

# Assignment 1

*JMF*

*16/09/2019*

## A look into greenhouse gas emissions concentrations

As Solomon2018

In this document, I explore the concentrations of greenhouse gas emissions using data from the Data Science Lab (dslab). The data measures the concentrations of the three main greenhouse gases carbon dioxide, methane and nitrous oxide. The data was collected from the Law Dome Ice Core in Antarctica. Selected measurements are provided every 20 years from 1 to 2000 CE (MacFarling Meure et al. 2006)

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   :  2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      260.0  269.7   279.7   416.2   641.0   1703.4
```

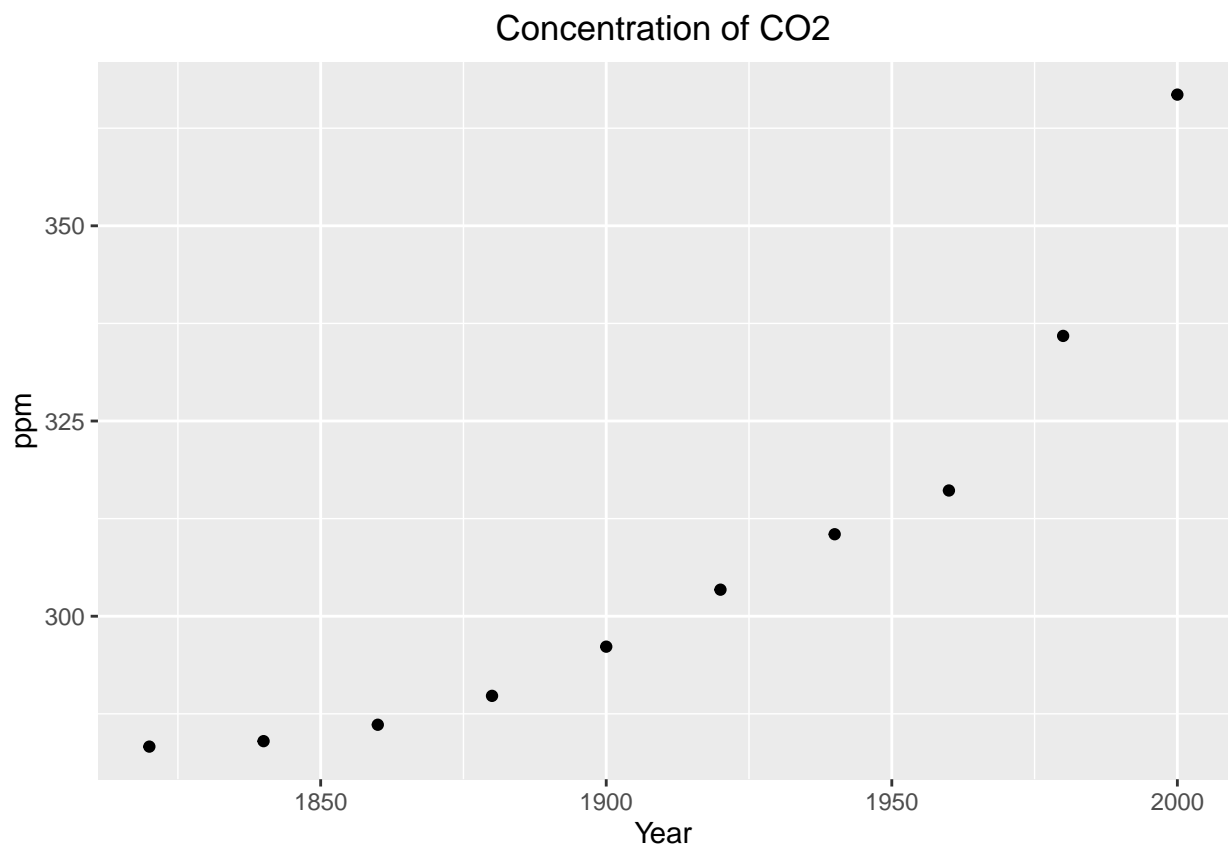
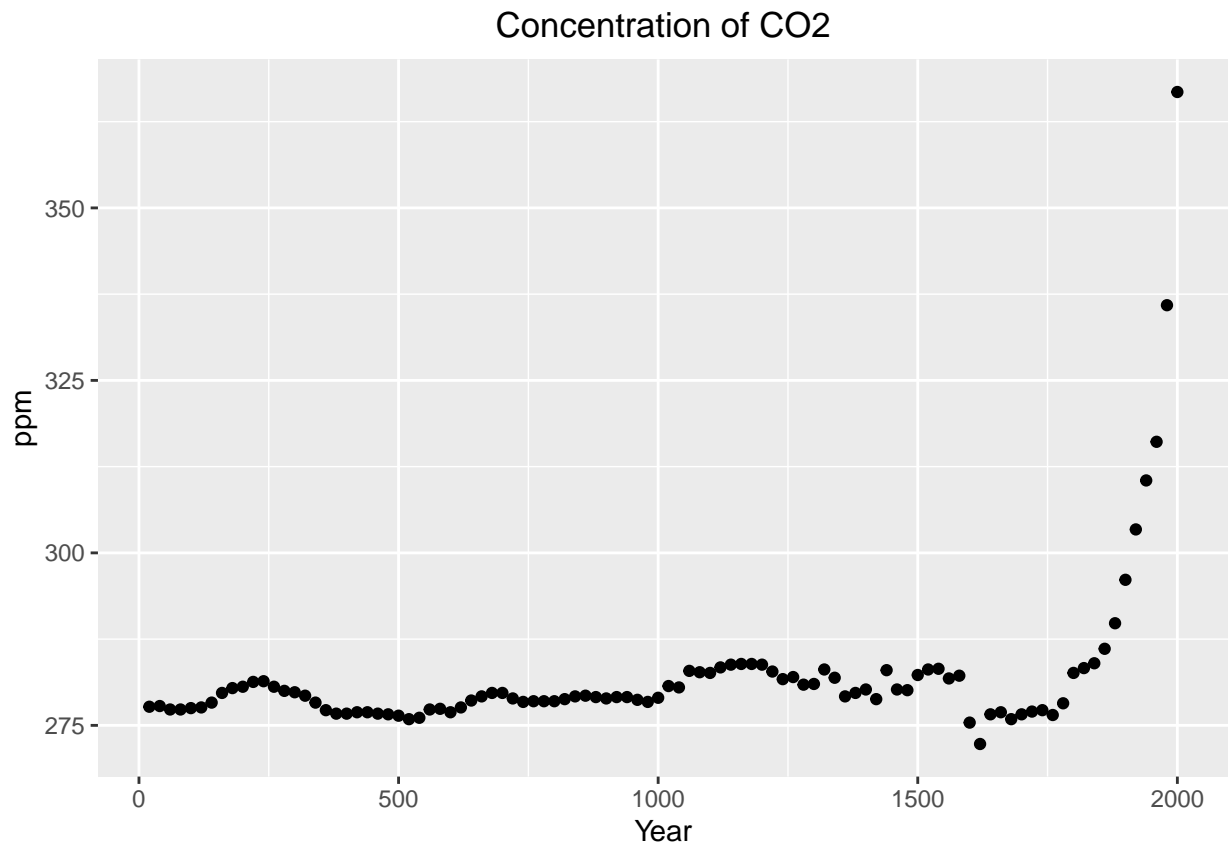
## Concentration of CO2 emissions in time

In figure 1 (referred this) we can observe the increase of the concentrations of CO2 emissions in the last 2000 years.

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##      filter, lag

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



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that

generated the plot.

MacFarling Meure, C., D. Etheridge, C. Trudinger, P. Steele, R. Langenfelds, T. van Ommen, A. Smith, and J. Elkins. 2006. "Law Dome Co<sub>2</sub>, Ch<sub>4</sub> and N<sub>2</sub>o Ice Core Records Extended to 2000 Years Bp." *Geophysical Research Letters* 33 (14). <https://doi.org/10.1029/2006GL026152>.