



Investigation 2.1: Albedo Transect Research (Field Trip Day 1)

Investigation:

Interview with Albedo researchers, Dr. Don Perovich and Dr. Tom Grenfell at one of their research sites out on the pack ice.

Objectives:

Upon completion of this activity, students will:

- Understand Albedo and its relationship to the Arctic environment.
- Understand that a small change in a portion of the environment may effect the entire environment.
- Understand how Albedo research is designed and conducted.

Methods:

This session will be a 1 hour long audio conference from 10:00 am to 11:00 am on the 3rd of April.

Background: (Have available as a transparency, a handout, in student journal or online.)

- Dr. Don Perovich's web site "Arctic Coastal Ice Processes" at www.arcticice.org.
- What is the Arctic?
- What are the characteristics of the Arctic environment?
- Why study the Arctic?
- What are geosciences?
- What is the scientific method?
- What are the skills and processes of scientific inquiry?
- What is Sea Ice?
- So what does sea ice have to do with climate change? (Albedo Research)

Materials:

Speaker phone.

Procedure:

CONFERENCE CALL INSTRUCTIONS:

1. In the U.S. and Canada:
You will need to call 1-800-315-6338 about 5 minutes prior to the starting time. Enter the code for your teleconference: 272842# (spells ARCTIC on the dial pad).
2. When a new person joins the call everyone on line will hear a beep.

Problems?

Call the ARCUS office (1-907/474-1600) and we will provide assistance or call the number again to reconnect.

- Have speaking students ready with their questions. When your school is prompted to ask a question have the student speak clearly into the phone. Remember to use the mute button when not speaking.
- Other student can be taking notes and filling in a field journal entry.

Assessment/Closing Activity:

Have students share notes, impressions or feelings about what they heard during the audioconference. Gauge their level of understanding and answer any other student questions. To close the session, brainstorm questions for tomorrow's audioconference on "Ice Core Research" and email those to Patrick at lovely@mosquitonet.com, so that he can prepare for tomorrow's audio conference.

Arctic Alive
Audio Conference Activity Sheet

Name: _____

Date: _____

Use this sheet to gather notes and information for your journal and other activities.

Location: _____

Patrick is working with _____

Today the main topic being studied is _____

Use the following space to write down facts, new questions or ideas.

Diagrams/Drawings

Rate today's audioconference: 4 (best) 3 2 1 (worst)

Because _____

