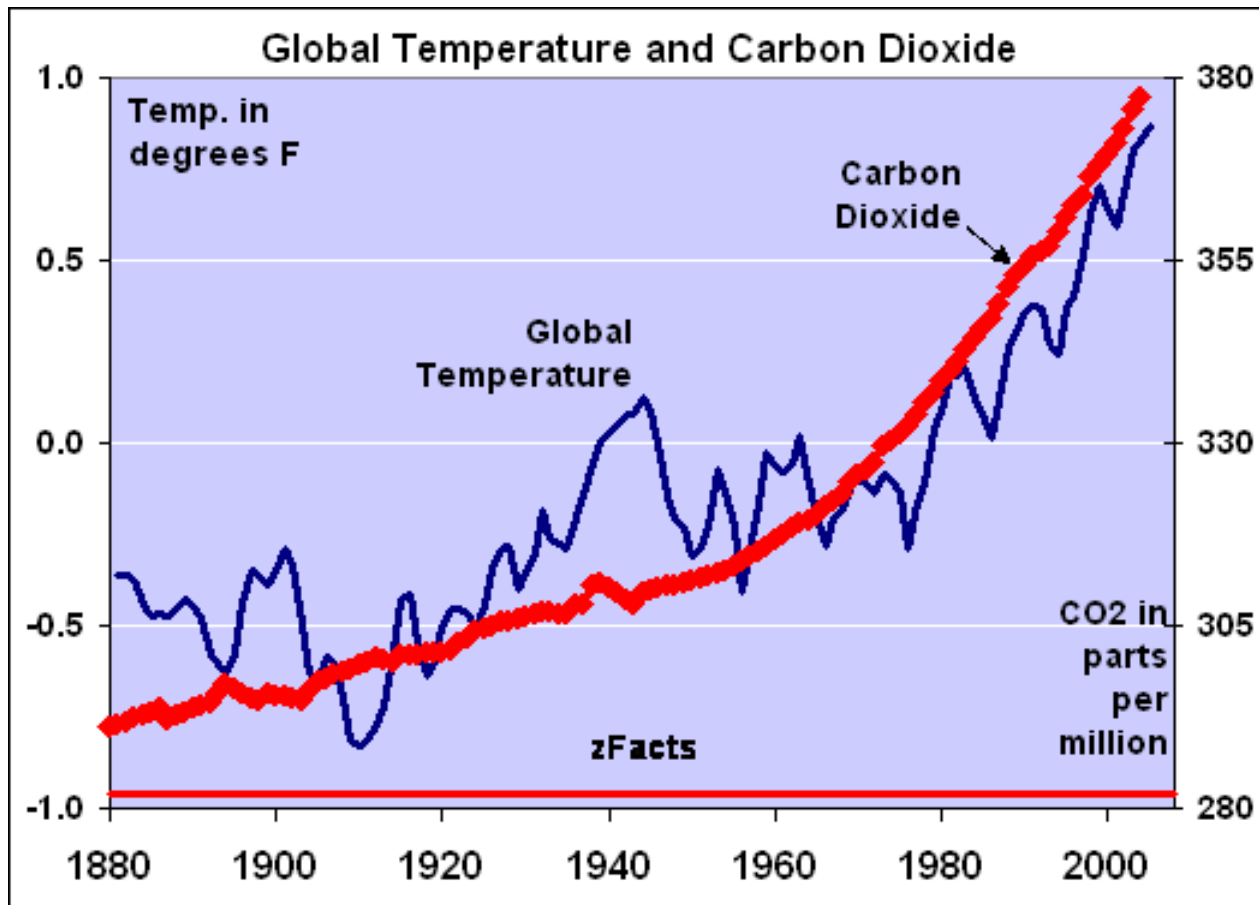


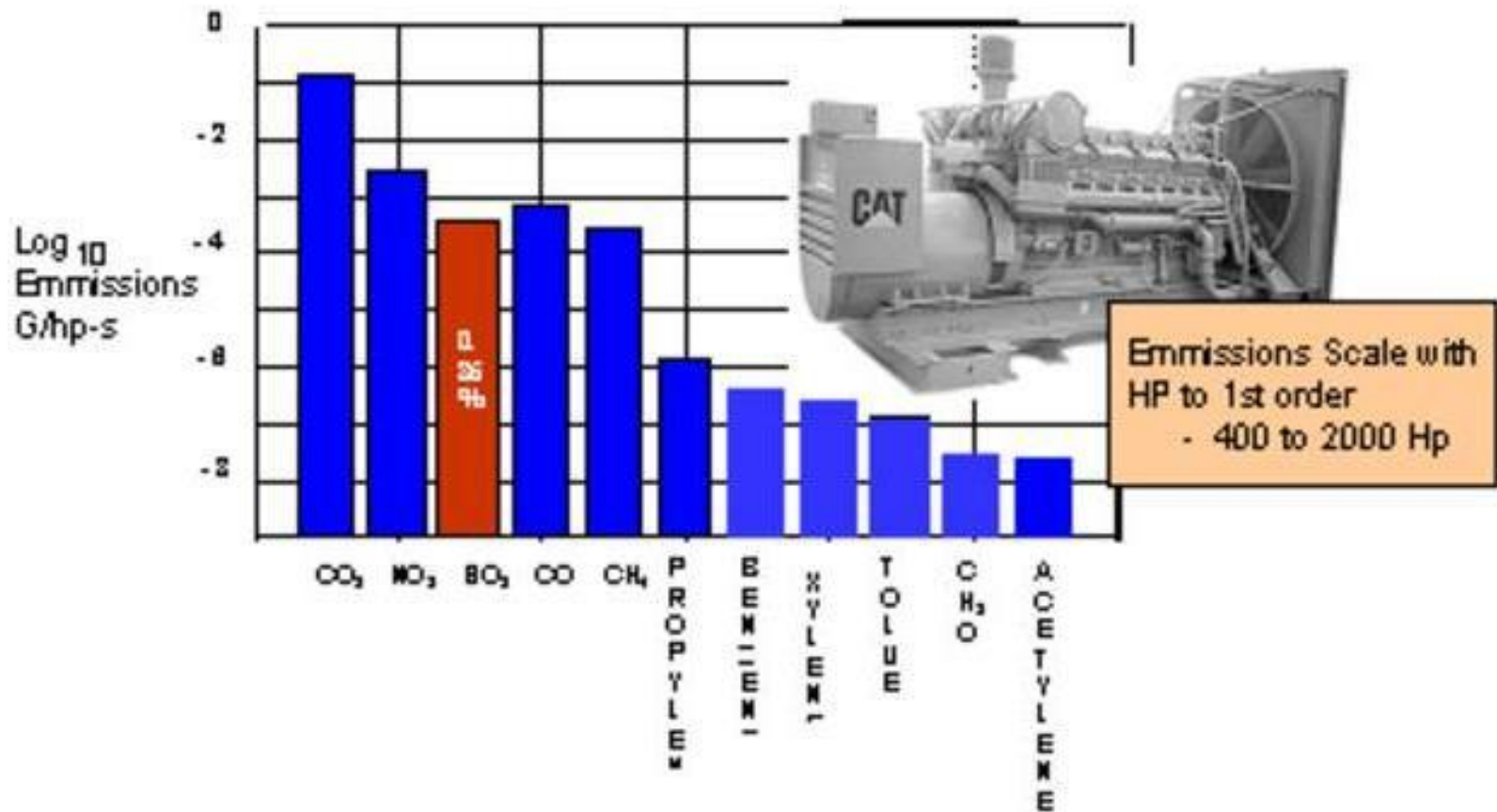
# Climate Study Notes

Climate Change

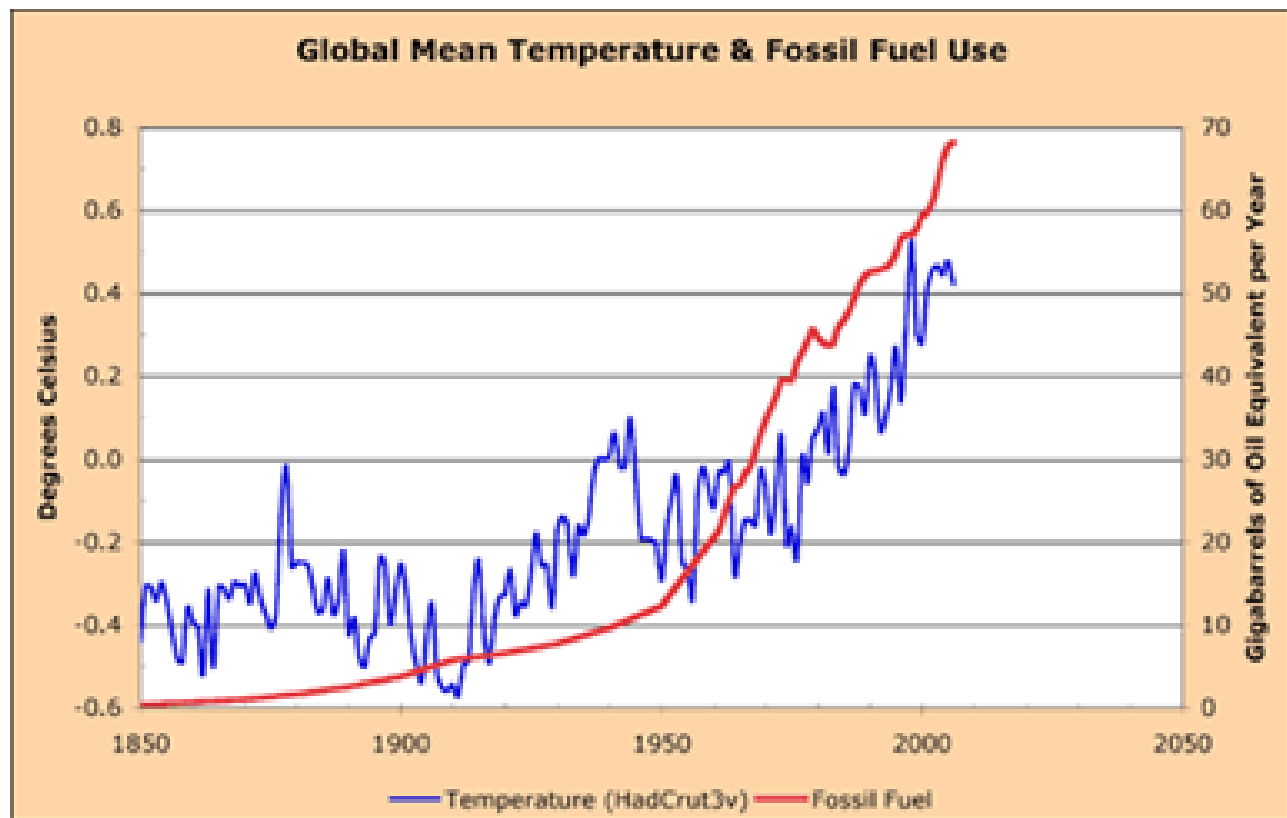
1. According to scientists increased carbon dioxide in the atmosphere will lead to warmer temperatures.



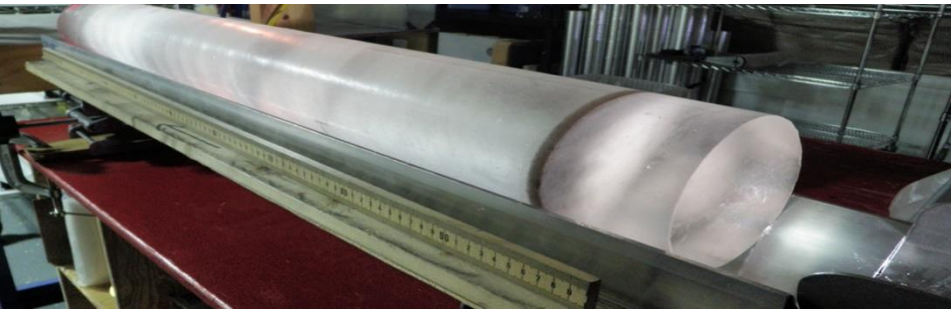
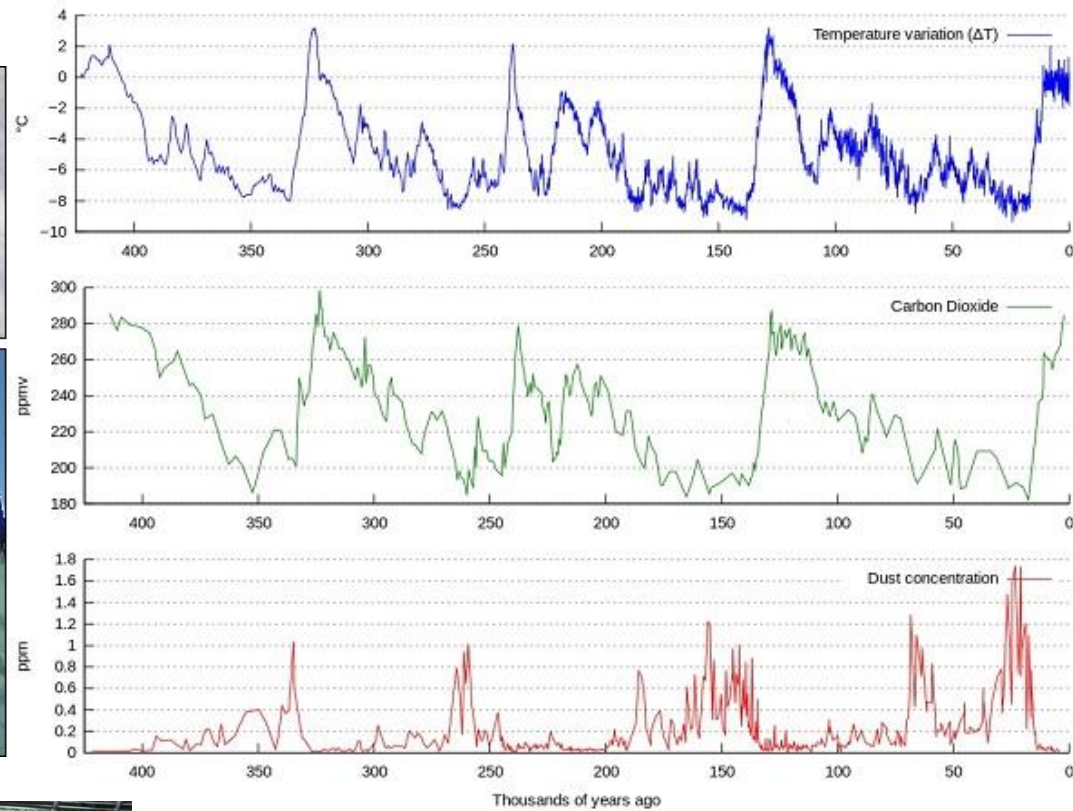
2. Automobile exhaust contains chemical compounds that mix with water vapor to produce acid rain .



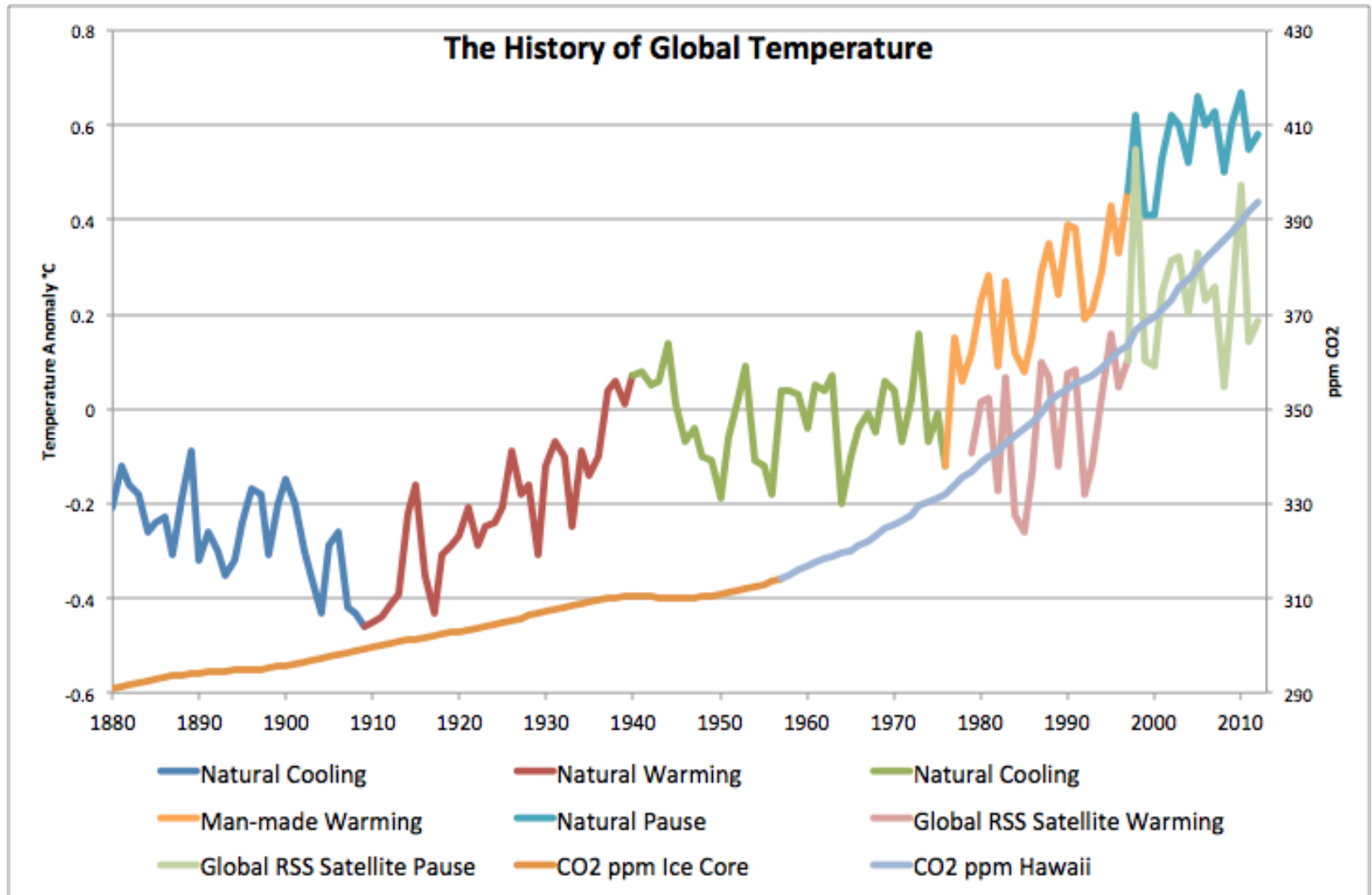
3. Increased burning of fossil fuels by people in the last 50 years has made carbon dioxide levels change.



# 4. Low levels of carbon dioxide found in ice core samples indicates ice ages.



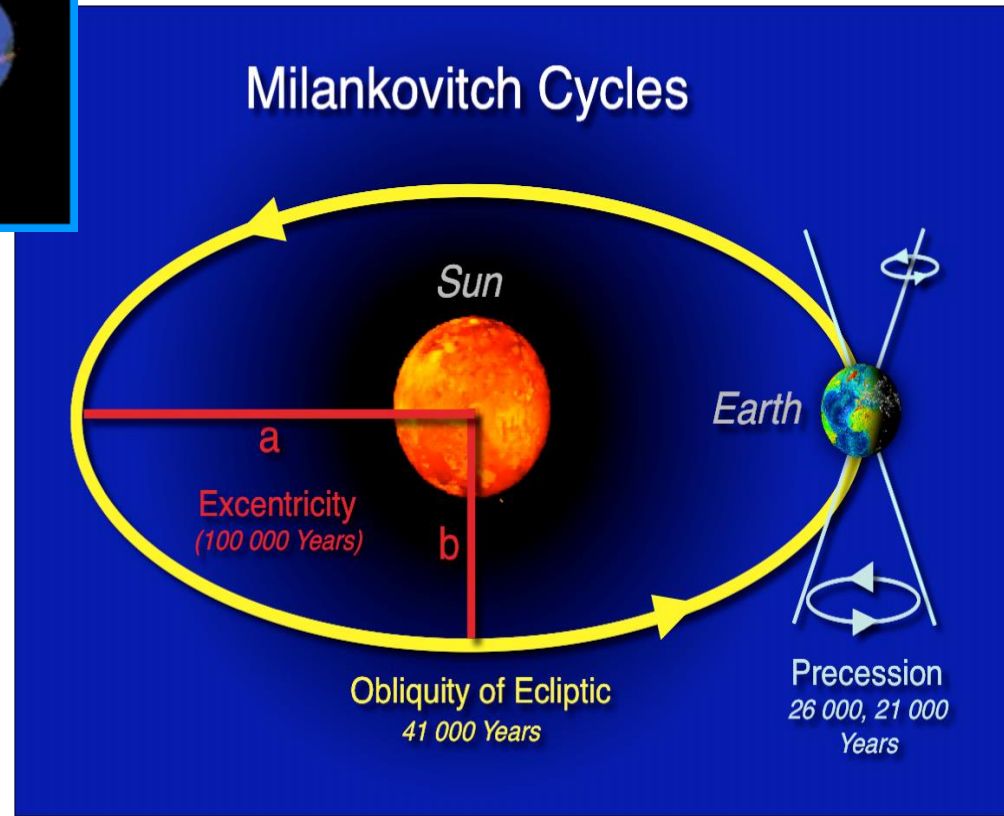
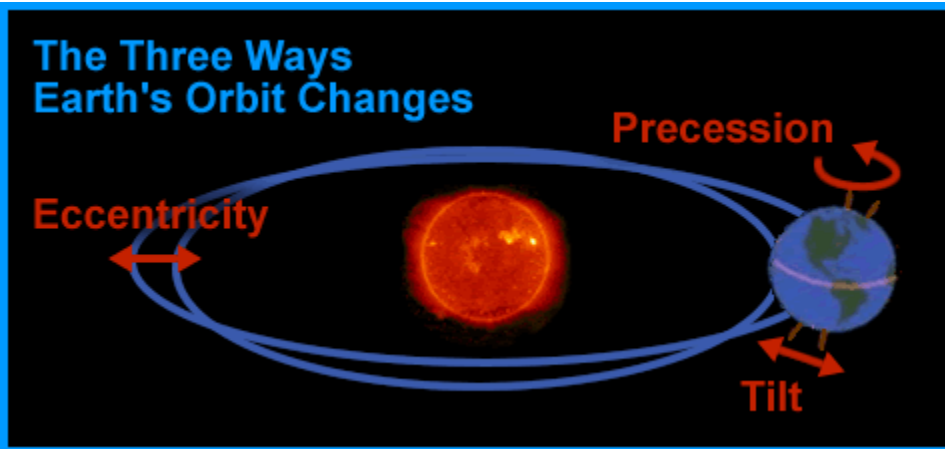
5. Historical temperature measurements have been collected since 1850 and show that the atmosphere is warming.



6. Sea level rising creates economic challenges for humans as cities must be moved.



7. Changes in Earth's tilt and in Earth's orbit could cause climate change according to the Milankovitch theory.



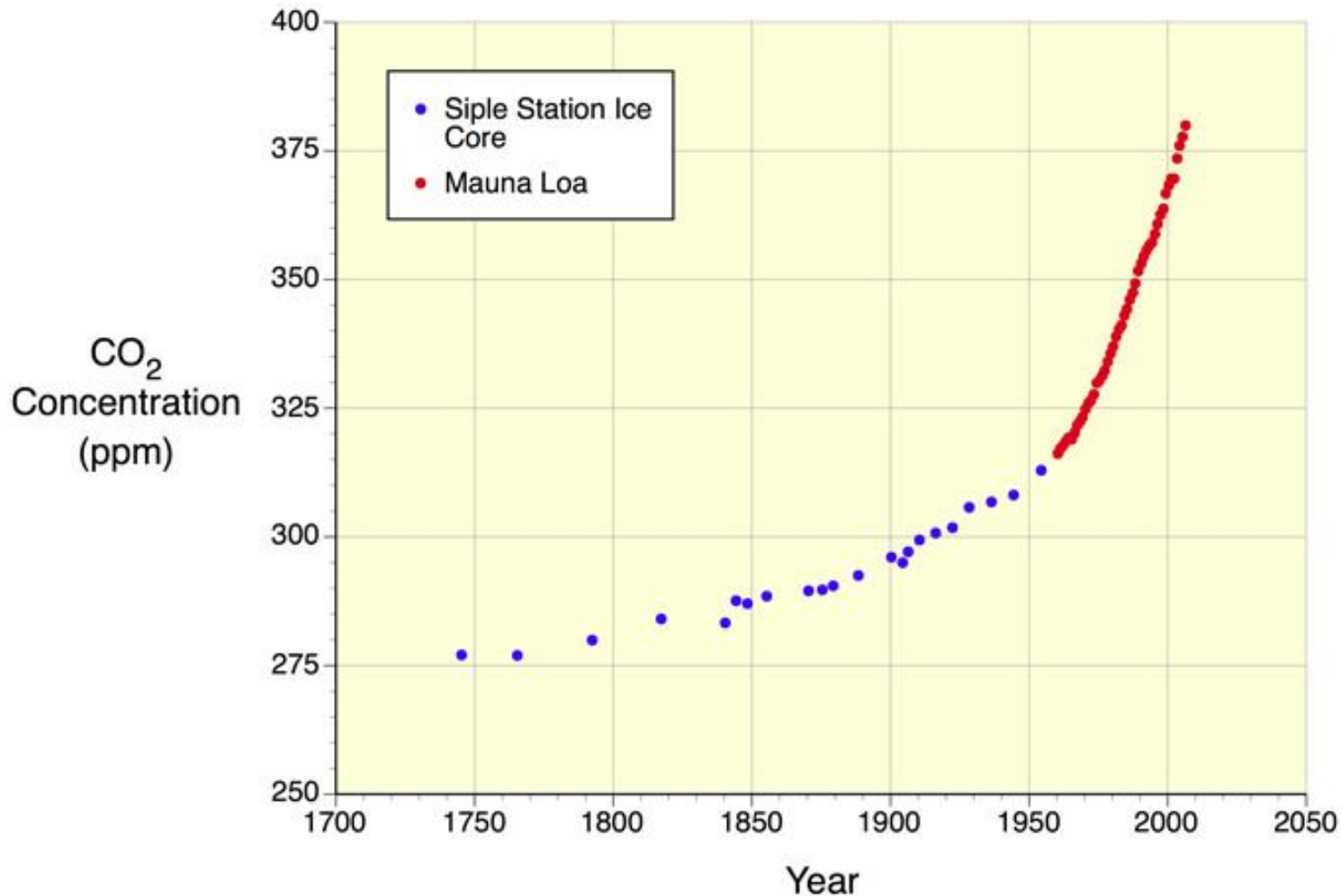


# 8. As glaciers melt sea level would rise .

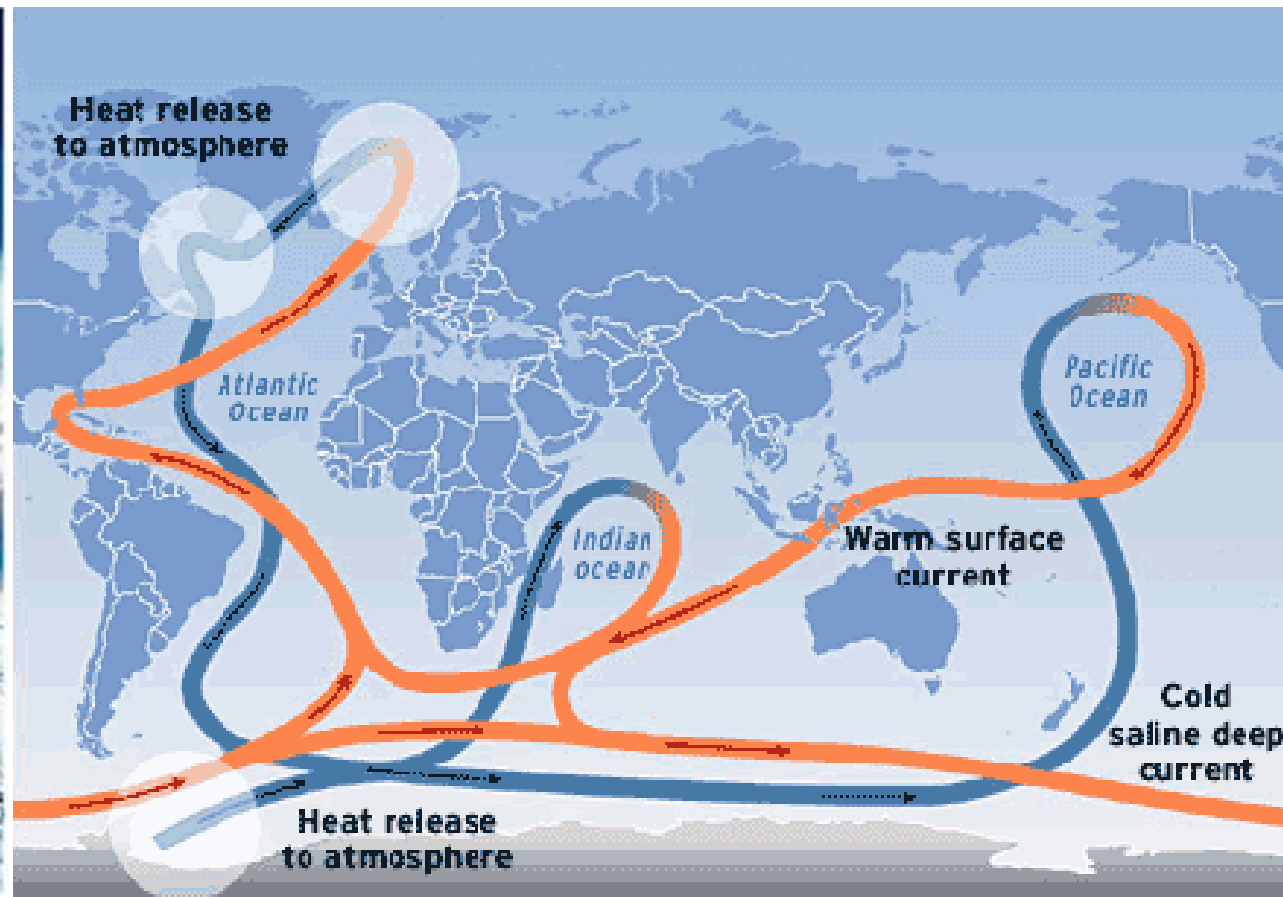
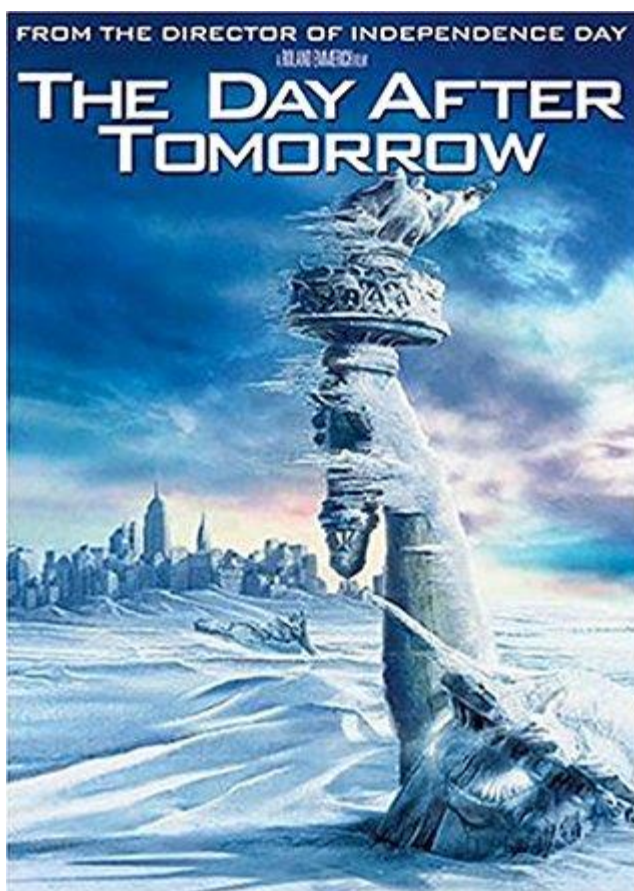


9. The amount of CO<sub>2</sub> in the atmosphere is increasing.

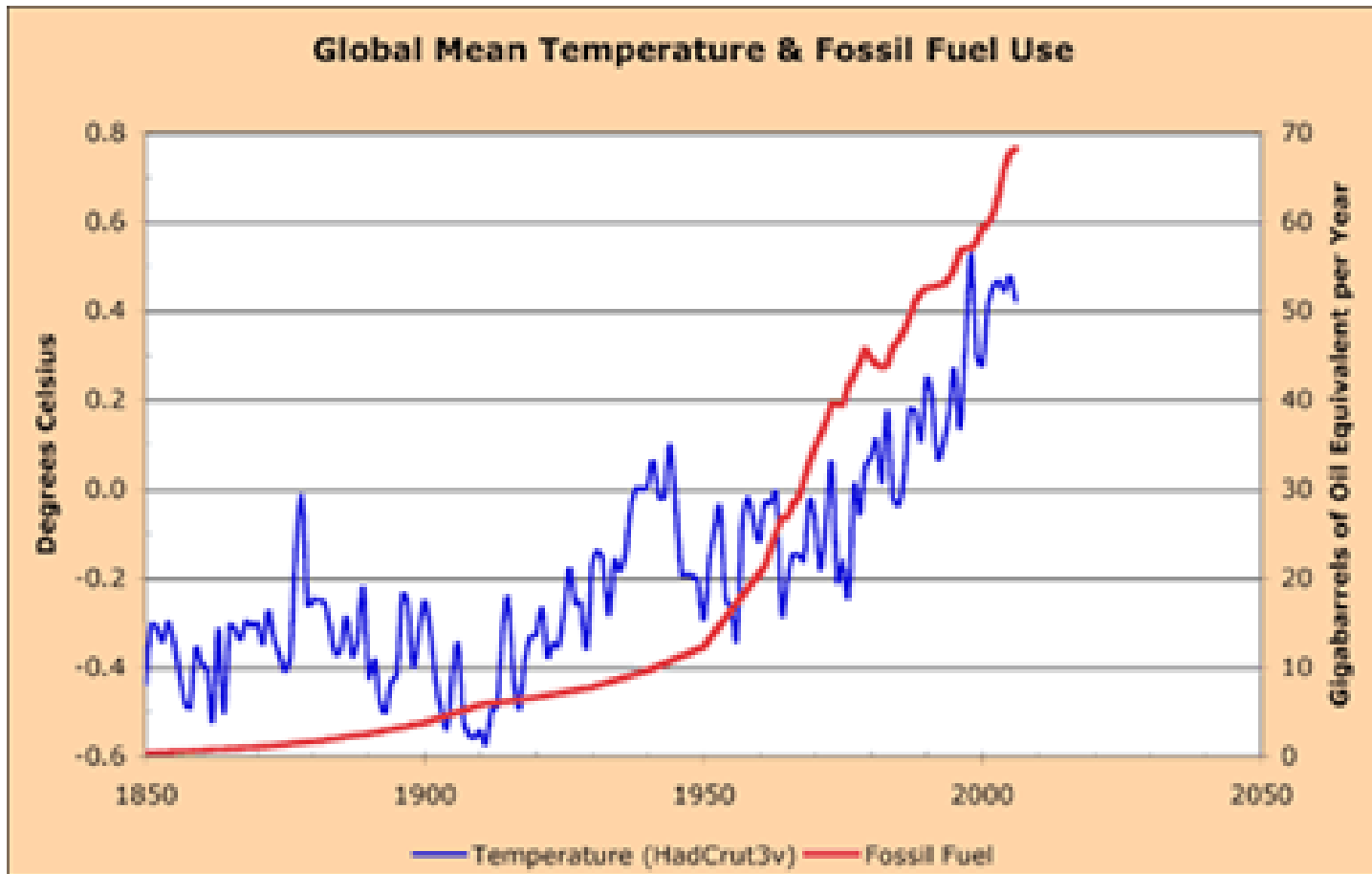
Atmospheric Concentration of Carbon Dioxide (1744-2005)



10. Scientists think that the sudden current warming in temperature is not natural because the changes are occurring more rapidly than ever before.



11. Increasing levels of CO<sub>2</sub> are increasing Earth's temperatures .



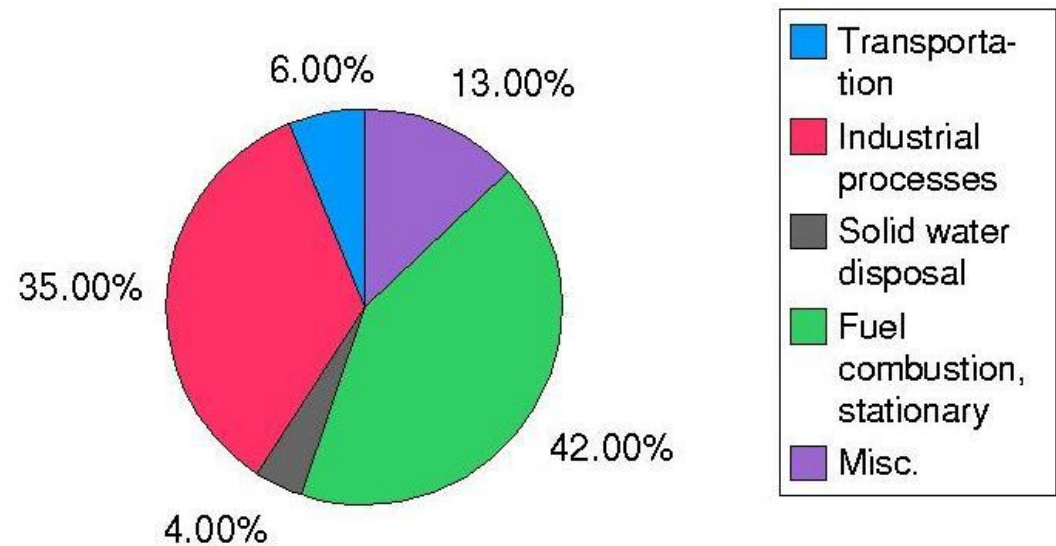
12. Thin tree rings indicate cool weather, less rainfall.



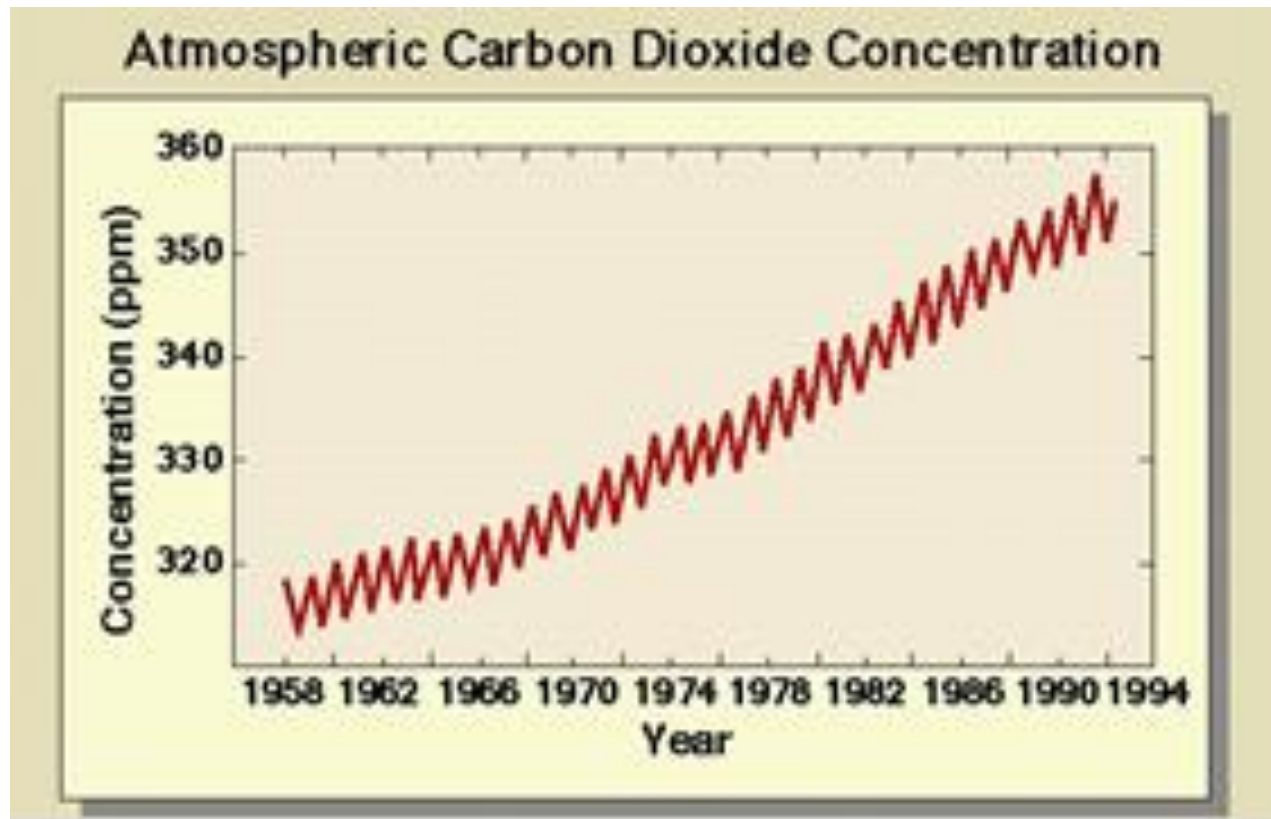
13. Particulates are the pollutants we try to reduce by banning wood and coal burning fires.



Particulates

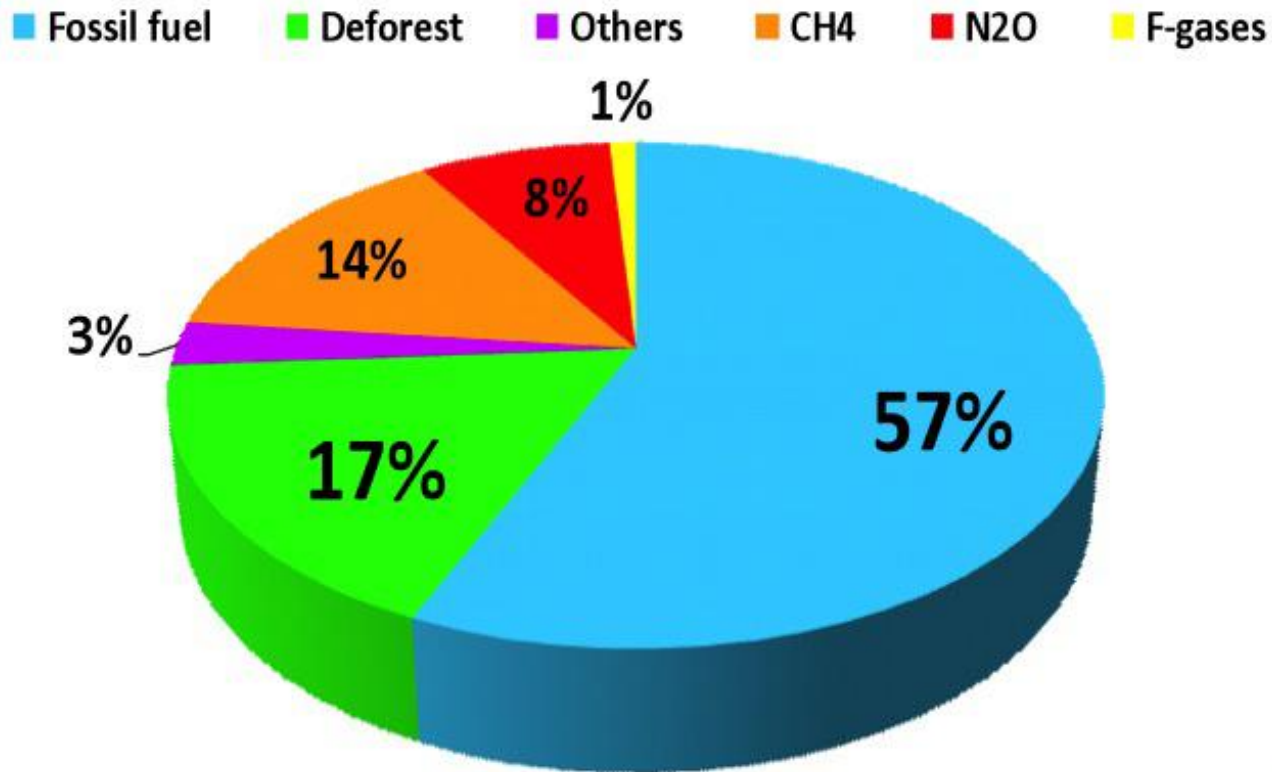


14. Burning fossil fuels has increased the amount of carbon dioxide in the atmosphere.



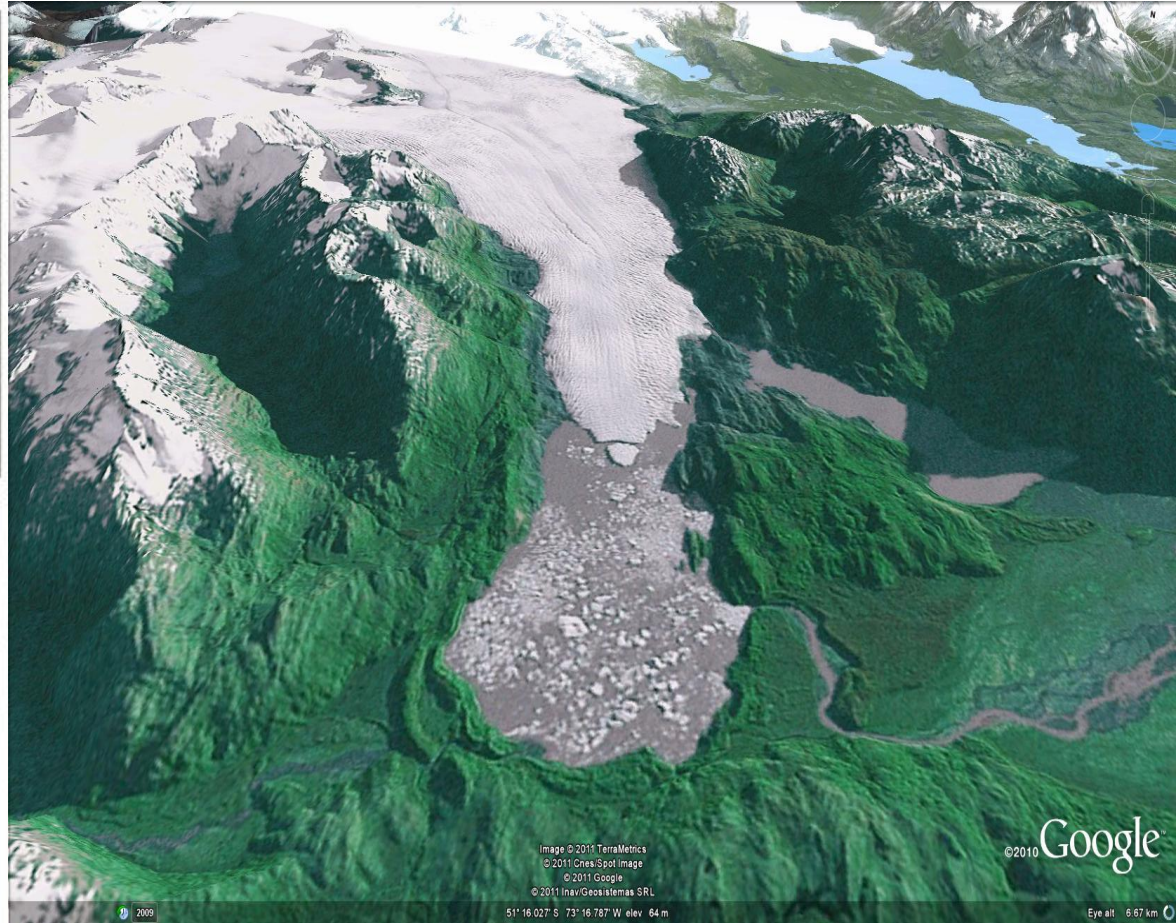
15. Increased fossil fuel use by people result in increasingly hot weather.

**Largest contributor to climate change is fossil fuel usage**

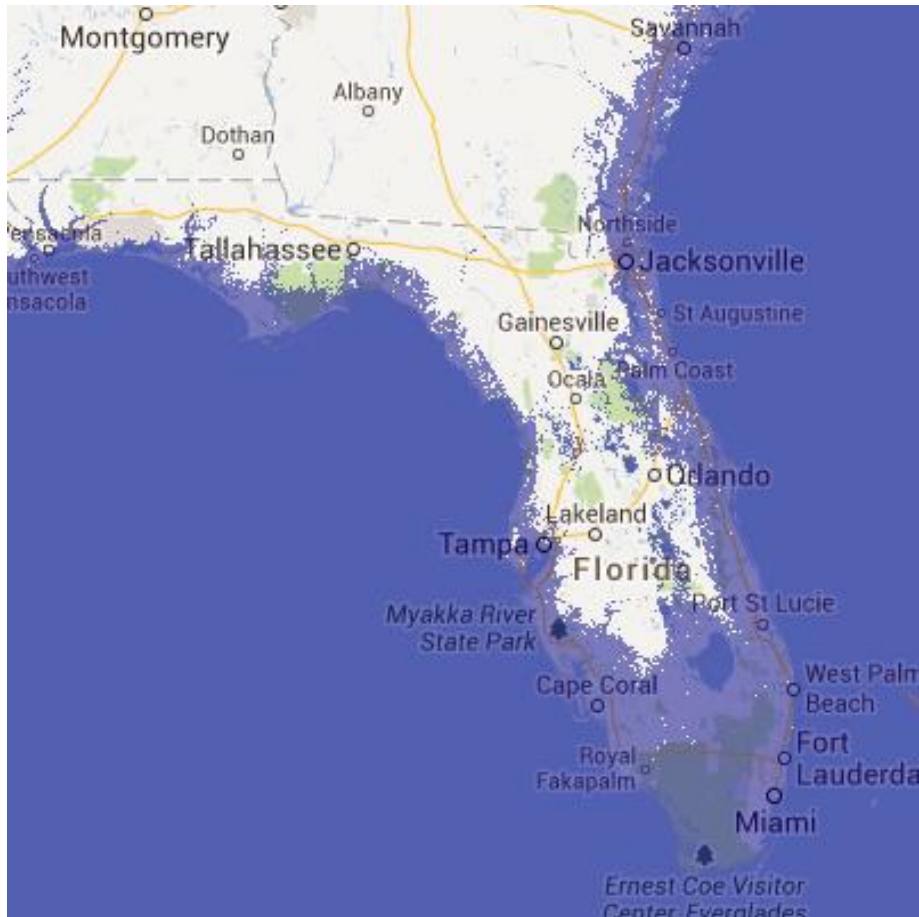




16. The shrinking of glaciers on Earth is due to global temperatures rising during the past 30 years.



17. If oceans continue to warm there will be reduced fish and plant life .



18. Climate is different from weather because climate is defined by long - term weather patterns.

**CLIMATE 101**

## WEATHER VS. CLIMATE

**WEATHER**

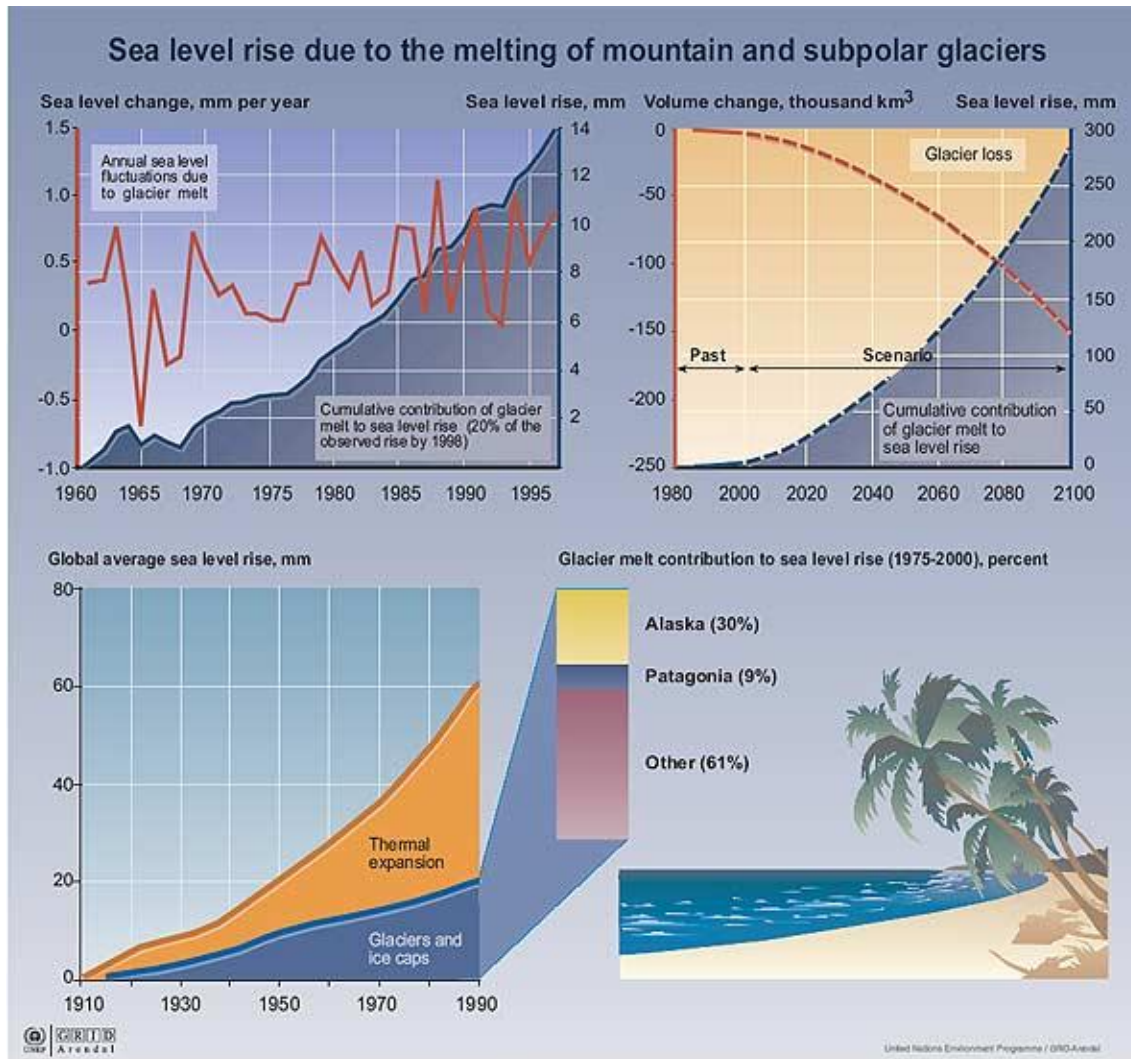
- + DESCRIBES THE ATMOSPHERIC CONDITIONS AT A SPECIFIC PLACE AT A SPECIFIC POINT IN TIME.
- + REAL-TIME MEASUREMENTS OF ATMOSPHERIC PRESSURE, TEMPERATURE, WIND SPEED, HUMIDITY, PRECIPITATION, CLOUD COVER, ETC.

**CLIMATE**

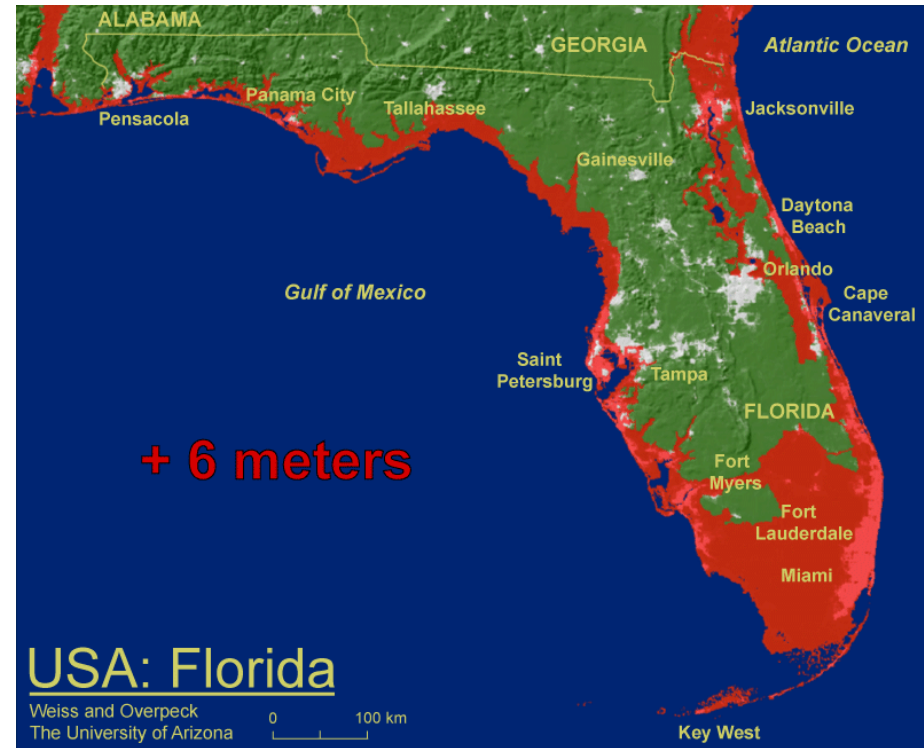
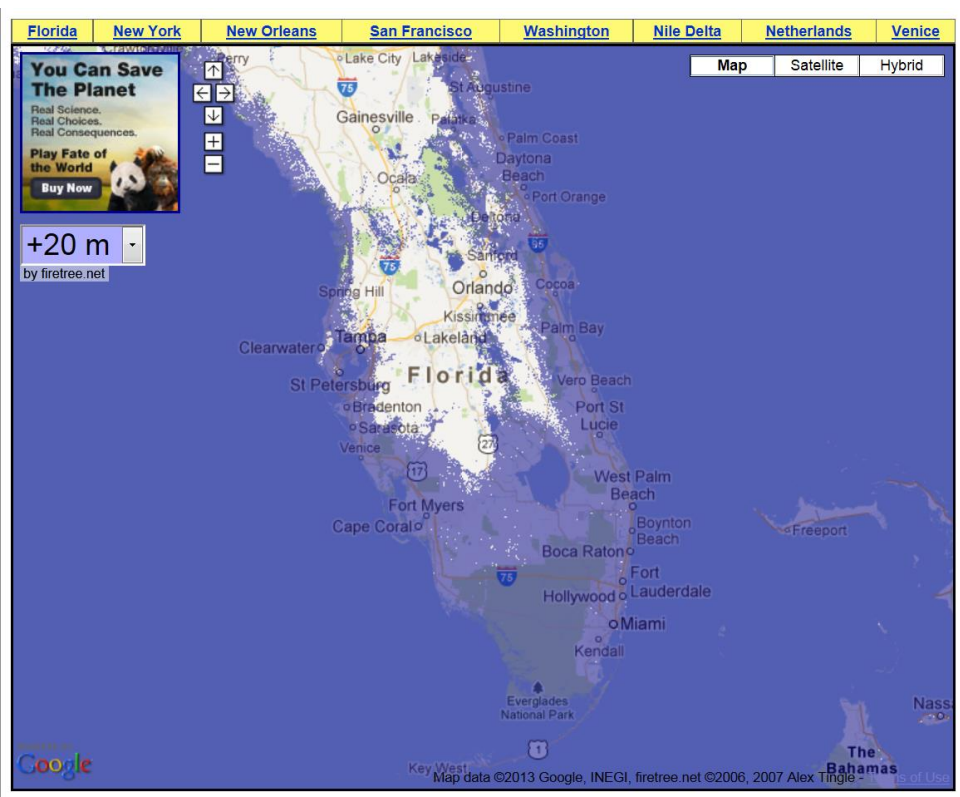
- + DESCRIBES THE AVERAGE CONDITIONS EXPECTED AT A SPECIFIC PLACE AT A GIVEN TIME.
- + AGGREGATING WEATHER STATISTICS OVER PERIODS OF 30 YEARS ("CLIMATE NORMALS").

WWW.SHIFTTHECLIMATE.ORG

# 19. When polar ice caps melt sea level rises.



20. If sea level continues to raise many people living in Florida will have to move.



# The End

