#### Welcome to PolarConnect

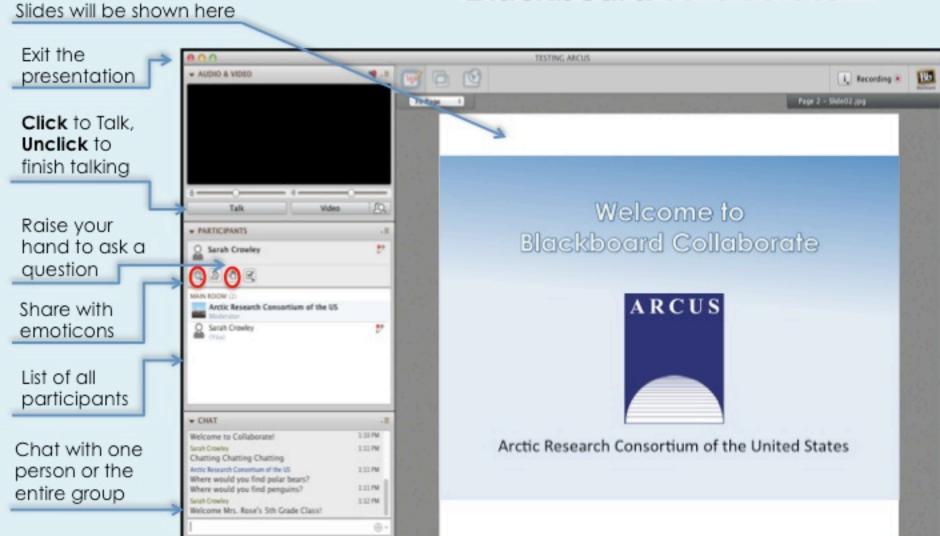
With Melissa Barker and the Nutrient Transport in Arctic Watersheds PolarTREC Expedition

Thursday 17 May 2012

7:45a.m. AKDT

(8:45am PDT, 9:45am MDT, 10:45am CDT, 11:45am EDT)





#### Please Note:

- Participants using the telephone can mute/unmute by pressing \*6 on the phone.
- Today's event will be recorded and archived.



## Participant Introductions

#### When called, please state your:

- ✓ Name
- ✓ School / Institution
- ✓ 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 2-6 week research experiences in the polar regions.

From 2010-2013, nearly 50 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.

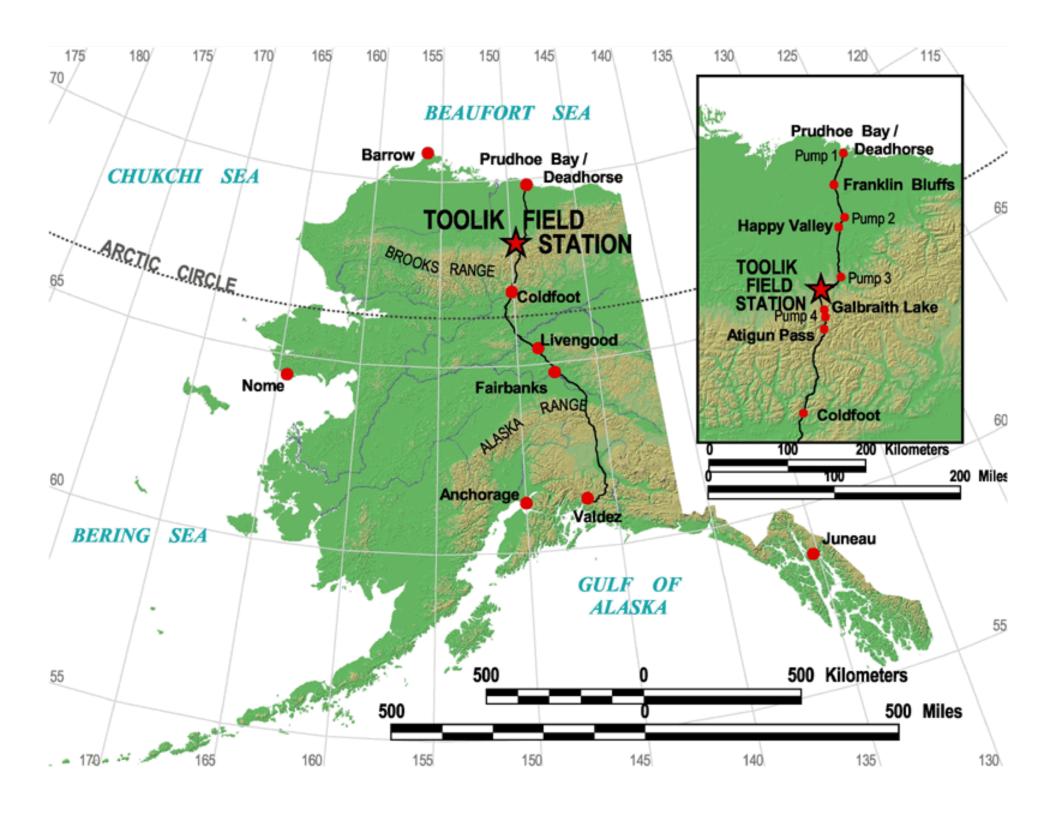
Click on the Talk button to speak.
Unclick when you are done.

## Nutrient Transport in Arctic Watersheds

















### **Toolik Field Station**





## My Room



### **Arctic Living**



#### The Water Tracks Team



Jay Jones University of Alaska- Fairbanks



Tamara Harms
University of AlaskaFairbanks



Sarah Godsey Idaho State University



Mike Gooseff Penn State University

#### The Water Tracks Team



Caitlin Rushlow
PhD student at ISU



Becca Risser
Masters student at



Melissa Barker Alexander Dawson School PolarTREC teacher

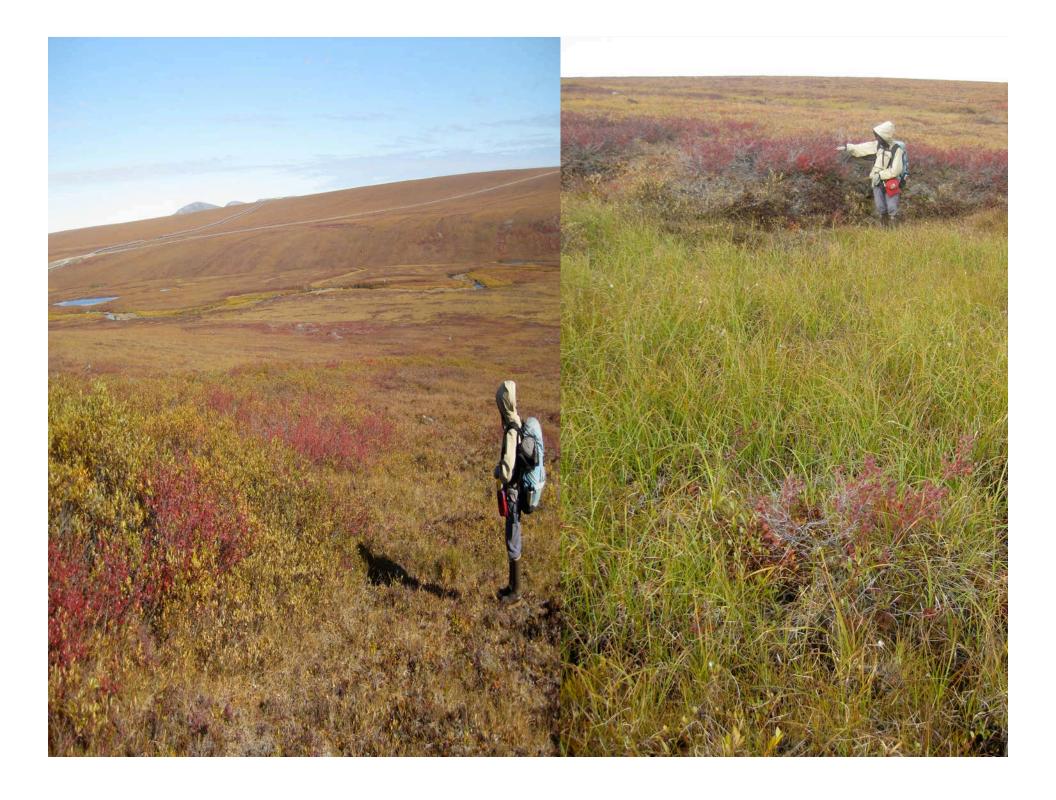


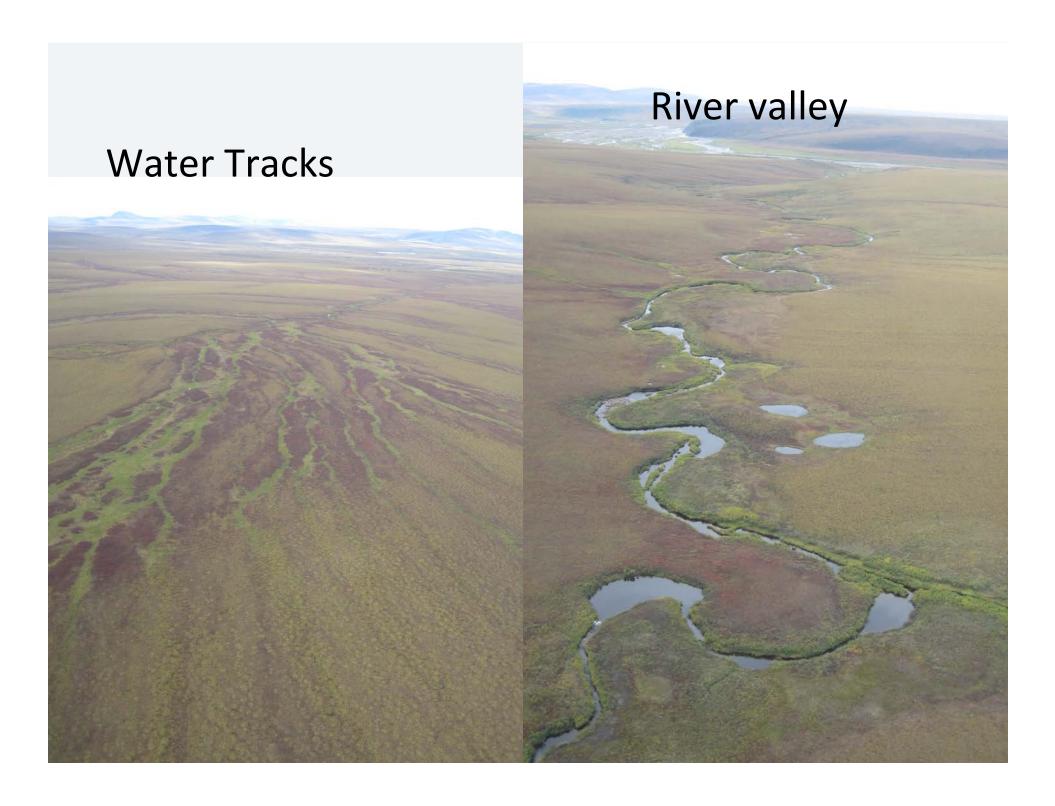
Molly Tedesche PhD student at UAF



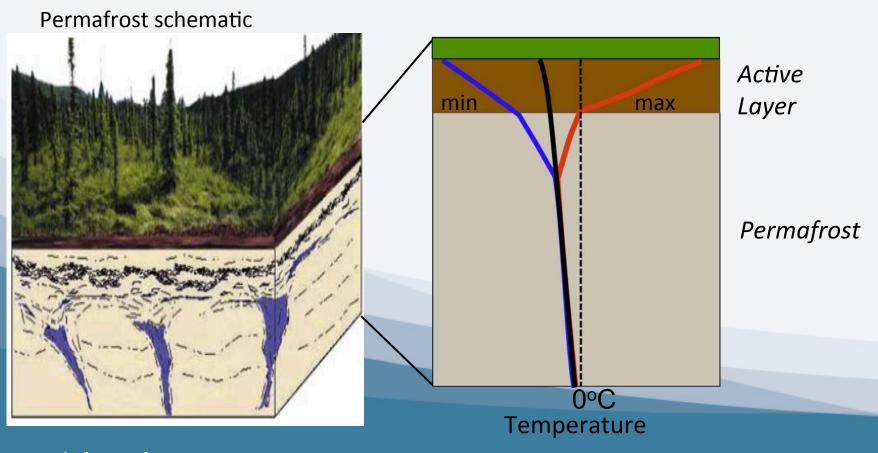
Margit Jaeger Undergrad at UAF



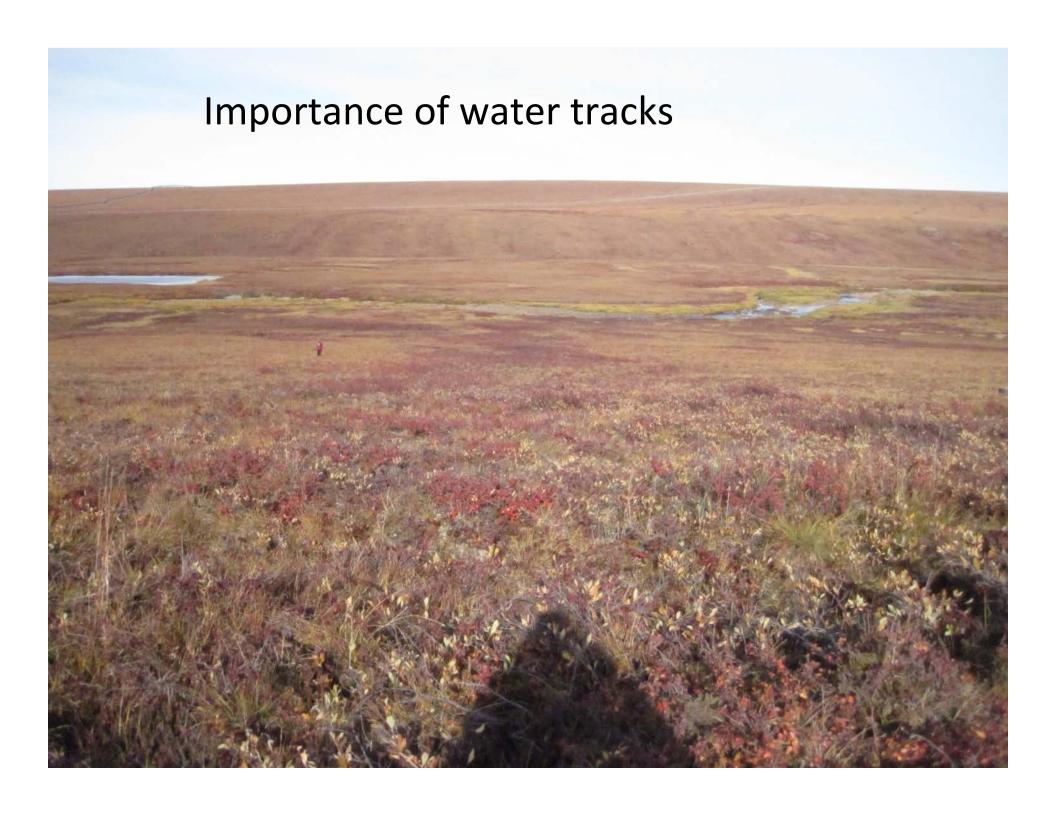




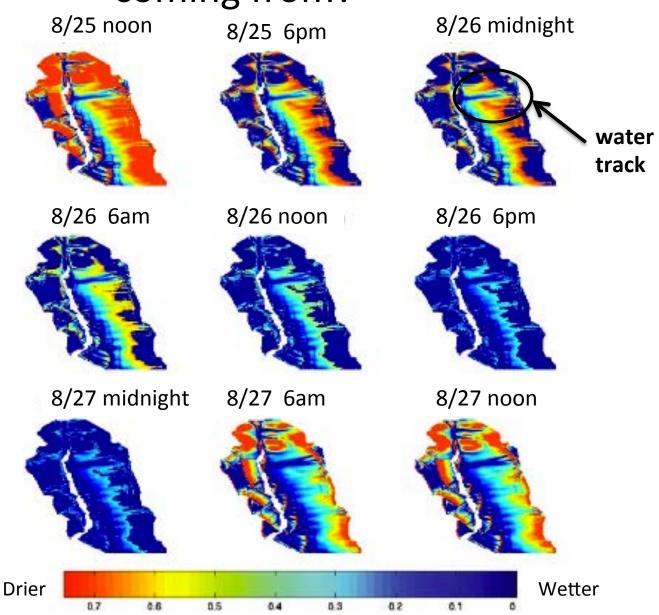
# Permafrost is ground that remains frozen for two or more consecutive years



White et al. (2007)

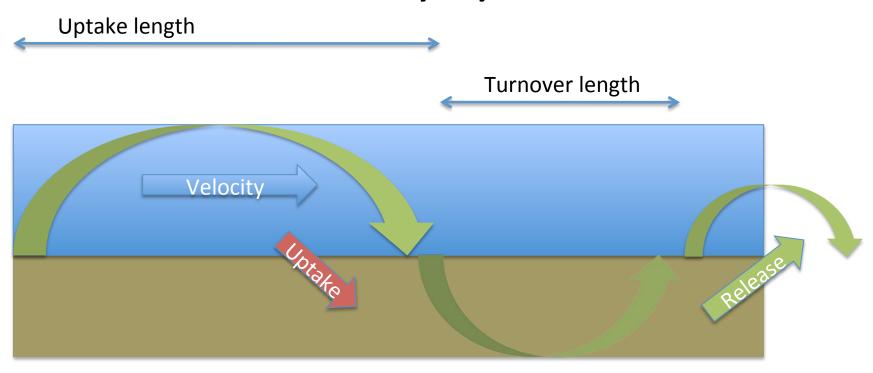


## Where are the water and solutes in the water tracks coming from?





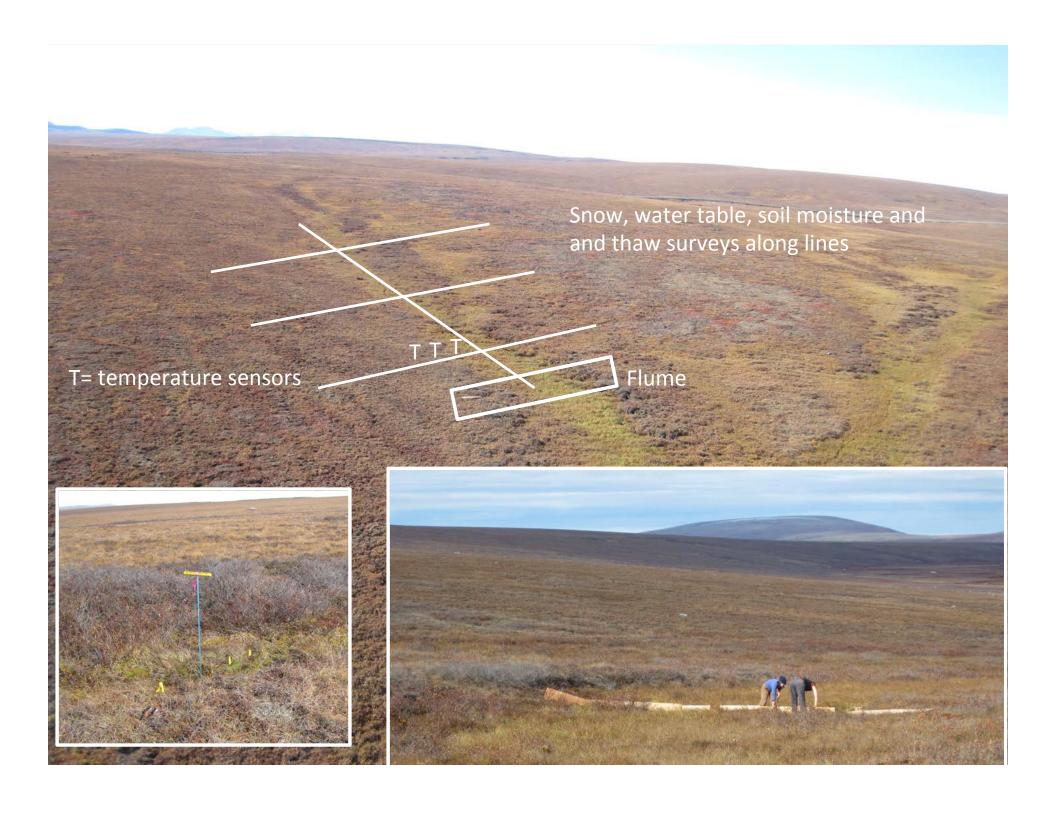
# How far down slope do nutrients move as they cycle?



Spiraling length

#### Experimental design and location





## Measuring flow through notch



## Delivering equipment to sites



Pre-snow melt field work







### Back at the lab...







#### 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
- Take Online Professional Development Courses
- 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. <a href="http://www.polartrec.com/polar-connect/archive">http://www.polartrec.com/polar-connect/archive</a>

