Due Date: Before Departing for the Expedition

1. How will you communicate with the team before the field experience?

* I have been in contact with Vanessa as well as the research team at UTEP.
* I have already visited the labs and worked with the research teams for the past month.

1. Are there team or project conference calls or other preparatory activities that the teacher can participate in?
   * I participated in the Science Fair meeting Skype conference call on July 19, 2017 with Kaare Erickson
   * Worked in the field with Aquatic Ecology Team at Rio Bosque Park
2. Are there ways you can collaborate before the expedition to inform the public, media, and other schools about the upcoming expedition? Before Expeditions:

• Since school is not in session-once in school-researchers will be able to visit classes

• Working on getting interviewed-the school Board meeting fell through-because it was postponed.

1. What background scientific information is essential for the field research? What journals, books, or other materials will the teacher use to learn this content?
   * I have already started looking into various journals involving carbon flux, greening, and bathymetry.
2. Are there tools the teacher should learn to use before the expedition?
   * Reviewed calibration for YSI multiprobes, learned how to operate and calibrate carbon chambers, and worked on sample data. Assisted in field collecting techniques and what to expect in the field.
3. What science topics or issues would you like to discuss as a team while in the field?
   * Met with undergraduates and learned what to pack and expect in the field.
4. How will you collaborate to write and review lesson plans after the expedition?
   * Vanessa and I will be in contact via text, emails, or lab visits at UTEP.
5. ARCUS provides some funding to support travel before and/or after the expedition to support collaboration between teacher and research team. What ideas do you have for utilizing this support?
   * UTEP is only about a 25 minute drive from my house-which unless you pay for mileage and parking-is not a problem.
6. How Research Groups will help me educate classes about the science:
   * We are planning for some of the research team visit my class and present or lead a lesson about what we did in Alaska.
   * Most of the students are from El Paso-which will help inspire future scientists.
   * We will also be bringing back samples for interested students to conduct polar science

projects in hopes to be presented at UTEPs poster presentation in the fall.

* + For the AP Environmental class-we will try to centralize the activities to polar themes.

1. Networking from research team
   * I will be working on having short bios of the students so that I can introduce the researchers along with what they are doing in the field to be presented in journal entries.