I-3 ANSWER SHEET: Lesson 3 on Observable Changes

**DIRECTIONS:** Complete this answer form by typing in text wherever there is yellow highlighting: ☐️ Your text is not limited by the size of the yellow highlighting; most of your answers should be one or two words or a short phrase. (NOTE: We will *not* be grading you on grammar & punctuation this time!)

When you are finished, SAVE the form as follows: I-3.firstname.lastname.doc (or .docx)

(insert YOUR first & last names of course! Here’s how Stella did it: I-3.stella.student.docx)

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**NAME:**

**GROUP #:**

1. [1 pt] What is the minimum length of time needed to establish a statistically robust climate trend that avoids “cherry picking” when trying to assess whether a warming or cooling trend is taking place?

2. [2 pts] Which of the feedback loops we’ve discussed in class thus far is described in the tutorial?

3. [2 pts] According to Lesson 3, how much has global sea level risen since the mid-1800s to the present?

   (in centimeters) (in inches) (in feet) ➡️ calculate this!

4. [2 pts] What are the two main contributors to this recent rise in sea level?

5. [2 pts] How is ocean heat content measured in the upper ocean and what unit of measure is used for ocean heat content?
6. [3 pts] In a phrase or two, describe the relationship between the Keeling Curve graph and the graph of dissolved carbon dioxide in the ocean? (For example: Do the two graphs vary in the same way or not? Does one show an increasing trend, and the other a decreasing trend? What other similarities or differences are there? etc., etc., etc.)

7. [1 pt] Name one consequence of ocean acidification discussed in Lesson 3:

8. Turn to p 69 in CLASS NOTES and study the diagram titled INDICATORS OF A WARMING WORLD.

(a) [3 pts] List any indicators shown in the diagram on p 69 that are NOT mentioned in Lesson 3’s overview of observable changes that indicate warming:

(b) [3 pts] Now list any observable changes mentioned in Lesson 3 that are NOT shown as Indicators of a Warming World in the diagram on p 69:

9. [2 pts] Type in ONE QUOTE from the Lesson 3 Tutorial that made an impression on you, surprised you, taught you something new, or explained things in a way that you found especially interesting and/or easy to remember.

HINT: To see the text spoken with each slide, click on Notes in the bottom right of the screen:

10. [4 pts] Lastly in one or two sentences, explain what YOU personally think is the most important insight that LESSON 3 reveals about global climate change.