

4 **Writing Assignment 4***Enabled: Statistics Tracking*[Modify](#) [Manage](#) [Copy](#) [Remove](#)

Essay 4 is due April 21; Calibrations and reviews are due April 28; Both by 10:30pm Alaska time

More instructions and materials are inside this folder

Instructions: The essay must be a minimum of two paragraphs, each a minimum of 100 words each and no more than a maximum of 1 page or approximately 570 words total.

Use the content found in the articles and research report (enclosed in this folder), links (shown inside the folder), and pages 678-680 in your chemistry textbook to discuss the importance of Palaeoclimate data to understanding current climate changes. Include in this discussion your answers to the following questions.

Questions:

1. What is the meaning of the term "proxy sources"? (search for the answer in the links above and the listed areas of the research report (articles might be helpful) provided in this folder)
2. Why are multiple "proxy sources" needed for precision in Palaeoclimate dating? (read indicated areas in the research report provided in this folder)
3. Name two possible proxy sources and describe how they might be used together to create a record of Palaeoclimate change.(any one of the provided materials might be helpful for answering this question)
4. What are the limitations of using carbon-14 dating for analyzing and dating the causes of Palaeoclimate events? (your textbook and the research report located in this folder will be helpful to answer this question)
5. What other carbon isotopes can be used instead of C-14; How are they used and why? (read indicated areas of the research report)

5 **Writing Assignment 3 (text due April 9) 10pm Alaska time)***Enabled: Statistics Tracking*[Modify](#) [Manage](#) [Copy](#) [Remove](#)

Go to the Beloit College Global Warming site via the "external links" area of this Blackboard site. Scroll down to the 6th Session entitled, "What Are Your Personal Contributions to Greenhouse Gas Emissions?". Go to the link associated with the "EPA Personal Greenhouse Gas Calculator" (http://www.epa.gov/climatechange/emissions/ind_calculator.html) and do the calculations. Take notes or print out your calculations as a reference for writing this essay.

Your essay is required to incorporate answers to all of the questions shown below. Avoid answers in point form or lists. Write 2-3 paragraphs or approximately 1 page.