

Lab 1: Pre-lab Worksheet

- 1 What is the name of the organization providing the data?
Scripps Institution of Oceanography
- 2 What is the temporal range (first date, last date) of the data?
From January 1958 to December 2021
- 3 Which variables are measured (temperature, precipitation, etc...)?
Monthly Atmospheric CO2 at Mauna Loa
- 4 What are the units of the data?
Data are measured in units ppm (parts per million)
- 5 How are missing data identified?
Missing data are inputted as -99.99 for every column in the row
- 6 How is the data is organized in the file - what do the rows and columns represent?
The rows represent the timeline labeled as year and month, and columns as CO2 [ppm], CO2 filled [ppm], seasonally adjusted [ppm], and seasonally adjusted fit [ppm].
- 7 How might this data provide information about climate?
This data set provides the atmospheric CO2 data, and the atmospheric condition is a great part of climate science.
- 8 In MATLAB, in the function call `rand(2,10)`, what is the meaning of the input arguments?
It generates two arrays of 10 random numbers between 0 and 1
- 9 In the same function call, what will the output argument(s) be?
The output of the function call gives a 2x10 Matrix with random numbers between 0 and 1 for each cell.