# Assignment 1

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16/09/2019

#### A look into greenhouse gas emissions concentrations

#### As Solomon2018

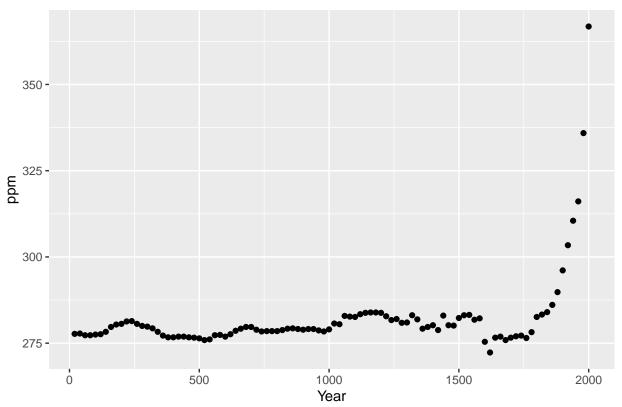
In this document, I explore the concentrations of greenhouse gas emissions using data from the Data Science Lab (dslab). The data measures the concentrations of the three main greenhouse gases carbon dioxide, methane and nitrous oxide. The data was collected from the Law Dome Ice Core in Antarctica.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

##	year	gas	concentration
##	Min. : 20	Length:100	Min. :272.3
##	1st Qu.: 515	Class :character	1st Qu.:277.6
##	Median :1010	Mode :character	Median :279.2
##	Mean :1010		Mean :282.1
##	3rd Qu.:1505		3rd Qu.:282.2
##	Max. :2000		Max. :366.8

#### Concentration of CO2 emissions in time

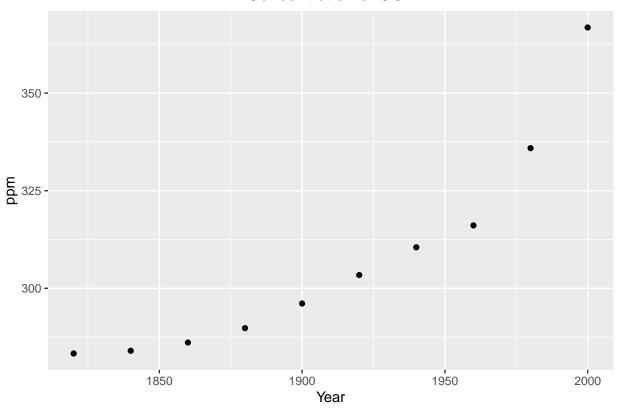
In figure 1 (refered this) we can observe the increase of the concentrations of CO2 emissions in the last 2000 years.

# Concentration of CO2



If we look closer into the last 200 years where human activity have increase after the industrial revolution, the increase is striking.

## Concentration of CO2



### References:

MacFarling Meure, C., D. Etheridge, C. Trudinger, P. Steele, R. Langenfelds, T. van Ommen, A. Smith, and J. Elkins. 2006. "Law Dome Co2, Ch4 and N2o Ice Core Records Extended to 2000 Years Bp." *Geophysical Research Letters* 33 (14). https://doi.org/10.1029/2006GL026152.