

with Rob Wilder

Live from Barrow, Alaska!



22 June 2007





What is PolarTREC?

PolarTREC is a professional development experience in which K-12 teachers are paired with researchers in authentic polar research experiences.

In the next three years 36 teachers from around the United States will join scientists in the Arctic and Antarctic in celebration of the International Polar Year!

www.polartrec.com



The PolarTREC Team



Wendy Warnick
PolarTREC PI
Executive Director



Kristin Fischer
PolarTREC
Project Assistant



Helen WigginsProgram Coordinator



Ronnie Owens
Web Developer



Zeb PollySystems Administrator



Janet Warburton
PolarTREC
Project Manager



Ben WadeWeb Developer



Joed Polly
Video Production

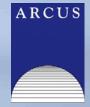


Katie Breen
PolarTREC
Project Manager



Tina BuxbaumElectronic Media
Project Manager

...with help from the entire staff at ARCUS





International Polar Year (IPY) 2007-2009

The International Polar Year (2007-2009) is an exciting scientific campaign focusing on the world's polar regions!

IPY is a time for discovery, science, learning, and awareness about the polar regions with activities for youth, scientists, and the public.

www.ipy.org

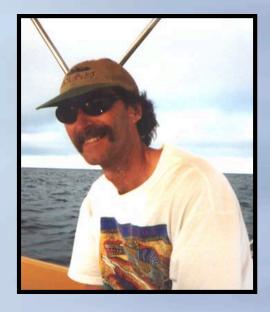


Who are we talking with today?



Teacher

Rob Wilder
Spartanburg High School
South Carolina



Researcher

Steve OberbauerUniversity of Florida
Florida



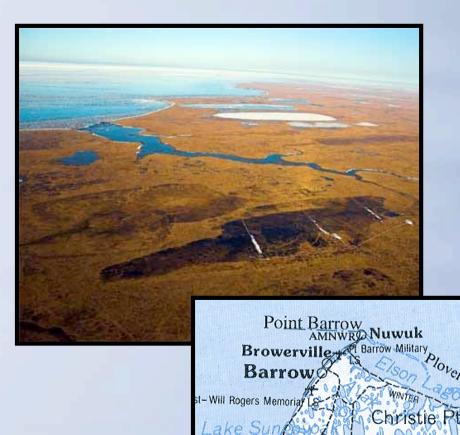
BASC Assistant Logistics Coordinator & Barrow Resident

Alice Drake

Barrow Arctic Science Consortium Alaska



Climate Change and Tundra Ecosystems in Barrow, Alaska



Nulavik %

Goal of the project:

Conduct various measurements of the soil and air to understand how changes in a warming and drying arctic environment may affect the balance and stability of the arctic soil carbon.

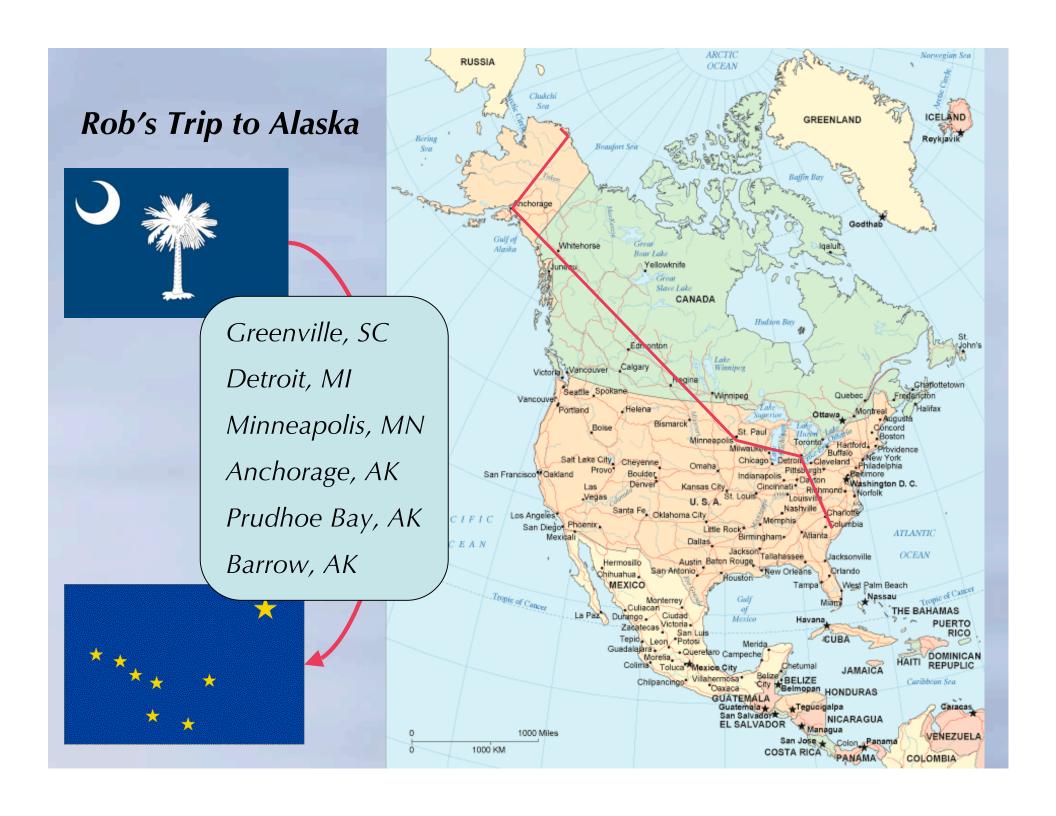
Dates:

31 May - 7 July 2007

Location:

Barrow, Alaska USA

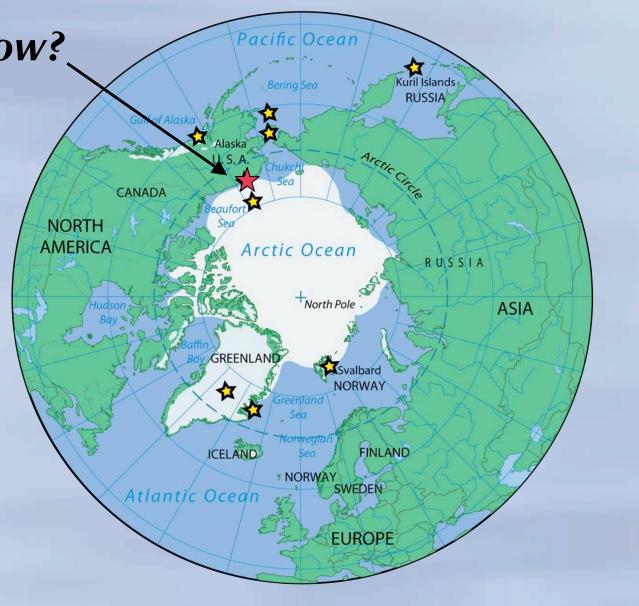
Elevation: about 31 feet above sea level



Where is Barrow?

Northernmost city in the USA

- ■340 miles North of the Arctic Circle
- ■Home to over 4000 people
- ■The sun does not set between May 10th and August 2nd!









Life in Barrow







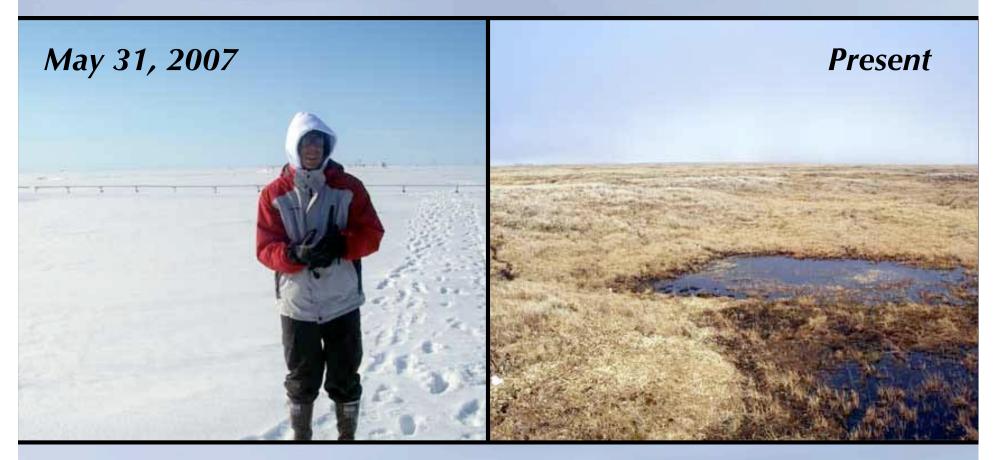








Spring on the Tundra



Less than a month later...











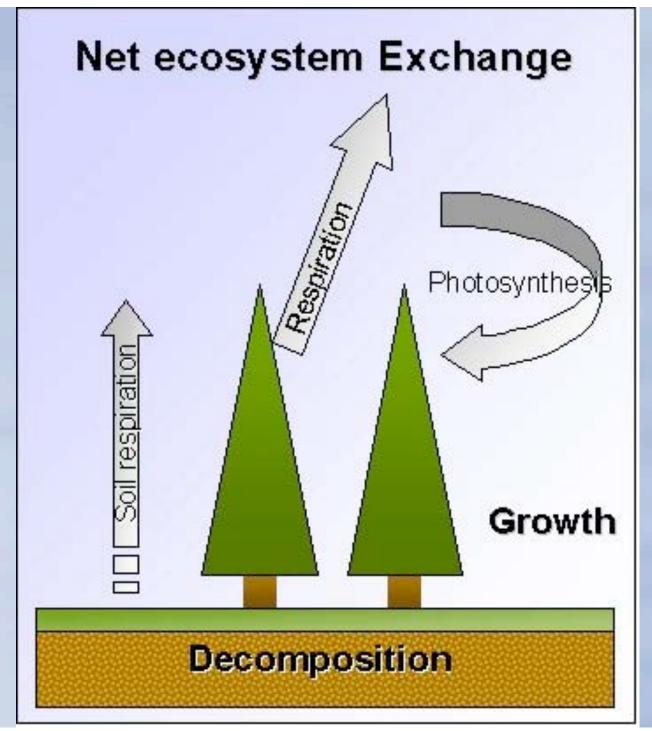




NEE = ER + GPP

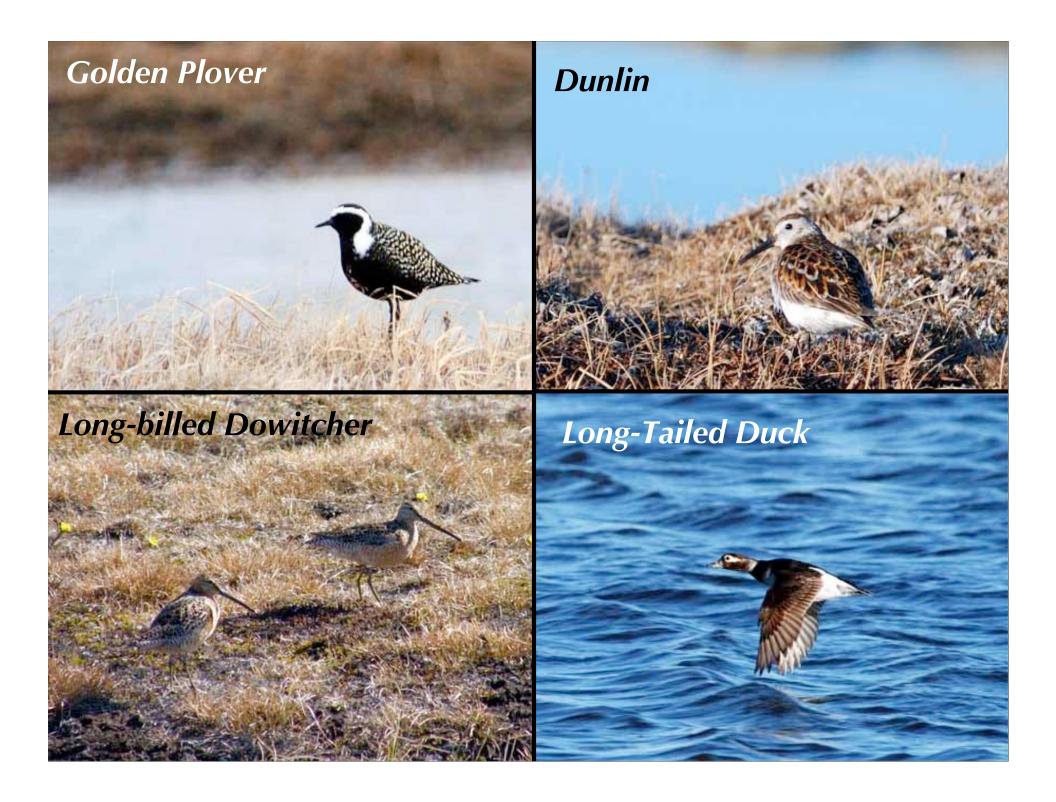


Net Ecosystem Exchange = Ecosystem Respiration + Gross Primary Productivity



University of Helsinki





Birds of the Tundra



Snowy Owl





Lemmings

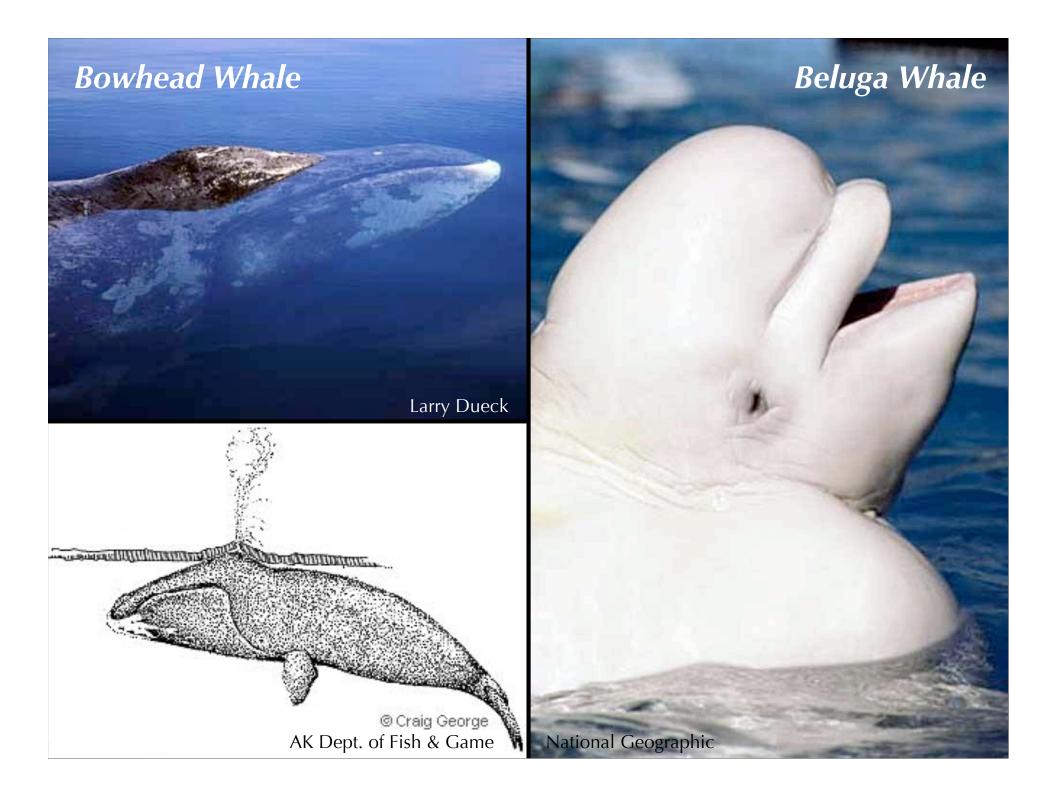


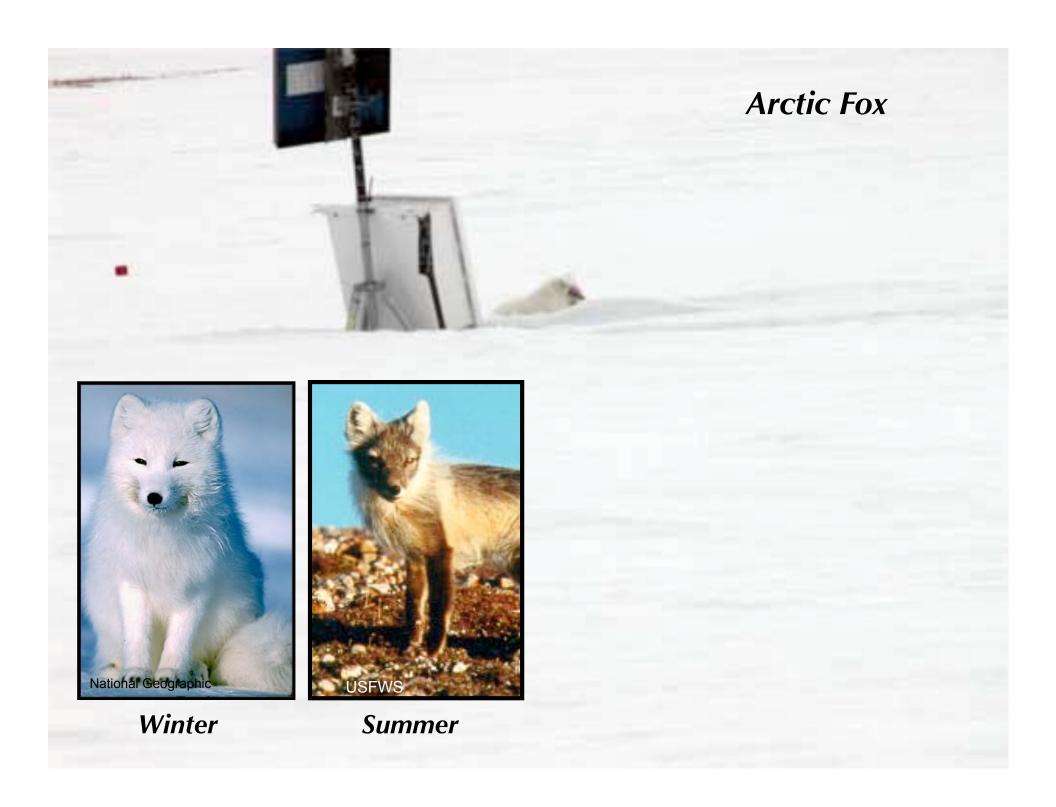


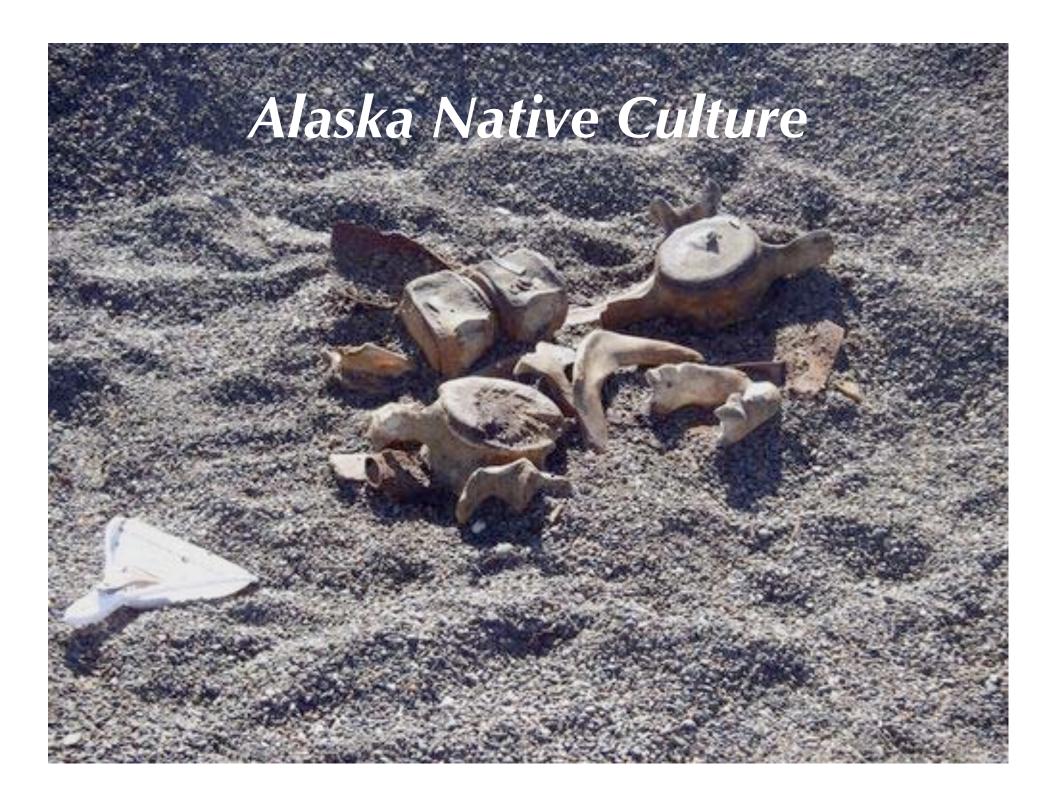


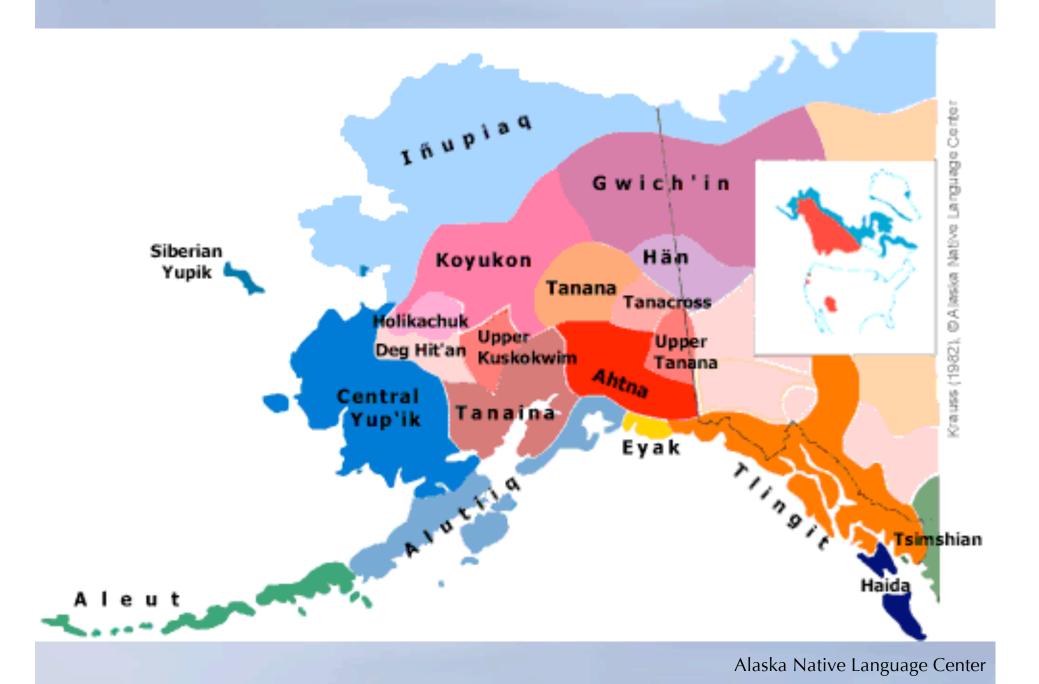


















Apugauti (ah-poo-ah-ti)





Nalukatuk "blanket toss"



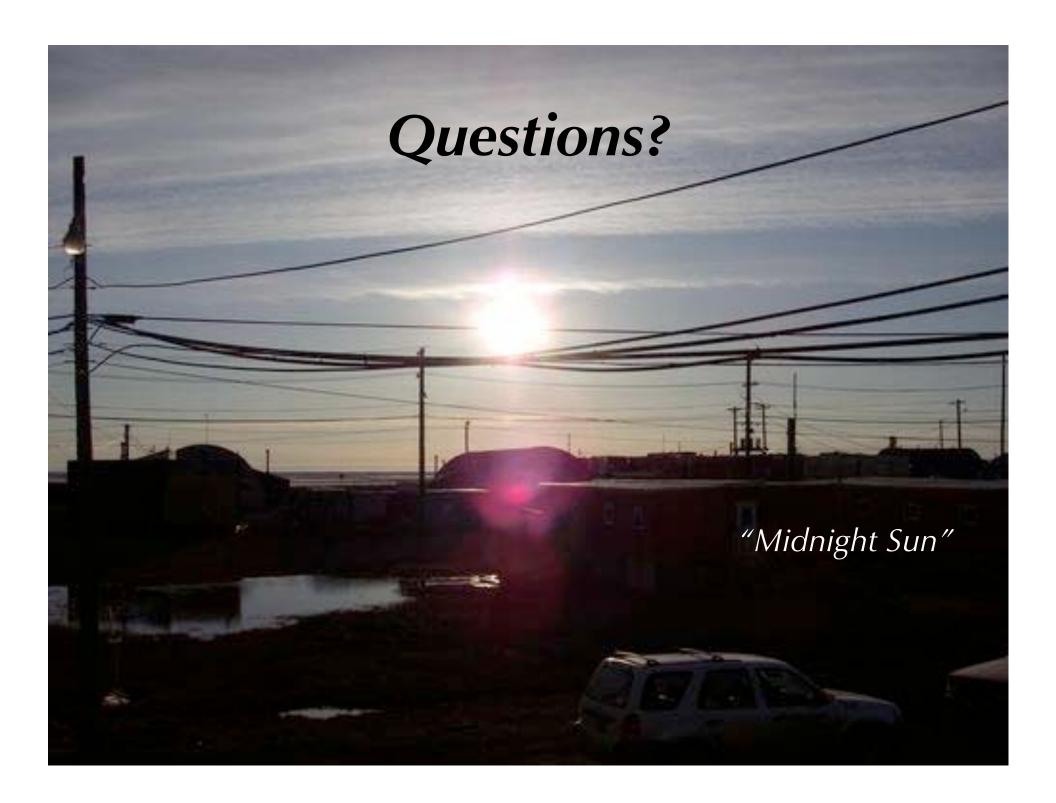


Whale Meat Muktuk & Mikigauq









Check out and register for upcoming events!



www.polartrec.com

