

DataStreme ECS

ANNOUNCEMENTS and ANSWER KEY

Week Eleven: 14 – 18 November 2016



ANNOUNCEMENTS

18 November 2016

1. **LIT Leaders:** You should have (finally) received an email from us with procedures for your participants to electronically complete the end of course survey and evaluation through the online address given for the questionnaire. If you do not have this email, contact us immediately. In most cases we anticipate that LIT leaders will provide the information about this survey process to participants at your last group meeting.

The participant evaluation address is: <http://www.ametsoc.org/amsedu/survey/DSC-F16.html>. The evaluation will be active from Tuesday, 29 November to Sunday, 11 December. Also be sure to have them notify you when they have submitted it as that is a course requirement.

We would also appreciate all LIT leaders and LIT members taking a few moments to complete the DataStreme ECS evaluation that is listed under: "[LIT Member Evaluation](#)", or at the top of this page, or on this week's Answer Key webpage. Please take a few moments to do this after 29 November, but definitely by 11 December.

2. The Fall 2016 DataStreme Earth's Climate System term is almost complete. **All of you LIT members** are the principal reason for the success of the DataStreme ECS course due to the time and effort devoted to assisting participants, both with learning the ocean content, and guiding them to become Climate Education Resource Teachers. They may use the *Climate Science for Today's World* booklets to help with this. These are to be used by DataStreme ECS alumni when they present workshops for fellow teachers as part of their DataStreme ECS Resource Teacher activity. Please distribute the sheets indicating how they may obtain the booklets to each of your participating teachers. At your final course meeting, as you reflect on the semester, you should help the participants focus on their goal ahead. Please stress

that we encourage their continuing use of the DataStreme ECS website, in their classes and with their colleagues.

3. DataStreme ECS Participant “Grading” Recommendations

LIT leaders should submit by email or fax to DataStreme Central as soon as the course is completed, but *no later than 16 December*, a list with each participant’s name followed by one of three possible recommendations for grading (FULL, INCOMPLETE, or FAIL). The course instructor, Dr. Bob Weinbeck will acknowledge receipt of the listing via email. If recommendations are not received by 11/21/16, INCOMPLETE will have to be submitted for all your participants. (LIT leaders must also submit a statement on participants' completion of the online evaluation survey by 12/16 and forward electronic copies of participants' *Lesson Plans*.)

Note: Even if you have participants who could not be given SUNY credit, provide a “grade recommendation” to (1) note their completion and (2) be listed for a later grade if enrollment becomes possible.

LIT leaders are to arrive at the recommendations by conferring with LIT members.

- *FULL* means your participants have attended the meetings, completed activities and interacted with their mentors on a timely basis, have classroom examples and/or student artifacts based on DataStreme Atmosphere materials in their portfolios, and submitted the Plan of Action and final participant evaluation.
- *Remember INCOMPLETE* should be designated only if they have not been able to complete a significant number of assignments, fallen behind and not kept regular contact with their mentors, BUT wish to complete the materials and become resource teachers, and they will continue to work with the LIT during the next semester. This case should be mutually agreed to by you and your mentee.
- Caution: SUNY Brockport stipulation on the "incomplete" grade: *incomplete* will automatically become a *fail* after the next semester. If a participant is not serious about finishing during the very next semester, and able to do the work within the next term - it is better to fail them immediately to avoid confusing notices from SUNY Brockport. They may re-enroll later to repeat.
- *FAIL* indicates they have “disappeared”, not kept contact, missed activities and meetings without explanation, or expressed no wish to meet Project goals. They will receive a failing grade.

If you have uncertainties as to which category an individual participant deserves, or any other questions, contact Bob Weinbeck at DataStreme Central, 1-800-824-0405.

4. Other administrative items:
 - Each LIT leader must forward the recommendations for grading (via email or fax) by Friday, 16 December.
 - LIT leaders must submit a statement on participants' completion of the online evaluation survey.
 - Send electronic copies of participants' Lesson Plans. The email address for these Plans is: *weinbeck@ametsoc.org*, Subject: Lesson Plans. See instruction in the Week 10 Answer Key.
5. We sincerely extend our appreciation to you, our colleagues in this magnificent effort, for your efforts in being a part of DataStreme ECS, among the most successful national teacher enhancement courses ever (in our humble opinion). Together, we have trained about 1,622 teachers via DataStreme ECS who are having a significant, long-term impact on earth science education! *You are making a difference!*
6. **DataStreme ECS Course Schedule - Spring 2017**

We will be communicating with LIT leaders after the course completion with plans for spring. The schedule is found from <https://www.ametsoc.org/ams/index.cfm/education-careers/education-program/k-12-teachers/datastreme-program/course-schedule/>. Learning files for the Spring 2017 term will begin 23 January.

ANSWER KEY

A. CHAPTER PROGRESS QUESTIONS:

1. vulnerability
2. physical
3. 2014
4. Gulf and southern Atlantic
5. 6 m
6. surface meltwater draining to the base
7. local water supplies from runoff
8. reduction of the low diversity of species
9. all of these
10. 90 percent
11. present
12. would
13. infectious diseases
14. all of these factors
15. all of these issues
16. [as appropriate by participant]
17. [as appropriate by participant]

Please check for responses to Questions 16 and 17. Mentors should also focus on the answers submitted to these items for dialogue. Please follow up if a participant fails to respond to either item.

B. CONCEPT OF THE WEEK:

1. 700
2. are

C. INVESTIGATIONS RESPONSES

INVESTIGATION 11A:

1. 28.4 (see [Answer Key Image 1](#))
2. is
3. is highly unlikely
4. the same as
5. 33.0
6. the same
7. essentially all
8. 20% [*Curve B mean is 2.8 deg above threshold, times 7% per deg. = 19.6%*]
9. is
10. 31.2
11. increased
12. lower than
13. reduced
14. greater than
15. increase
16. both of these
17. 30
18. with
19. drop by 10%

INVESTIGATION 11B:

1. below
2. the Great Lakes and Washington State
3. wetter with near normal temperatures
4. warmer and drier
5. equally likely above and below normal temperature and precipitation
6. cool and wet
7. more than
8. upper Midwest

CURRENT CLIMATE STUDIES 11

1. drought
2. 70
3. 1.2
4. southern Virginia and north-central North Carolina
5. New Orleans
6. extreme weather events
7. reduced downpours
8. 650
9. later spring peak stream flows
10. 6
11. more
12. Yakima
13. U.S. Drought Portal
14. two years

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