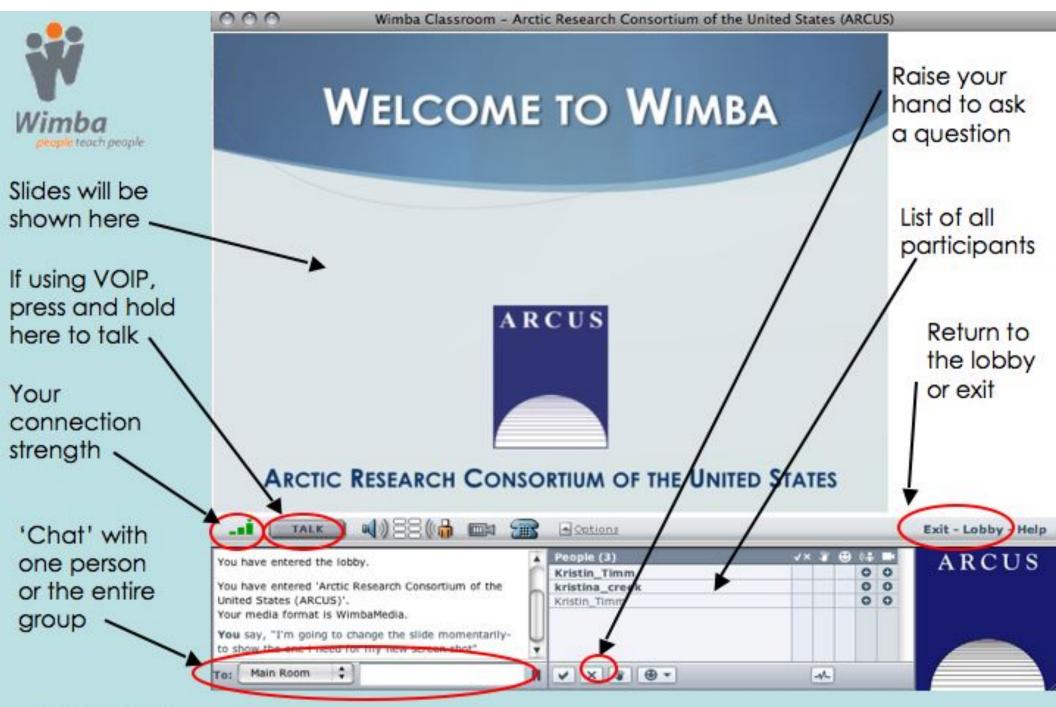
# Welcome to a live PolarConnect Event!

with PolarTREC teacher Chantelle Rose and the Winter Sampling expedition

Wednesday 16 November 2011

8:00 am AST

(9:00 am PDT, 10:00 pm MDT, 11:00 pm CDT, 12:00 pm EDT)



#### 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.

## Winter Sampling The Team



**Dr. Carin Ashjian, Woods Hole Oceanographic Institution** 



**Bob Campbell, University of Rhode Island** 



Steve Okkonen, University of Alaska, Fairbanks www.polartrec.com



Donna Van Kueren, University of Rhode Island



Celia Gelfman, University of Rhode Island



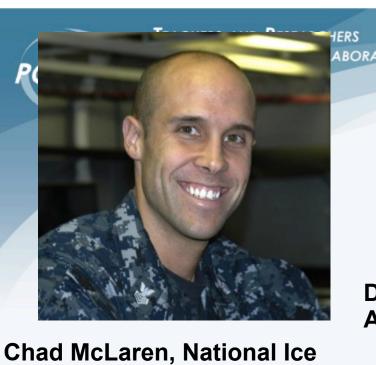
Joel Llopiz, Woods Hole Oceanographic Institution



Phil Alatalo, Woods Hole Oceanographic Institute



Kristina Terpis, University of Rhode Island www.polartrec.com



David Leech, University of Alaska



Krista Longnecker, Woods Hole Oceanographic Institution



Sam Laney, Woods Hole Oceanographic Institution



**Steve Roberts, UCAR** 

www.polartrec.com



David Pavlik, US Fish and Wildlife



Dean Stockwell, University of Alaska



**Eric Arnesen, Oregon State University** 



Toby Martin, Oregon State University of the Com-



# Captain of the USCG Cutter Healy, Captain Beverly Havlik and Executive Officer Commander Gregory Tlapa

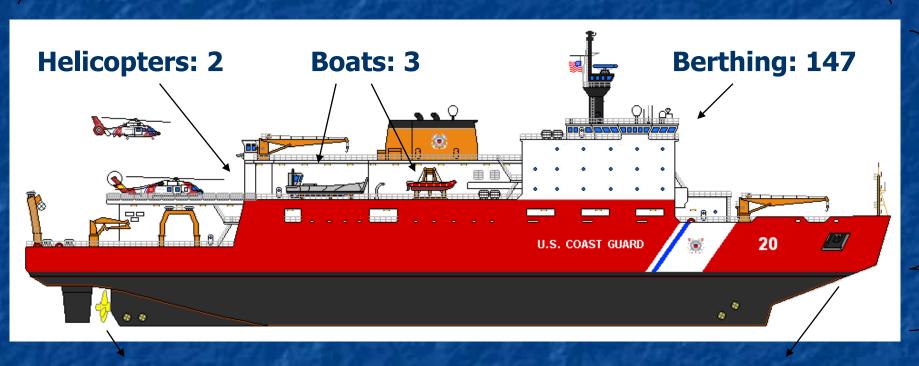






#### **HEALY** statistics

Length: 420 ft



Height: 135 ft

Draft: 30 ft

**Fastest Speed: 17 kts** 

Icebreaking: 4.5 ft at 3 kts 8 ft Backing & Ramming

Weight: 16,000 long tons (36 million pounds)









Mess deck

Store

Sick Bay

Water plant



Power plant







## Life aboard Healy







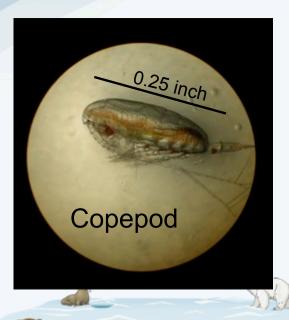


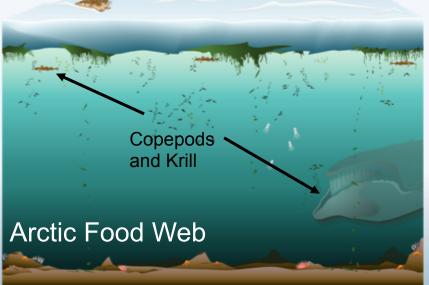


#### Our travels so far...



## Why go to the Arctic in Winter?





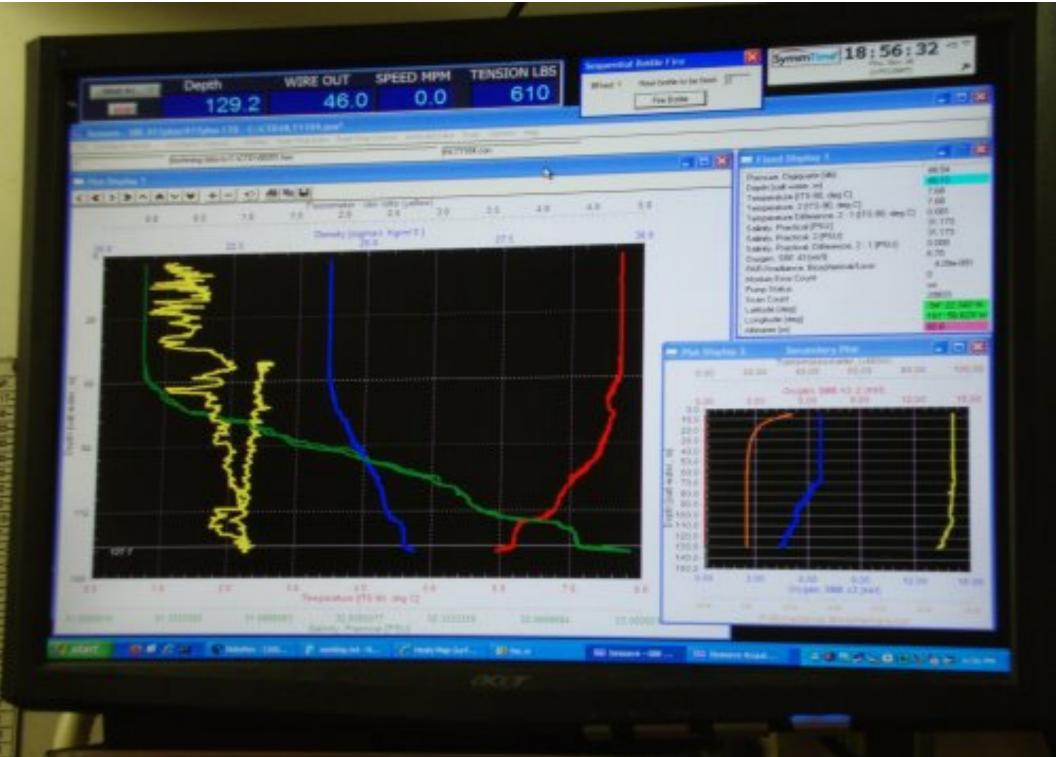
- We know very little about the biology and physical oceanography of the Bering and Chukchi Seas in winter.
- We are particularly interested in the large copepods Calanus and krill – where are they during the winter? In other regions, these animals spend the winter in deeper water – deeper than the Chukchi and Bering shelves.
- Our poor understanding of the winter ecology of these animals hampers our ability to predict and model the impact of climate change in the Arctic ecosystem.



#### What We Have Been Sampling

- Water temperature, saltiness, temperature and currents
- Chlorophyll (phytoplankton), microzooplankton and zooplankton (Calanus copepods, krill abundances)
- Bird and Mammal distributions (besides the dark)
- Dissolved Organic Matter
- As well as conducting some experiments with the animals we have collected

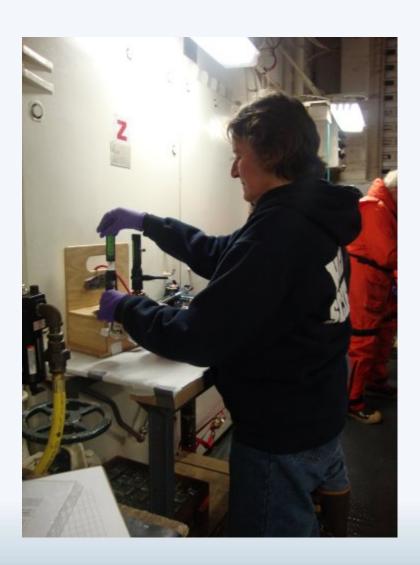






## Samples from the Nisken Bottles











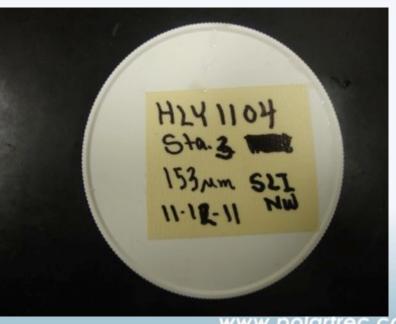
.polartrec.com



## Bongo Net Samples











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## Animals of Special Interest







All Animals are Interesting!









www.polartrec.con

#### 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.

#### 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 <a href="https://www.polartrec.com">www.polartrec.com</a>!

#### Celebrate ANTARCTICA DAY!

1 December 2011 with PolarTREC Teacher Michelle Brown at McMurdo Station, Antarctica

#### **Thank You!**

An archive of the event will be available shortly.

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

