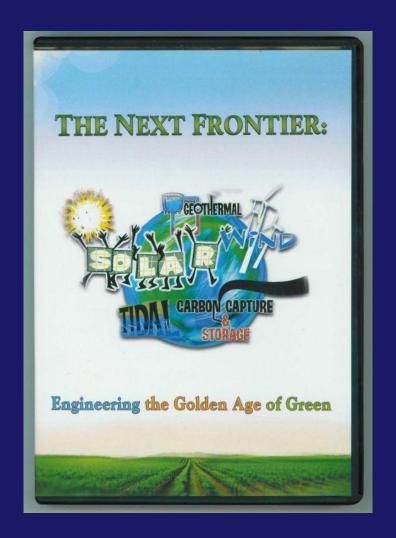
TOPIC #16 CLIMATE CHANGE ADAPTATION & MITIGATION SOLUTIONS II (cont.)

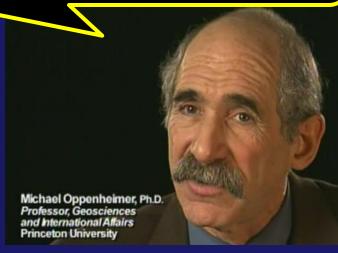
TODAY:
More Mitigation Solutions!

We'll start by watching the next segment of . . .



Remember to count the "Flowers" . .

"Let a thousand flowers bloom"



When we finish the film ...
You will be asked HOW MANY
DIFFERENT SOLUTIONS WERE
DISCUSSED IN IT and to give a few
examples.

EXAMPLES (in the film and elsewhere . . .) (See p 93 in Class Notes)

Conservation Energy efficiency Alternative energy (solar, wind, geothermal, hydropower, nuclear, etc. etc.,,,) Green economy Geoengineering Footprint reduction Management solutions Forest stewardship / certification



International agreements on emissions targets e.g., Kyoto Treaty or a modification – In progress now!

National policies (cap & trade, carbon tax) Tough sell! p 122 Local initiatives (rainwater harvesting in Tucson, many more!) Sustainable lifestyles . . . (you and me!)

The climate news is bad, but prospects for climate talks may be worse

UN-sponsored climate talks opened Monday in South Africa amid grim news on global warming and deeply divisive questions over how, or whether, to expand or extend the Kyoto Protocol.

By Pete Spotts, Staff writer / November 28, 2011



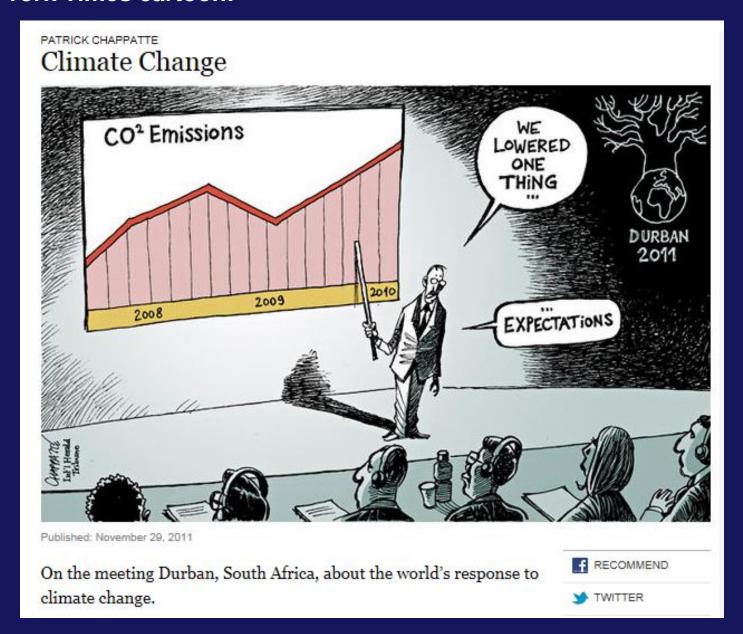
Executive Secretary of the United Nations Framework Convention on Climate Change Christiana Figueres speaks during a news conference at the conference at the Conference of the Parties of the United Nations Climate Change Conference in Durban, South Africa, Monday. Almost 200 nations began global climate talks on Monday with time running out to save the Kyoto Protocol aimed at cutting the greenhouse gas emissions.

Rogan Ward/Reuters



http://www.csmonitor.com/Environment/2011/1128/The-climate-news-is-bad-but-prospects-for-climate-talks-may-be-worse

New York Times cartoon:



G-6 ECOLOGICAL FOOTPRINTS & GLOBAL CHANGE



Footprint Calculator

How much land area does it take to support your lifestyle? Take this quiz to find out your Ecological Footprint, discover your biggest areas of resource consumption, and learn what you can do to tread more lightly on the earth.



- (1) Enter INDIVIDUAL FOOTPRINT RESULTS
- (2) Compute GROUP TOTALS & AVERAGE
- (3) **COMPARE** with USA and GLOBAL AVERAGES
- (4) DISCUSS observations, reasons for differences
- (5) **SUMMARIZE DISCUSSION** on the form

PART I. Enter each group member's name & footprint data in the units indicated based on the FOOTPRINT QUIZ everyone took. Then have a different member of your group total each column and enter her/his name at the bottom of that column to indicate this. (See the example for Stello, but do NOTenter her data into your sum or overcage)

To calculate # EARTH's NEEDED for each person: Your Ecol Footprint (in global acres) + 4.5 ga

NAME	ECOLOGICAL FOOTPRINT	# EARTHS NEEDED (Ecololgical Footprint ÷ Global Biocapacity)
	global acres (ga)	Global Biocapacity = 4.5 ga
Stella Student	18.4	4.1
SUM OF EACH COLUMN:		
AVERAGE OF EACH COLUMN:		
First name of student who Computed each column:		

After computing your Group's Average Footprints, fill in this Comparison Table:

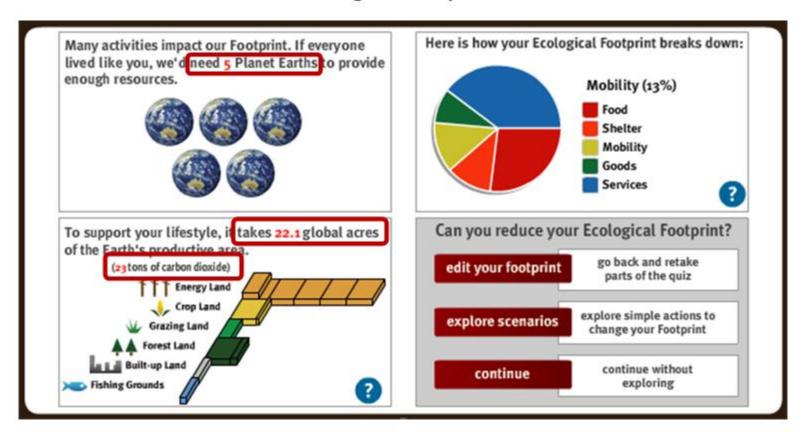
based on 2009 data	Ecological Footprint (global acres)	Earth's Biocapacity (global acres)	# Earth's Needed
GLOBAL Avg	6.4	4.5	1.4
USA Avg	22.3	4.5	5
OUR GROUP Avg		4.5	

((b) DISCUSS possible reasons for the differences within your group and between your group and the USA
	averages. You can do this by reviewing the "behavior breakdown" charts for the footprint to see which actions contribute mos
	to each of your footprints. Do any common themes come up? What are the main differences between the person in your group
	with the smallest Footprint in each Footprint type and the person with the largest Footprint in each type? You'll learn a lot about
	each other in the process!

PART III. COMPARE YOUR GROUP'S FOOTPRINT AVERAGE WITH GLOBAL AVERAGES:

(a) How do your group's Average Ecological Footprint compare with the Global average?	
Our GROUP FOOTPRINT AVERAGE is: (larger, much smaller, etc.)	
(b) DISCUSS possible reasons for the differences between your group's Footprint, the USA average Footprint, and the Global average Footprint.	
DISCUSSION SUMMARY	
In the box below, summarize your discussions for Part II & III with 4 "bullet points" about the comparisons you made of YOUR GROUP'S FOOTPRINTS, the U.S.A. Average Footprint, and the GLOBAL Average Footprint. Please write in complete sentences or intelligent phrases (not single words). Be sure you explain possible reasons for any differences you have observed in your comparison.	
•	
•	
•	

USA AVERAGE Ecological Footprint (based on 2008 data)



The Ecological Footprint calculator "represents the amount of land and sea area needed to provide the resources a person needs (food, shelter, etc.), and absorb the wastes they create (including carbon dioxide)"

SOURCE: http://www.footprintnetwork.org/en/index.php/GFN/page/footprint_calculator_frequently_asked_questions/

See you on MONDAY for:

FINAL EXAM REVIEW QUIZ!!

