

Intro

1. What is your favorite weather?

1. If you could move anywhere in the world, where would you move? What is the climate like in this place?

1. How was your break?



EARTH DAY
APRIL 22



Agenda

1. Intro (5)
2. Weather vs. Climate (15)
3. Kahoot (15)
4. Ice core data + Milankovitch Cycles notes (20)
5. Reading or Urban Game (20)

Plan for the rest of the year

- ONLY 7 WEEKS + 1 WEEK OF FINALS

TOPICS

- Climate Change
- Space

Card Sort



Kahoot

What force has the biggest influence on our climate?



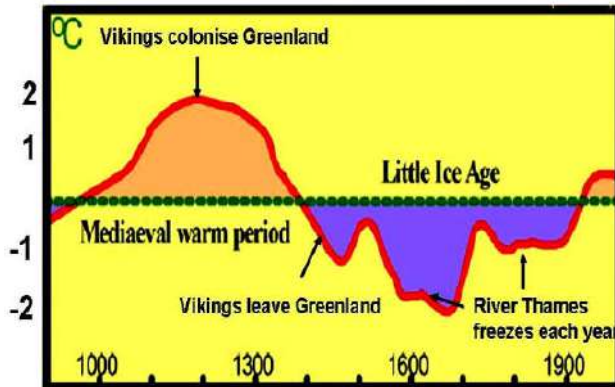
(insolation)

TTTTNTY

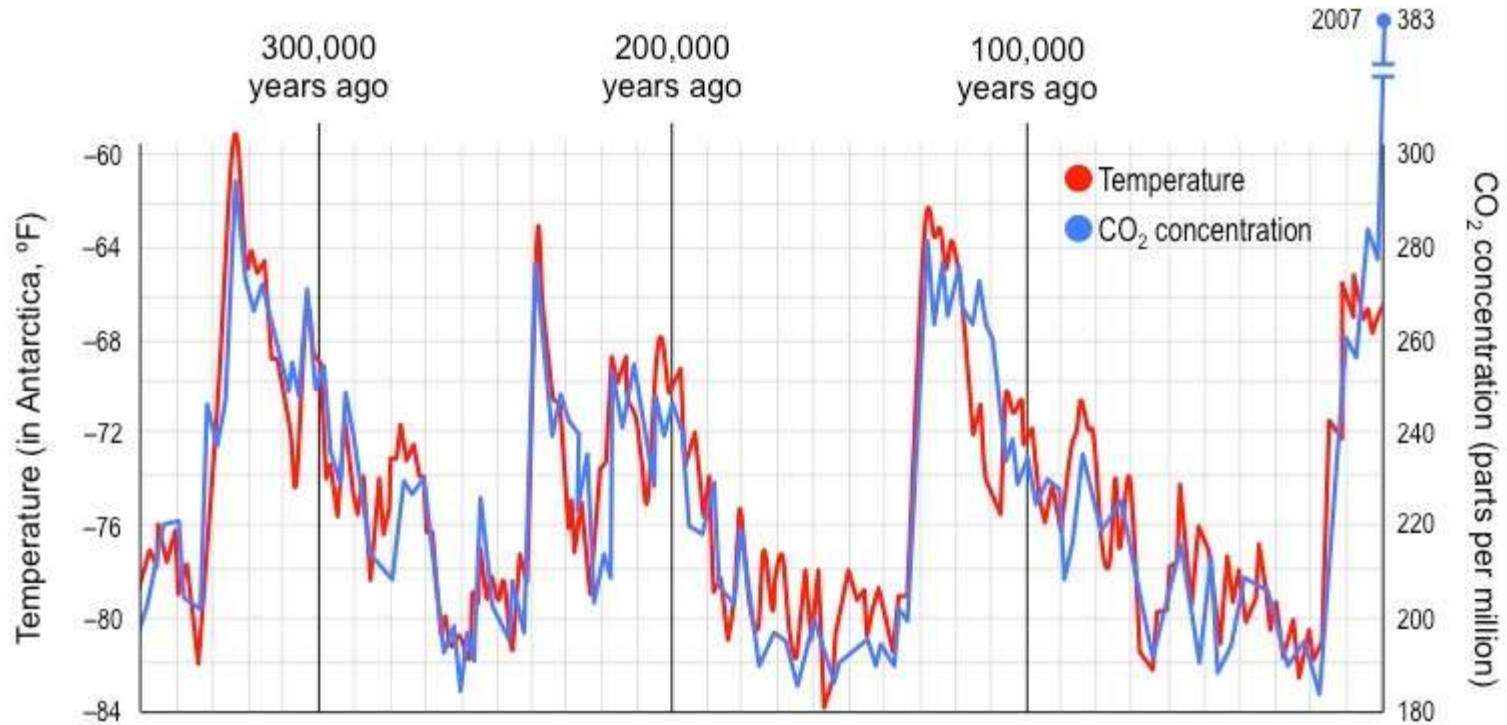
1. What do you know about past climates?
1. Has the Earth always had the same climate? Why or why not?

Milankovitch Cycles

- Earth's climate has **always** changed naturally
 - These changes occurred in **cycles**
- If all 3 forces lined up perfectly, **ice ages or warm periods would occur**



Climate Change -temp follows CO₂



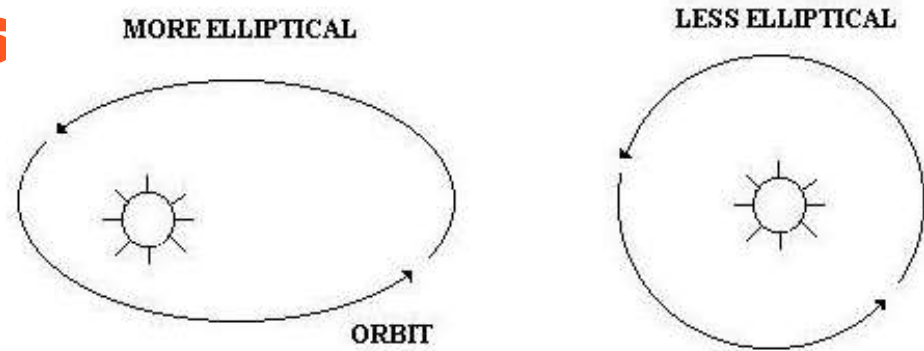
ECCENTRICITY

Milankovitch Cycles

ECCENTRICITY

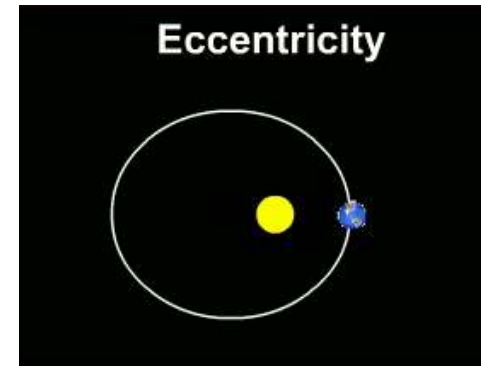
- 100 kyr cycles

- Earth moves closer and further from the sun since the orbit becomes less circular
 - Potential flips the seasons



PERIODICITY:

100,000 YEARS

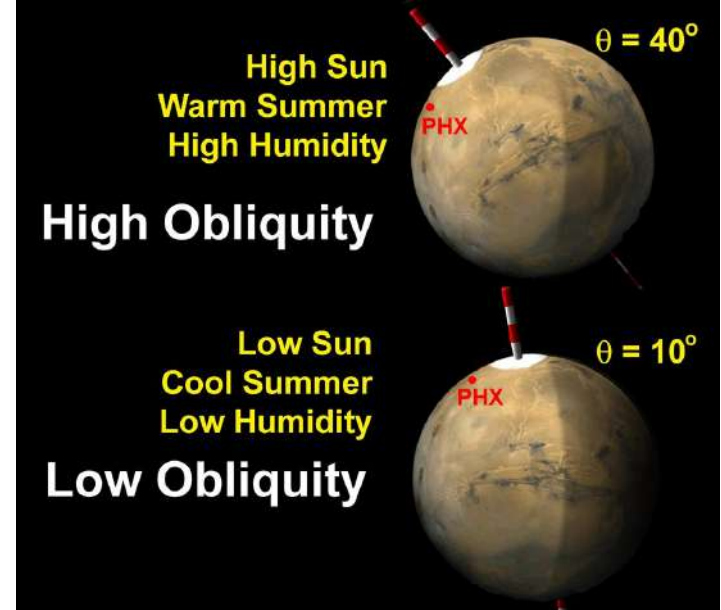


Milankovitch Cycles

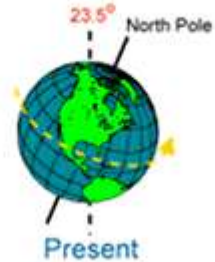
OBLIQUITY (*TILT*)

- 41 kyr cycles

- In a hemisphere that is at max tilt (24.5) it will be warmer since there is more insolation
- If a hemisphere is at minimum tilt (21.1), it will be colder with less insolation



OBLIQUITY

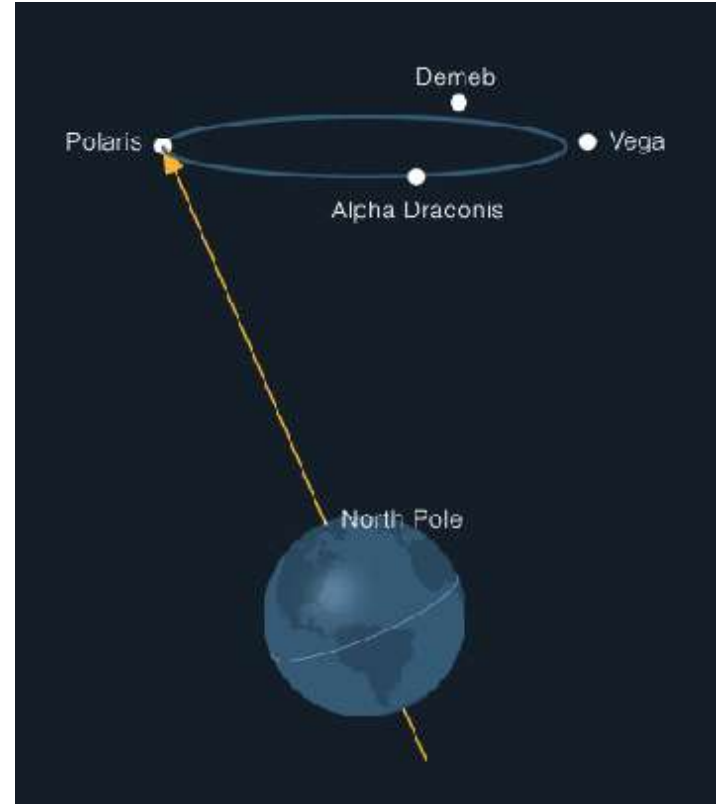


Milankovitch Cycles

PRECESSION (WOBBLE)

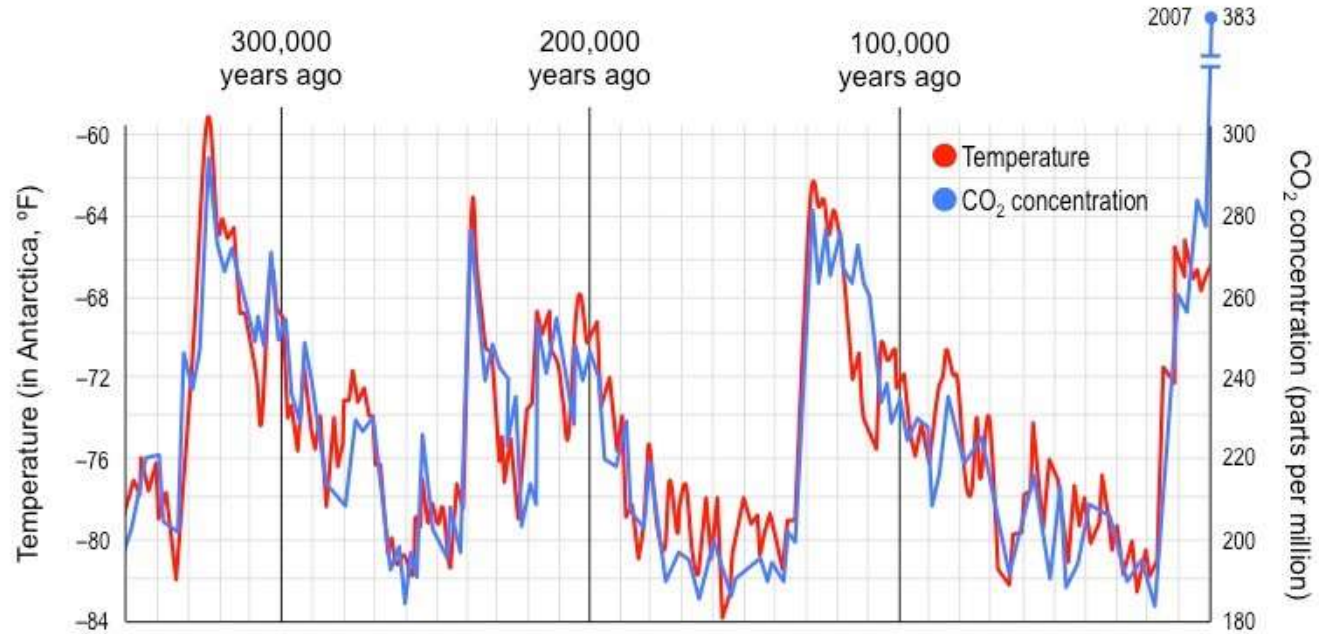
- 23 kyr cycles

- Amplifies or weakens seasons



Climate Change -temp follows CO₂

How would different amounts of insolation affect or change the CO₂ on our planet?

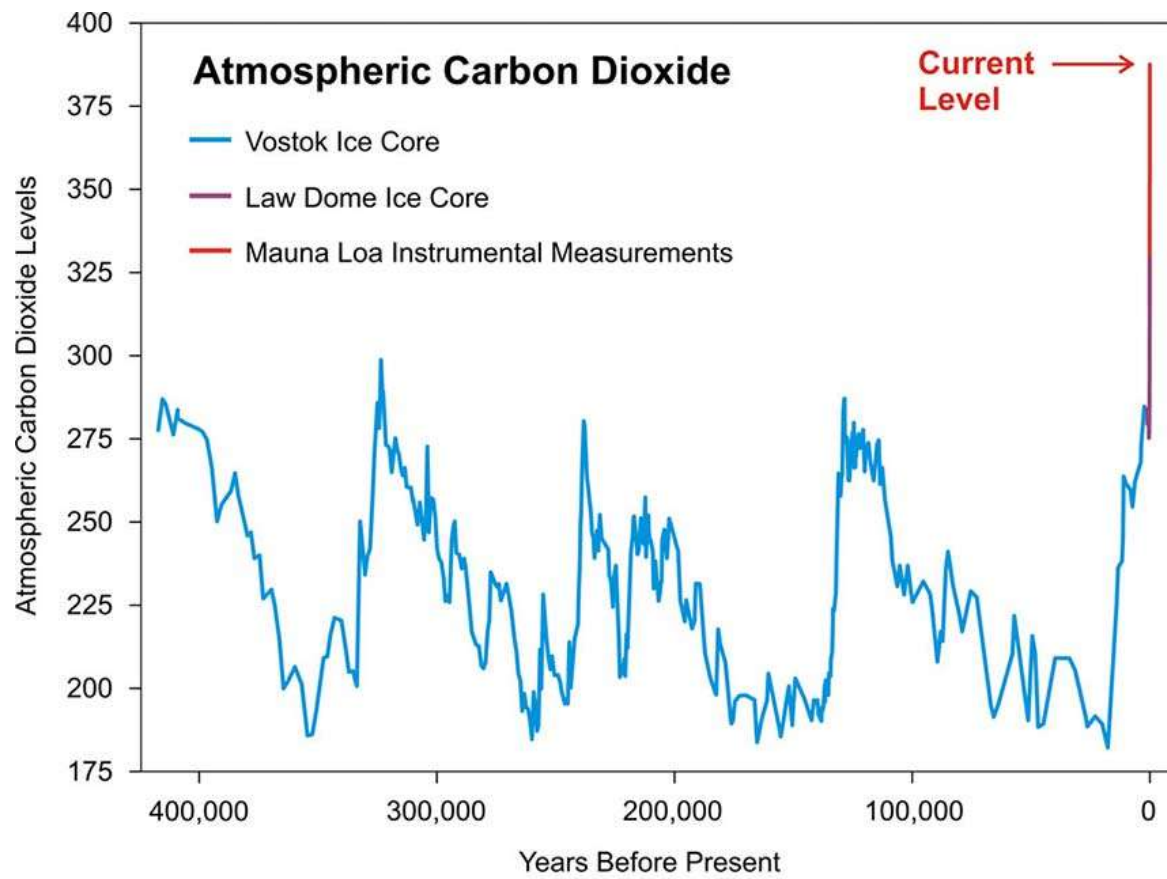


Last Glacial Maximum

<http://itg1.meteor.wisc.edu/wxwise/climate/earthorbit.html>

N
NATURAL
HISTORY
MUSEUM





Now... go to Google Classroom

