

```
##
```

MA FACTOR TABLE

```
## Factor Roots Abs Recip System Freq
```

```
## 1-1.4264B+0.9552B^2 0.7467+-0.6996i 0.9773 0.1198
```

```
## 1-0.4195B+0.9177B^2 0.2286+-1.0186i 0.9579 0.2149
```

```
## 1+1.8609B+0.8931B^2 -1.0418+-0.1852i 0.9450 0.4720
```

```
## 1+0.6019B+0.5512B^2 -0.5460+-1.2313i 0.7424 0.3164
```

```
##
```

```
##
```

```
bic.est.arma$phi
```

```
## [1] 0.46785964 0.08472516 -0.73143698 0.66731828 -0.17725263 -0.05545247
```

```
## [7] 0.27508572 0.05936460 0.40965108
```

```
bic.est.arma$theta
```

```
## [1] -0.6168634 -0.4894319 -1.2060657 -0.6095681 -0.7289866 -0.7915384 -0.5286278
```

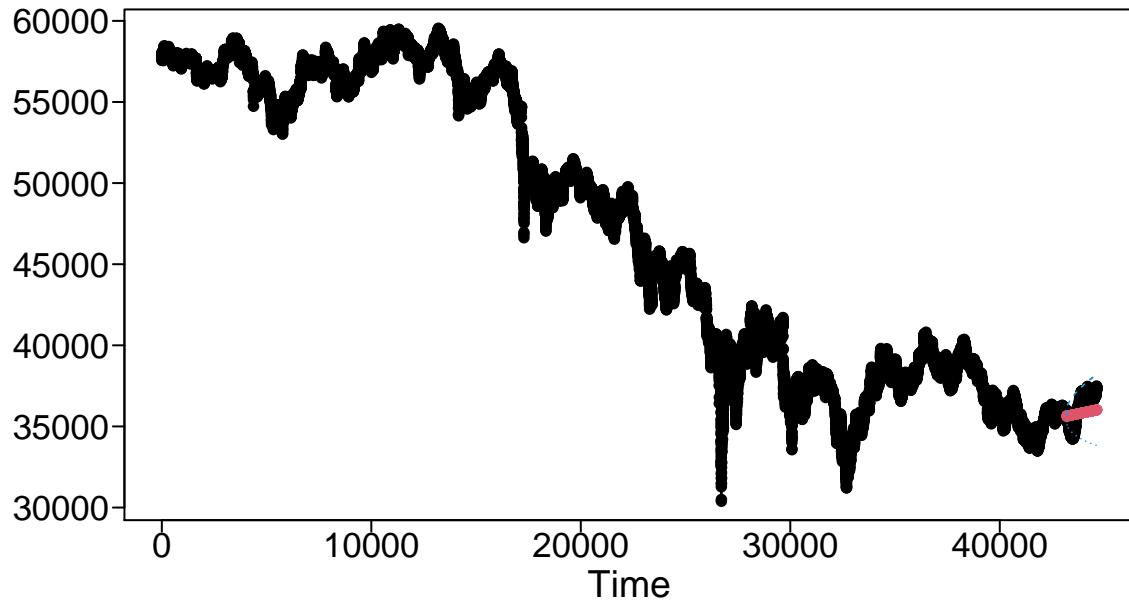
```
## [8] -0.4315091
```

```
bic.est.arma$avar
```

```
## [1] 6149.931
```

```
forecast.period = 1440
```

```
bic.fore.short.ar = fore.arma.wge(train$Open, phi=bic.est.arma$phi, theta=0, n.ahead=forecast.period, 1)
```



```

end.idx = length(train$Open)
start.idx = end.idx - forecast.period+1

bic.short.ASE = mean((train$Open[start.idx:end.idx] - bic.fore.short.ar$f)^2)
bic.short.ASE

## [1] 863240.5

# ASE = 863,240.53011344
sqrt(bic.short.ASE)

## [1] 929.1074

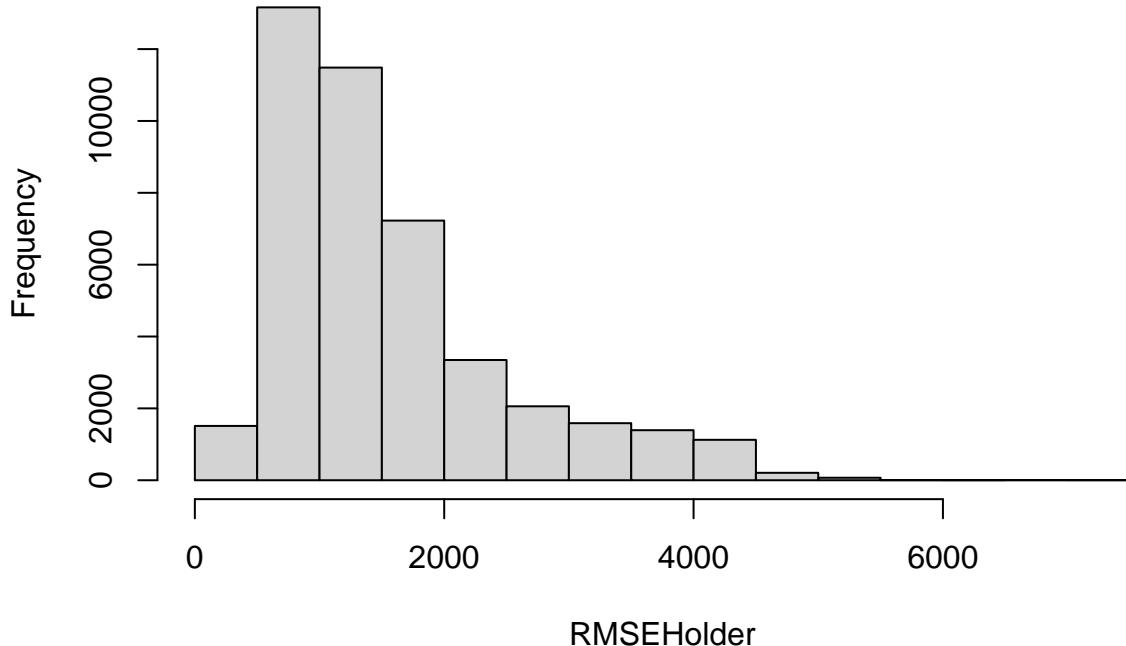
# Root ASE = 929.1074

roll.win.rmse.wge(train$Open, horizon = 1440, s = 0, d = 0, phi=bic.est.arma$phi, theta = 0)

## [1] "Please Hold For a Moment, TSWGE is processing the Rolling Window RMSE with 43190 windows."

```

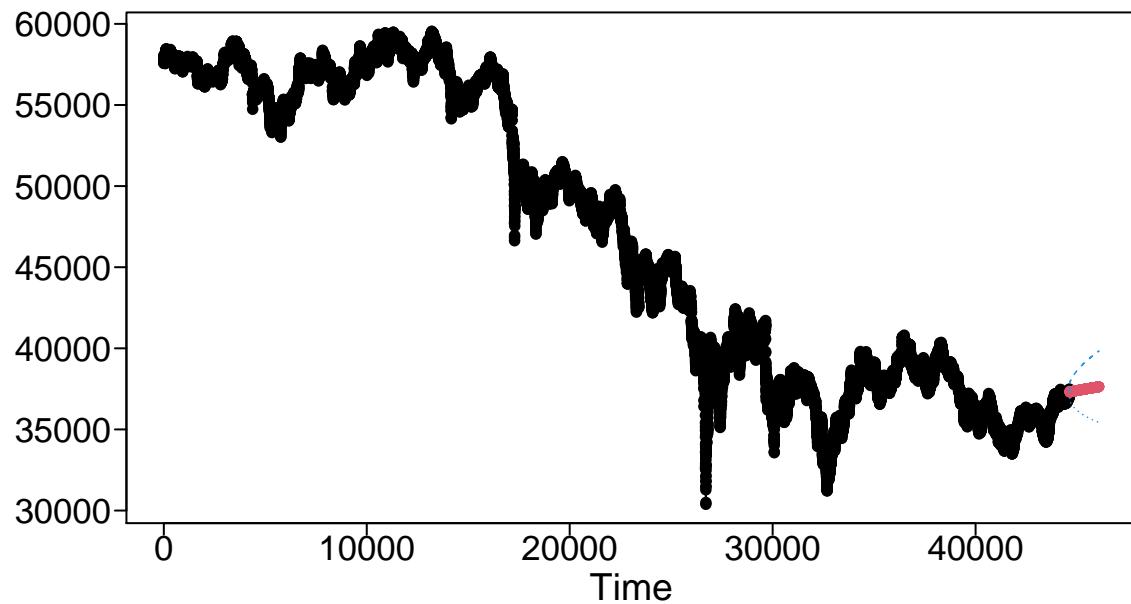
RMSEs for Individual Windows



```
## [1] "The Summary Statistics for the Rolling Window RMSE Are:"  
##   Min. 1st Qu. Median Mean 3rd Qu. Max.  
##   225.8 875.9 1273.3 1556.8 1894.8 7172.5  
## [1] "The Rolling Window RMSE is: 1556.836"
```

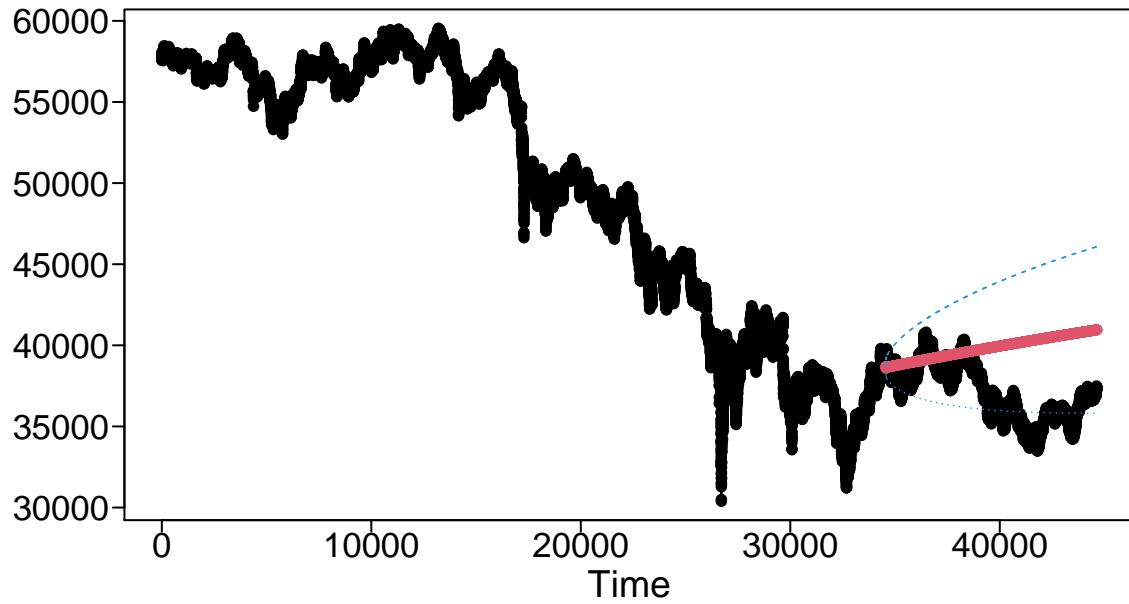
```
# Rolling Window RMSE = 1556.836
```

```
forecast.period = 1440  
bic.fore.short.ar = fore.arma.wge(train$Open, phi=bic.est.arma$phi, theta=0, n.ahead=forecast.period, 1)
```



```
#### Long-term Forecast
```

```
forecast.period = 10080  
bic.fore.long.ar = fore.arma.wge(train$Open, phi=bic.est.arma$phi, theta=0, n.ahead=forecast.period, la
```



```

end.idx = length(train$Open)
start.idx = end.idx - forecast.period+1

bic.long.ASE = mean((train$Open[start.idx:end.idx] - bic.fore.long.ar$f)^2)
bic.long.ASE

## [1] 12604613

# ASE = 12,604,613
sqrt(bic.long.ASE)

## [1] 3550.298

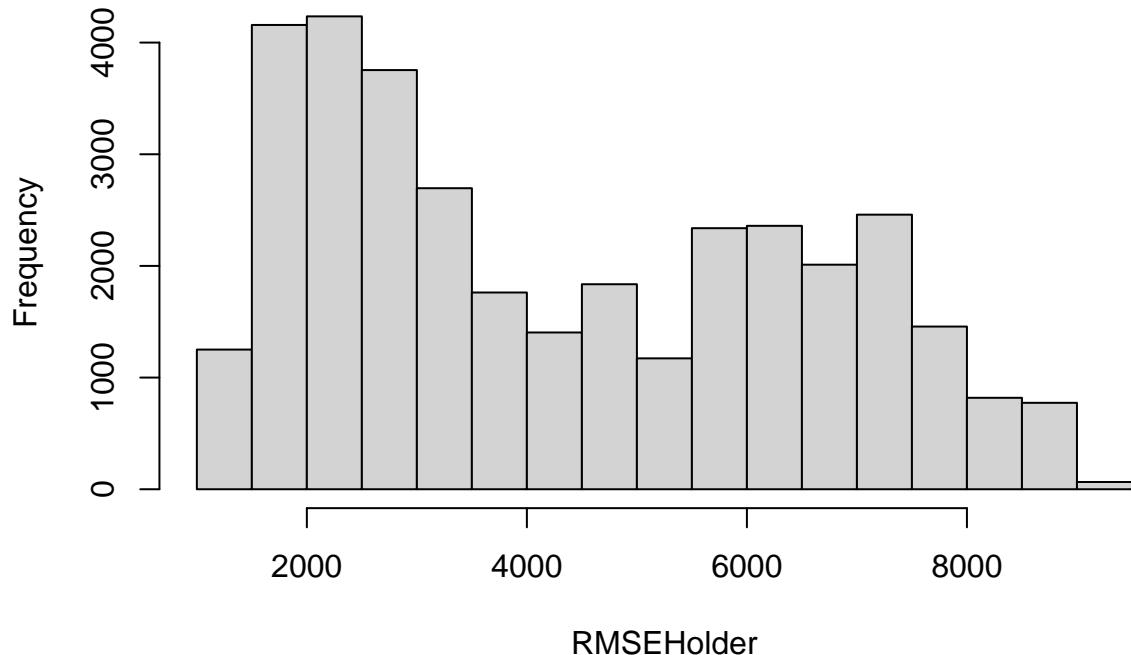
# Root ASE = 3,550.298

roll.win.rmse.wge(train$Open, horizon = forecast.period, s = 0, d = 0, phi=bic.est.arma$phi, theta = 0)

## [1] "Please Hold For a Moment, TSWGE is processing the Rolling Window RMSE with 34550 windows."

```

RMSEs for Individual Windows



```
## [1] "The Summary Statistics for the Rolling Window RMSE Are:"  
##      Min. 1st Qu. Median   Mean 3rd Qu.   Max.  
##    1123    2351   3777   4340    6261   9196  
## [1] "The Rolling Window RMSE is: 4340.17"
```

```
# Rolling Window RMSE = 4340.17
```

```
forecast.period = 10080  
bic.fore.long.ar = fore.arma.wge(train$Open, phi=bic.est.arma$phi, theta=0, n.ahead=forecast.period, la
```

