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Developed by: Erin S. Lane and Sara E. Harris Format: Observation protocol Duration: N/A minutes Focus: Interactive teaching Level: Graduate, Upper-level, Intermediate, Intro college, High school, Middle school

How to give the test

- Prior to conducting a classroom observation, obtain a printed copy of the instructor's notes or lesson plan.
- At the beginning of the class, the fills out a coversheet that contains general information and notes about the class.
- For a large lecture room, randomly choose a spot in the classroom where you are sitting in the row directly behind the students being observed and at an angle so that the students were still within your sight line. For alternative classroom settings, the number of students or observers' position may have to be adjusted so that all students in the observation group can be adequately see.
- Using the engaged and disengaged behaviors shown under Example Questions, cycle through each of the 10 students in sequence and for each student recorded "E" for engaged, "D" for disengaged, and "U" for uncertain. Uncertain is most often used when the view of the students is obstructed.
- It takes approximately 3 to 10 seconds to gauge the level of engagement of each student, with a 10-student cycle taking approximately one minute to complete. Don't record the specific behavior of each individual; rather, for each 10-student cycle record one observation point (e.g., "8/10 students engaged") with a time stamped at the start of the cycle.
- Once the class starts, record observation points directly onto the copy of the instructor's notes in the section corresponding to what is being covered. This ensures that the instructor will later be able to relate engagement with what was happening in their class at any specific time. An observation point is taken for every page of notes, for any major change in activity or content, or at 2-minute intervals depending on which time interval is shorter. Changes in the classroom activity (e.g., clicker question, in-class discussion, demonstration) or instructor behaviors (e.g., moving around the classroom, using humor or real-world examples) are recorded under each observation point.
- Instructor questions to the class and student questions to the instructor should also be documented with the following information: the section of the room in which the question/answer originated and how the interaction is followed up (e.g., entire class, subgroup of students, one student).

How to score the test

- Calculate the average student engagement score for the class including the standard error. You can also calculate the average student engagement score for specific instructional activities.
- Plot the student engagement score over time to get a sense of which classroom activities are more or less engaging.

Student Engaged and Disengaged Behaviors

During your classroom observation, use these engaged and disengaged behaviors and cycle through each of the 10 students you are observing in sequence and for each student recorded "E" for engaged, "D" for disengaged, and "U" for uncertain on the instructor notes or lesson plan provided to you by the instructor. Uncertain is most often used when the view of the students is obstructed

TABLE 1

Descriptions of student in-class behaviors that indicate they are engaged.

Engaged	
Listening	Student is listening to lecture. Eye contact is focused on the instructor or activity and the student makes appropriate facial expressions, gestures, and posture shifts (i.e., smiling, nodding in agreement, leaning forward).
Writing	Student is taking notes on in-class material, the timing of which relates to the instructor's presentation or statements.
Reading	Student is reading material related to class. Eye contact is focused on and following the material presented in lecture or preprinted notes. When a question is posed in class, the student flips through their notes or textbook.
Engaged computer use	Student is following along with lecture on computer or taking class notes in a word processor or on the presentation. Screen content matches lecture content.
Engaged student interaction	Student discussion relates to class material. Student verbal and nonverbal behavior indicates he or she is listening or explaining lecture content. Student is using hand gestures or pointing at notes or screen.
Engaged interaction with instructor	Student is asking or answering a question or participating in an in-class discussion.

TABLE 2

Descriptions of student in-class behaviors that indicate they are disengaged.

Disengaged	
Settling in/ packing up	Student is unpacking, downloading class material, organizing notes, finding a seat, or packing up and leaving classroom.
Unresponsive	Student is not responsive to lecture. Eyes are closed or not focused on instructor or lecture mate- rial. Student is slouched or sleeping, and student's facial expressions are unresponsive to instruc- tor's cues.
Off-task	Student is working on homework or studying for another course, playing with phone, listening to music, or reading non-class-related material.
Disengaged computer use	Student is surfing web, playing game, chatting online, checking e-mail.
Disengaged student interaction	Student discussion does not relate to class material.
Distracted by another student	Student is observing other student(s) and is distracted by an off-task conversation or by another student's computer or phone.

BERI Observation Protocol Coversheet

Date of Observation:		
Course Name, Number and Section:		
Instructor(s):		
Observer's Name:		
Classroom Number:		
Estimate of class attendance:		

Position in Class: (drawing a diagram of the class may be useful)

Notes on classroom environment: (i.e. description of space and seating arrangement, abnormal temperature, use of technology).

Brief description of instructional method: (i.e. traditional lecture mixed with clicker questions).

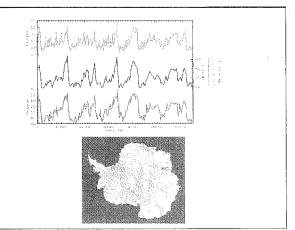
Notes about group of students being observed: (i.e. 5/10 are using a computer).

Example classroom observation. Numbers indicate the number of students engaged (E), disengaged (D), and uncertain (U). Observations taken at approximately one minute intervals on instructors notes/lesson plan.

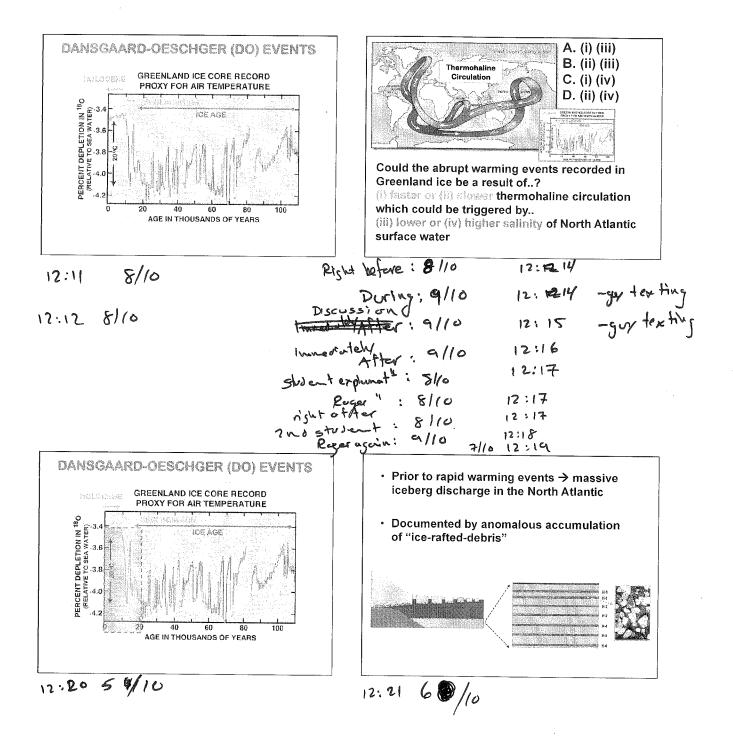
GOALS FOR TODAY. GOALS FOR TODAY. TWO TOPICS.. Abrupt climate changes - EXPLAIN how we came to realize that climate can change abruptly - DESCRIBE the occurrence of abrupt climate changes during the last climatic cycle and their possible causes Climate changes during the last millennium - DESCRIBE the various archives used to reconstruct climatic changes during the last millennium - EXPLAIN the various factors that have influenced global climate during that historical period

4/10 estart (12:03pm)

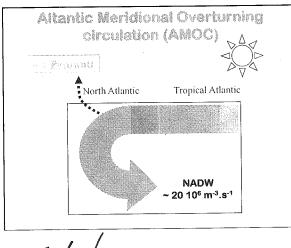
12:08pm



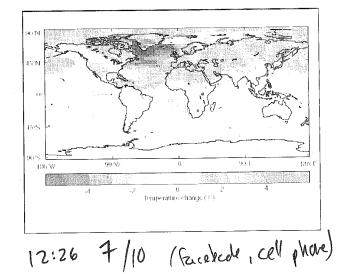
Ice accumulation rates are much faster on Greenland then Antarctica Greenland Antarctica. Consequently, Greenland ice 0 ky 0 m 0 m 0 ky cores provide: - a (i) longer or (ii) shorter record - with a (B) higher or an Oswar resolution A. (i) (iii) B. (ii) (iii) 3000 m 3000 m C. (i) (iv) D. (ii) (iv) 5/10 12:04 betwe dider 7/10 12:045 C dider 10/10 during dider finner 8/10 e results (1st fine) 7/10 during 2nd dicher 10/10 e results (2nd fine) 8/10 eresults (2nd fine) 8/10 explanation 12:09 12:10 - 6/10 8/10

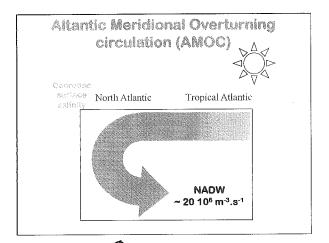


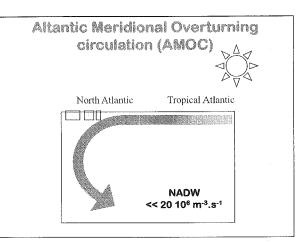
DANSGAARD-OESCHGER (DO) EVENTS GREENLAND ICE CORE RECORD PROXY FOR AIR TEMPERATURE 363.06236 \rightarrow layers of "ice rafted debris" in North Atlantic sediments prior to the two abrupt warming events of the deglaciation (H1 and H0) 100 20 40 60 80 → icebergs were melting in AGE IN THOUSANDS OF YEARS the North Atlantic at that time -textily (x2) 12:24 7/10 12:22 6/10 6/10 12:23



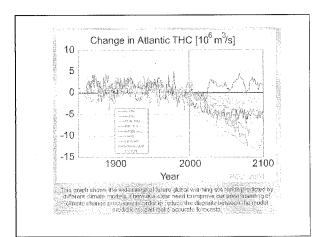
12:25 6/10



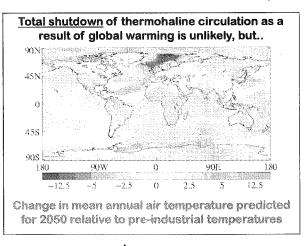




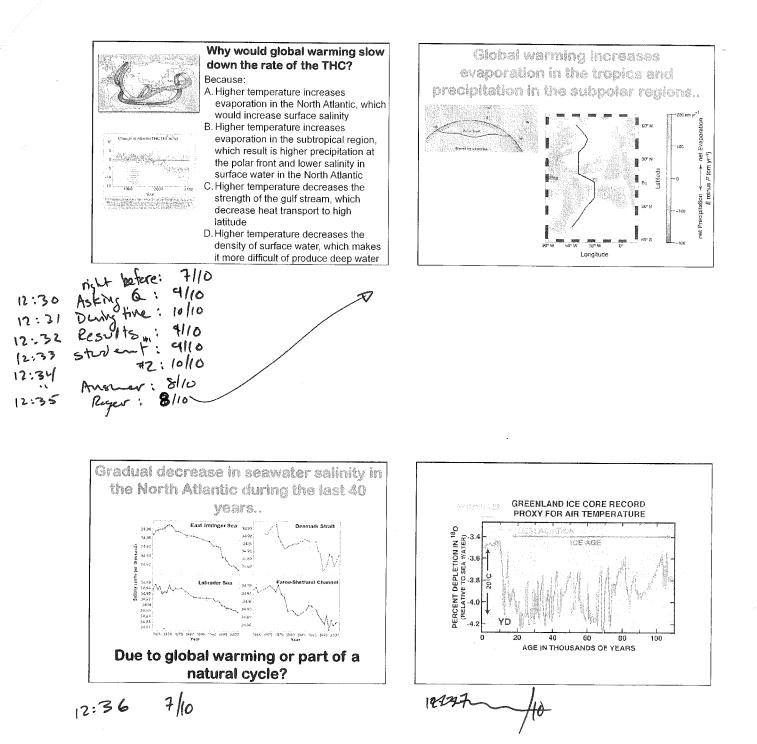
12:27 78/10

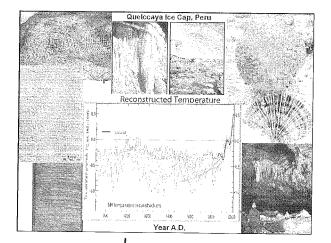


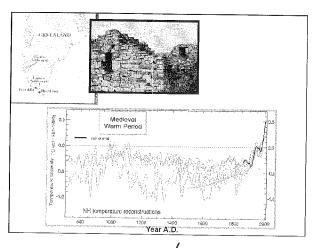
12:28 7110



12:29 7/10

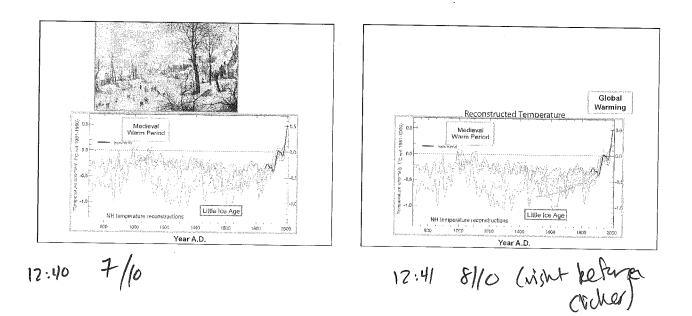


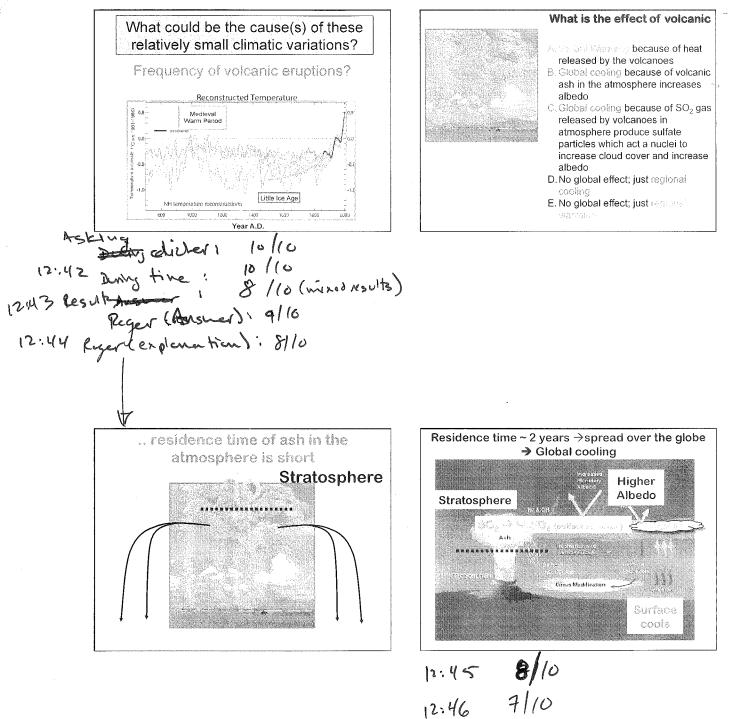


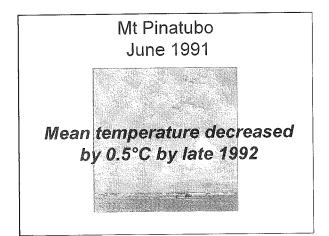


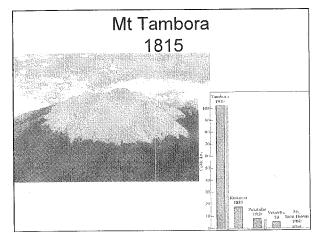
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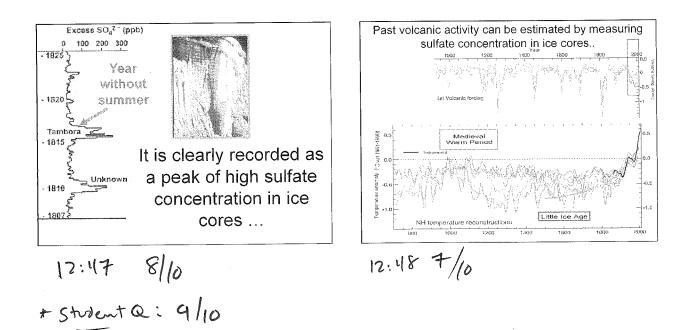
12:37 7 8/10

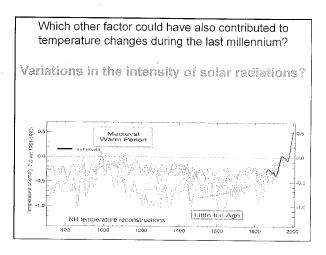


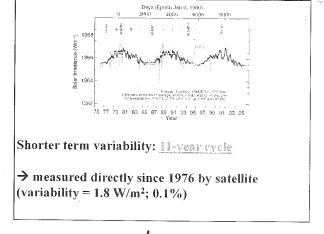




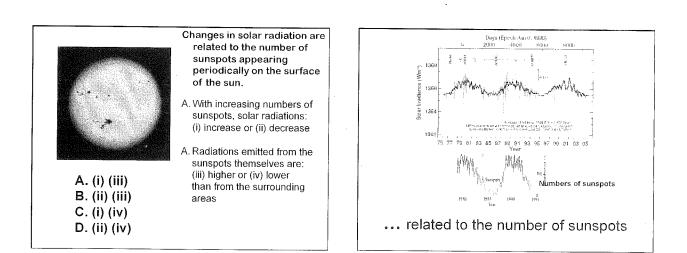


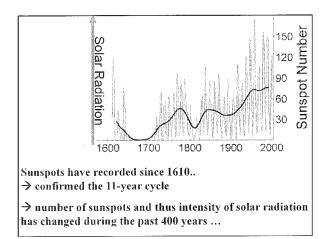


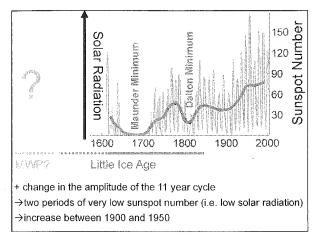


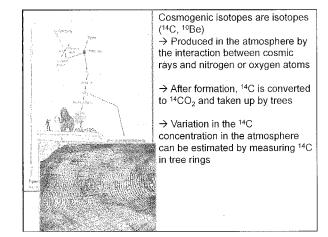


12:49 7/10 12:50 7/10









¹⁰Be is produced by a similar process and removed from the atmosphere by precipitation

→ Past changes in its rate of production can be deduced by measuring ¹⁰Be in ice cores

