

Welcome to
GC 170A1, Sec 001 + 002
INTRODUCTION TO GLOBAL CHANGE

SIT AT ANY TABLE TODAY!

In the folder find & do:

- **SHORT BACKGROUND FORM: FILL OUT** both sides
- **COURSE INFORMATION SHEET: READ IT**
- **SCIENCE QUOTES: SELECT** one you like best
& on the back write **WHY**
- **BLANK NAME TAG: write LARGE & PUT IT ON!**

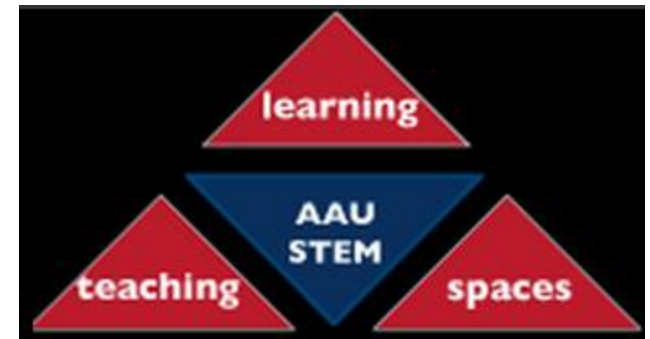
Your Professor:

Dr. Katie Hirschboeck (“Dr H”)
Laboratory of Tree-Ring Research

Objectives for today's class:

- 1 – Introduction to your Teaching Team
(and how you can be a part of it)
- 2 – Overview of the course and how
you will benefit from it
- 3 – Explanation of the course logistics
- 4 – About SCIENCE & Global Change

This is a General Education Collaborative Learning Spaces Teaching Team Course



Your Teaching Team:

Professor: Dr. Katie Hirschboeck

(Laboratory of Tree-Ring Research, LTRR)

Office: Bannister Tree-Ring Building, room 319



Your Graduate Teaching Assistants (GTA's)



Diana Zamora-Reyes
Hydrology & Water Resources
PhD Student

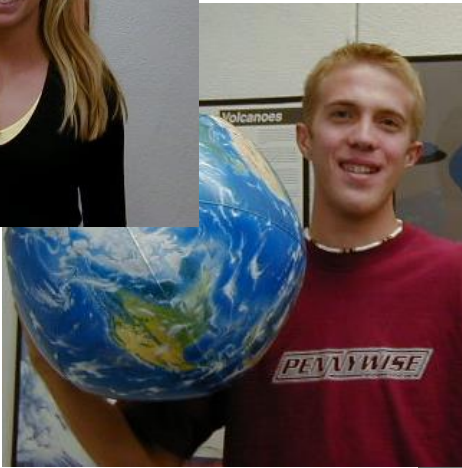
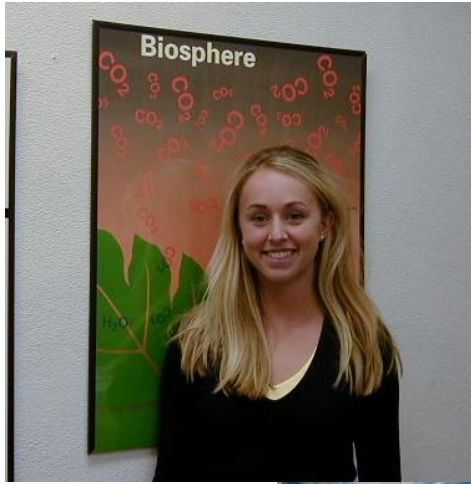


Ryan Lee
Arid Lands
PhD Student

**GTA Office Hours
will begin next week**

and Undergraduate Preceptors

THIS COULD BE YOU!!



What is a Preceptor?



- Motivated and responsible student
- Facilitator
- Peer Tutor
- Classroom leader

**How does the CLASS
benefit from Preceptors?**

**THEY WILL BE ADVOCATES
FOR ALL OF YOU & ASSIST YOUR LEARNING !**

How do I find out more?

See the PRECEPTOR SECTION
under TEACHING TEAM
on our GC 170A WEBPAGE:



<http://www.ltrr.arizona.edu/kkh/natsgc/>

Last but not least: **YOU & YOUR GROUP!**

Get to know someone in the class:

THINK • PAIR UP • SHARE



1. Name?
2. Where from?
3. What year & major?
4. Seen evidence of a changing climate?

Then discuss in your groups:

**Why should we study the Earth
& Global Change?**

**Q. Why study the
Earth & Global Change?**



CLASS SHARE

**WHAT THIS COURSE IS
ALL ABOUT:**

**SCIENCE
& PHYSICAL SCIENCE CONCEPTS**

THE EARTH

**HOW & WHY
GLOBAL CHANGES OCCUR**

**YOUR ROLE AS
A CITIZEN OF OUR PLANET**

Questions GLOBAL CHANGE SCIENTISTS are asking and studying:

- **How and why are these changes occurring?**
- **What are the impacts? Who will be most vulnerable? Where will impacts be greatest?**
- **Can human beings do anything to stop or mitigate these changes?**
- **. . . or are they part of “natural variability” that will happen no matter what we do?**
- **How can humanity adapt to global changes?**

THESE ISSUES ARE NOT WITHOUT CONTROVERSY!! We'll address this too!



SHOULD THE UNITED STATES ADOPT A TAX ON CARBON?

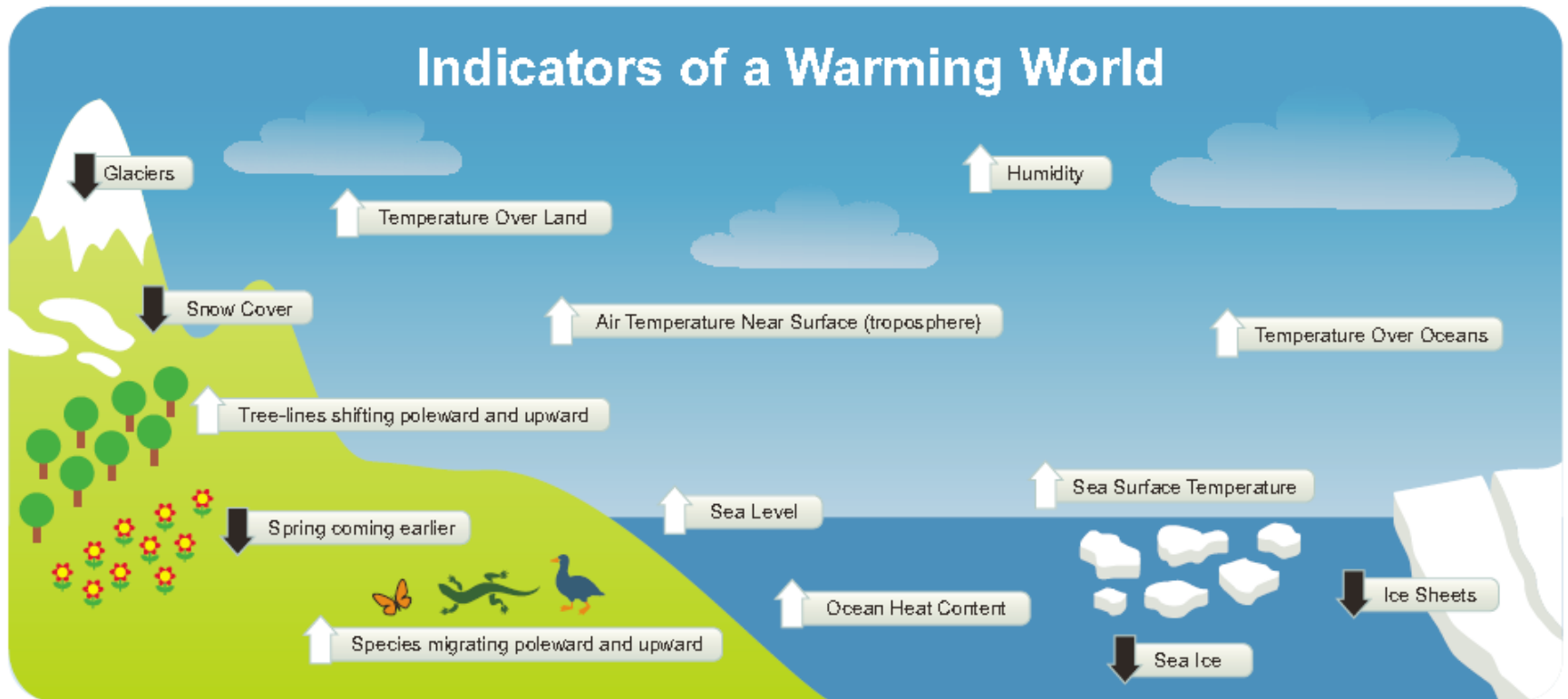
Should the United States adopt a tax on carbon? Yes: It would spur growth, innovation

SHOULD THE UNITED STATES ADOPT A TAX ON CARBON?

Should the United States adopt a tax on carbon? No: It would hobble economic recovery

CAGLE CARTOONS.COM
FITZSIMMONS/STRAZ DAILY STAR 2012

GOAL #1: By the end of the semester, you will be able to explain how and why each of these indicators are changing and what it means for the planet – and you!



GOAL #2: By the end of the semester, you will be able to critically evaluate and knowledgeably discuss the indicators that point to a “human” fingerprint in what’s driving climate change:

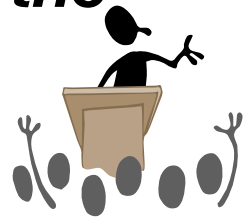


... and then make some informed decisions on what can be done about it!

WHAT KIND OF STUDENT SHOULD I BE IN ORDER TO GET MY MONEY'S WORTH OUT OF THIS COURSE?

Students who mesh well with Dr. H's teaching style and the format of this GC 170A lecture section:

- **Like a class that is structured with lots of online support**
- **Enjoy working with fellow students in groups during part of the class period (not a loner)**
- **Have convenient access to a the internet and check it frequently**
- **Are "visual" learners who like lots of graphics & videos in class**
- **Attend class regularly and like to keep up with the material as it is taught**
- **Have a sense of humor!**

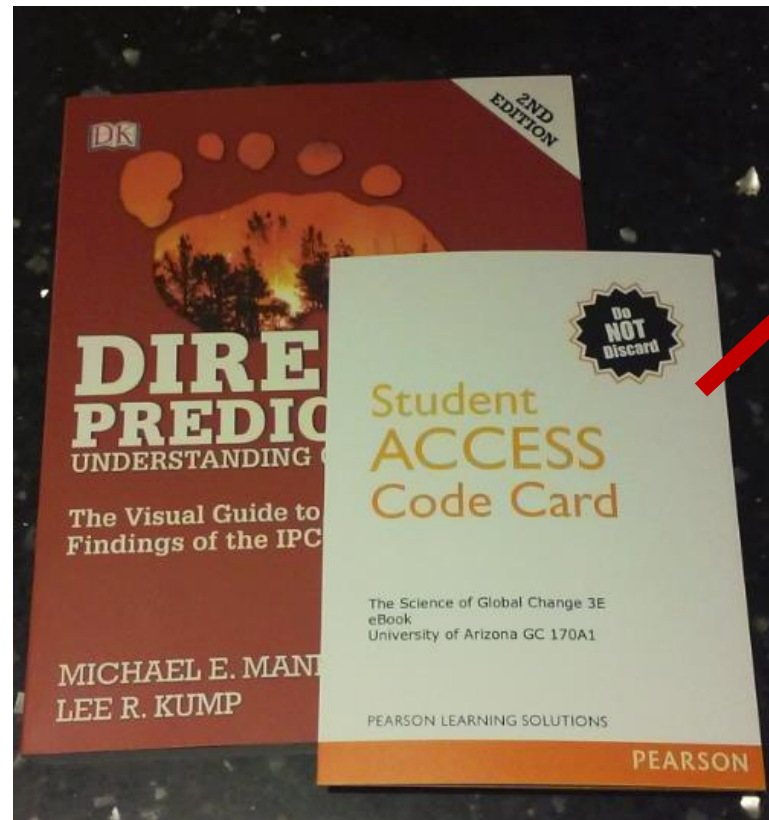


COURSE LOGISTICS

COURSE LOGISTICS

Required:
2 TEXTBOOKS
1 e-book (online)
+ one paperback

E-text

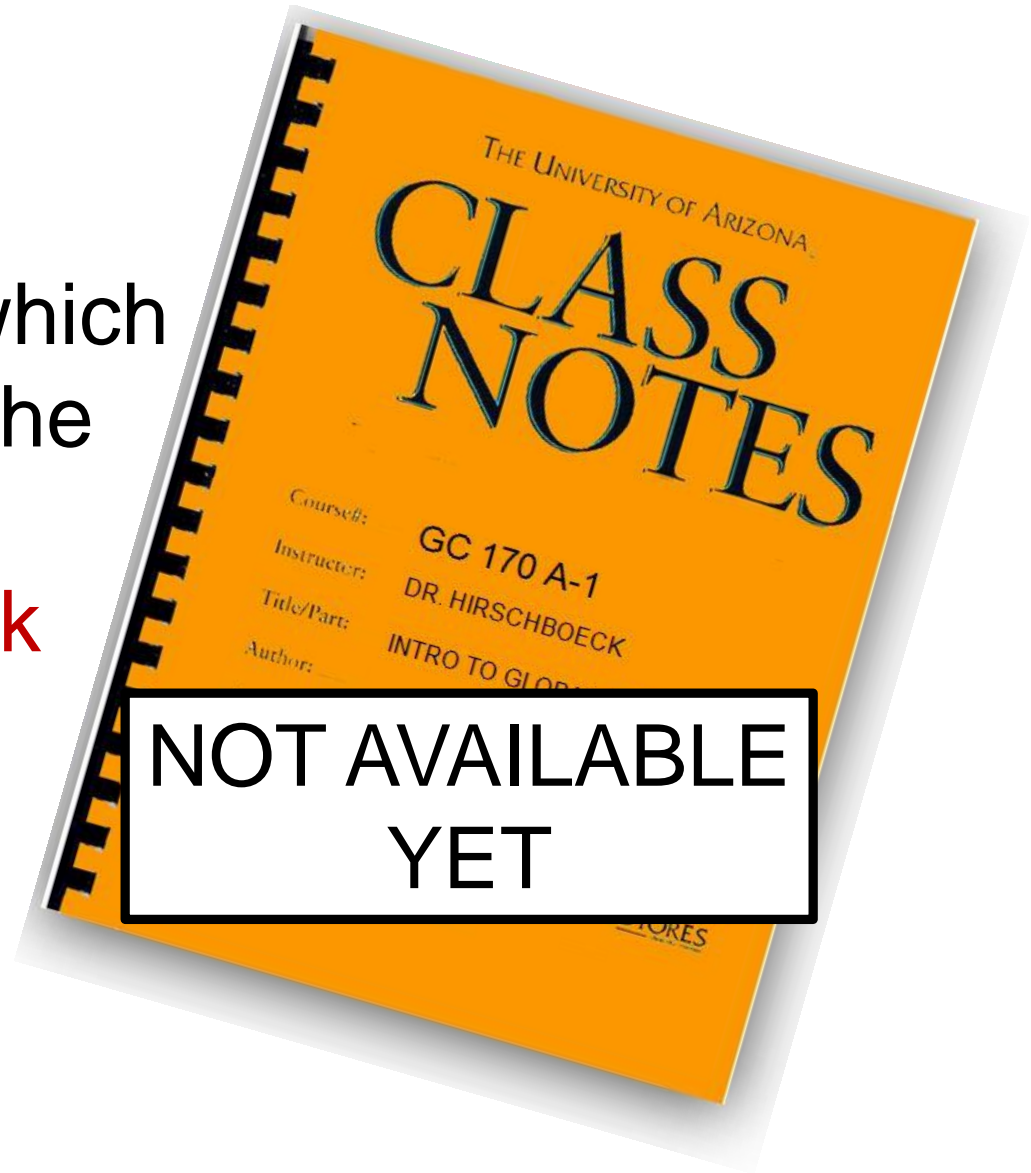


Begin reading Chapter 1 now in E-Text. . .

NOTE: assigned readings will be listed in the weekly
D2L Checklist &
on the **Reading Assignments Schedule.**

COURSE LOGISTICS

. . . Plus a **CLASS NOTES PACKET** which will be available in the ASUA Bookstore sometime next week



COURSE LOGISTICS

... plus a
Turning Tech “CLICKER” Device

OR

a ResponseWare License to use
with your own device (laptop,
smartphone, tablet)

Clickers are available in the ASUA
Bookstore; the Responseware
license is purchased only.

You'll need a registered response device starting
NEXT WEEK



*Turning Technologies
Response Device
(Clicker)*

OR

*ResponseWare License
to use with:*





The D2L Checklist Tool

[Check off each task as you complete it to stay on track & document your progress]

A screenshot of the D2L Checklist Tool interface. The top navigation bar is red with the Arizona State University logo and the course title "GC 170A1 INTRO TO GLOBAL CHANGE SEC 001 + 002". Below the navigation bar is a yellow menu with options: "Course Home", "Classlist", "Chat", "Discussions", "Checklist", "GRADES", and "SEMESTER-ON-A-PAGE". The main content area is titled "Checklists" and shows a browser window displaying the checklist for "Week 01 - Tasks for Aug 24-30". The checklist items are: "Purchase Textbooks", "Purchase Turning Tech Response Card device ('Clicker') or ResponseWare License", and "If desired, purchase the recommended text 'The Cartoon Intoduction to Climate Change'".

Week 01 - Tasks for Aug 24-30

Purchase Textbooks

Purchase "The Science of Global Change" (SGC) E-Text & "Dire Predictions" (DP) textbooks

Our two textbooks have been selected specifically for this GC 170A! Lec 001 + 002 and are **available at the ASUA Bookstore in a single package under the author name KUMP.**

Science of Global Change E-TEXT: A pamphlet with registration directions to access the E-Text online comes shrinkwrapped in the Textbook Package. It is labeled **PEARSON Online Access.**

Dire Predictions text: The shrinkwrapped package also contains the *Dire Predictions* paperback text. (no need to purchse it separately!)

[NOTE: Please contact Dr. H immediately if you discover that the bookstore has run out of copies of the textbook package.]

Purchase Turning Tech Response Card device ("Clicker") or ResponseWare License

Information on how to decide which is right for you -- are posted under [QUICK LINKS](#) on the Main GC Webpage:

Option A = a Response card "clicker" device (which you will need to bring to class each day)
(NOTE: You should be able to use the Turning Tech clicker in several of your UA courses.)

OR

Option B = ResponseWare (i.e., "virtual clicker license" which you purchase so that you can gain access to an online interface for answering clicker questions. It can be used with a laptop, tablet or smartphone (iPhone or Android)

The logistics of how to register your Clicker or Responsware devices will be explained in class.

See [QUICK LINKS](#) for more details.

If desired, purchase the recommended text "The Cartoon Intoduction to Climate Change"

This recommended text will be used in class lectures and referred to throughout the semester -- it is **RECOMMENDED ONLY** and **NOT REQUIRED**. but you may find it informative, easy to read and fun.

The Cartoon Introdution to Climate Change

GETTING STARTED:

1. On the **CLASS WEBPAGE**, read & study the **Syllabus** and the **online FAQ** (Frequently Asked Questions)
POP QUIZ in class coming up about this!
(To test yourself, take the Practice Self Test)

2. Purchase and **REGISTER YOUR E-TEXTBOOK package** → & begin reading **CHAPTER 1.**



3. Purchase and **REGISTER your Response Device**





CHECKPOINT QUESTIONS

- **30 second TABLE CHAT:**
(to clear up confusion & define Q's)
- **What's your most burning question?**
- **Select a SPEAKER to report!**

MORE ON COURSE LOGISTICS

- About [Our CLASSROOM](#)
- About COLLABORATIVE
LEARNING GROUPS

Video!!!

WHAT KIND OF BACKGROUND DO I HAVE TO HAVE FOR THIS CLASS?

- **CRITICAL READING SKILLS**
- **WRITING SKILLS**
- **BASIC MATH & QUANTITATIVE
REASONING SKILLS**
- **HIGH SCHOOL SCIENCE**
- **TEAM WORK SKILLS**

ATTENDANCE is REQUIRED and EXPECTED

**Regular computer access is REQUIRED and
will be needed**

“Dr. H” CLASSROOM POLICIES



(Part of SYLLABUS II “Frequently Asked Questions”):

1. Sorry, but no questions can be answered *before* class until teaching equipment is set up.
2. Questions *after* class will be answered after the equipment has been shut down.
3. **Don’t distract your fellow students!** Unless laptops, phones or tablets are being used in class for an approved “Response Device Session” **all electronic devices must be shut off** throughout the class period. See FAQ #36
4. **No Texting – you could be called on at any moment!**
5. Respect your professor and each other. **Refrain from side conversations** during lectures, presentations, videos, etc.
6. Coming & going is distracting and disruptive to your classmates and the professor! **If you get up and leave the classroom in the middle of class, please don’t return!**

“ICE BREAKER” GROUP ACTIVITY

On your white board do the following as a GROUP:

1) Roughly sketch in the **outline world map showing all 7 continents**, add the **Equator, other latitudes**

2) Then sketch in as best you can – use symbols to label:

-- The major mountain ranges 


-- The major desert areas 

-- The major areas of boreal forests 

-- The major areas of tropical rainforest 

--The major areas of tundra 

--The major warm and cold ocean currents

 WARM OCEAN CURRENTS

 COLD OCEAN CURRENTS

3) Show on the map **where each of you was BORN** AND the **most EXOTIC PLACE** each of you have traveled

**Will the person at each table
who traveled the farthest
please stand up?**

**You are today's
WHITEBOARD MONITOR!**

Tasks:

- ERASE BOARD(S)**
- RETURN MARKERS**
- HANG UP BOARD(S)**

**A FEW COMMENTS
ON SCIENCE
&
GLOBAL CHANGE**

SHARE YOUR FAVORITE QUOTE
FROM THE LIST



PAIR UP • SHARE

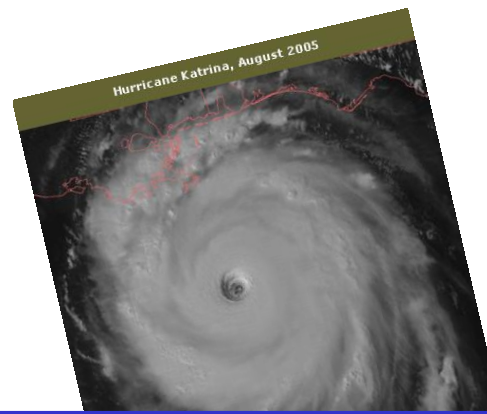
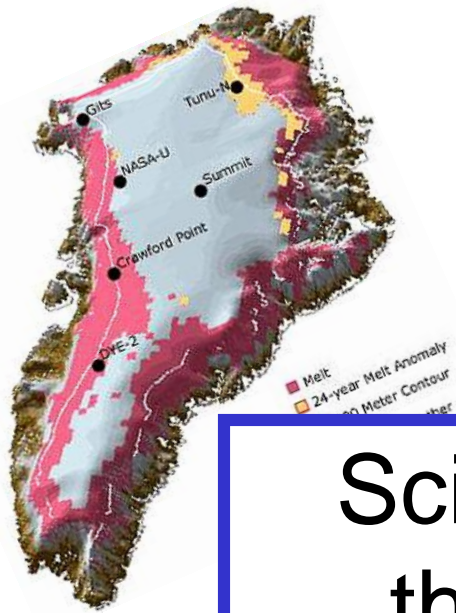
How do SCIENTISTS talk about science? . . .



www.symphonyofscience.com/videos.html

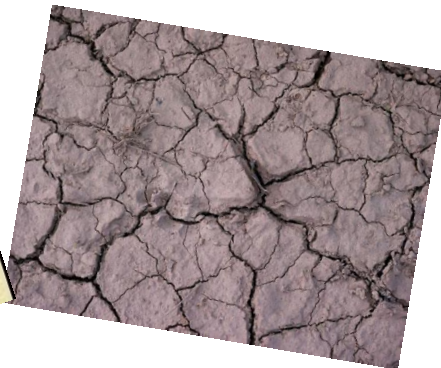
When you get you CLASS NOTES next week, read through more interesting QUOTES by scientists under TOPIC #1

We'll start each class the semester with a quote that fits the day's topic.



Science is demonstrating
that this planet is more
vulnerable than had
previously been thought.

~ Richard Benedick



RECAP: ASSIGNMENTS FOR WEDNESDAY:

- 1. On the CLASS D2L SITE, read & study [Syllabus PART I](#) and [Syllabus PART II](#) (the [online FAQ](#), i.e. “Frequently Asked Questions”)**
- 2. POP QUIZ in class coming up about this!**
(To test yourself, take the Practice Self Test)
- 3. Purchase & REGISTER YOUR E-TEXTBOOK PKG & begin reading CHAPTER 1.**
- 4. Purchase & REGISTER YOUR RESPONSE DEVICE**

Please complete your
Background Forms
AND LEAVE THEM IN THE FOLDER . . .

**SEE YOU ON
WEDNESDAY!**

