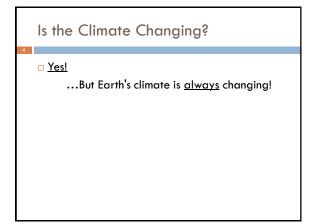


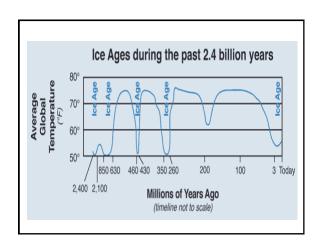
### Is the Climate Changing? ¬ Yes!



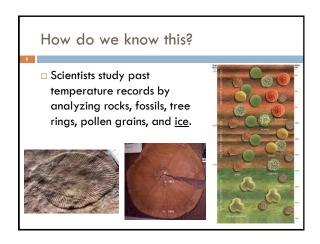
Is the Climate Changing?

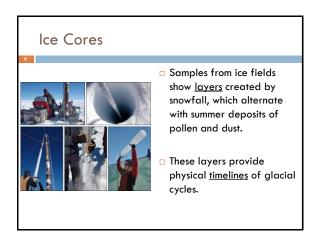
Yes!
...But Earth's climate is always changing!

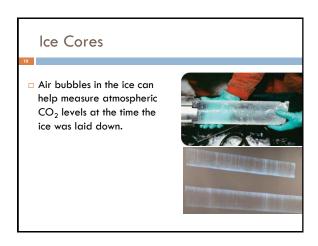
Throughout its 4.5 billion year history, Earth's climate has alternated between periods of warmth and relative cold, each lasting for tens to hundreds of millions of years.

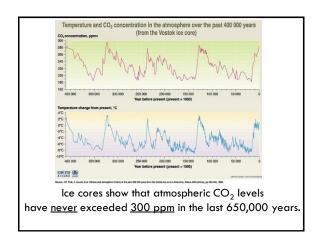


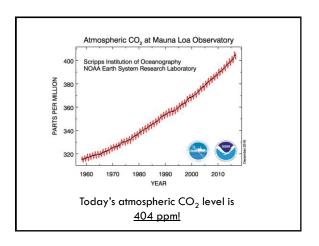






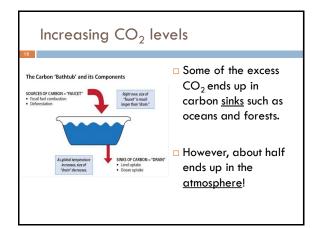






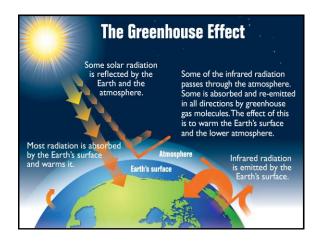
# Atmospheric carbon dioxide is at its highest level in human history. \*\*The day of the d

## Increasing CO<sub>2</sub> levels Scientists believe the increase in CO<sub>2</sub> levels is caused by human activities such as: Burning fossil fuels Deforestation Agricultural practices Industrial processes



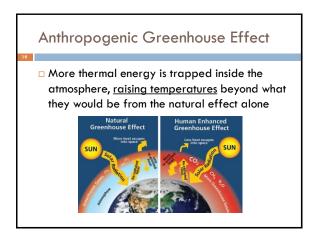
Anthropogenic Greenhouse Effect

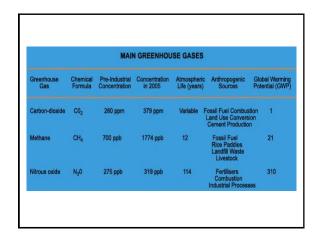
As the concentration of CO<sub>2</sub> and other greenhouse gases (GHGs) increase, more energy is trapped and absorbed by the atmosphere.



#### This process is called the <u>anthropogenic</u> greenhouse effect. Involves the same processes as the natural greenhouse effect but as human release more GHGs, <u>Earth's energy balance changes</u>.

Anthropogenic Greenhouse Effect





#### Anthropogenic Greenhouse Effect The result is climate change!

