

Teacher Guide

Audience: 6th-8th grade

Necessary Skills: Ability to Read and Write, ability to make connections between two

sets of data

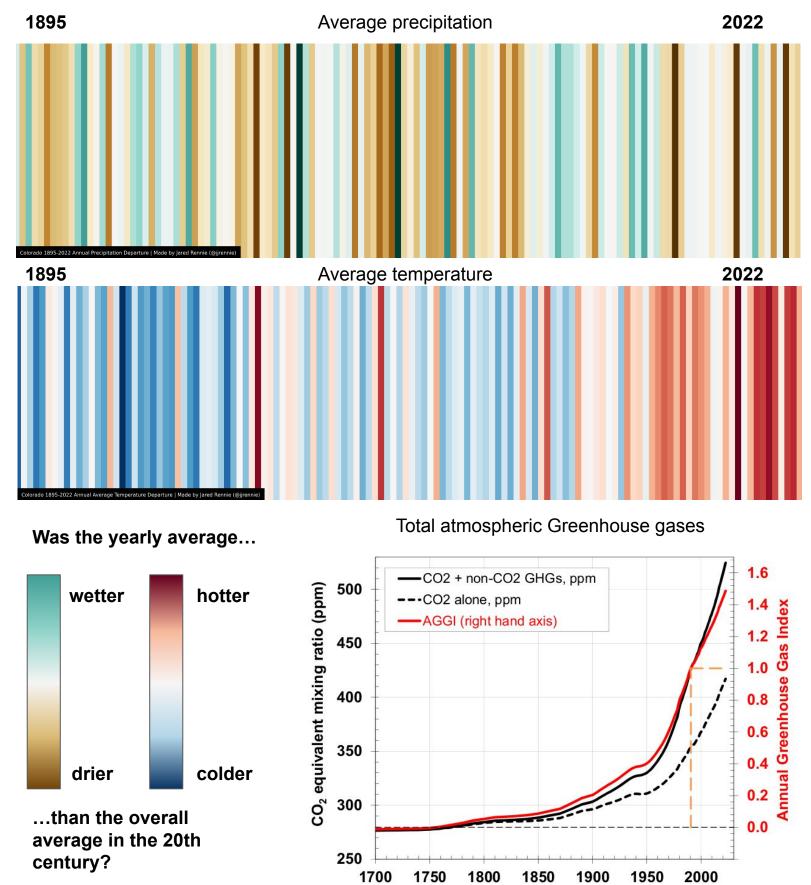
Purpose: To teach students about how greenhouse gases can affect our climate, and how NOAA scientists extrapolate conclusions from data.



Colorado Climate Stripes



The data below shows how the averages of several data points have changed over the years. Your job is to step into the role of a NOAA scientist and make connections between them.



Year



Name	Date	Class	
 	Date	Oldoo	



Fill-in-the-Blank

When the average to	emperature,
precipitation	When greenhouse
gases,	temperatures
When greenhouse g	ases,
precipitation	<u> </u>
WORD BANK (word	ls can be used more than once)
rises falls change r	more often changes more intensely
changes less often c	changes less intensely
	Free Write
I can also connect	and:
	<u> </u>
My overall conclusio	ns about this data are that



Additional Resources



Data from:

https://www.ncei.noaa.gov/access/monitoring/climate-at-a-glance/statewide/time-series

On Climate Stripes:

https://storymaps.arcgis.com/stories/36fb39f01f1041 bf96d3da9a8ea17b6e

Future Climate Explorer:

https://crt-climate-explorer.nemac.org/

Temperature Anomalies:

https://www.ncei.noaa.gov/access/monitoring/global -temperature-anomalies

On greenhouse gases:

https://gml.noaa.gov/aggi/aggi.html

On the difference between climate and weather:

https://www.ncei.noaa.gov/news/weather-vs-climate

Live webcams from our monitoring labs:

https://gml.noaa.gov/obop/mlo/livecam/livecam.html