

# DataStreme ECS

## ANNOUNCEMENTS and ANSWER KEY

Week Six: 3 - 7 October 2016

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### ANNOUNCEMENTS

7 October 2016

*Next week, October 10 to 14, is midterm Break Week for the course. Week 6 files will remain on the page during this week.*

1. **LIT Members:** The DataStreme Earth's Climate System Current Climate Studies for Week 6 contained a link to *Guidelines for the Plan of Action*. Your participants should have downloaded these pages of directions for the Plan (or at least read them). We will also include this in Week 7 materials. This Plan is important in meeting reporting requirements for our funding agencies as well as having participants focus on their activity following course completion to be resource persons for weather in their schools, districts and communities. Please be sure your mentees have these guidelines to use for their submission. [A copy can also be found in the Answer Key forms.]
2. **LIT Leaders:** LIT Verification Forms will be sent to leaders next week (we hope). Please check spelling of participant names for certificates. Also check the box on the forms for those members eligible for honoraria as well. [Unfortunately federal employees may not be paid from federal grant monies.]
3. We would like to see "Reports from the Field" appear in the Weekly Climate News (WCN) file. We would welcome such items that can bring a personal touch to course concepts. LIT leaders and members might remind participants that such newsworthy climate impacts and stories should be emailed to Dr. Ed Hopkins (address at bottom of the WCN file) for possible inclusion in an upcoming "Reports from the Field."

### ANSWER KEY

#### A. CHAPTER PROGRESS QUESTIONS:

1. isobars
2. left
3. eddy
4. atmospheric boundary
5. horizontal pressure gradient, Coriolis Effect, centripetal force (not friction)
6. clockwise
7. rising
8. 5%

9. scatterometers
10. anticyclones
11. heat
12. north-south
13. blocking
14. Arctic Amplification
15. cyclone
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. to the left
2. east

## **C. INVESTIGATIONS RESPONSES**

### *INVESTIGATION 6A:*

1. 32°
2. clockwise
3. east to west
4. rising
5. sinking
6. west to east
7. 5800
8. decreases
9. highest
10. trough
11. ridge
12. 1
13. ridge
14. similar
15. increase

### *INVESTIGATION 6B:*

1. 4
2. low-pressure area
3. southeast
4. cold
5. troughs
6. decreased

7. increased
8. east
9. cold
10. days
11. less than
12. greater than
13. greater than
14. winter
15. lower

*CURRENT CLIMATE STUDIES 6*

1. 6
2. West
3. winter storms
4. Midwest and Northeast
5. 2050
6. 1 to 4 ft.
7. is
8. Alabama
9. Southwest
10. 80
11. flash floods
12. 7
13. 2.5

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