



Investigation 2.2 – Ice Core Research (Field Trip Day 2)

Investigation:

Interview with ice core researcher, Dr. Hajo Eicken, at one of his research sites out on the pack ice.

Objectives:

Upon completion of this activity, students will:

- Understand that physical and chemical interactions result in observable changes in the properties of sea ice.
- Understand how ice core research is designed and conducted.
- Understand the arctic environment consists of individuals, populations and communities.

Methods:

This session will be a 1 hour long audio conference from 10:00 am to 11:00 am on the 4th of April.

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

- Dr. Hajo Eicken's home page at www.gi.alaska.edu/~eicken/index.html.
- 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? (Ice Core Research)
- What are some of the technologies that we have available to assist in our studies?

Materials:

Speaker phone.

Procedure:

1) CONFERENCE CALL INSTRUCTIONS:

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).

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.

2) Have speaking students ready with their questions. When your school is prompted to ask a question have student speak clearly into the phone. Remember to use the mute button when not speaking.

3) 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 "Cultural and Wild life" 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 _____

