

Welcome to PolarConnect

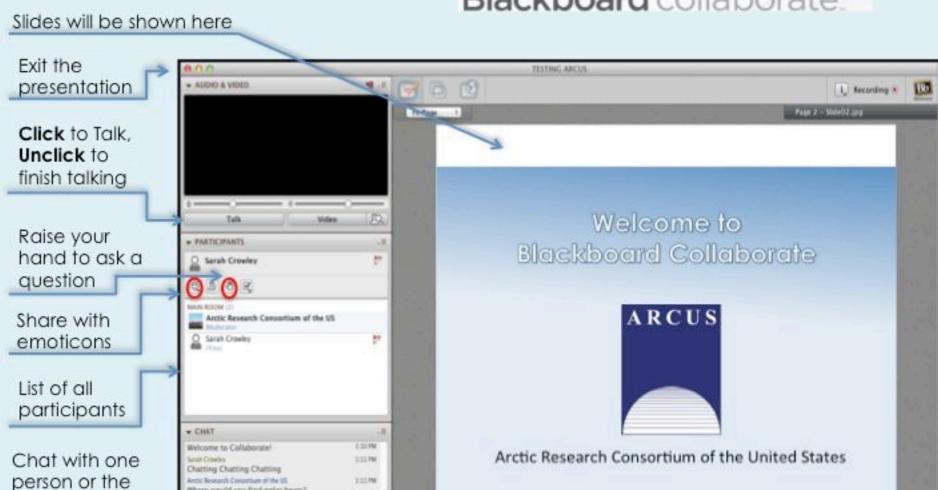
with Regina Brinker and Arctic Sunlight and Microbial Interactions 2014 PolarTREC Expedition

Tuesday, 8 July 2014

10:30 a.m. AKDT

(11:30 am PDT, 12:30 pm MDT, 1:30 pm CDT, 2:30 pm EDT)

Blackboard collaborate*



Please Note:

entire group

Participants using the telephone can mute/unmute by pressing *6 on the phone.

1117W

LIDIM

Today's event will be recorded and archived.

Where would you find polar bears?

Welcome Mrs. Rose's 5th Grade Class!

Where would you find penguins?



Participant Introductions

Please type in the chat box:

- ✓ Name
- ✓ Affiliation (School, Institution, Etc.)
- ✓ The number of students and adults participating with you in the same location



What is PolarTREC?

PolarTREC is a professional development experience in which K-12 teachers are paired with researchers for 3-6 week research experiences in the polar regions.

From 2010-2015, nearly 70 teachers from around the United States will join 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.



Questions

During the Presentation:

Type your question in the text chat box

At the End of the Presentation:

- Raise your hand with the "hand button".
- PolarTREC staff will call on you.
- Speak loud and clear and directly into the phone to ask your question.

Click on the Talk button to speak. Unclick when you are done.



Crossing into the Arctic! Regina Brinker, PolarTREC Teacher



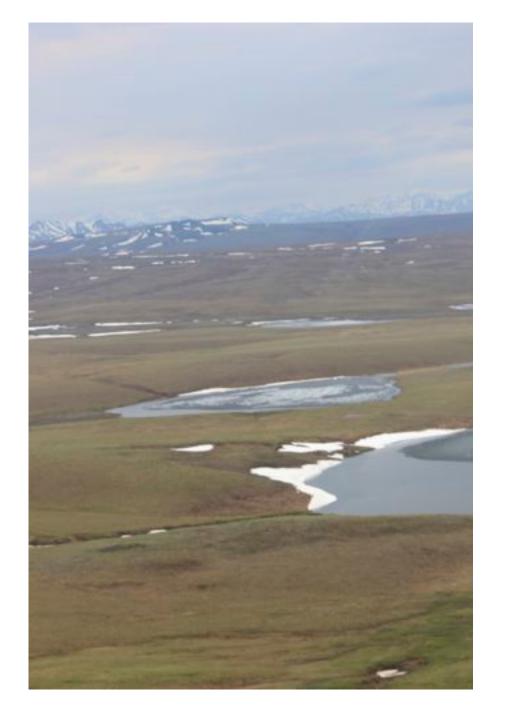


Teachers and researchers working together in polar regions



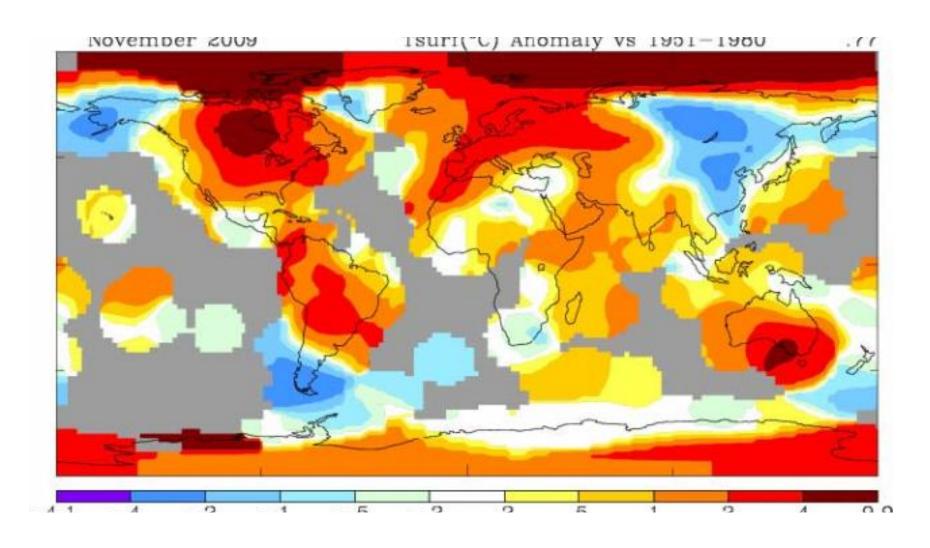
Arctic destination





Why study polar regions?

Polar regions are warming faster



100,000s of acres of permafrost in Arctic regions

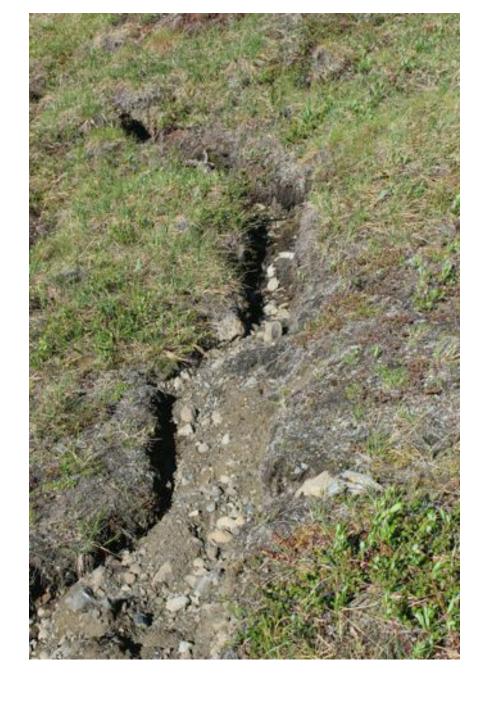


Permafrost = soil frozen for 1+ year



Tundra stores decayed plants, carbon





Soil cracks when permafrost thaws.

Carbon dioxide is released into water and atmosphere.



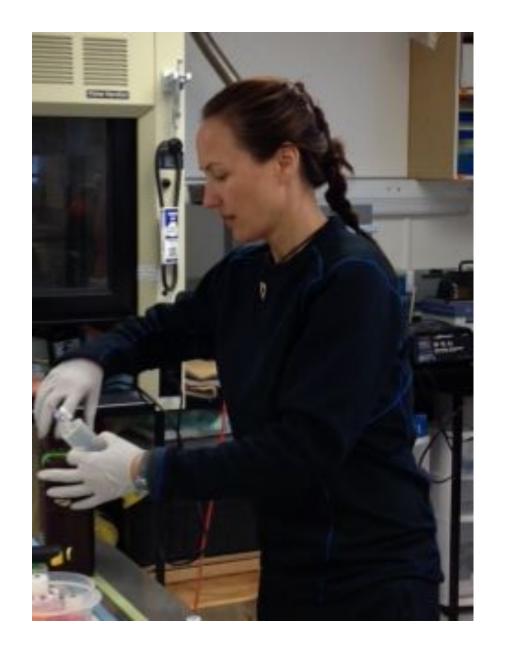
Thermokarst



Researchers collect water samples in watershed



Checking Water pH



Dr. Rose Cory, University of Michigan, studies carbon dioxide released into atmosphere from tundra.





Measuring how much light goes into water through water and ice.

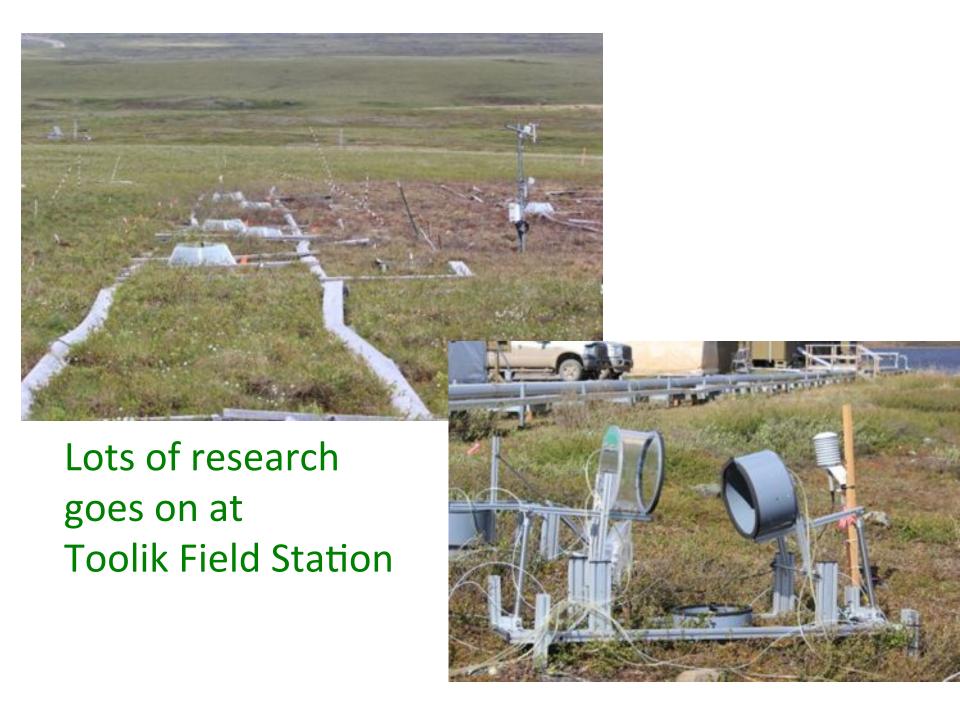


Collecting data in the field



Water samples tested in a lab.







Toolik Field Station



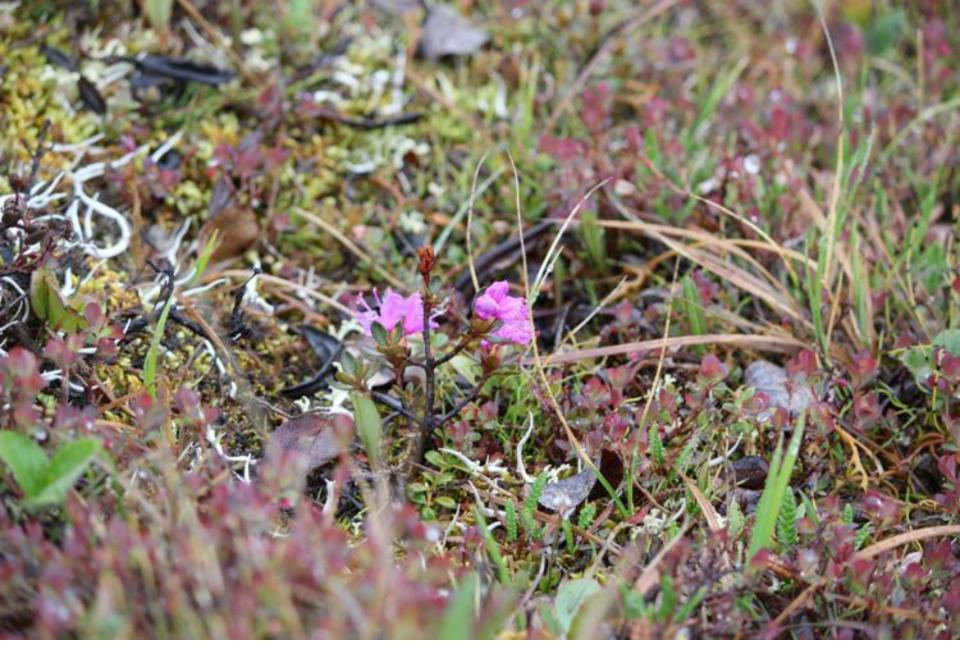




Many layers needed on some days of field work!



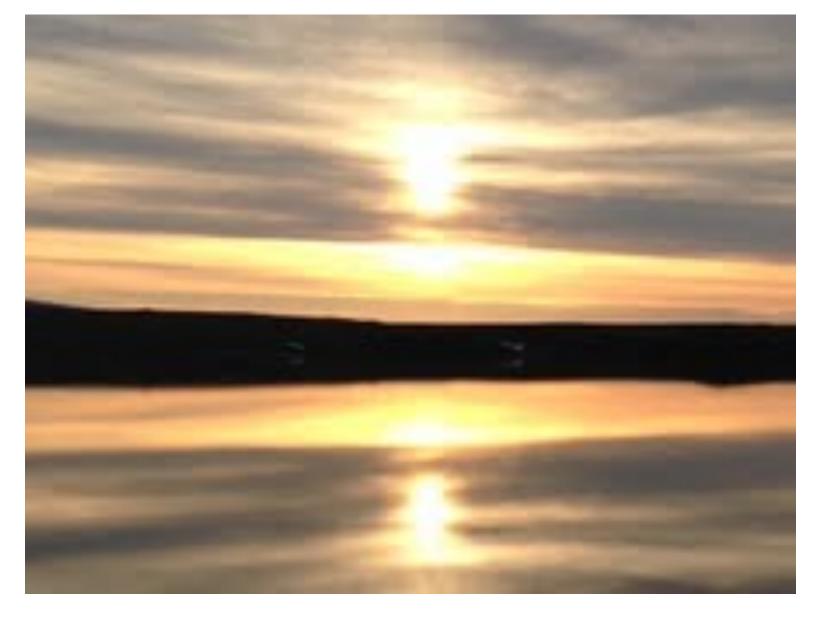
Lots of mosquitos!



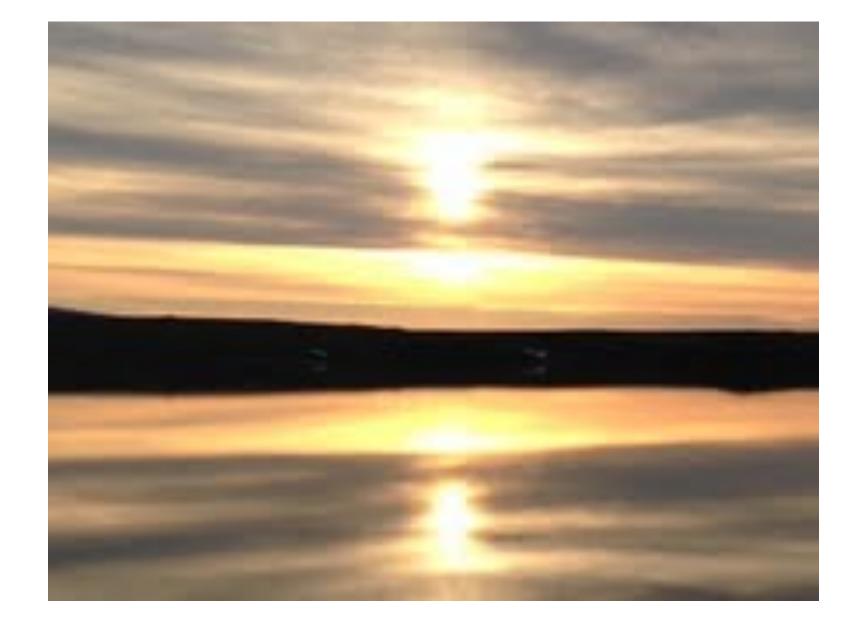
Lapland rosebay plant; rhododendron family



A tussock plant



What time do you think this picture was taken?



11:00 PM (23:00)



Musk ox



Caribou



Fox!



For more expedition photos and stories, read journal postings at PolarTREC.com.

Teachers: Join PolarTREC!

www.polartrec.com/about/join

Every teacher can participate in different ways:

- Following Expeditions
- Participate in PolarConnect Events
- Join the Polar Education Email List
- Become a PolarTREC Teacher!



Upcoming Events

Watch for and register for upcoming events at www.polartrec.com!

Thank You!

An archive of the event will be available shortly.

http://www.polartrec.com/polar-connect/archive

