



GLOBAL CHANGE WRAP-UP:

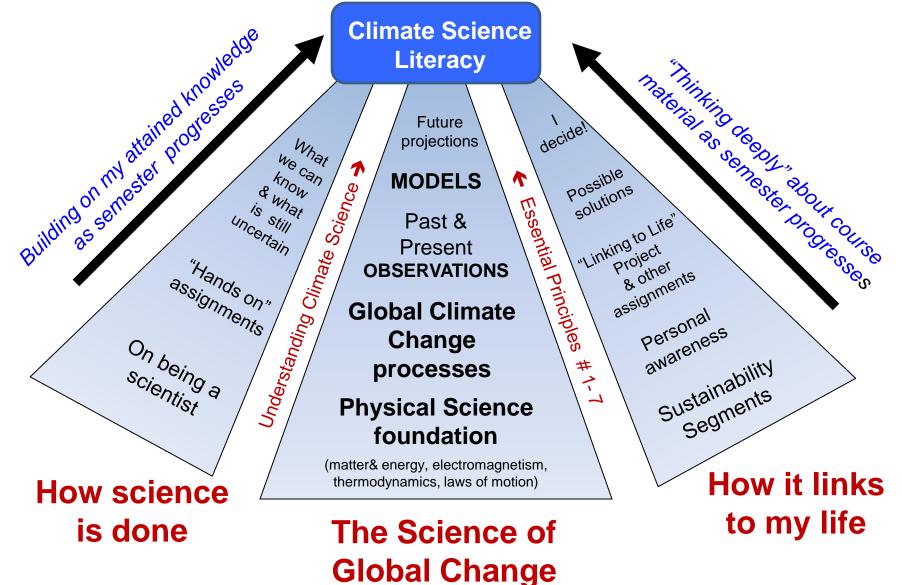
CLIMATE SCIENCE LITERACY

(class Notes pp 105 -114)

OUR CHOICES

plus THE GREAT DEBATE

GOAL: Enhanced Understanding Of Global Change Science, How It Operates, & What It Means To Me Personally



CLIMATE LITERACY

Climate Literacy Network

Working Towards a Sustainable Future

Climate Literacy

Climate Literacy

CLN

Essential Principles

Climate Literacy Network

Climate Change Education Projects

Teleconference Schedule

Events Schedule

Discussions

Documents

What is Climate Literacy?

Climate literacy is an understanding of your influence on the climate and climate's influence on you and society.

OR LEARNERS OF ALL AGES

limate

iteracy

The Essential Principles

of Climate Science

A Guide for Individuals and Communities

A climate-literate person

- understands the essential principles of Earth's climate system,
- know how to assess scientifically credible information about climate,
- communicates about climate and climate change in a meaningful way, and
- is able to make informed and responsible decisions with regard to actions that may affect climate.

The <u>Climate Literacy Network</u> has been responsible for the development of the <u>Climate Science Literacy Essential</u> **Principles** which summarize the most important principles and concepts of climate science. The principles were originally developed in 2007 using a community-wide consensus building process and were revised in March 2009.

http://cleanet.org/cln/index.html

7 ESSENTIAL PRINCIPLES:

1. The Sun is the primary source of energy for Earth 's climate system.

2. Climate is regulated by complex interactions among components of the Earth system.

3. Life on Earth depends on, is shaped by, and affects climate.

4. Climate varies over space and time through both natural and man - made processes.

5. Our understanding of the climate system is improved through observations, theoretical studies, and modeling.

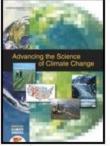
6. Human activities are impacting the climate system.

7. Climate change will have consequences for the Earth system and human lives.

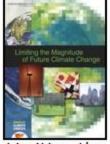
DECISIONS & CHOICES AT THE NATIONAL LEVEL:



Strong Evidence on Climate Change Underscores Need For Actions to Reduce Emissions and Begin Adapting to Impacts



Advancing the Science of Climate Change



Limiting the Magnitude of Climate Change



Adapting to the Impacts of Climate Change



Informing an Effective Response to Climate Change

http://americasclimatechoices.org/

DECISIONS & CHOICES AT THE SECTOR, BUSINESS & LOCAL LEVEL :



The Next Frontier: Engineering the Golden Age of Green

http://www.thenextfrontiermovie.com/

http://fp.arizona.edu/kkh/nats101gc/GC-next-frontier.htm

DECISIONS & CHOICES AT THE PESONAL LEVEL:



http://fp.arizona.edu/kkh/nats101gc/GC-video-story-of-stuff.htm



Climate Change ... Ammsnbc.com

Winter's icy grip: Drive

Last decade warmest on record, review finds

U.N. agency also says 2010 could be single warmest year on record

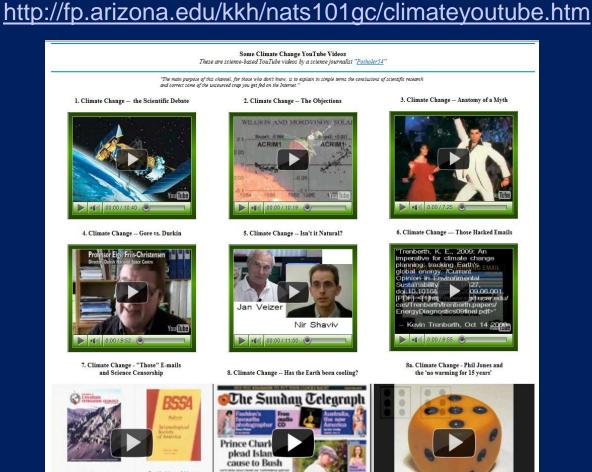
http://www.msnbc.msn.com/id/40474599/ns/us_news-environment/

THE DEBUNKING WILL CONTINUE SO THINK LIKE A SCIENTIST:

Be curious and open-minded, yet skeptical and probing, don't accept something without knowing the source or the whole story . . . Find out: is it PEER REVIEWED?

An excellent and very measured series of videos on CLIMATE CHANGE by a science journalist →

READ THE SHORT SKIT on "CLIMATEGATE" featuring Stella Student & Lee Learner http://fp.arizona.edu/kkh/nats101gc/PDFs-2010/CLIMATEGATE-SKIT-2010.pdf



THE FALL 2010 CLASS GLOBAL WARMING DEBATE

THE QUESTION:

Should the United States take aggressive and immediate action to slow global warming?

(e.g. sign the International Climate Treaty, reduce or tax GHG emissions, etc. etc.)

DIRECTIONS FOR DEBATE ACTIVITY

1) Get in your Groups facing each other & select a Group Discussion Monitor

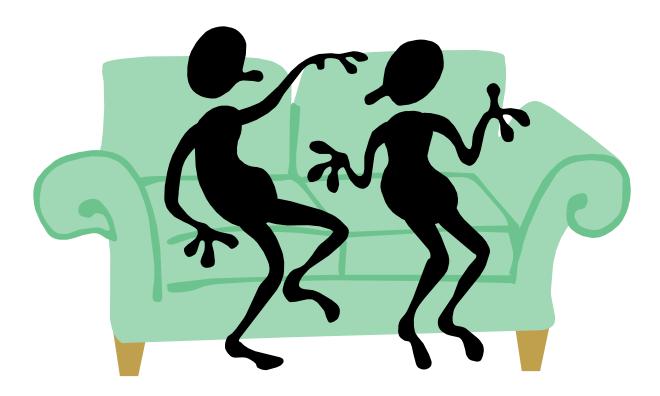
(1 bonus pt – reward the one who deserves it after a semester of service!)

- 2) Monitor passes out a "ROLE LABEL" to group members.
- 3) THE DEBATE: The debate begins by going around the group with EACH STUDENT READING HIS or HER prepared 1-minute OPENING STATEMENT
- 4) GENERAL OPEN DEBATE (for a few minutes more)
- 5) WHEN TIME IS CALLED, Monitor takes a tally of "YES" or "NO" votes (based on ROLES)

6) FILL IN the VOTE RESULTS for each role, TOTAL THEM, & HAVE
EVERYONE SIGN the "DEBATE PARTICIPATION FORM" → (This is the basis of your 5 pts for group participation in the debate)

7) At the end you will use clickers to VOTE YOUR OWN VIEW YES / NO

DEBATE TIME

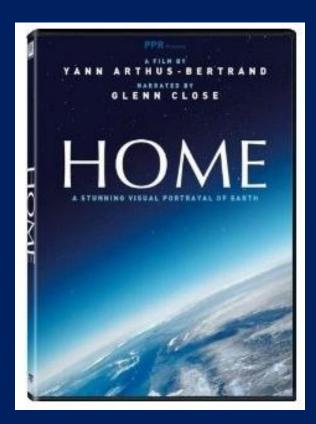


NOW . . . WITH YOUR CLICKER VOTE YOUR OWN VIEW ON THE DEBATE QUESTION:

YES = 1 NO = 2

Should the United States take aggressive and immediate action to slow global warming?

EPILOGUE



The last 20 minutes of the film Watch it in D2L via streaming video starting at 1:38:10 or better yet, WATCH THE WHOLE FILM!

IT'S UP TO US TO WRITE WHAT HAPPENS NEXT . . . TOGETHER!



THANK YOU NATS STUDENTS FOR AN AMAZING SEMESTER!

Dr H & The TA's See you at the Final Exam!