



TEACHERS AND RESEARCHERS
EXPLORING AND COLLABORATING

Welcome to *PolarConnect*



Arctic Glacial Lakes

With PolarTREC Teacher Rebecca Harris
& Team Researcher Ellie Broadman

24 August, 2017

Getting to Know Adobe Connect

Slides will be shown here

Exit presentation

Mute your speakers

Raise your hand

List of all participants

Follow the chat

Find out more about the presentation

Chat here

The screenshot shows the Adobe Connect interface for a meeting titled "PolarConnect Events - Adobe Connect". The main area displays a slide titled "Welcome to PolarConnect!" with the PolarTREC logo and text: "TEACHERS AND RESEARCHERS EXPLORING AND COLLABORATING", "Welcome to **PolarConnect!**", "Real-time events from teachers and scientists in the field directly to you. Join us for the best webinars from the polar regions!", and contact information: "If you need to join by phone: dial 1-800-766-1337 enter 54366779#". The slide also features three images: a group of people in a classroom, a person in a blue jacket holding a laptop, and a person in a field. The footer of the slide reads: "Events hosted by the Arctic Research Consortium of the United States as part of the PolarTREC Program" and "www.polaratrec.com".

The interface includes a top toolbar with "Meeting", "Camera", "Microphone", and "Help" buttons. Below the toolbar is a "Camera" window showing a greyed-out video feed. To the left is a sidebar with "Attendees (1)" listing "Joyce", "Active Speakers", "Hosts (0)", "Presenters (0)", and "Participants (1)". Below the sidebar is a "Chat (Everyone)" window with the message "ARCUS Staff: Hello!". At the bottom is a "Files 3" window with a table structure:

Name	Size

At the bottom right of the interface is a "Download Files" button.

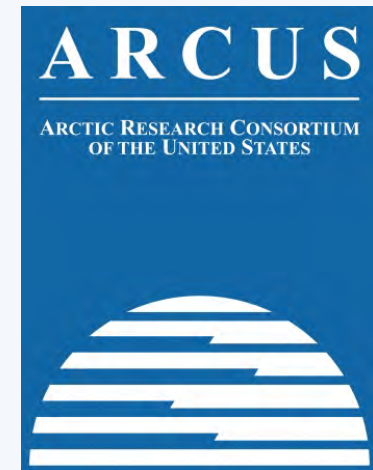
Participant Introductions

**In the Chat box, please introduce yourself
by typing in your:**

- ✓ Name
- ✓ School or Institution
- ✓ The number of students and adults participating with you in the same location

What is PolarTREC?

- Since 2004, the Arctic Research Consortium of the United States (ARCUS), a non-profit organization, has been administering the PolarTREC Program.
- PolarTREC is professional development for K-12 teachers. They are paired with researchers for 2-6 week research experiences in the polar regions.
- Over 150 teachers from around the United States have joined scientists in the Arctic and Antarctica to learn about science, the polar regions, and to share what they have learned with their students and communities.



25 Years of Connecting Arctic Research

www.arcus.org

Questions

During the Presentation:

- Type your question in the text chat box

At the End of the Presentation, two options:

1. Type your question in the text chat box, or
 2. Raise your hand with the “hand button”.
- PolarTREC staff will call on you and activate your microphone.
 - Speak loud and clear, directly into the computer microphone or the phone to ask your question.

Introductions

Ellie Broadman

Earth Science
graduate student
at Northern
Arizona
University



Rebecca Harris

Secondary science
teacher at
Escalante High
School, UT

Research Team

- Darrell Kaufman, Chris Benson, Ellie Broadman, Rebecca Harris



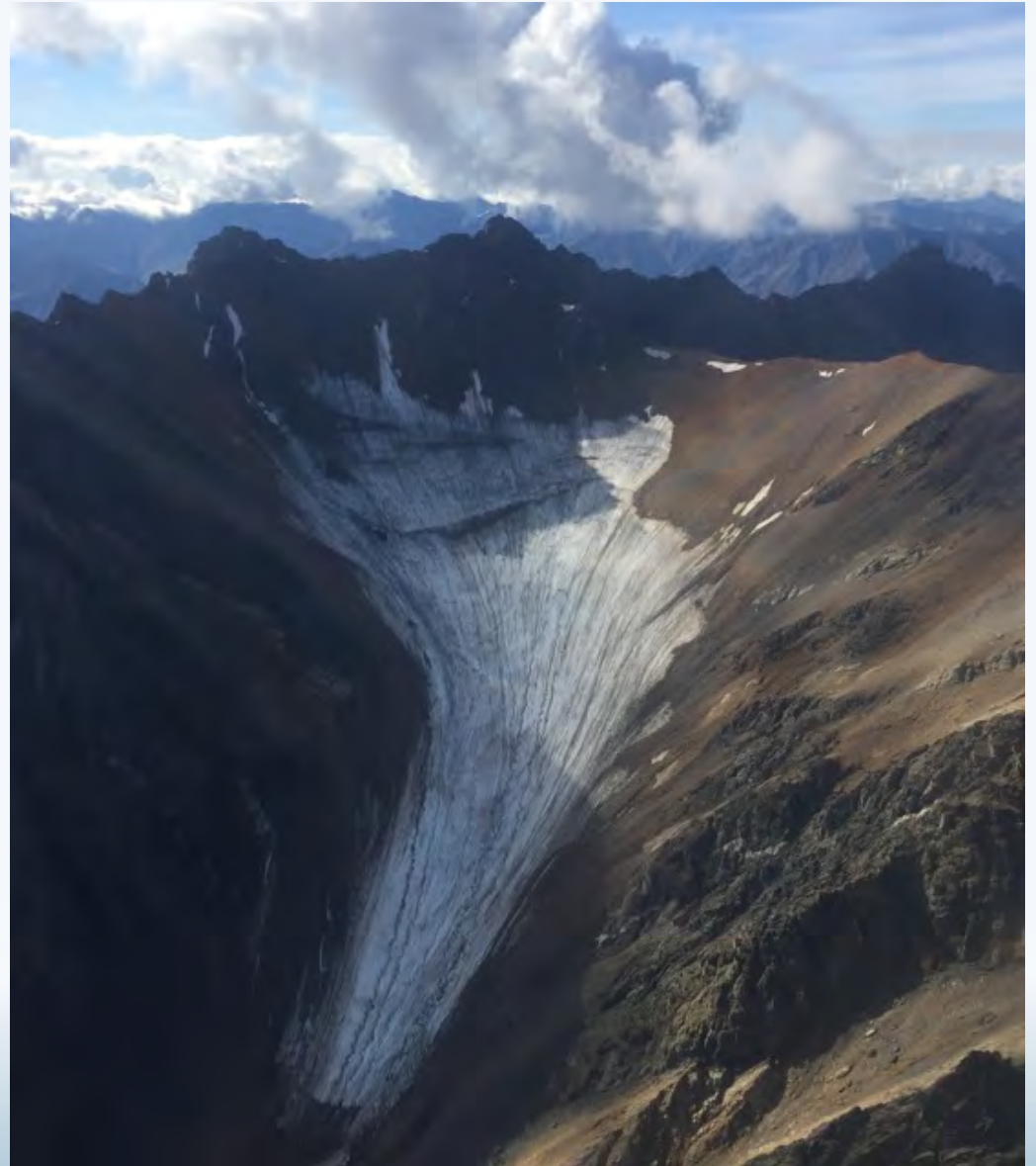
Arctic Glacial Lakes Project



- 3 universities and 8 lead scientists
- 3 different lakes from sub-arctic to high arctic
- Study lakes to understand influence of:
 - Weather
 - Glacier
 - Rivers
 - Sediment
 - How they're related!

Glacial Systems

- Glaciers influence:
 - Water
 - Sediment
 - Landscape & Ecosystems
- Sensitive to changing climate
- Rare but important



Getting There

- Boulder -> SLC ->
Fairbanks -> Coldfoot ->
Lake Peters



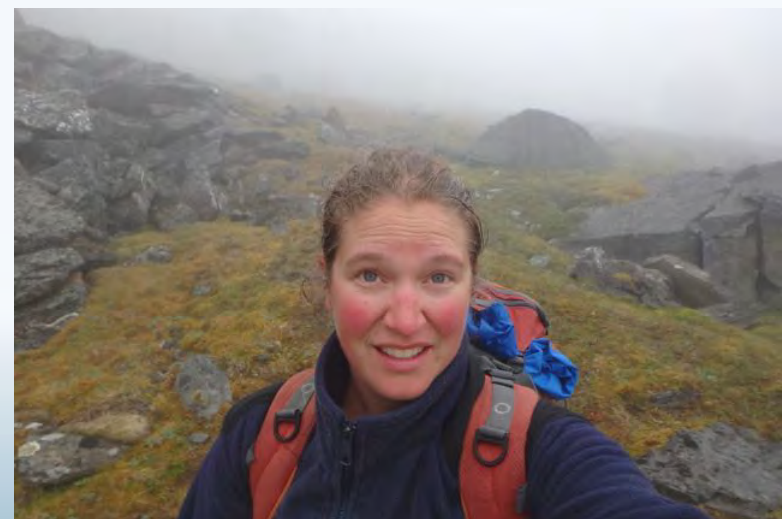
Field Camp

- Bunkhouse and tents



Life in the Field

Buggy, rainy, dirty, exhausting... exciting, fulfilling, fun!





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Getting Around



Field Work

- Data Loggers
- Lake
- Creeks
- Glacier
- Moraines



Loggers: HOBOS and Trolls



Field Work: Lake

- Pulled sediment traps
- Download data:
temperature at different
depths, pressure, turbidity,
conductivity



Field Work: Creeks

- Measure discharge
- Check cameras and download data: temperature, turbidity, conductivity, pressure



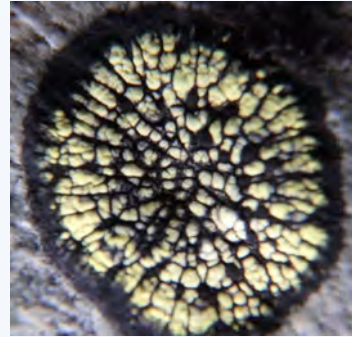
Field work: Glacier

- Download data and cameras
- Break down weather stations and ablation stakes and carry out



Field work: Moraines

- Walk moraine ridges
- Measure lichens



Weather



Tundra

- Soft, wet, squelchy, full of berries and mushrooms



Animals



Outreach in Kaktovik





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Join PolarTREC!

www.polartrec.com/about/join

Everyone can participate in different ways:

- **Follow Expeditions**
- **Participate in PolarConnect Events**
- **Join the Polar Education Email List**
- **Check out the great resources**
- **Become a PolarTREC Teacher or Researcher**
- **Become a member of ARCUS**



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Thank You!

An archive of the event will be available shortly.
<http://www.polartrec.com/polar-connect/archive>



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