

# DataStreme ECS

## ANNOUNCEMENTS and ANSWER KEY

Preview Week: 22 – 26 August 2016

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### Welcome to DataStreme Earth's Climate System!

#### ANNOUNCEMENTS

26 August 2016

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**The Beginning Surveys are now open; please let your participants know. They will remain open until 9 September.**

1. As a frame of reference, we are trying to use as much of the AMS Climate Studies (college-level) terminology as we can to avoid multiple files or copies of files. Thus, LIT members and teachers were given access to textbook and Investigations Manual versions that were named for the college level. All of our course homepages are now officially “Portals”, i.e. *RealTime Climate Portal*.

A few words on Answer Forms: You should have noticed that the Chapter Progress Response Forms are still in PDF format. They have not changed because we did not have time to redo them. However, the answer forms for the Investigation Manual and Current Studies are now in HTML Forms format. This corresponds to the change we had to make in text and manual materials becoming web books. If trying to create text versions of these forms, Internet Explorer and Firefox allow you to save these forms as TXT formats. There may still be minor formatting needed such as numbering. Chrome doesn't allow that text saving, but the page can be highlighted, right-clicked to copy, and then pasted into Notepad. (Same old, brave new world!)

2. Preview Week of *DataStreme Earth's Climate System, Fall 2016* is now complete! We encourage you to email us with any comments you have or are made by your participants.

Mentors: create that habit of communicating with your participants early.

- Be sure they understand the password system.
- Have successfully downloaded the textbook, Investigations Manual and Study Guide.
- Cover any other issues where they have problems.
- Respond to their inquiries promptly.
- Work them through the e-file/paper flow for the course.
- Establish the communications link and be sure they are keeping on track and time!

3. Next week's "Week 1" investigations will repeat the investigations and Current Climate Studies of this Preview Week. Next week's *Weekly Climate News* will contain the same *Concept of the Week*, however the *Climate News* items and *Historical Events* will be new. Although answers appearing on the Answer Key will not change from Preview Week to Week 1; nonetheless please check these Answer Key Announcements next week (and every week) for additional course information. **These Announcements are our main communications link with LIT members.**
4. **LIT Leaders:** Please mail the completed, original SUNY Brockport course Registration Forms to DataStreme Central as soon as possible. Please make and retain a copy of the SUNY form for yourself in case mailed forms become lost. When you have received notice that all of your forms have arrived at DataStreme Central, you should **destroy** your copies (so no secure personal information remains)

At this time, the states from which SUNY Brockport still **cannot** enroll residents are Alaska, Massachusetts, Maryland, Minnesota, and Wyoming. This acceptance process seems to be at a standstill. We will keep you informed of any changes. If you have participants from those states, please ask them to complete Registration Forms for our information (we will hold them pending resolution and then submit when possible).

5. We would love to have photographs of your meetings or activities of your group - **action pics bring zing to your thing!** If so, please also provide a Photo Permission Form for any (recognizable) individuals.

### ***Announcement***

As most of you have heard, Jim Brey has stepped down as director of the AMS Education Program. He will continue to be Senior Science Consultant working on special projects. As of September 12<sup>th</sup>, Wendy Abshire will be the AMS Director of the Education Program. For more background on Wendy, see <https://staff.ucar.edu/users/abshire>.

***Here's looking forward to changing our educational climate in Fall 2016!***

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## **ANSWER KEY**

### **A. CHAPTER PROGRESS QUESTIONS:**

1. system
2. A system
3. both of these processes with
4. adaptation
5. change
6. present

7. sea ice area and snow cover
8. 90%
9. physical processes
10. all of these
11. open
12. 6.5 °C per km
13. stratosphere
14. small
15. freshwater
16. [as appropriate by participant]
17. [as appropriate by participant]

Questions 16 and 17 should be used by participants to consider how they can use the course in ways relevant for their school situations. Mentors should use the participant's answers to initiate dialogue and have teachers consider innovative ways to use the information, both in their own classrooms and with their colleagues. If answers here are missing or vague, you need to discuss this. Remember, our long-term goal is to help participants become climate education resource persons for their schools, districts, and communities.

## **B. CONCEPT OF THE WEEK:**

1. 1880 (*to the most recent*)
2. Explore climate threats

## **C. INVESTIGATIONS RESPONSES**

### *INVESTIGATION 1A:*

1. noon
2. less
3. received in pulses of varying intensities, alternating between periods of sunlight and no sunlight
4. atmosphere
5. water surfaces
6. during both night and day
7. land
8. mid-day
9. empirical
10. dynamic
11. empirically
12. empirical
13. dynamic
14. dynamic
15. orderly
16. dynamic

17. major
18. coupled human/natural
19. both of these

*INVESTIGATION 1B:*

1. red
2. stays at the planet's surface
3. moves up to the atmosphere
4. was lost to space
5. 6
6. different
7. has
8. increase
9. 5.3
10. 2
11. equal to
12. about half
13. land surface

*CURRENT CLIMATE STUDIES 1*

1. both matter and energy
2. higher
3. open
4. both matter and energy
5. has not
6. differences between the incoming radiant energy and the outgoing radiant energy

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