Data exploration

The following data looks specifically at Pennsylvania data

```
library(tidyverse)
library(cowplot)
library(reticulate)
library(lmtest)
library(forecast)
```

Power plants

```
np = import("numpy")
dat = np$load("model_dev_data/phil.npz")
locs = as.data.frame(dat["locs"])
names(locs) = c("fid", "lon", "lat")
df = as.data.frame(t(dat["X"]))
names(df) = pasteO("_", dat["locs"][ ,1])
df = df %>%
   add_column(ym = dat["ym"], .before=1) %>%
   pivot_longer(names_to="fid", values_to = "so2", cols = -ym) %>%
   mutate(date=lubridate::ymd(pasteO(ym, "01")))
```

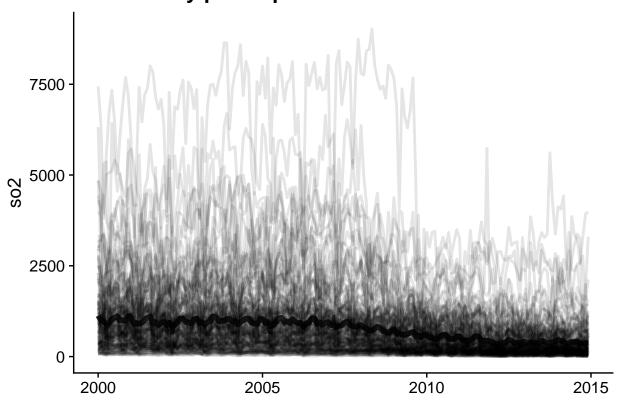
```
## # A tibble: 6 x 4
##
           fid
                  so2 date
    уm
    <chr> <chr> <dbl> <date>
## 1 200001 _3 1120. 2000-01-01
## 2 200001 _7
                 367. 2000-01-01
                 1222. 2000-01-01
## 3 200001 _8
## 4 200001 _10
                 2793. 2000-01-01
## 5 200001 _47
                 1394. 2000-01-01
## 6 200001 _50
                  443. 2000-01-01
```

From the next plot it is evident that we need a transformation to make the behavior of the pollution more stable. We can perform a power transform to stabilize variance.

```
mean_so2_df = df \%
  group_by(date) %>%
  summarize(mean_so2=mean(so2), .groups="drop")
ggplot() +
  geom_line(
    aes(x=date, y=so2, group=factor(fid)),
    alpha=0.1,
    size=1,
    data=df
  ) +
  geom_line(
    aes(x=date, y=mean_so2),
    color="black",
    size=2,
    alpha=0.8,
    data=mean_so2_df
 ) +
```

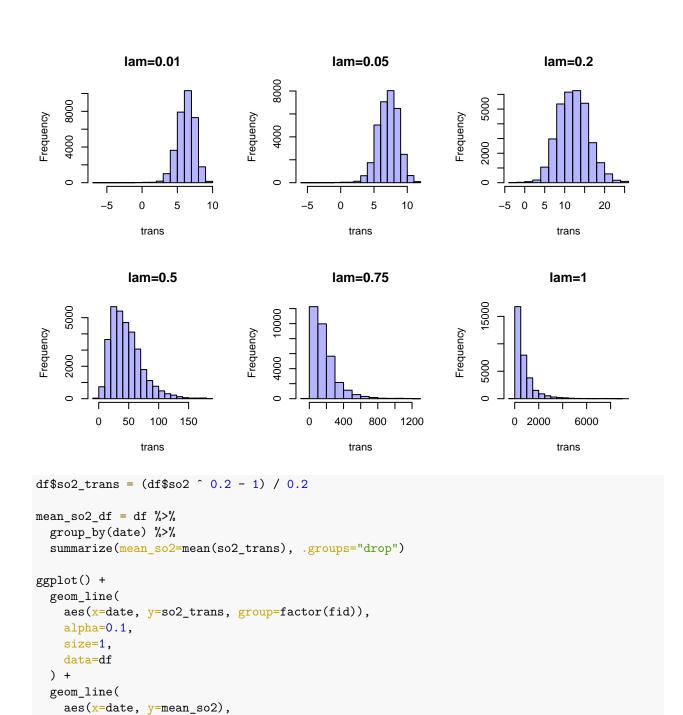
```
labs(title="so2 of every power plant", y="so2") +
theme_cowplot() +
theme(axis.title.x = element_blank())
```

so2 of every power plant



Let's look at different histograms for the one-day difference series.

```
lams = c(0.01, 0.05, 0.2, 0.5, 0.75, 1.0)
par(mfrow=c(2, 3))
for (lam in lams) {
   trans = (df$so2 ^ lam - 1) / lam
   hist(trans, main=paste0("lam=", lam), col=alpha("blue", 0.3))
}
```



labs(title="so2 of every power plant 1/5 power transform", y="so2") +

color="black",

data=mean_so2_df

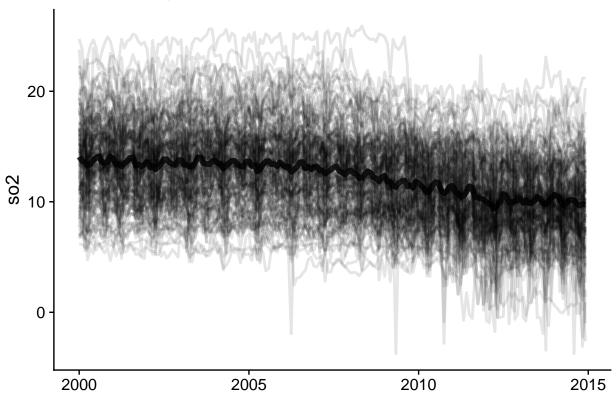
theme_cowplot() +

theme(axis.title.x = element_blank())

size=2,
alpha=0.8,

) +

so2 of every power plant 1/5 power transform

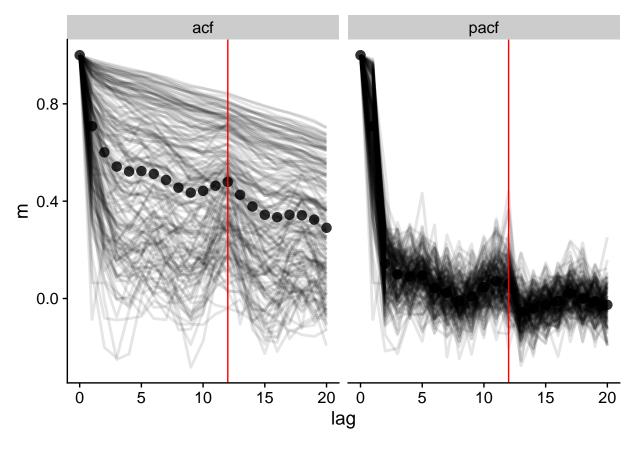


Plotting auto-correlations and fitting auto-arimas

```
acfs = df %>%
  arrange(fid, date) %>%
  group_by(fid) %>%
  group_map(
    ~ tibble(
      fid=.x$fid[1],
      acf=as.vector(acf(.x$so2_trans, lag.max = 20, plot=FALSE)$acf),
      pacf=c(1.0, as.vector(pacf(.x$so2_trans, lag.max = 20, plot=FALSE)$acf)),
      lag=0:20
    ),
    .keep=TRUE
) %>%
  bind_rows
```

```
acfs_piv = acfs %>%
  pivot_longer(
    names_to="variable",
    values_to="value",
    cols=-c(lag, fid)
)
acfs_piv_m = acfs_piv %>%
  group_by(variable, lag) %>%
  summarize(m=mean(value), .groups="drop")
ggplot() +
  geom_point(
```

```
aes(x=lag, y=m),
data=acfs_piv_m,
size=3,
alpha=0.8,
) +
geom_line(
   aes(x=lag, y=value, group=fid),
   data=acfs_piv,
   size=1,
   alpha=0.1,
) +
facet_wrap(variable ~ .) +
geom_vline(xintercept=12, col="red") +
theme_cowplot()
```



We see that on average series behave like a ARIMA(1,1,1) series although we can't really do much processing from the features data.

```
dfarma = df %>%
  group_by(fid) %>%
  group_map(~ {
    mod = auto.arima(.x$so2_trans, D=12)
    ar = mod$arma[1]
    ma = mod$arma[2]
    intr = mod$arma[6]
    tibble(fid=.x$fid[1], ar=ar, ma=ma, intr=intr)
```

```
}, .keep=TRUE) %>%
bind_rows()
dfarma %>%
summarize(
    ar=mean(ar),
    ma=mean(ma),
    intr=mean(intr),
    .groups="drop"
)

## # A tibble: 1 x 3
## ar ma intr
## <dbl> <dbl> <dbl> <dbl>
## 1 0.983 1.52 0.911
```

Locations

For convenience, let's only look at the 10 most polluted places

```
vgrid = dat["v"]
nt = dim(ygrid)[3]
xcoords = dat["xcoords"]
ycoords = dat["ycoords"]
xcoords_in = dat["xcoords_in"]
ycoords_in = dat["ycoords_in"]
obspre = expand.grid(
 x=1:sum(xcoords_in),
 y=1:sum(ycoords_in)
) %>%
 mutate(
   lon=xcoords[xcoords_in][x],
   lat=ycoords[ycoords_in][y]
 )
obs = bind_rows(replicate(nt, obspre, simplify = FALSE)) %>%
 arrange(x, y)
obs$t = rep(1:nt, nrow(obspre))
obs = obs %>%
 arrange(t, y, x)
obs$value = as.vector(ygrid)
obsmean = obs %>%
 group_by(x, y) %>%
  summarize(m=mean(value), .groups="drop") %>%
  arrange(desc(m))
obsmean
## # A tibble: 127,200 x 3
##
         x
              У
                    m
##
      <int> <int> <dbl>
         8
            111 5.76
## 1
## 2
       275
             62 5.68
            162 5.64
## 3
       530
       290
            162 5.63
## 4
## 5
       277
             139 5.61
```

```
##
        248
              111 5.50
##
   7
        247
              111 5.49
##
    8
        298
              110 5.46
        278
              139 5.34
##
    9
## 10
        114
               61 5.33
## # ... with 127,190 more rows
rows = 1:100
rows = sample(nrow(obsmean), 10)
topx = obsmean$x[rows]
topy = obsmean$y[rows]
dates = lubridate::ymd(paste0(dat["ym"], "01"))
obsf = obs %>%
  filter(x %in% topx, y %in% topy) %>%
  mutate(
    loc=paste0(x, "_", y),
    dates=dates[t]
  )
obsf
##
           х
               У
                     lon
                             lat
                                   t value
                                               loc
                                                         dates
         136
## 1
             49 -79.195 40.135
                                       3.5
                                            136_49 2000-01-01
              49 -78.975 40.135
         158
                                       3.5
                                            158 49 2000-01-01
## 3
         188
              49 -78.675 40.135
                                       3.5
                                            188_49 2000-01-01
                                   1
## 4
         203
              49 -78.525 40.135
                                   1
                                       3.7
                                            203 49 2000-01-01
## 5
         273
              49 -77.825 40.135
                                       3.2
                                            273 49 2000-01-01
## 6
         347
              49 -77.085 40.135
                                       3.4
                                            347 49 2000-01-01
         353 49 -77.025 40.135
                                            353_49 2000-01-01
## 7
                                   1
                                       3.3
         374 49 -76.815 40.135
## 8
                                   1
                                       3.4
                                            374_49 2000-01-01
         442 49 -76.135 40.135
                                            442_49 2000-01-01
## 9
                                       3.7
                                       3.7
## 10
         461 49 -75.945 40.135
                                            461_49 2000-01-01
                                   1
## 11
         136
              95 -79.195 40.595
                                   1
                                       2.9
                                            136_95 2000-01-01
## 12
         158
              95 -78.975 40.595
                                   1
                                       3.1
                                            158_95 2000-01-01
## 13
         188
             95 -78.675 40.595
                                       3.0
                                            188_95 2000-01-01
         203 95 -78.525 40.595
                                            203_95 2000-01-01
## 14
                                       3.3
                                   1
```

3.5

2.9

2.9

3.3

1

1

1

1

1

273 95 2000-01-01

347 95 2000-01-01

353 95 2000-01-01

374_95 2000-01-01

442 95 2000-01-01

3.4 461_95 2000-01-01

3.6 136 127 2000-01-01

4.0 158 127 2000-01-01

2.9 188 127 2000-01-01

2.8 203_127 2000-01-01

3.3 273_127 2000-01-01

3.5 347_127 2000-01-01

3.5 353_127 2000-01-01

3.5 374_127 2000-01-01

2.8 442_127 2000-01-01

3.0 461_127 2000-01-01

3.0 136_134 2000-01-01

3.1 158 134 2000-01-01

3.4 188_134 2000-01-01

3.4 203 134 2000-01-01

15

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34

442

461

273 95 -77.825 40.595

347 95 -77.085 40.595

353 95 -77.025 40.595

374 95 -76.815 40.595

136 127 -79.195 40.915

158 127 -78.975 40.915

188 127 -78.675 40.915

203 127 -78.525 40.915

273 127 -77.825 40.915

347 127 -77.085 40.915

353 127 -77.025 40.915

374 127 -76.815 40.915

442 127 -76.135 40.915

461 127 -75.945 40.915

136 134 -79.195 40.985

158 134 -78.975 40.985

188 134 -78.675 40.985

203 134 -78.525 40.985

95 -76.135 40.595

95 -75.945 40.595

```
## 35
         273 134 -77.825 40.985
                                       3.8 273 134 2000-01-01
## 36
         347 134 -77.085 40.985
                                       2.9 347_134 2000-01-01
## 37
         353 134 -77.025 40.985
                                       2.8 353 134 2000-01-01
                                       3.0 374_134 2000-01-01
## 38
         374 134 -76.815 40.985
## 39
         442 134 -76.135 40.985
                                       3.3 442_134 2000-01-01
## 40
         461 134 -75.945 40.985
                                       3.6 461 134 2000-01-01
## 41
         136 169 -79.195 41.335
                                       3.1 136 169 2000-01-01
## 42
         158 169 -78.975 41.335
                                   1
                                       3.5 158 169 2000-01-01
## 43
         188 169 -78.675 41.335
                                   1
                                       3.7 188_169 2000-01-01
## 44
         203 169 -78.525 41.335
                                       3.7 203_169 2000-01-01
## 45
         273 169 -77.825 41.335
                                       2.7 273_169 2000-01-01
## 46
         347 169 -77.085 41.335
                                       3.4 347_169 2000-01-01
## 47
         353 169 -77.025 41.335
                                       3.3 353_169 2000-01-01
## 48
         374 169 -76.815 41.335
                                       3.2 374_169 2000-01-01
## 49
         442 169 -76.135 41.335
                                       3.6 442_169 2000-01-01
## 50
         461 169 -75.945 41.335
                                       3.6 461_169 2000-01-01
## 51
         136 179 -79.195 41.435
                                   1
                                       3.6 136_179 2000-01-01
## 52
         158 179 -78.975 41.435
                                       3.5 158 179 2000-01-01
## 53
         188 179 -78.675 41.435
                                       3.5 188_179 2000-01-01
## 54
         203 179 -78.525 41.435
                                       3.3 203 179 2000-01-01
         273 179 -77.825 41.435
## 55
                                       2.9 273_179 2000-01-01
         347 179 -77.085 41.435
## 56
                                       3.4 347 179 2000-01-01
## 57
         353 179 -77.025 41.435
                                   1
                                       3.4 353_179 2000-01-01
## 58
         374 179 -76.815 41.435
                                   1
                                       3.6 374 179 2000-01-01
## 59
         442 179 -76.135 41.435
                                       3.2 442 179 2000-01-01
## 60
         461 179 -75.945 41.435
                                       2.9 461 179 2000-01-01
         136 205 -79.195 41.695
                                       2.6 136_205 2000-01-01
## 61
## 62
         158 205 -78.975 41.695
                                       2.4 158_205 2000-01-01
## 63
         188 205 -78.675 41.695
                                       2.9 188_205 2000-01-01
## 64
         203 205 -78.525 41.695
                                       3.0 203_205 2000-01-01
## 65
         273 205 -77.825 41.695
                                   1
                                       3.5 273_205 2000-01-01
## 66
         347 205 -77.085 41.695
                                   1
                                       3.8 347_205 2000-01-01
## 67
         353 205 -77.025 41.695
                                       3.6 353_205 2000-01-01
                                       2.8 374_205 2000-01-01
## 68
         374 205 -76.815 41.695
         442 205 -76.135 41.695
                                       3.0 442 205 2000-01-01
## 69
## 70
         461 205 -75.945 41.695
                                       3.1 461_205 2000-01-01
## 71
         136 217 -79.195 41.815
                                       3.6 136 217 2000-01-01
         158 217 -78.975 41.815
                                       3.3 158_217 2000-01-01
## 72
## 73
         188 217 -78.675 41.815
                                       3.6 188 217 2000-01-01
## 74
         203 217 -78.525 41.815
                                       3.5 203_217 2000-01-01
## 75
         273 217 -77.825 41.815
                                       2.6 273 217 2000-01-01
         347 217 -77.085 41.815
                                       3.1 347 217 2000-01-01
## 76
## 77
         353 217 -77.025 41.815
                                       3.1 353 217 2000-01-01
## 78
         374 217 -76.815 41.815
                                       3.6 374_217 2000-01-01
## 79
         442 217 -76.135 41.815
                                       3.5 442_217 2000-01-01
                                       3.6 461_217 2000-01-01
## 80
         461 217 -75.945 41.815
                                   1
## 81
         136 219 -79.195 41.835
                                   1
                                       3.7 136_219 2000-01-01
## 82
         158 219 -78.975 41.835
                                       2.7 158_219 2000-01-01
## 83
         188 219 -78.675 41.835
                                       2.6 188_219 2000-01-01
## 84
         203 219 -78.525 41.835
                                       2.9 203_219 2000-01-01
## 85
         273 219 -77.825 41.835
                                   1
                                       3.4 273_219 2000-01-01
## 86
         347 219 -77.085 41.835
                                       3.6 347_219 2000-01-01
## 87
         353 219 -77.025 41.835
                                       3.6 353_219 2000-01-01
## 88
         374 219 -76.815 41.835
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```
## 89
         442 219 -76.135 41.835
                                       2.8 442 219 2000-01-01
## 90
         461 219 -75.945 41.835
                                       3.0 461_219 2000-01-01
         136 230 -79.195 41.945
                                       2.9 136 230 2000-01-01
         158 230 -78.975 41.945
                                       3.0 158_230 2000-01-01
## 92
## 93
         188 230 -78.675 41.945
                                       3.2 188 230 2000-01-01
## 94
         203 230 -78.525 41.945
                                       3.4 203 230 2000-01-01
## 95
         273 230 -77.825 41.945
                                       3.5 273 230 2000-01-01
## 96
         347 230 -77.085 41.945
                                   1
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## 97
         353 230 -77.025 41.945
                                   1
                                       2.7 353_230 2000-01-01
## 98
         374 230 -76.815 41.945
                                       2.9 374_230 2000-01-01
## 99
         442 230 -76.135 41.945
                                       3.4 442_230 2000-01-01
                                       3.3 461_230 2000-01-01
## 100
         461 230 -75.945 41.945
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## 101
         136
              49 -79.195 40.135
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                                       5.3 136_49 2000-02-01
                                            158_49 2000-02-01
## 102
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              49 -78.675 40.135
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                                            353_49 2000-02-01
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                                       5.2
                                            374 49 2000-02-01
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              49 -76.135 40.135
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                                       5.7 273 127 2000-02-01
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                                       6.0 353_127 2000-02-01
## 127
         353 127 -77.025 40.915
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                                       6.1 374_127 2000-02-01
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                                       5.1 442 127 2000-02-01
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## 133
         188 134 -78.675 40.985
                                       6.0 188_134 2000-02-01
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         203 134 -78.525 40.985
                                       5.9 203_134 2000-02-01
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## 135
         273 134 -77.825 40.985
                                       6.3 273_134 2000-02-01
## 136
         347 134 -77.085 40.985
                                       5.1 347_134 2000-02-01
                                       5.1 353_134 2000-02-01
## 137
         353 134 -77.025 40.985
## 138
         374 134 -76.815 40.985
                                       5.4 374_134 2000-02-01
## 139
         442 134 -76.135 40.985
                                   2
                                       5.9 442_134 2000-02-01
## 140
         461 134 -75.945 40.985
                                       6.1 461_134 2000-02-01
## 141
         136 169 -79.195 41.335
                                       5.5 136_169 2000-02-01
## 142
         158 169 -78.975 41.335
                                       6.2 158 169 2000-02-01
```

```
## 143
         188 169 -78.675 41.335
                                       6.3 188 169 2000-02-01
                                   2
## 144
         203 169 -78.525 41.335
                                       6.3 203_169 2000-02-01
## 145
         273 169 -77.825 41.335
                                       5.2 273 169 2000-02-01
## 146
         347 169 -77.085 41.335
                                       5.8 347_169 2000-02-01
## 147
         353 169 -77.025 41.335
                                       5.9 353_169 2000-02-01
                                   2
## 148
         374 169 -76.815 41.335
                                       5.7 374 169 2000-02-01
## 149
         442 169 -76.135 41.335
                                       6.2 442 169 2000-02-01
## 150
         461 169 -75.945 41.335
                                       6.2 461 169 2000-02-01
## 151
         136 179 -79.195 41.435
                                   2
                                       6.2 136_179 2000-02-01
## 152
         158 179 -78.975 41.435
                                       6.1 158_179 2000-02-01
## 153
         188 179 -78.675 41.435
                                       6.0 188_179 2000-02-01
## 154
         203 179 -78.525 41.435
                                       5.7 203_179 2000-02-01
## 155
         273 179 -77.825 41.435
                                   2
                                       5.4 273_179 2000-02-01
## 156
         347 179 -77.085 41.435
                                       5.9 347_179 2000-02-01
## 157
         353 179 -77.025 41.435
                                       6.0 353_179 2000-02-01
## 158
         374 179 -76.815 41.435
                                       6.2 374_179 2000-02-01
## 159
                                   2
         442 179 -76.135 41.435
                                       5.5 442_179 2000-02-01
## 160
         461 179 -75.945 41.435
                                       5.2 461 179 2000-02-01
                                       5.1 136_205 2000-02-01
## 161
         136 205 -79.195 41.695
## 162
         158 205 -78.975 41.695
                                       5.1 158 205 2000-02-01
## 163
         188 205 -78.675 41.695
                                       5.5 188_205 2000-02-01
         203 205 -78.525 41.695
                                       5.6 203 205 2000-02-01
## 164
                                       6.2 273_205 2000-02-01
## 165
         273 205 -77.825 41.695
                                   2
## 166
         347 205 -77.085 41.695
                                       6.1 347 205 2000-02-01
## 167
         353 205 -77.025 41.695
                                       6.0 353 205 2000-02-01
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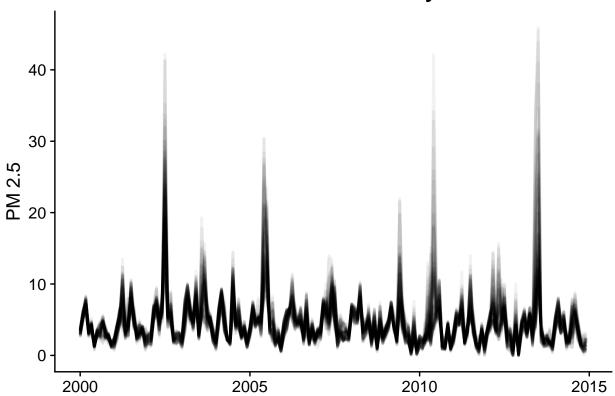
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                                           188_95 2010-05-01
                                      2.8
                                           203_95 2010-05-01
## 12414 203
              95 -78.525 40.595 125
## 12415 273
              95 -77.825 40.595 125
                                           273_95 2010-05-01
                                      4.0
## 12416 347
              95 -77.085 40.595 125
                                      2.0
                                           347_95 2010-05-01
              95 -77.025 40.595 125
                                      2.1 353_95 2010-05-01
## 12417 353
## 12418 374
              95 -76.815 40.595 125
                                      2.0
                                          374 95 2010-05-01
                                      2.8 442 95 2010-05-01
## 12419 442
              95 -76.135 40.595 125
## 12420 461
             95 -75.945 40.595 125
                                      3.2 461 95 2010-05-01
## 12421 136 127 -79.195 40.915 125
                                      3.7 136_127 2010-05-01
## 12422 158 127 -78.975 40.915 125
                                      4.3 158 127 2010-05-01
## 12423 188 127 -78.675 40.915 125
                                      1.6 188_127 2010-05-01
## 12424 203 127 -78.525 40.915 125
                                      1.7 203 127 2010-05-01
## 12425 273 127 -77.825 40.915 125
                                      2.1 273 127 2010-05-01
## 12426 347 127 -77.085 40.915 125
                                      3.7 347 127 2010-05-01
## 12427 353 127 -77.025 40.915 125
                                      4.0 353_127 2010-05-01
## 12428 374 127 -76.815 40.915 125
                                      3.7 374_127 2010-05-01
## 12429 442 127 -76.135 40.915 125
                                      1.7 442_127 2010-05-01
## 12430 461 127 -75.945 40.915 125
                                      1.7 461_127 2010-05-01
## 12431 136 134 -79.195 40.985 125
                                      1.4 136_134 2010-05-01
## 12432 158 134 -78.975 40.985 125
                                      1.8 158_134 2010-05-01
## 12433 188 134 -78.675 40.985 125
                                      2.3 188_134 2010-05-01
## 12434 203 134 -78.525 40.985 125
                                      2.6 203_134 2010-05-01
## 12435 273 134 -77.825 40.985 125
                                      4.1 273 134 2010-05-01
## 12436 347 134 -77.085 40.985 125
                                      1.4 347_134 2010-05-01
## 12437 353 134 -77.025 40.985 125
                                      1.6 353 134 2010-05-01
## 12438 374 134 -76.815 40.985 125
                                      1.4 374_134 2010-05-01
## 12439 442 134 -76.135 40.985 125
                                      2.5 442_134 2010-05-01
## 12440 461 134 -75.945 40.985 125
                                      3.3 461_134 2010-05-01
## 12441 136 169 -79.195 41.335 125
                                      3.2 136 169 2010-05-01
## 12442 158 169 -78.975 41.335 125
                                      4.9 158 169 2010-05-01
## 12443 188 169 -78.675 41.335 125
                                      5.7 188 169 2010-05-01
## 12444 203 169 -78.525 41.335 125
                                      4.9 203_169 2010-05-01
## 12445 273 169 -77.825 41.335 125
                                      1.3 273_169 2010-05-01
## 12446 347 169 -77.085 41.335 125
                                      2.2 347_169 2010-05-01
## 12447 353 169 -77.025 41.335 125
                                      2.4 353_169 2010-05-01
## 12448 374 169 -76.815 41.335 125
                                      3.2 374_169 2010-05-01
## 12449 442 169 -76.135 41.335 125
                                      5.1 442_169 2010-05-01
## 12450 461 169 -75.945 41.335 125
                                      5.0 461_169 2010-05-01
## 12451 136 179 -79.195 41.435 125
                                      5.5 136_179 2010-05-01
## 12452 158 179 -78.975 41.435 125
                                      6.8 158_179 2010-05-01
## 12453 188 179 -78.675 41.435 125
                                      7.0 188 179 2010-05-01
                                     6.0 203_179 2010-05-01
## 12454 203 179 -78.525 41.435 125
```

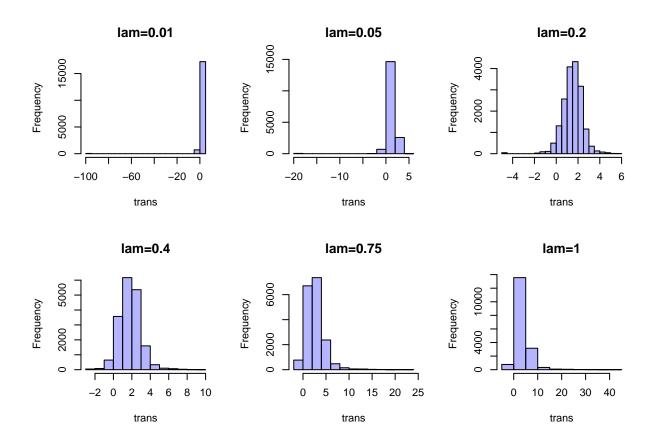
```
## 12455 273 179 -77.825 41.435 125
                                      1.4 273 179 2010-05-01
## 12456 347 179 -77.085 41.435 125
                                      3.4 347_179 2010-05-01
## 12457 353 179 -77.025 41.435 125
                                      3.4 353 179 2010-05-01
## 12458 374 179 -76.815 41.435 125
                                      5.3 374_179 2010-05-01
                                      6.1 442_179 2010-05-01
## 12459 442 179 -76.135 41.435 125
## 12460 461 179 -75.945 41.435 125
                                      1.4 461 179 2010-05-01
## 12461 136 205 -79.195 41.695 125
                                      1.6 136 205 2010-05-01
## 12462 158 205 -78.975 41.695 125
                                      1.5 158 205 2010-05-01
## 12463 188 205 -78.675 41.695 125
                                      1.8 188 205 2010-05-01
## 12464 203 205 -78.525 41.695 125
                                      1.7 203_205 2010-05-01
## 12465 273 205 -77.825 41.695 125
                                      8.0 273_205 2010-05-01
## 12466 347 205 -77.085 41.695 125
                                      10.2 347_205 2010-05-01
## 12467 353 205 -77.025 41.695 125
                                      8.7 353_205 2010-05-01
## 12468 374 205 -76.815 41.695 125
                                       1.7 374_205 2010-05-01
## 12469 442 205 -76.135 41.695 125
                                       1.7 442_205 2010-05-01
## 12470 461 205 -75.945 41.695 125
                                       2.3 461_205 2010-05-01
## 12471 136 217 -79.195 41.815 125
                                      5.5 136_217 2010-05-01
## 12472 158 217 -78.975 41.815 125
                                     11.1 158 217 2010-05-01
## 12473 188 217 -78.675 41.815 125
                                      8.1 188_217 2010-05-01
## 12474 203 217 -78.525 41.815 125
                                      8.5 203 217 2010-05-01
## 12475 273 217 -77.825 41.815 125
                                      2.1 273_217 2010-05-01
## 12476 347 217 -77.085 41.815 125
                                      3.6 347 217 2010-05-01
## 12477 353 217 -77.025 41.815 125
                                       4.4 353_217 2010-05-01
## 12478 374 217 -76.815 41.815 125
                                      5.0 374 217 2010-05-01
## 12479 442 217 -76.135 41.815 125
                                      8.5 442 217 2010-05-01
## 12480 461 217 -75.945 41.815 125
                                     15.1 461 217 2010-05-01
## 12481 136 219 -79.195 41.835 125
                                     11.6 136_219 2010-05-01
## 12482 158 219 -78.975 41.835 125
                                      2.1 158_219 2010-05-01
## 12483 188 219 -78.675 41.835 125
                                       2.2 188_219 2010-05-01
## 12484 203 219 -78.525 41.835 125
                                      1.8 203_219 2010-05-01
## 12485 273 219 -77.825 41.835 125
                                       4.8 273_219 2010-05-01
## 12486 347 219 -77.085 41.835 125
                                      11.0 347_219 2010-05-01
## 12487 353 219 -77.025 41.835 125
                                      14.2 353_219 2010-05-01
                                      12.2 374_219 2010-05-01
## 12488 374 219 -76.815 41.835 125
## 12489 442 219 -76.135 41.835 125
                                      1.9 442 219 2010-05-01
## 12490 461 219 -75.945 41.835 125
                                      2.0 461_219 2010-05-01
## 12491 136 230 -79.195 41.945 125
                                       2.1 136 230 2010-05-01
## 12492 158 230 -78.975 41.945 125
                                      3.4 158_230 2010-05-01
## 12493 188 230 -78.675 41.945 125
                                      4.7 188 230 2010-05-01
## 12494 203 230 -78.525 41.945 125
                                      5.4 203_230 2010-05-01
## 12495 273 230 -77.825 41.945 125
                                     14.2 273 230 2010-05-01
## 12496 347 230 -77.085 41.945 125
                                      2.2 347 230 2010-05-01
## 12497 353 230 -77.025 41.945 125
                                      2.2 353 230 2010-05-01
## 12498 374 230 -76.815 41.945 125
                                       2.1 374_230 2010-05-01
## 12499 442 230 -76.135 41.945 125
                                      5.4 442_230 2010-05-01
## [ reached 'max' / getOption("max.print") -- omitted 5501 rows ]
ggplot() +
  geom_line(
    aes(x=dates, y=value, group=loc),
    data=obsf,
    size=1,
    alpha=0.05
```

```
theme_cowplot() +
labs(
   title="PM 2.5 at random locations in Pennsylvania",
   y="PM 2.5"
) +
theme(axis.title.x = element_blank())
```

PM 2.5 at random locations in Pennsylvania



```
lams = c(0.01, 0.05, 0.2, 0.4, 0.75, 1.0)
par(mfrow=c(2, 3))
for (lam in lams) {
  trans = (obsf$value ^ lam - 1) / lam
  hist(trans, main=paste0("lam=", lam), col=alpha("blue", 0.3))
}
```

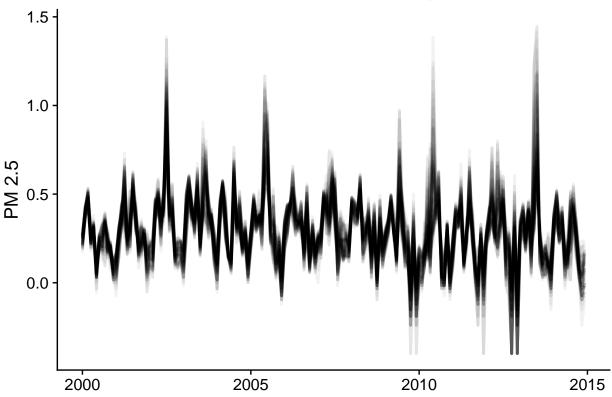


We arrive at the same conclusion that a good power transform is 0.2.

```
obs$pm25_trans = 0.4 * (obs$value^0.4 - 1)
obsf$pm25_trans = 0.4 * (obsf$value^0.4 - 1)

ggplot() +
    geom_line(
        aes(x=dates, y=pm25_trans, group=loc),
        data=obsf,
        size=1,
        alpha=0.05
) +
    theme_cowplot() +
    labs(
        title="PM 2.5 at random locations in Pennsylvania",
        y="PM 2.5"
) +
    theme(axis.title.x = element_blank())
```

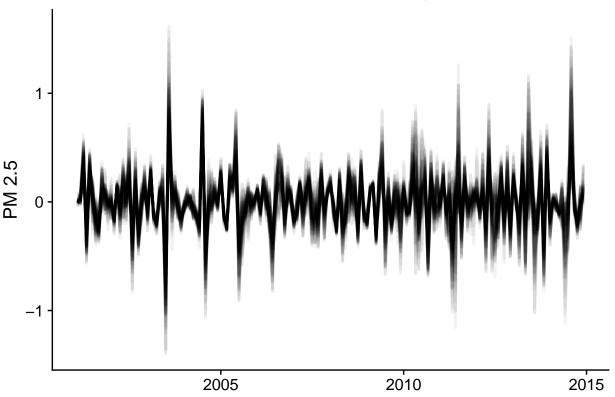
PM 2.5 at random locations in Pennsylvania



Now the same for 1 + 12 differentiation

```
obsf112 = obsf \%>\%
  group_by(loc) %>%
  mutate(d1 = pm25_trans - lag(pm25_trans)) %>%
 mutate(d112 = d1 - lag(d1, 12)) \%
  na.omit() %>%
  ungroup()
ggplot() +
  geom_line(
   aes(x=dates, y=d112, group=loc),
   data=obsf112,
   size=1,
    alpha=0.05
  theme_cowplot() +
  labs(
   title="PM 2.5 at random locations in Pennsylvania (Diff 1 + 12)",
   y="PM 2.5"
  ) +
  theme(axis.title.x = element_blank())
```

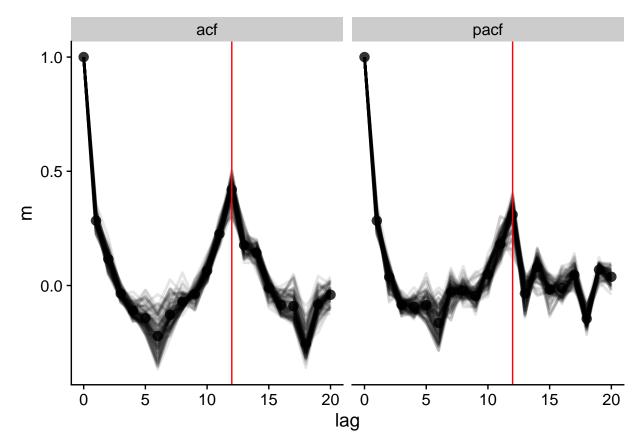
PM 2.5 at random locations in Pennsylvania (Diff 1 + 12)



Do the auto-arima for the pm 2.5 series

```
acfs = obsf %>%
  arrange(loc, dates) %>%
  group_by(loc) %>%
  group_map(
    ~ tibble(
      loc=.x$loc[1],
      acf=as.vector(acf(.x$pm25_trans, lag.max = 20, plot=FALSE)$acf),
      pacf=c(1.0, as.vector(pacf(.x$pm25_trans, lag.max = 20, plot=FALSE)$acf)),
      lag=0:20
    ),
    .keep=TRUE
  ) %>%
  bind_rows
acfs_piv = acfs %>%
  pivot_longer(
   names_to="variable",
    values_to="value",
    cols=-c(lag, loc)
  )
acfs_piv_m = acfs_piv %>%
  group_by(variable, lag) %>%
  summarize(m=mean(value), .groups="drop")
```

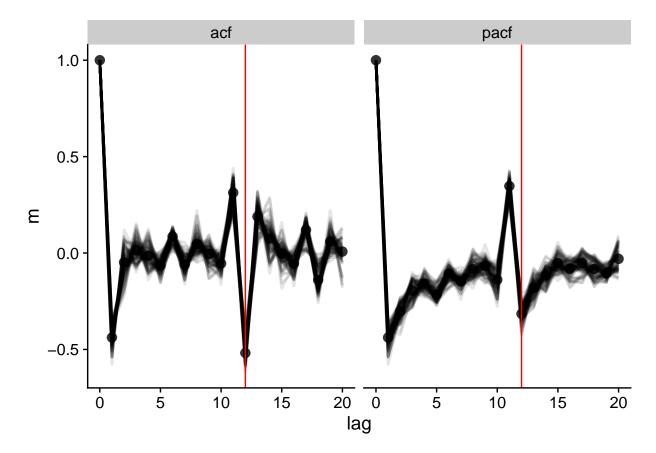
```
ggplot() +
  geom_point(
    aes(x=lag, y=m),
    data=acfs_piv_m,
    size=3,
    alpha=0.8,
  ) +
  geom_line(
    aes(x=lag, y=value, group=loc),
    data=acfs_piv,
    size=1,
    alpha=0.1,
  ) +
  facet_wrap(variable ~ .) +
  geom_vline(xintercept=12, col="red") +
  theme_cowplot()
```



Repeat for diff-1 diff-12 series

```
acfs = obsf %>%
  arrange(loc, dates) %>%
  group_by(loc) %>%
  mutate(value_d1 = pm25_trans - lag(pm25_trans)) %>%
  mutate(value_d1_d12 = value_d1 - lag(value_d1, 12)) %>%
  na.omit() %>%
  group_map(
```

```
~ tibble(
      loc=.x$loc[1],
      acf=as.vector(acf(.x$value_d1_d12, lag.max = 20, plot=FALSE)$acf),
      pacf=c(1.0, as.vector(pacf(.x$value_d1_d12, lag.max = 20, plot=FALSE)$acf)),
      lag=0:20
    ),
    .keep=TRUE
  ) %>%
  bind_rows
acfs_piv = acfs %>%
  pivot_longer(
   names_to="variable",
    values_to="value",
    cols=-c(lag, loc)
acfs_piv_m = acfs_piv %>%
  group_by(variable, lag) %>%
  summarize(m=mean(value), .groups="drop")
ggplot() +
  geom_point(
    aes(x=lag, y=m),
    data=acfs_piv_m,
   size=3,
   alpha=0.8,
  ) +
  geom_line(
    aes(x=lag, y=value, group=loc),
   data=acfs_piv,
    size=1,
    alpha=0.1,
  ) +
  facet_wrap(variable ~ .) +
  geom_vline(xintercept=12, col="red") +
  theme_cowplot()
```



We see that it may require high order ARIMAs.

```
dfarma = obsf %>%
  group_by(loc) %>%
  group_map(~ {
    mod = auto.arima(.x$pm25_trans, D=12)
    ar = mod\$arma[1]
    ma = mod$arma[2]
    intr = mod$arma[6]
    tibble(fid=.x$loc[1], ar=ar, ma=ma, intr=intr)
  }, .keep=TRUE) %>%
  bind_rows()
dfarma %>%
  summarize(
    ar=mean(ar),
    ma=mean(ma),
    intr=mean(intr),
    .groups="drop"
  )
## # A tibble: 1 x 3
```

```
## ar ma intr
## <dbl> <dbl> <dbl> <dbl> ## 1 0.96 0.88 0.27
```