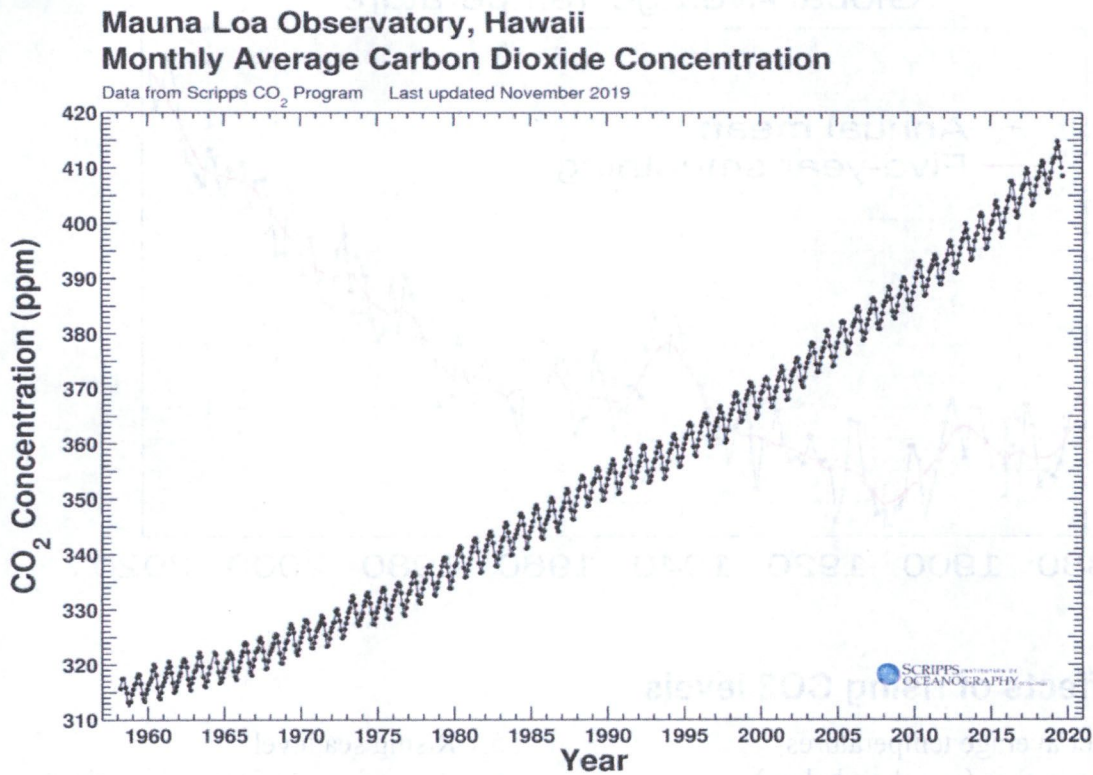


Donna
Williams.

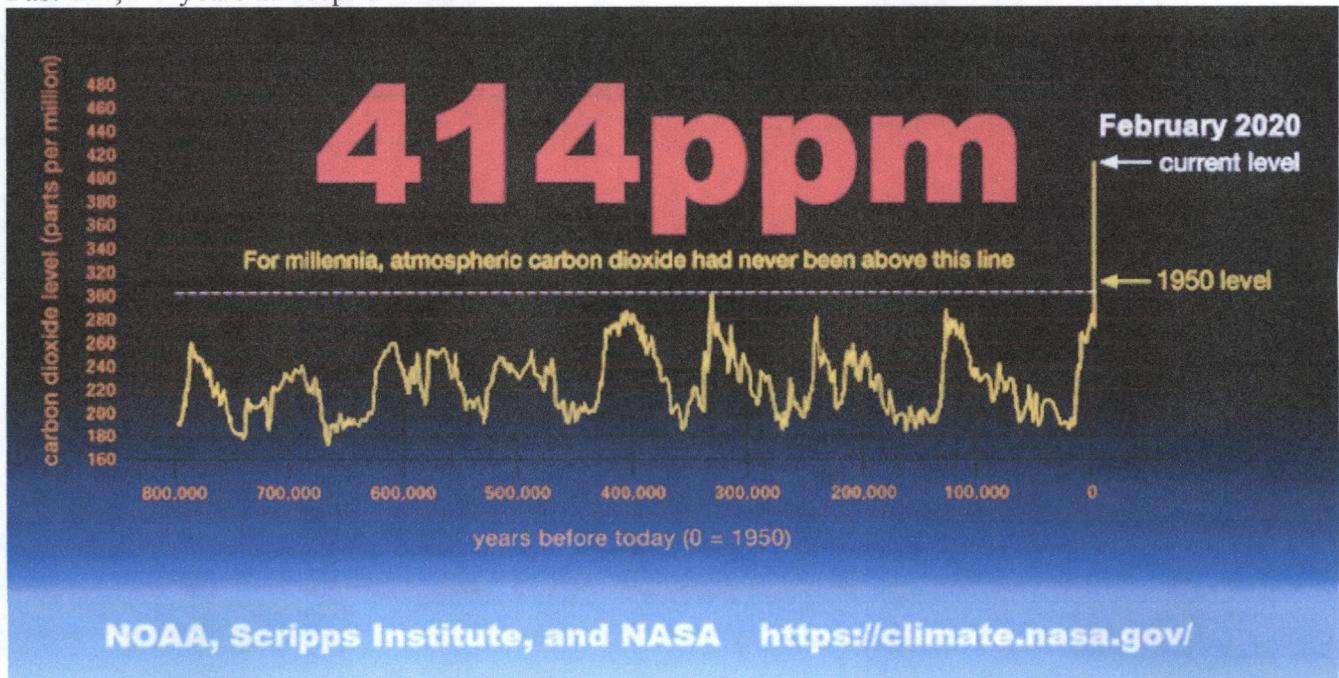
How much carbon dioxide is in the atmosphere?

The Keeling Curve – from NASA, NOAA, Scripps Institute and the Mauna Loa Observatory
https://scrippsco2.ucsd.edu/assets/graphics/png/mla_record.png or www.co2.earth.



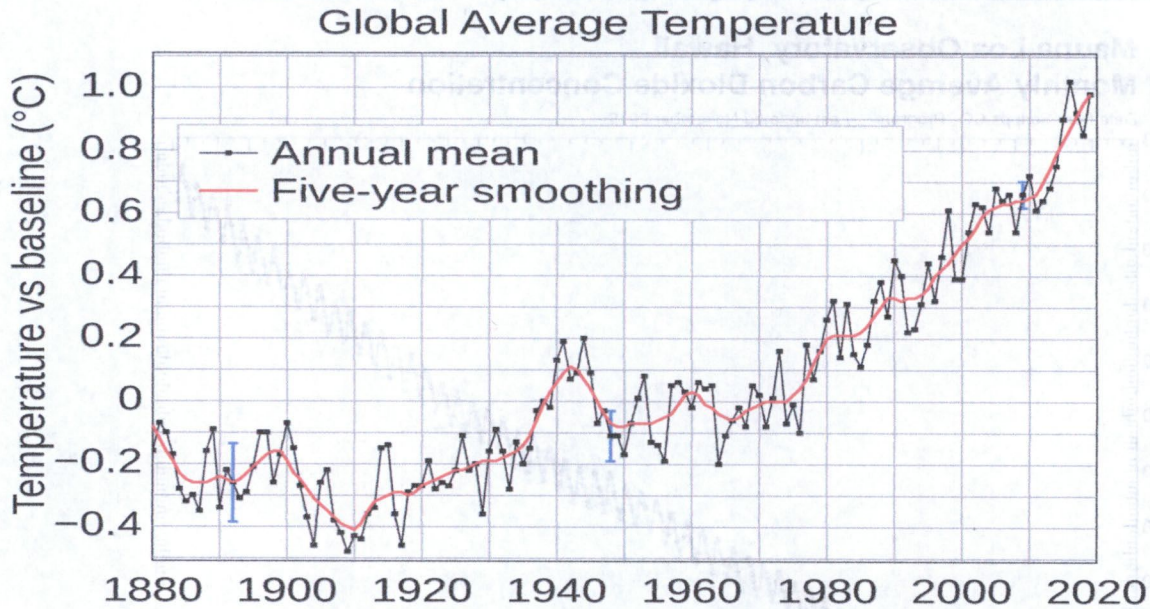
Is this a normal?

Past 800,000 years atmospheric CO₂.



Global Annual Mean Surface Air Temperature Change

https://data.giss.nasa.gov/gistemp/graphs_v4/



Current effects of rising CO2 levels

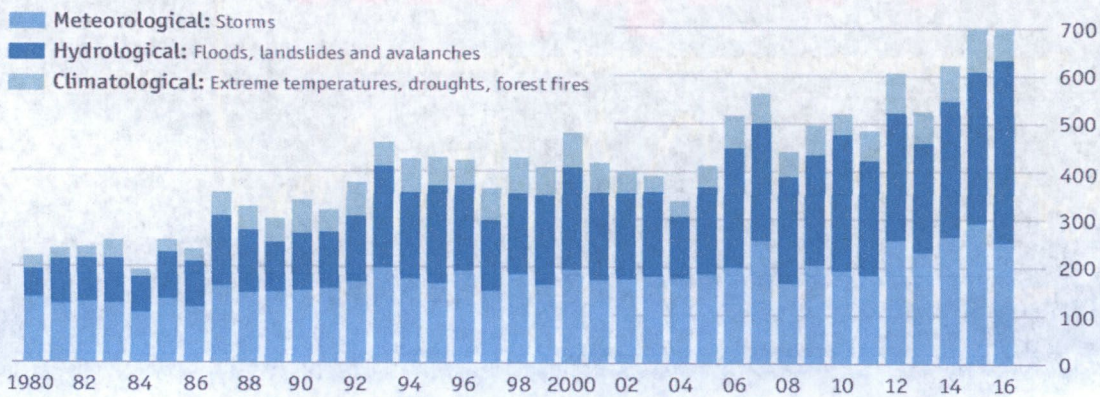
1. Warmer average temperatures
2. Weird weather (see chart below)
3. Decline in bird and bee populations
4. Mass extinction of species
5. Rising sea level
6. Retreating glaciers and ice sheets
7. Change in pH of ocean
8. Coral bleaching

Weird weather with more frequent natural disasters.

<https://www.economist.com/graphic-detail/2017/08/29/weather-related-disasters-are-increasing>

A rising tide

Natural disasters by cause



Source: Munich Re

Economist.com

Donna Williams, Presentation to City Commission, March 3, 2020.