

# DataStreme ECS

## ANNOUNCEMENTS and ANSWER KEY

Week Twelve: 28 November – 2 December 2016

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*Happy Holidays!*



### ANNOUNCEMENTS

2 December 2016

1. Congratulations, we passed another tipping point! Week Twelve of the DataStreme ECS course has been archived. We at DataStreme Central are grateful to you for making the Climate course one that gave participants a global change. This is our **15th** time for the course (I think we have educational change)! Sincere and well-deserved **thank you's** are extended to all LIT leaders, LIT members, and all DataStreme Central staff. Hopefully you have found this incredible journey to be as rewarding as we have.
2. LIT leaders are reminded that grade recommendations are due to DataStreme Central by **16 December 2016** (see previous Week 11 Answer Key for details) along with verification of the participants' completing evaluation surveys. **Without notification from LIT leaders of completion of the participants' evaluation surveys, the participant will receive an incomplete grade for the course.** Also, the survey responses are important for the sponsoring agencies' report from us.
  - If possible, LIT leaders should send **one** email with attached electronic copies of participants' Lesson Plans to DataStreme Central to [weinbeck@ametsoc.org](mailto:weinbeck@ametsoc.org). Please use your LIT name and "Plans" in the subject of the email.
  - We would also appreciate hearing of any impacts on schools or curricula that were based on the DataStreme ECS course beyond their Plans of Action. We also could use any evidence that DataStreme participants have had an effect on their state and/or district frameworks/standards.
3. We suggest potential participants and general inquiries about DataStreme ECS be directed to the [AMS Education website](#) and its *DataStreme ECS* link as that contains application and contact information about the Project and course.
4. For this coming Spring 2017 term, DataStreme ECS learning files will begin transmission again with Preview Week, 23 January. Until Preview Week, the

DataStreme ECS website will contain the Weekly Ocean News file. *DataStreme Earth's Climate System Course Schedule for Spring 2017* will be linked from the AMS website, Education & Careers, K – 12 Teachers, DataStreme Program (see link above).

5. If you have not already done so, LIT members are requested to complete and submit the [LIT Member Evaluation](#) to DataStreme Central. From all of us (Wendy, Ira, Bob, Ed, Beth, Bernard, Diem, Maude, Katie, Abby, and Kira,), we wish you the very best for your winter holiday break.

If you have photos from your meetings or activities, please remember that they **must** be accompanied by a signed release form. This is available from the Answer Key forms page link, [Photograph Use Permission Form](#).

## ANSWER KEY

### A. CHAPTER PROGRESS QUESTIONS:

1. demand for energy
2. geoengineering
3. organic plant and animal material
4. coal
5. increase
6. all of these
7. SO<sub>2</sub>
8. mitigation
9. cost
10. increase vehicle mileage
11. buried
12. geoengineering
13. brighter
14. upper layers of ocean water
15. do not
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. decreases
2. did not

### C. INVESTIGATIONS RESPONSES

*INVESTIGATION 12A:*

1. decreasing
2. increasing
3. adaptation
4. electrical and transportation
5. 16
6. 1
7. remain the same
8. all of these

*INVESTIGATION 12B:*

1. 0.6
2. 1.0
3. 4.2
4. 3
5. nitrogen oxides (NO<sub>x</sub>)

*CURRENT CLIMATE STUDIES 12*

1. mitigation
2. adaptation
3. both of these
4. local and regional
5. all of these
6. have been
7. 7800
8. OSHA
9. reduction of greenhouse gas emissions
10. the removal of a greenhouse gas from the atmosphere
11. would not
12. very deep
13. only after decades or more
14. local
15. only through a combination of mitigation and adaptation
16. both mitigation and adaptation
17. adaptation
18. mitigation
19. mitigation

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