

A look into greenhouse gas emissions

Juan Fercovic

16/09/2019

Overview of the presentation

- ▶ Introduction
- ▶ Summary of the data
- ▶ CO₂ emissions in time
- ▶ Adjustment of emissions in the last 200 years

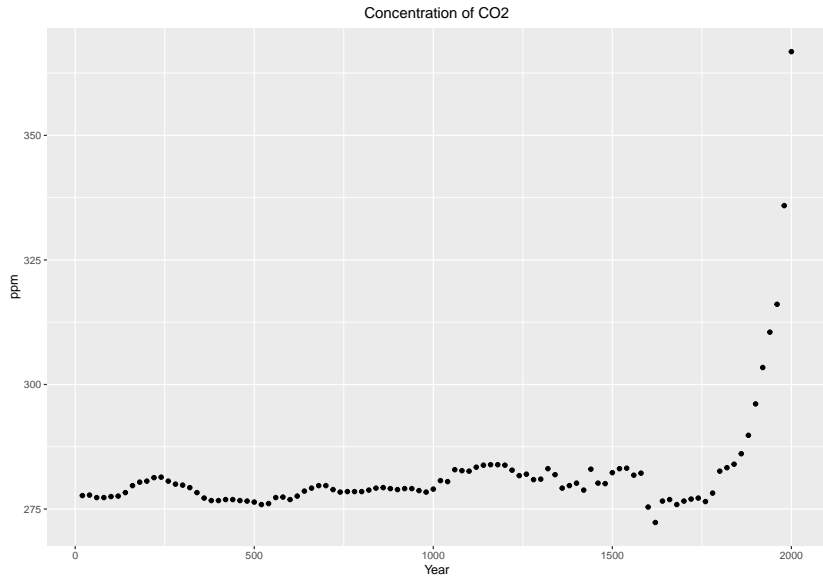
Introduction

- ▶ Concentrations of CO₂ collected from the Law Dome Ice Core in Antarctica (MacFarling Meure et al. 2006).
- ▶ CO₂ concentrations measured in parts per million (ppm).
- ▶ Years 0 to 2000.

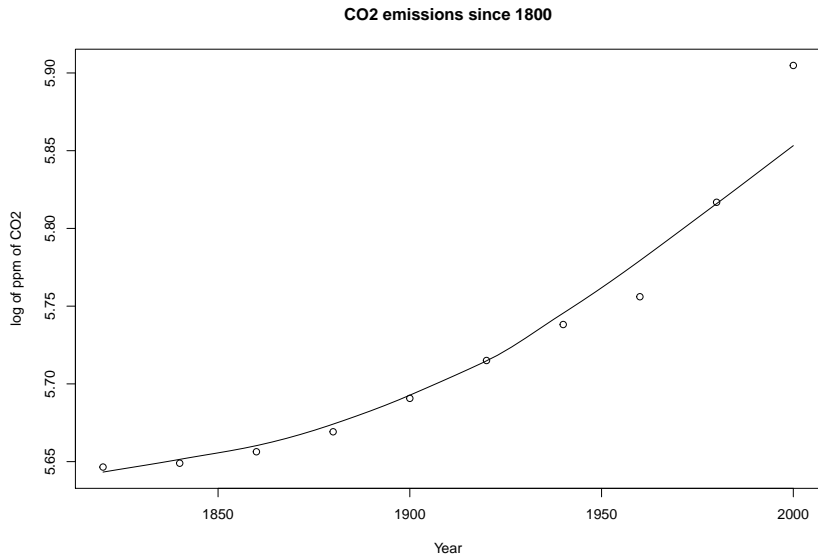
Summary of the data

##	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

CO2 emissions in time



Adjustment of emissions in the last 200 years



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>.