

An Exploration into Human Population

Physics: Data Analysis Practice

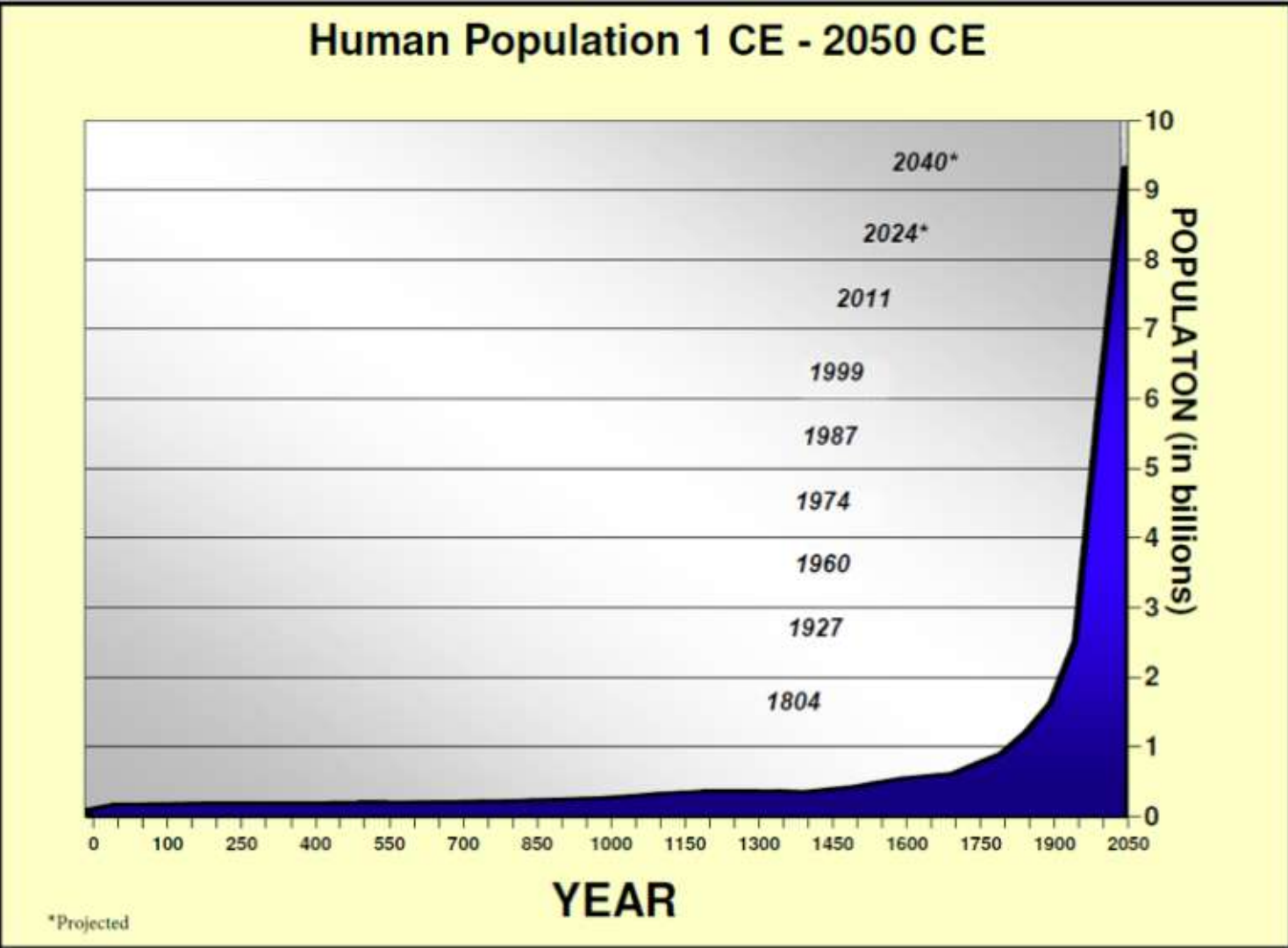
Directions for Data Sets

- **For each data set, write down 3 observations (3 sentences)**
- When you have finished all data sets, fill out the Google Form at the end where you will compare different sets of data.

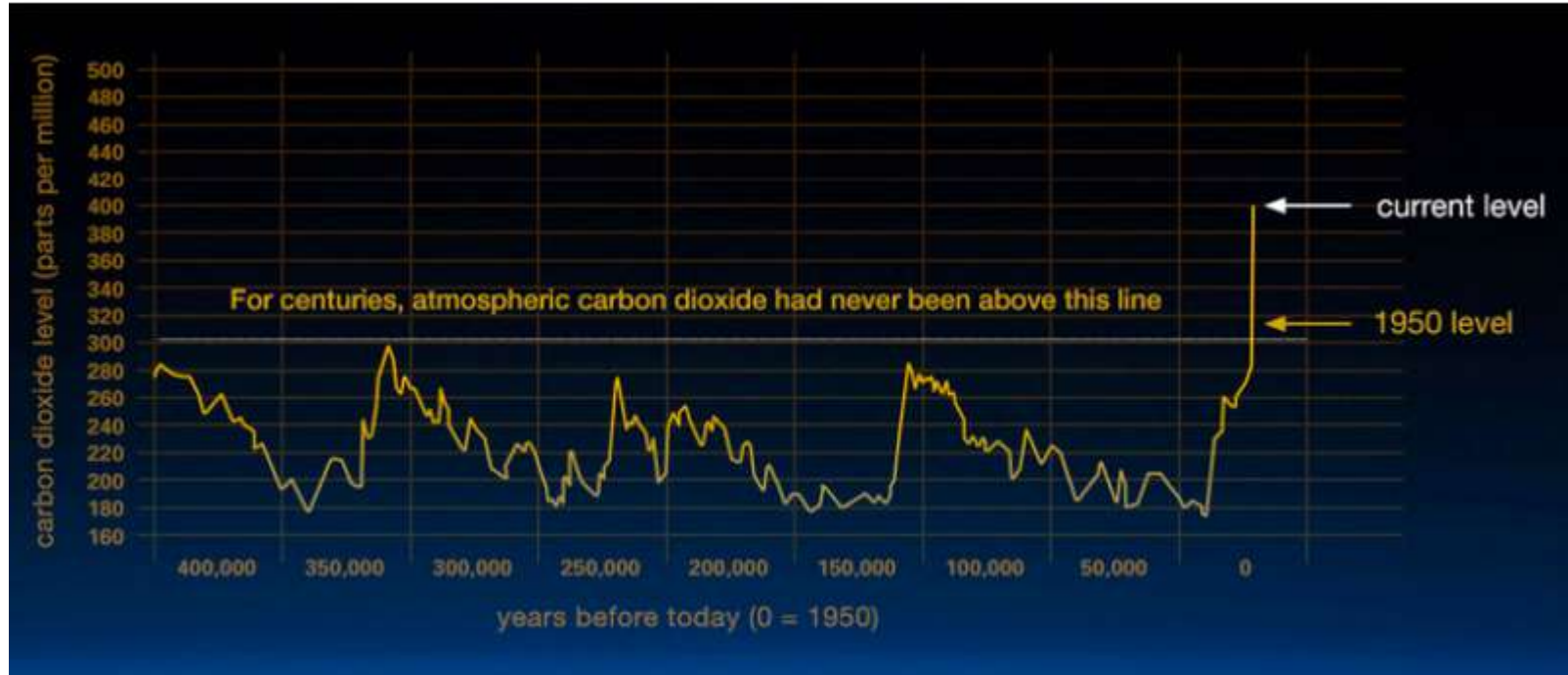
Data Set #1

- Go to worldpopulationhistory.org
- Click on “Explore the Map”
- Press play in the lower right corner
- Write down 3 observations (3 sentences)

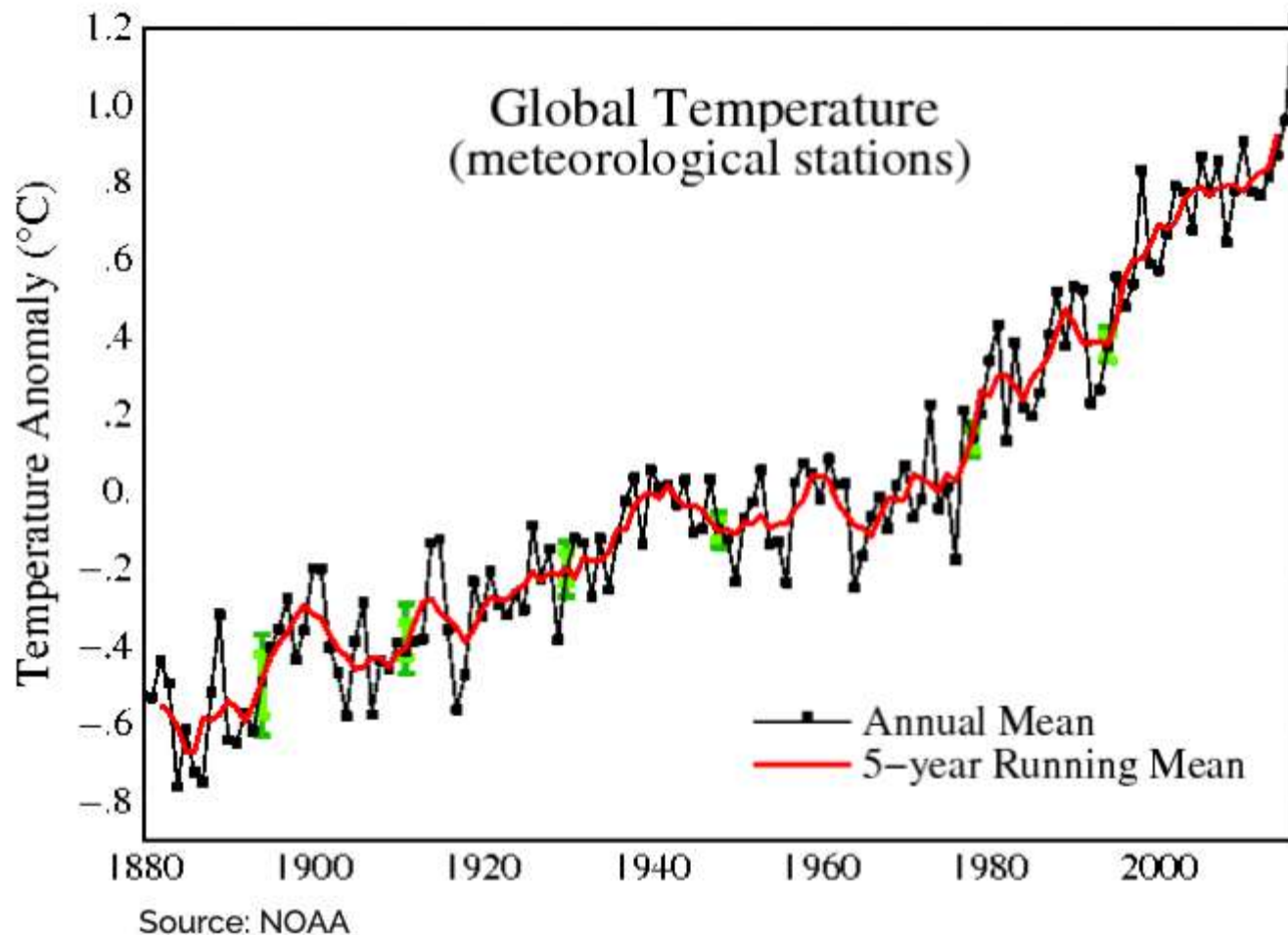
Data Set #2



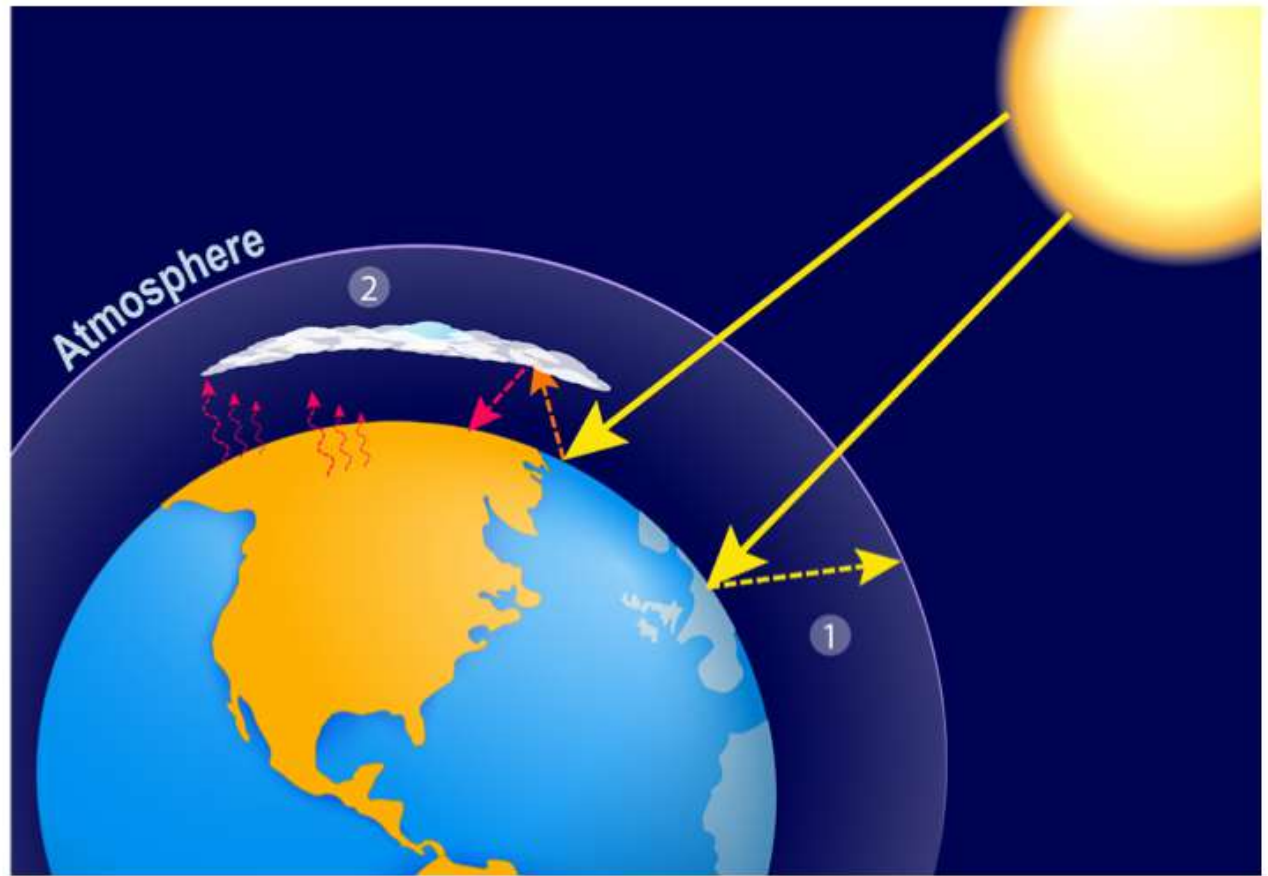
Data Set #3



Data Set #4

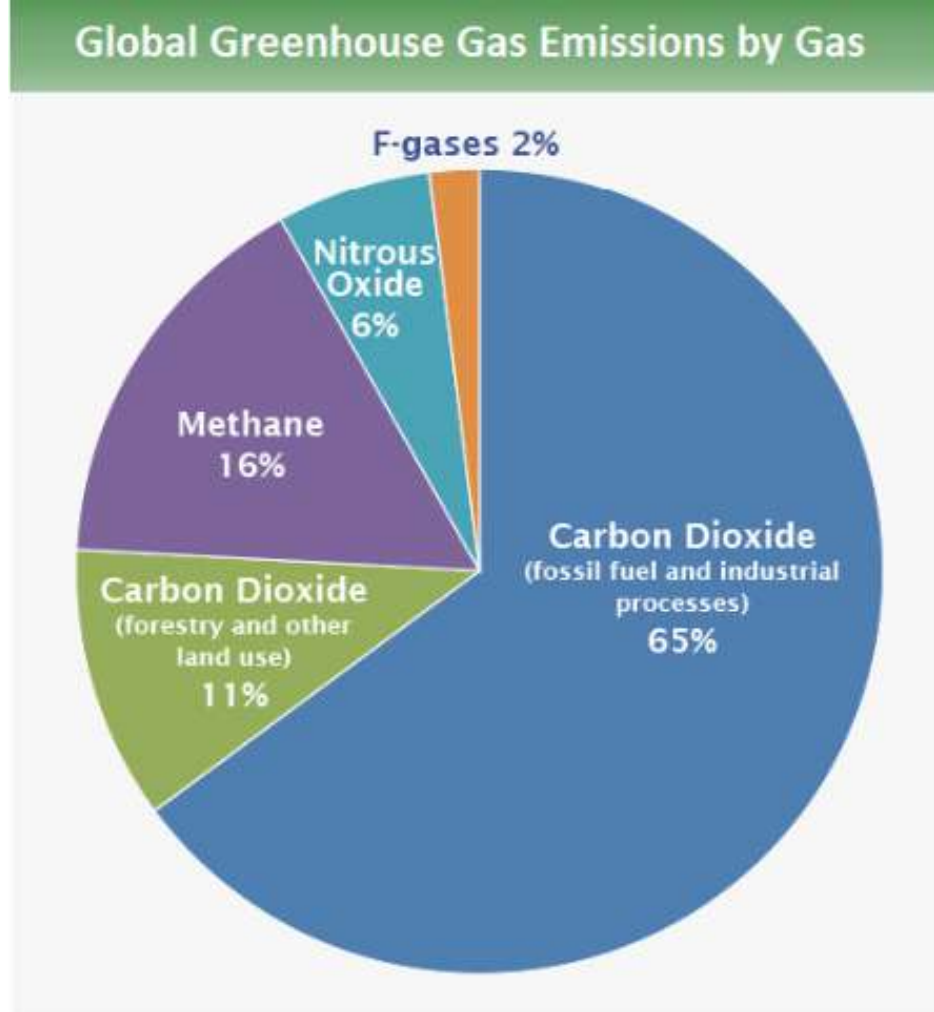


Data Set #5



The greenhouse effect is thrown out of balance by too much man-made carbon dioxide. (1) Some sunlight that hits the Earth is reflected. Some becomes heat. (2) CO₂ and other greenhouse gases in the atmosphere trap heat, keeping the Earth warm.

Data Set #6



Source: EPA

Data Set #7

— — —

Temperature Difference (Fahrenheit)



1884

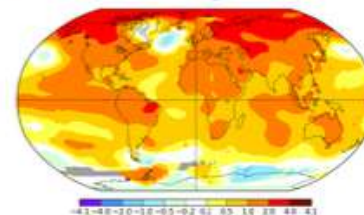
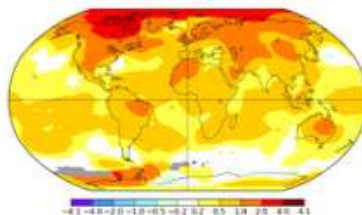
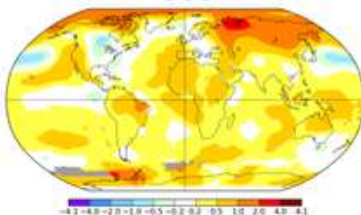
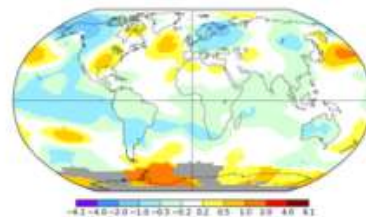
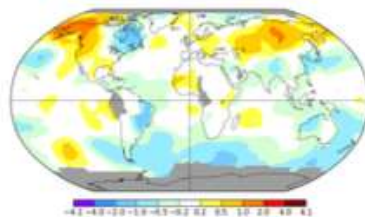
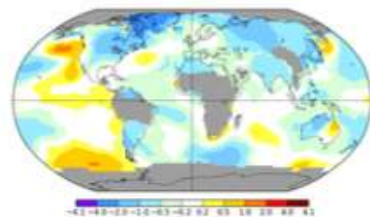
1925

1955

1995

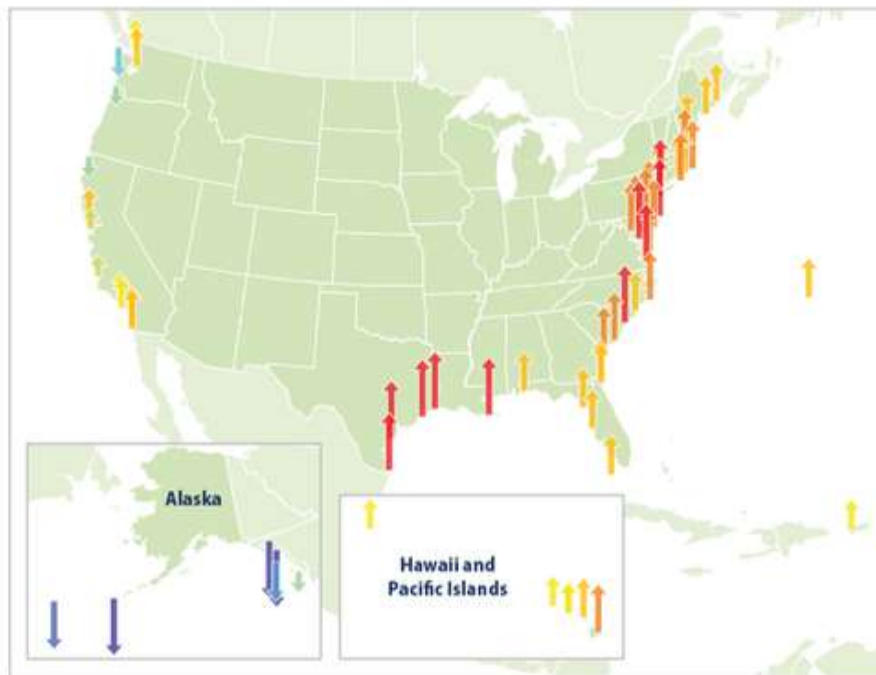
2005

2015



Data Set #8

Relative Sea Level Change Along U.S. Coasts, 1960–2015



Relative sea level change (inches):



Data source: NOAA (National Oceanic and Atmospheric Administration). 2016 update to data originally published in: NOAA, 2009. Sea level variations of the United States 1854–2006. NOAA Technical Report NOS CO-OPS 053. www.tidesandcurrents.noaa.gov/publications/Tech_rpt_53.pdf.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

Data Set #9

— — —

MUIR GLACIER, ALASKA

September 2, 1892



August 11, 2005



Data Set #10

1. Go to [Global Ice Viewer](#)
2. Click on Glaciers
3. Click on the different red dots
4. Write down 3 observations that you have

Fill out [this Google Form](#) to
make connections in your data
sets. This is due TODAY!