# Climate Change Project

### Marc Los Huertos

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## Guide 1

### Chunk 1

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

### Chunk 2

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

### 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(USC00042294)

## Chunk 5

coverage.fun(USC00042294a)

## [1] 86.33

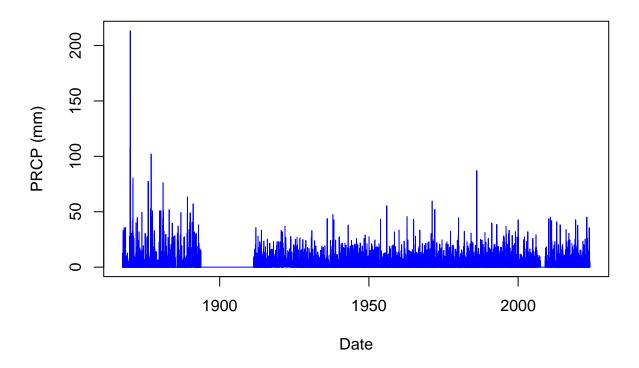
## Chunk 6

USC00042294b <- fixValues.fun(USC00042294a)</pre>

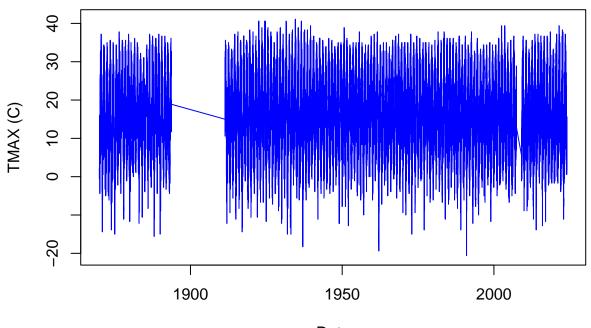
## Chunk 7

QAQC.fun(USC00042294b)

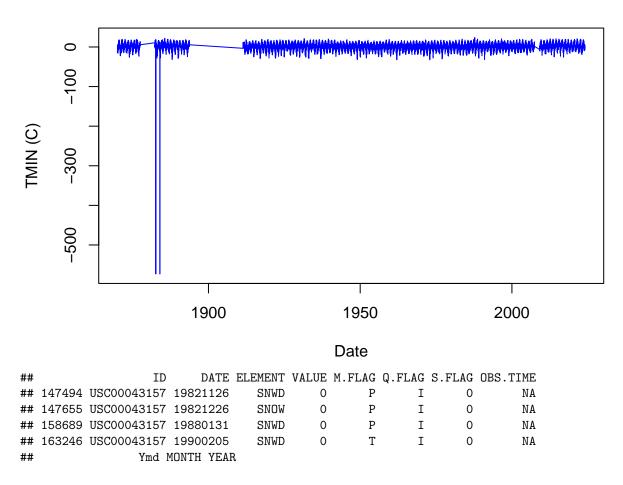
# **Time Series of Daily PRCP**



## **Time Series of Daily TMAX**



Time Series of Daily TMIN



#### 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 does not exist."
```

### 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")
```

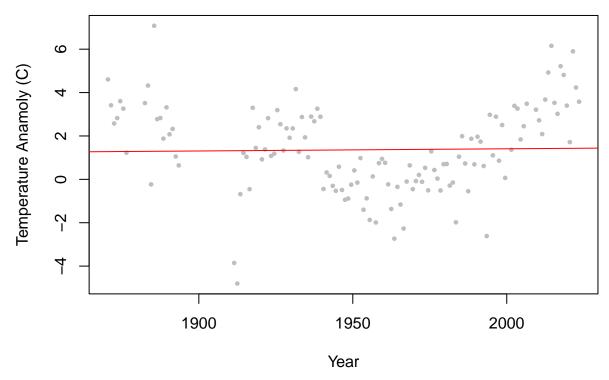
```
## [1] "RData file does not exist."
```

### Chunk 2

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

## Minumum Temperature Anomaly (July) at USC00042294

Trend: 3e-04/degree C/100 Year; R-squared: 0; p-value: 0.81



almost done!

### Zip Files for Marc!