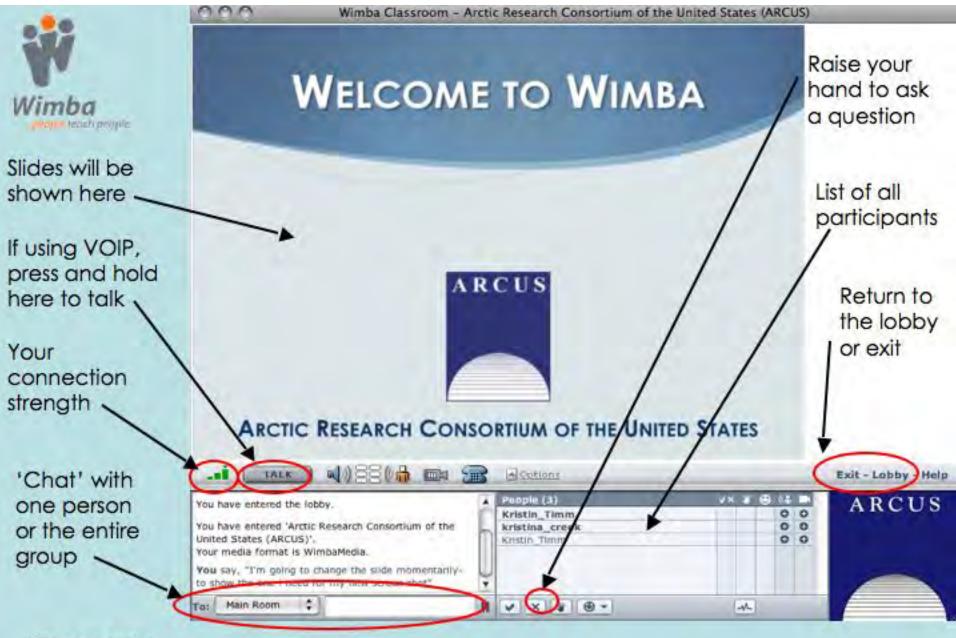
Welcome to PolarConnect

with Michelle Brown and the Human Impacts in Antarctica 2011 Expedition

Friday 9 December 2011

8:45AM AKST

[9:45am PST, 10:45am MST, 11:45am CST, 12:45pm EST]



Please note:

- Participant 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

To Ask a Question:

- ✓ Raise your hand with the "hand button"
- ✓ Type your question in the text chat box
- ✓ Speak loud and clear and directly into the phone to ask your question.



Environmental Monitoring at McMurdo Station



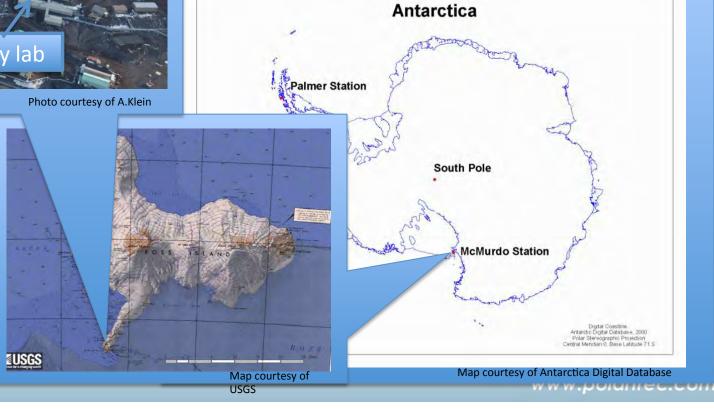


EXPLORING AND COLLABORATING

Where am I?









Traveling to McMurdo









Life at McMurdo Station









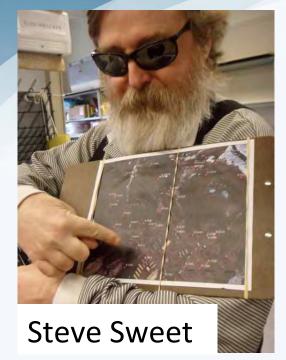
www.polartrec.com



Recycling at McMurdo Station



Our Research Team







Michelle Brown







Research Purpose

 1991: Antarctic Treaty calls for Environmental Monitoring



Photo courtesy of USAI

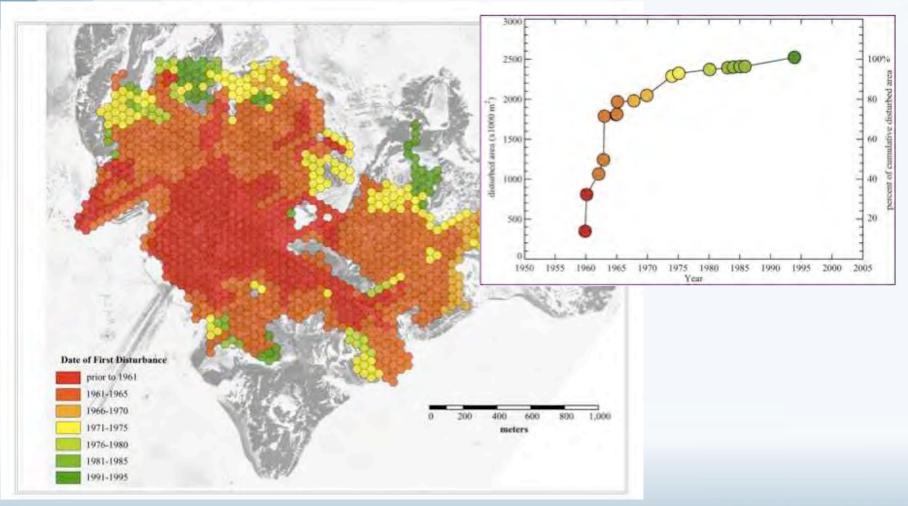


Photo courtesy of A.Klein

McMurdo Station, 1955/56

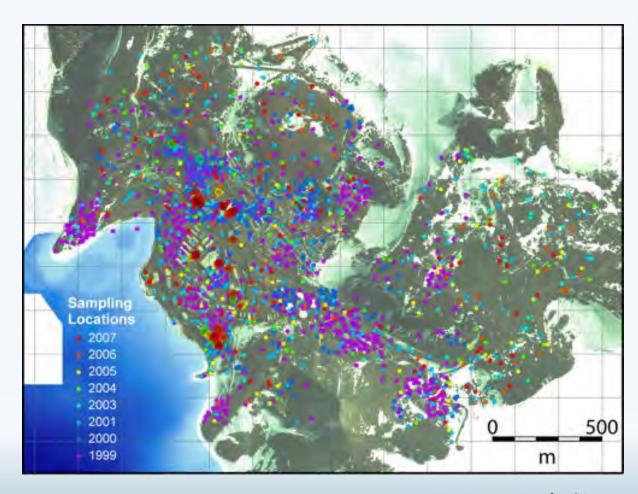
McMurdo Station, 2005

Collecting Samples on Land



Collecting Samples on Land





Map courtesy of A. Klein

Map courtesy of A. Klein



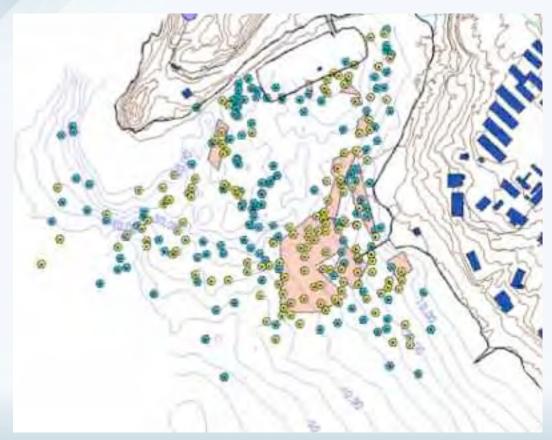
Collecting Samples on Land







Collecting Samples on the Seafloor



Map courtesy of A. Klein



Photo courtesy of R. Robbins

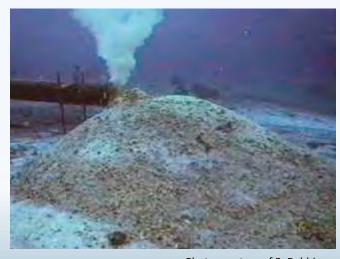


Photo courtesy of R. Robbins

TEACHERS AND RESEARCHERS
EXPLORING AND COLLABORATING

Collecting Samples on the Seafloor













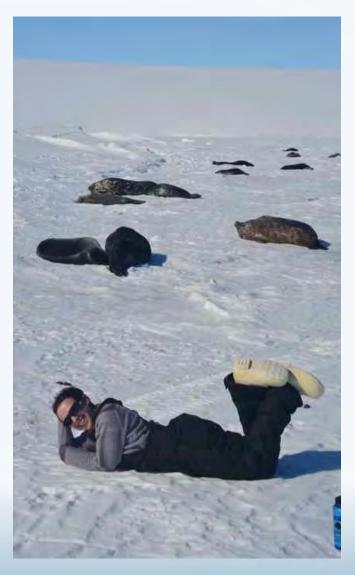
TEACHERS AND RESEARCHERS

EXPLORING AND COLLABORATING

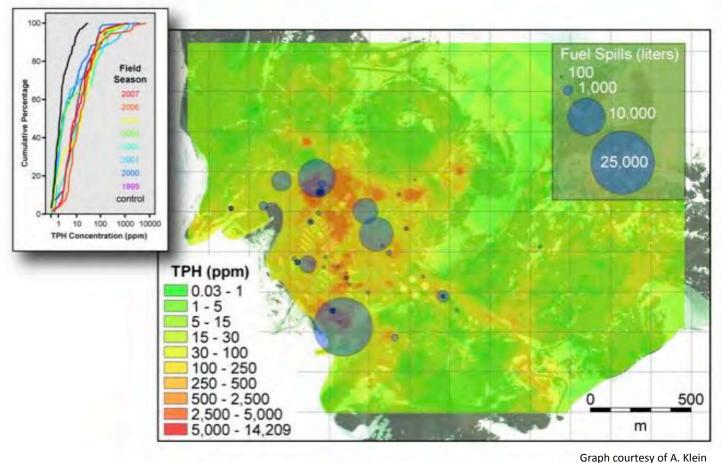
Control Site: Turtle Rock





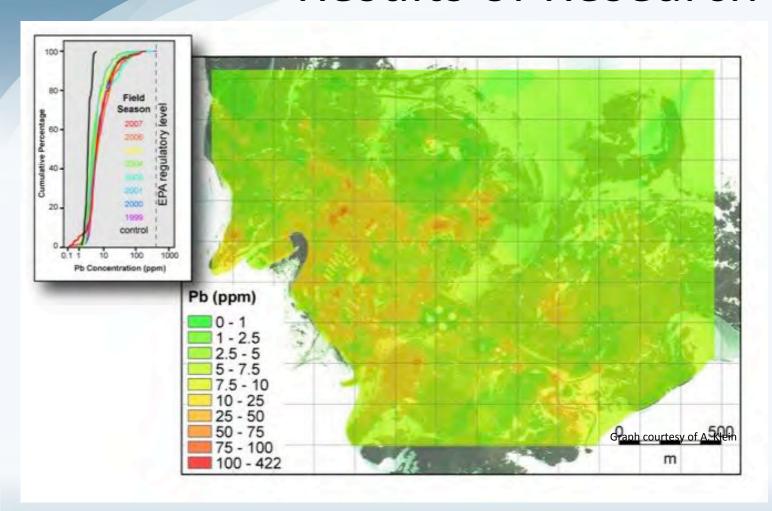


Results of Research



- Hydrocarbons found in fuel samples at expected locations.
- Although there are high concentrations, they are not increasing with each year.

Results of Research



- Similar with lead (Pb).
- Higher amounts in predicted areas, but levels are not increasing.

Questions?





TEACHERS AND RESEARCHERS

EXPLORING AND COLLABORATING

Animals of Antarctica













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

