Climate Change Project

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Guide 1

Chunk 1

```
source("/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide1functions.R")
```

Chunk 2

```
my.state = "RI"
filename.csv <- "/home/mwl04747/RTricks/04_Regional_Climate_Trends/stations.active.oldest.csv"
my.inventory <- readInventory.fun(filename.csv, my.state)
```

Chunk 3

```
datapath = "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Data/SP24/"
downloadStations.fun(datapath, my.inventory)
```

Guide 2

Chunk 1

```
source("/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide2functions.R")
```

Chunk 2

```
datafolder = "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Data/SP24/"
ReadStations2.fun(datafolder)
```

Chunk 3

```
# sortstations.fun() Nor working yet.
```

Chunk 4

```
USC00042294a <- fixDates.fun(USW00014765)
```

Chunk 5

```
coverage.fun(USC00042294a)
```

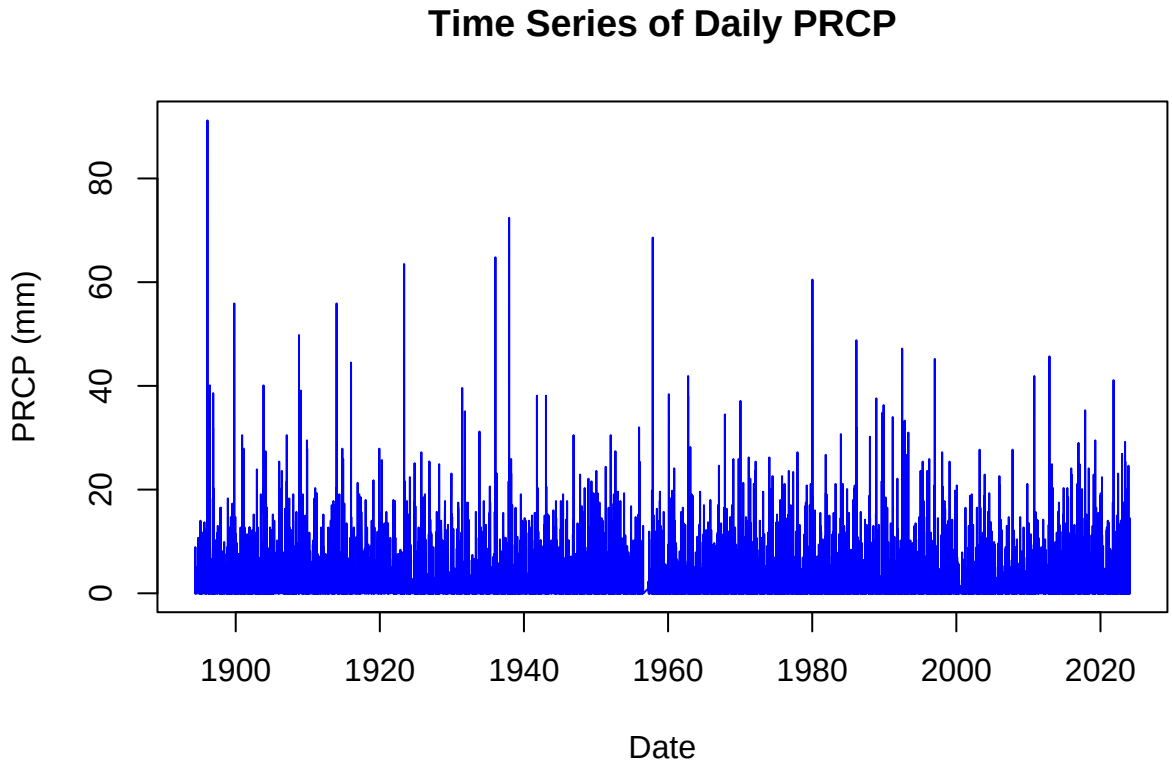
```
## [1] 98.21
```

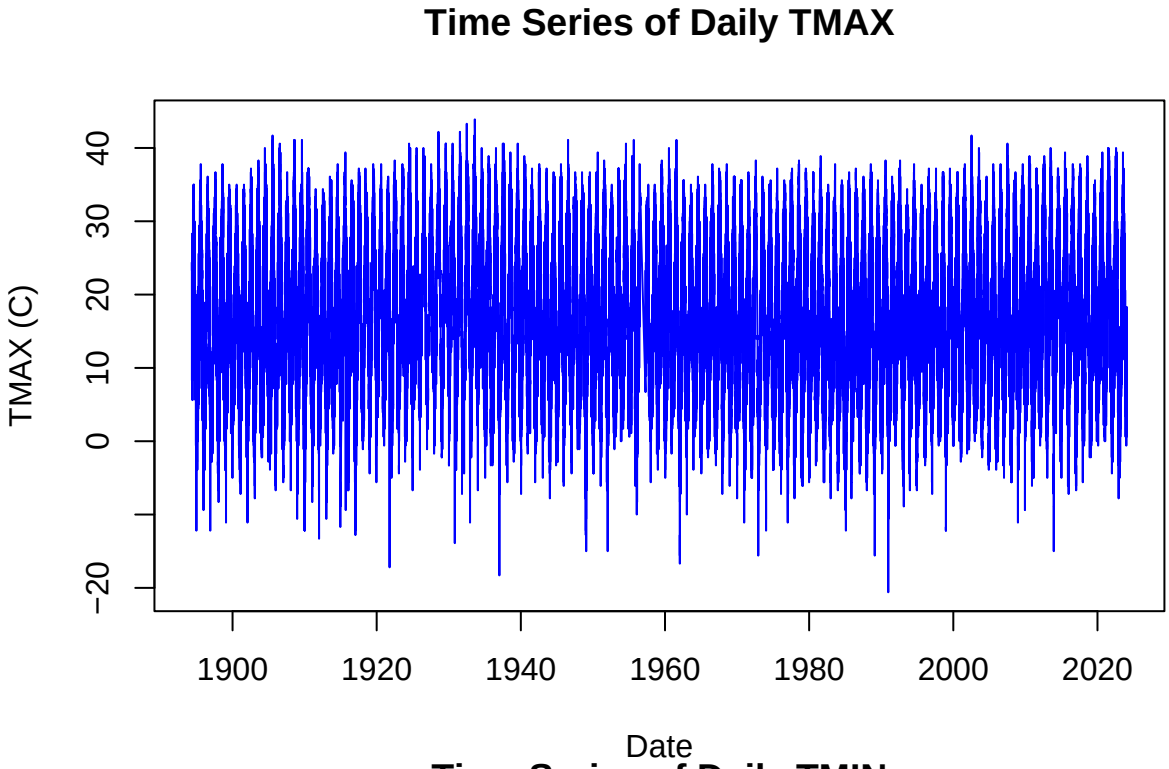
Chunk 6

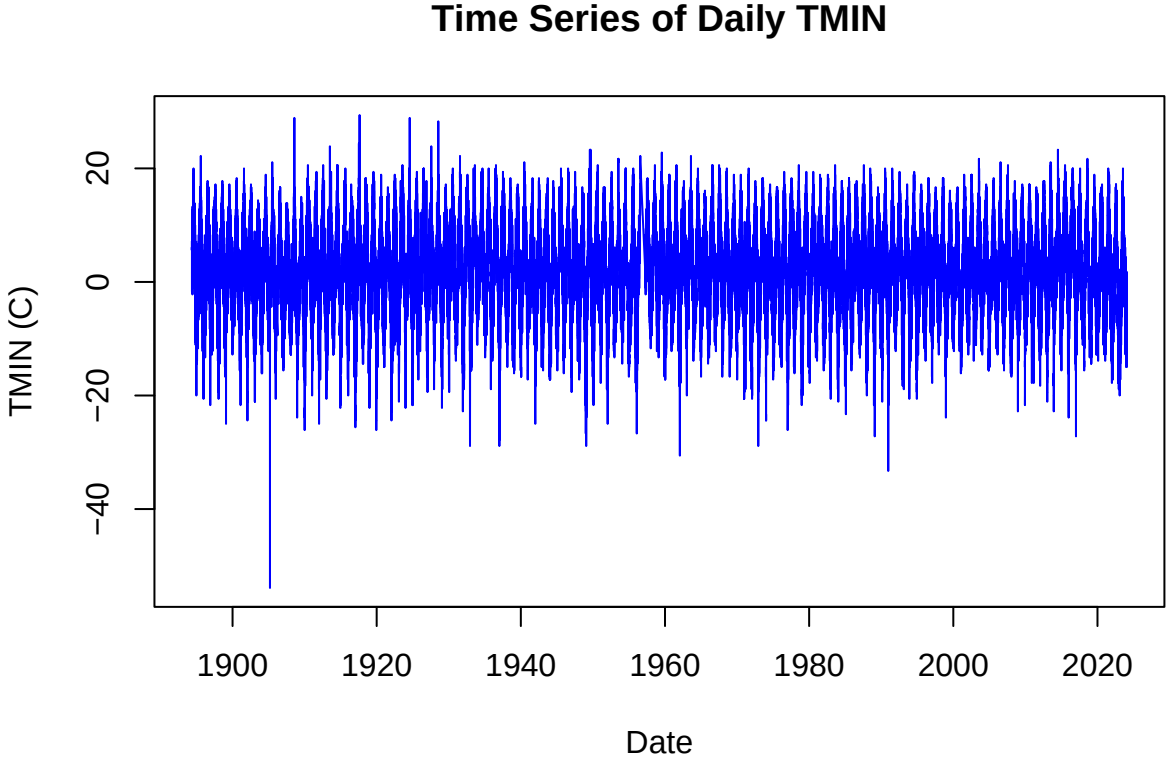
```
USC00042294b <- fixValues.fun(USC00042294a)
```

Chunk 7

```
QAQC.fun(USC00042294b)
```








```
##                 ID     DATE ELEMENT VALUE M.FLAG Q.FLAG S.FLAG OBS.TIME
## 66974  USC00041614 19491218    PRCP     0      P      L      6      800
## 199326 USC00041614 20151219    PRCP     0      T      L      7      700
##                Ymd MONTH YEAR
## 66974  1949-12-18    12 1949
## 199326 2015-12-19    12 2015
```

Chunk 8

```
USC00042294.monthly <- MonthlyValues.fun(USC00042294b)
USC00042294.normals <- MonthlyNormals.fun(USC00042294b)
```

Chunk 9

```
USC00042294.anomalies <- MonthlyAnomalies.fun(USC00042294.monthly, USC00042294.normals)
```

Guide 3

Chunk 1

You might see a note about file note found, this is for Marc, you can ignore.

```
source("/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide3functions.R")
```

```
## [1] "RData file found and loaded"
```

Chunk 2

```
USC00042294.trends <- monthlyTrend.fun(USC00042294.anomalies)
```

Chunk 3

Guide 4

Chunk 1

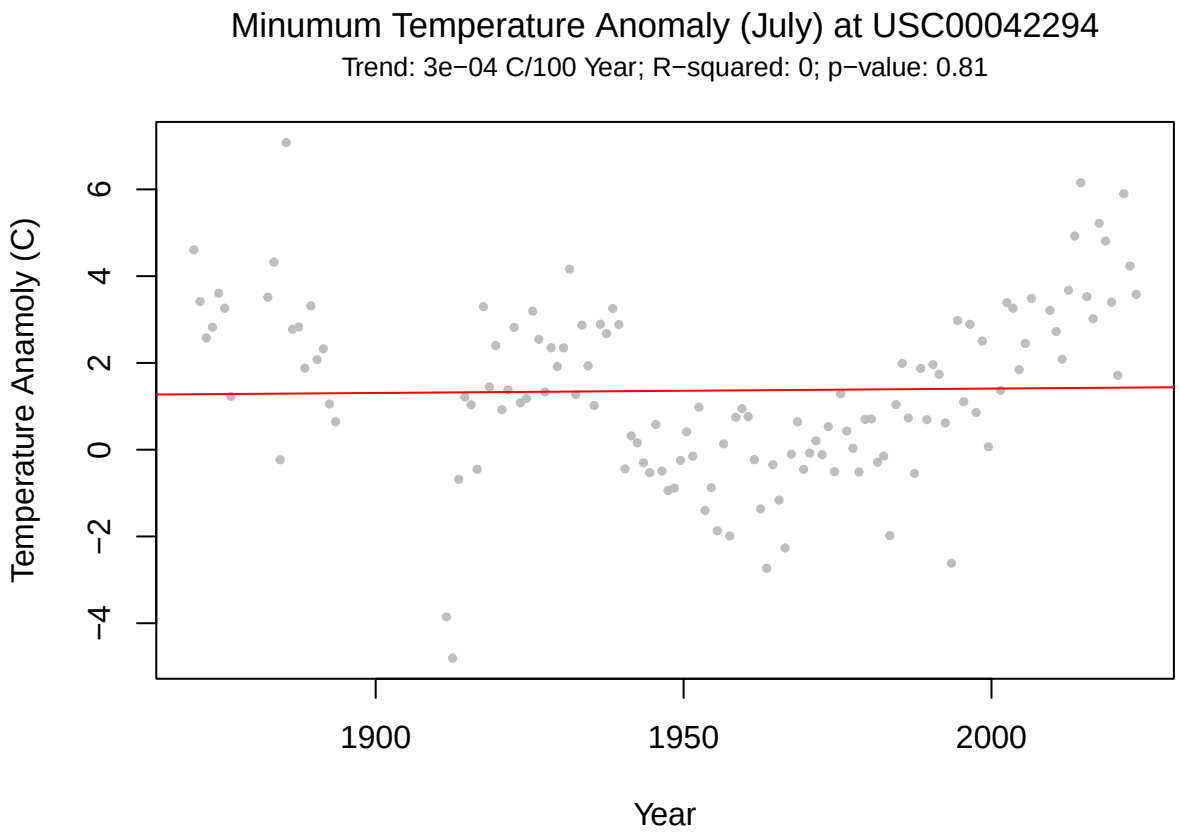
You might see a note about file note found, this is for Marc, you can ignore.

```
source("/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide4functions.R")
```

```
## [1] "RData file found and loaded"
```

Chunk 2

```
plotTrend.fun(USC00042294.anomalies, "TMIN", 7)
```



almost done!

Zip Files for Marc!

```
zip(zipfile = "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guidefunctions.zip",
    files = c("/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide1functions.R",
              "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide2functions.R",
              "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide3functions.R",
              "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/Guide4functions.R",
              "/home/mwl04747/RTricks/04_Regional_Climate_Trends/Guides/MarcsTemplate.Rmd",
              "/home/mwl04747/RTricks/04_Regional_Climate_Trends/stations.active.oldest.csv"),
    flags= "-j")
```