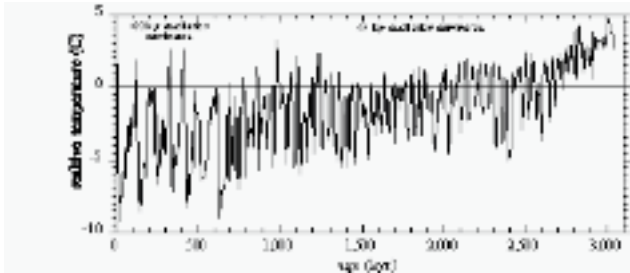


# CLIMATE CHANGE PPT FOLLOWSHEET

## I. The Earth's Climate has changed many times, due to natural causes.

A. \*\*There have been at least 4 Ice Ages in the last 3 million years - with only a 5°C cooler difference!



B. Four major continental glaciations are recorded in North America. The last began about 70,000 years ago, and ended 10,000 years ago. The ice moved as far south as Missouri.



## II. What Are Some Natural Causes of Climate Change?

A. Variations in the Earth's Orbit (tilt or shape) - cycles from 20,000 to 100,000 yrs.



B. Changes in the amount of energy coming from the Sun



C. Volcanic Emissions

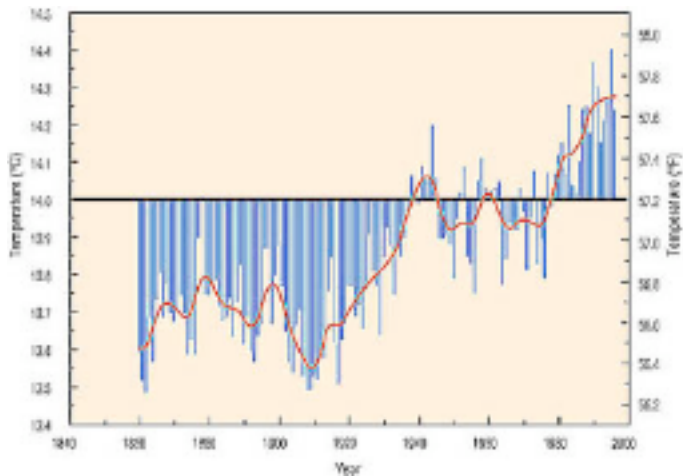


D. Collisions with comets or meteorites



# CLIMATE CHANGE PPT FOLLOWSHEET

## III. Has the World's Climate Changed in the Last 100 Years?



ANSWER: YES.

- (1) The average surface temperature has increased by about 1 °F.
- (2) Snow and ice cover have decreased.
- (3) The sea level has risen by 4-8".

## EVIDENCE OF GLOBAL TEMPERATURE INCREASES SINCE 1900:

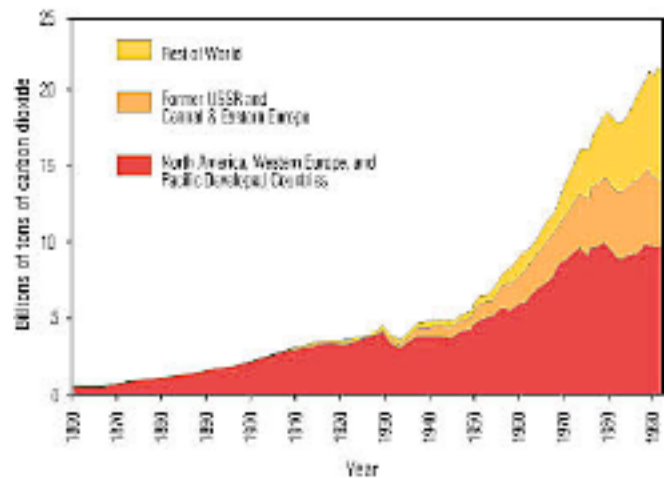
- (A) Recorded temperature changes
- (B) The observed rise in sea level of 4-8 inches
- (C) The shrinkage of mountain glaciers
- (D) Reduction of Northern Hemisphere snow cover
- (E) Increasing sub-surface ground temperatures

## IV. Have Humans Caused Some of the Recent Climate Changes?

ANSWER: POSSIBLY.

SOME HUMAN ACTIVITIES MIGHT BE:

- A. Burning of fossil fuels (coal, oil, and natural gases)



## B. Global Deforestation

