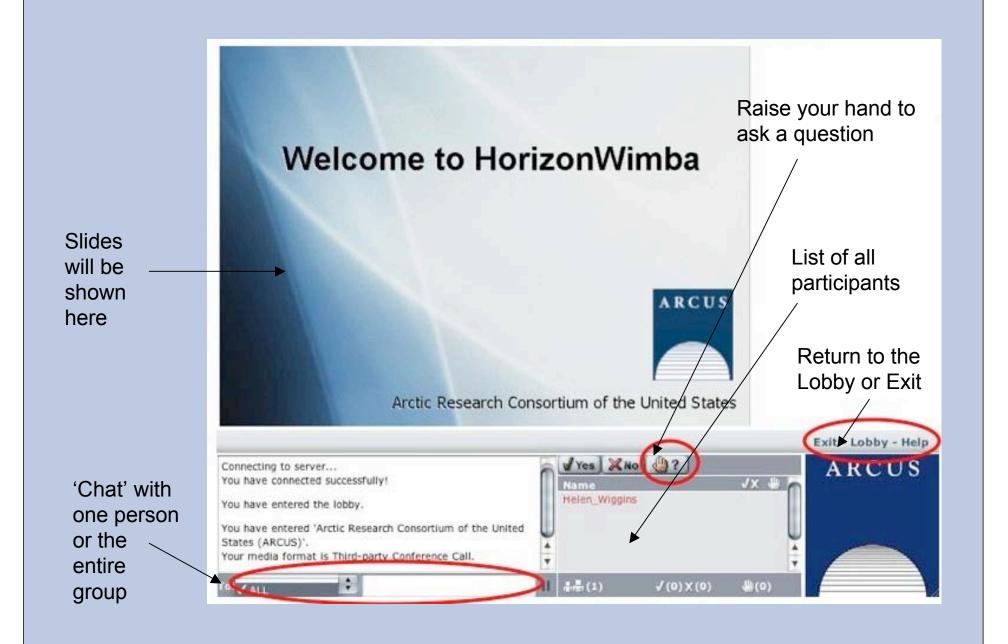
Live from IPY!

with Maggie Prevenas & Robyn Staup

高牌

3 May 2007

Aboard the USCGC Healy in the Bering Sea





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 Wiggins Program Coordinator



Ronnie Owens Web Developer



Zeb Polly Systems Administrator



Janet Warburton PolarTREC Project Manager



Ben Wade Web Developer



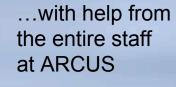
Joed Polly Video Production



Katie Breen PolarTREC Project Manager



Tina Buxbaum Electronic Media Project Manager







Who are we talking with today?

PolarTREC & NOAA Teacher at Sea Teacher

Maggie Prevenas Kalama Intermediate School Hawaii





PolarTREC Science Educator

Robyn Staup Boonshoft Museum of Discovery Ohio



Captain

Chief Scientist

Ted Lindstrom

Ray Sambrotto Columbia University New York



Researcher

Kris Swenson

Researcher Didier Burdloff



Graduate Student Emily Davenport

Robyn Staup 2007 PolarTREC Teacher





Maggie Prevenas

2007 PolarTREC Teacher & NOAA Teacher at Sea













Chief Scientist Dr. Ray Sambrotto



Photo by: Jeff Napp

BEST- Bering Ecosystem Study



View of the Healy in sea ice from helicopter.

POLAR

Goal of the project:

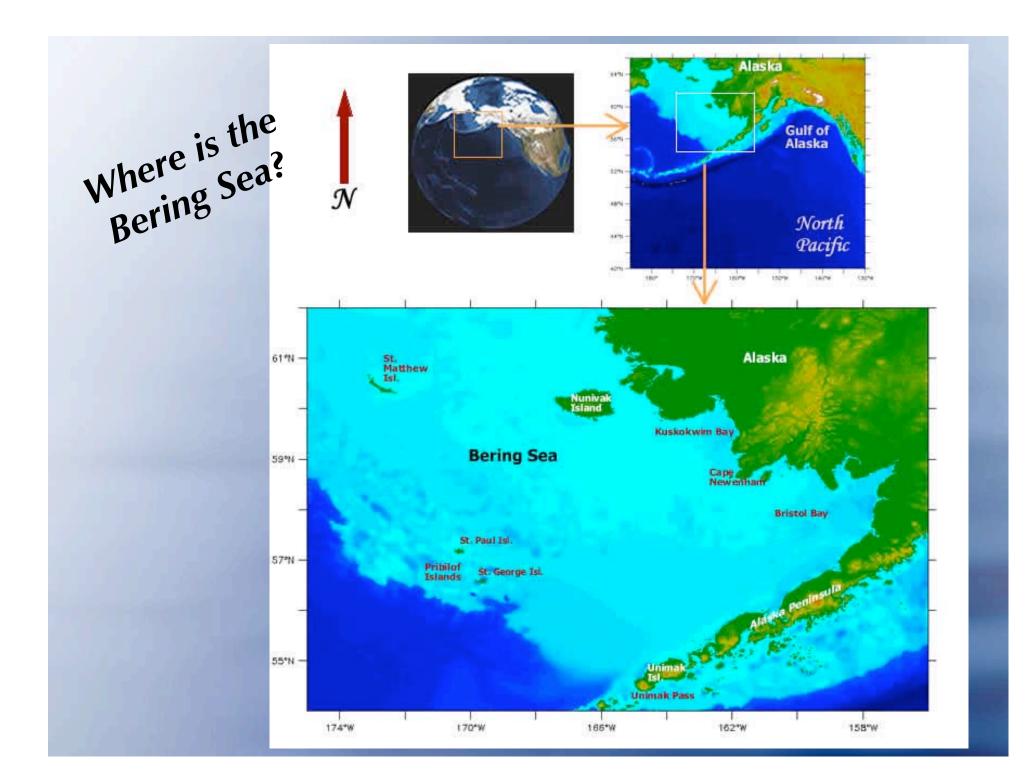
Conduct transects over the eastern Bering Sea to measure the productivity and health of the marine ecosystem.

Dates:

7 April - 14 May 2007

Location:

Aboard the US Coast Guard Cutter Healy, in the Bering Sea



Where is the **USCGC Healy?**



Approximate

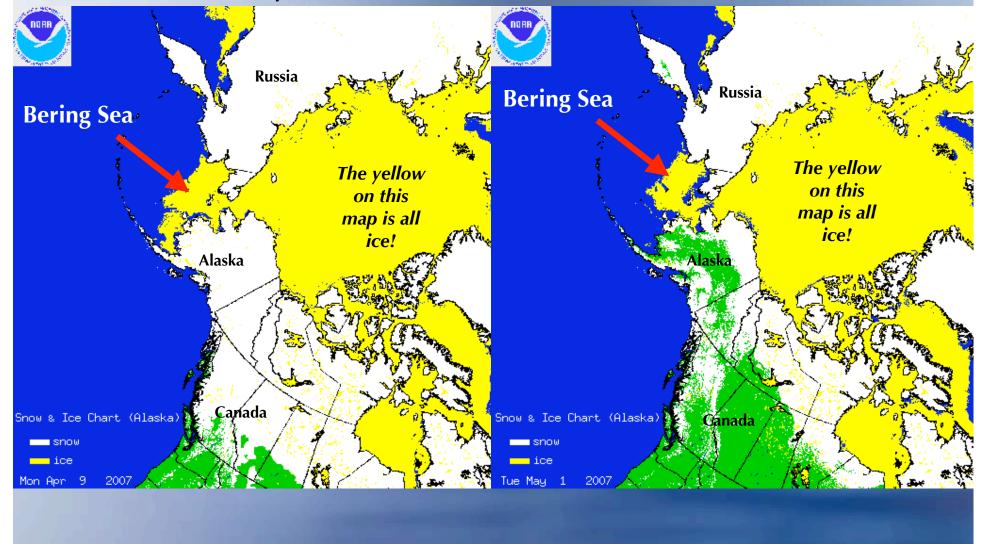
USCGC Healy

Bering Sea Map with Ship Tracks updated 4/26/2007 65°N St. Lawrence Isl. 70m Isobath 63°N Apr 3 Alaska BERING SEA Apr 61°N St Matthew Isl Nunvak Isi. Apr 22 Kuskokwim Bay 59°N Cape Bristol Bay Stall 00 Pribilof Islands 57°N-George Location of the (55°N Apr **Dutch Harbon** 53°N 178**°**W 174°W 170°W 166°W 162**°**W 158°W OUR:ROSE*(-1)[D=etopo5]

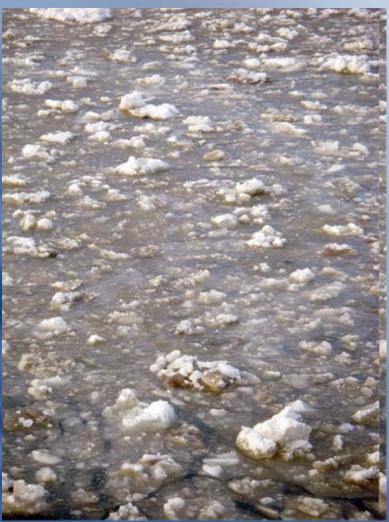
Can you see the seasonal changes in sea-ice cover?

Start of Expedition

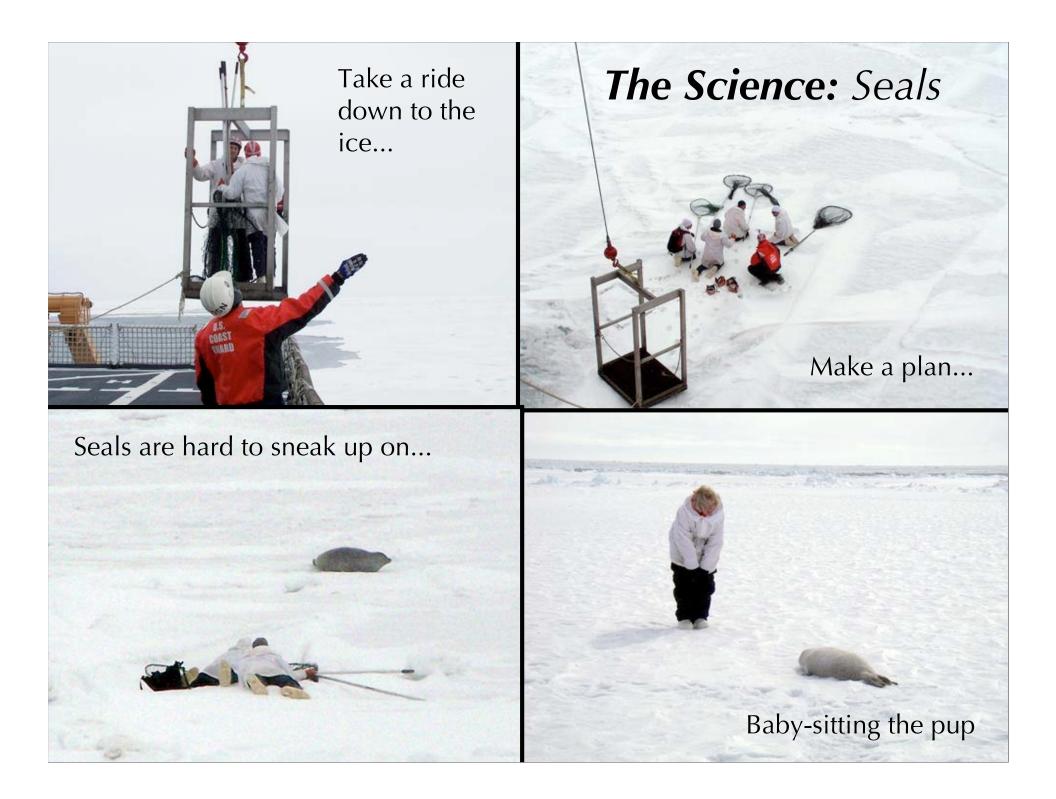
Present







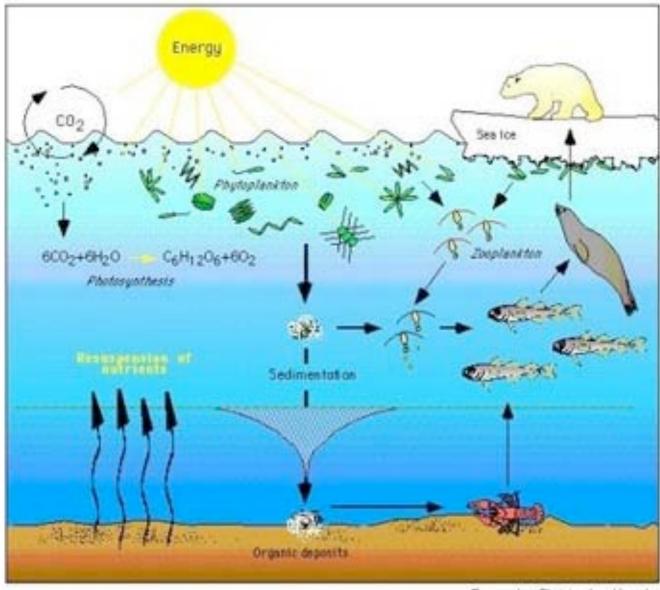
Ice Algae





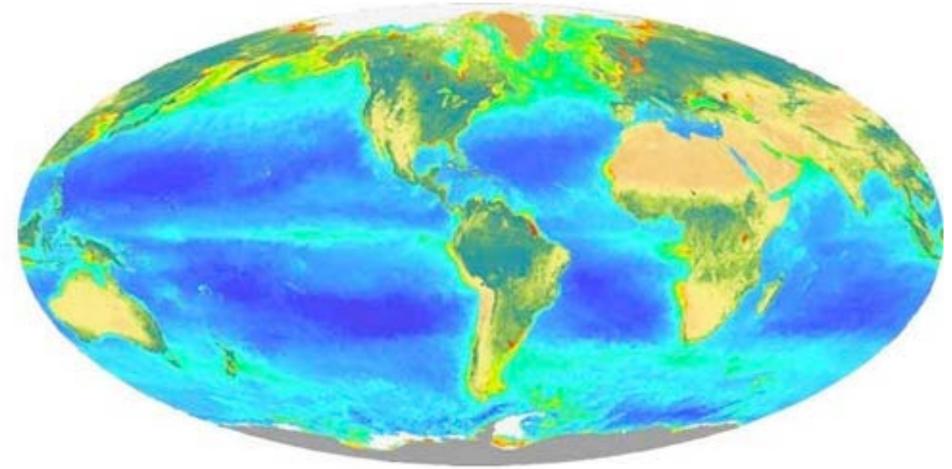


Arctic Marine food Web

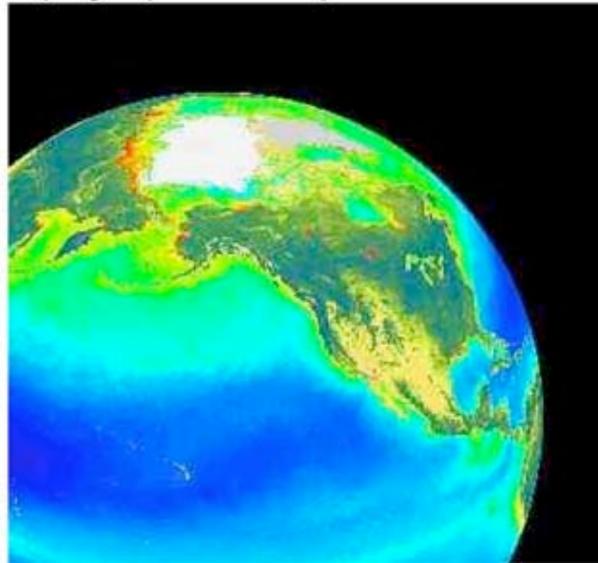


Drawn by Christopher Krembs

There is photosynthesis in the ocean just like that on land



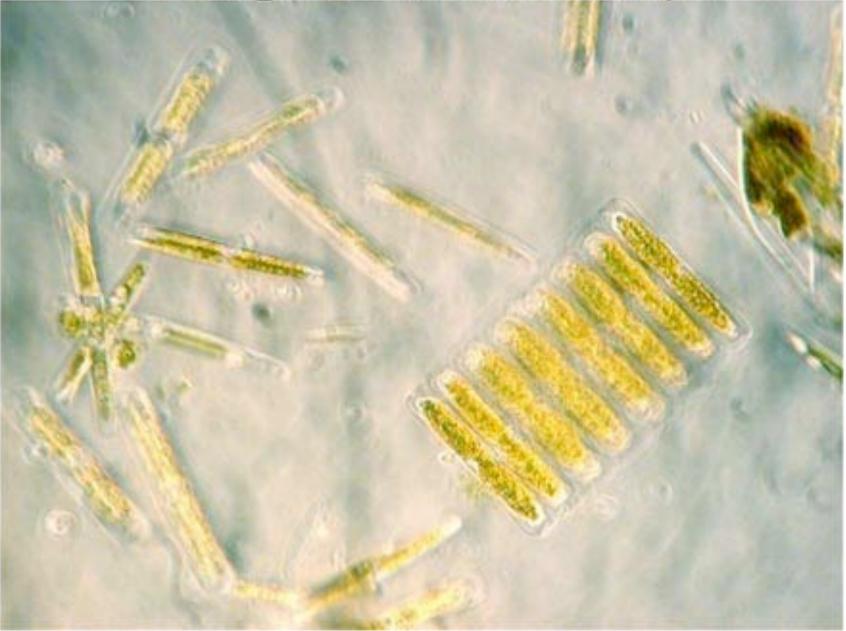
The poles are regions of greater phytoplankton production



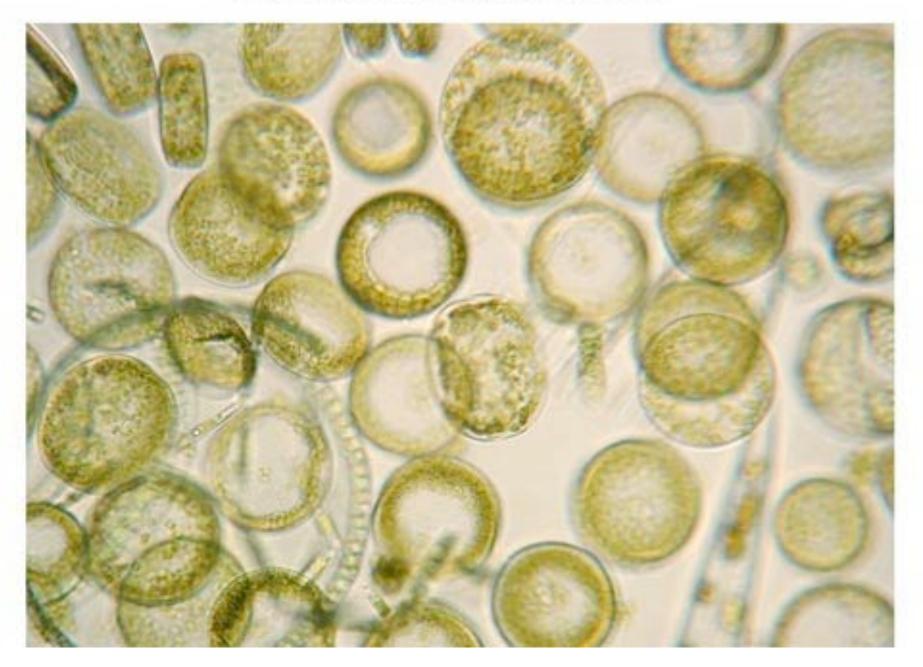
Ice algae lives on the bottom side of ice



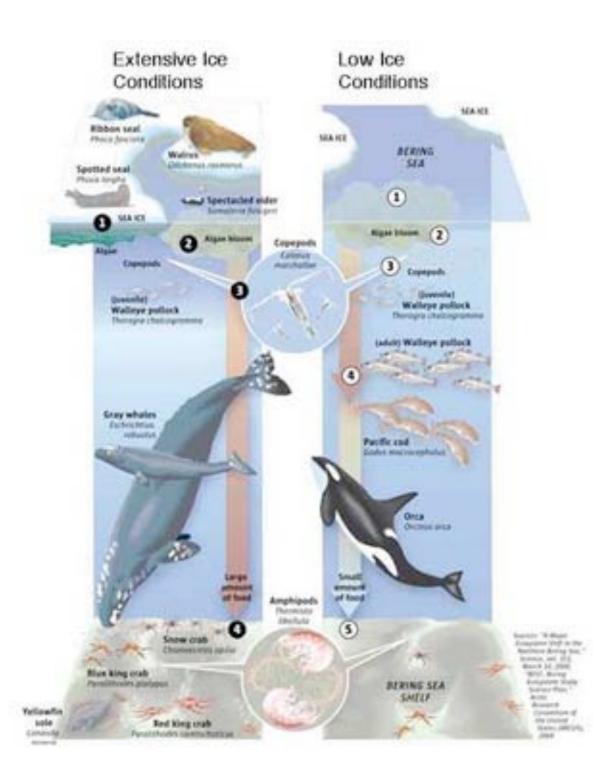
Ice algae under a microscope



Diatoms in open water



Food web differences with and without ice



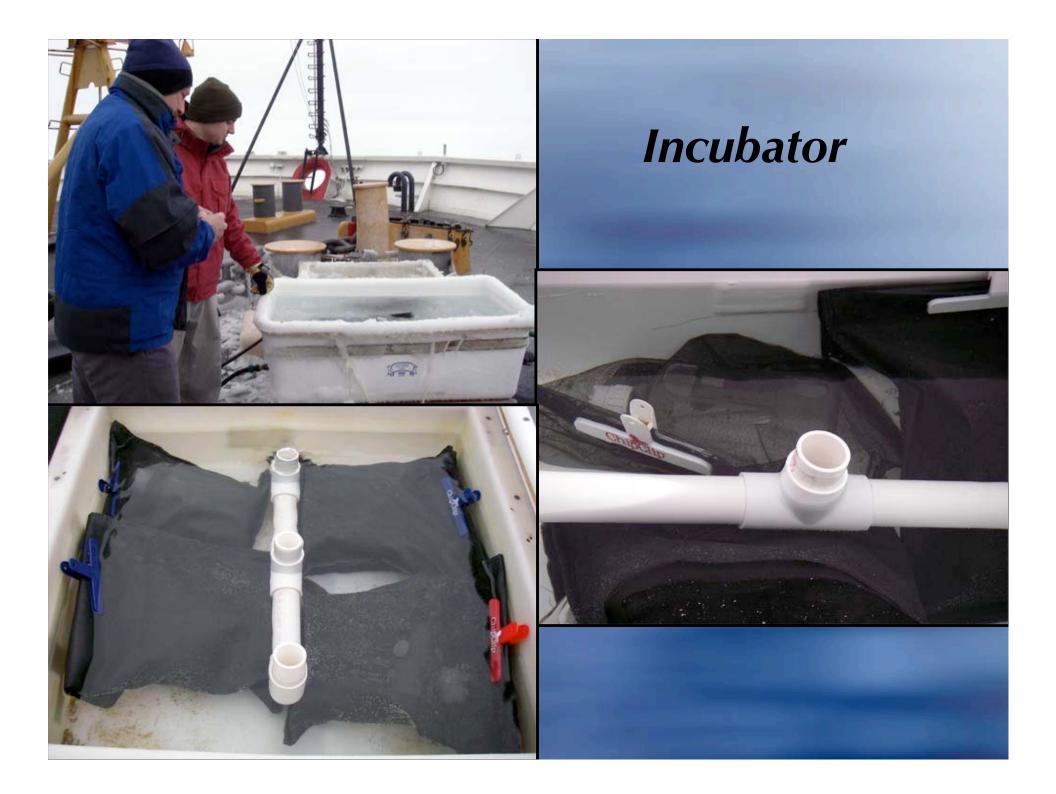
2007 was a moderate ice year



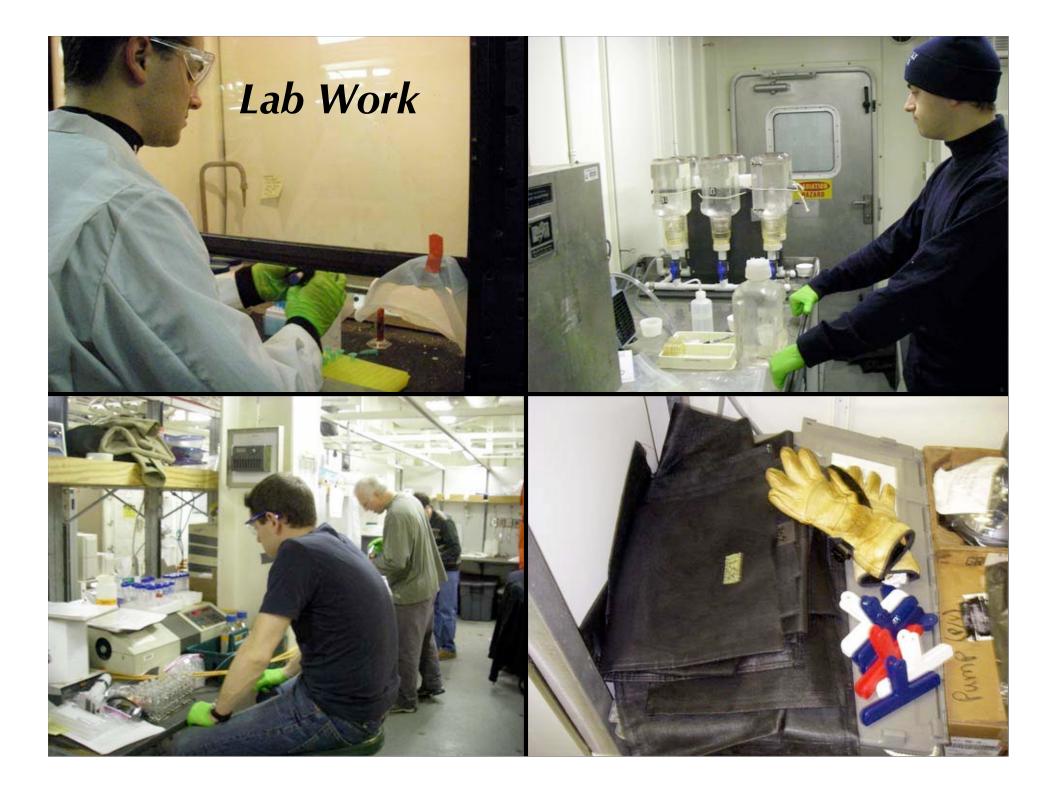


Collecting Water for Sampling

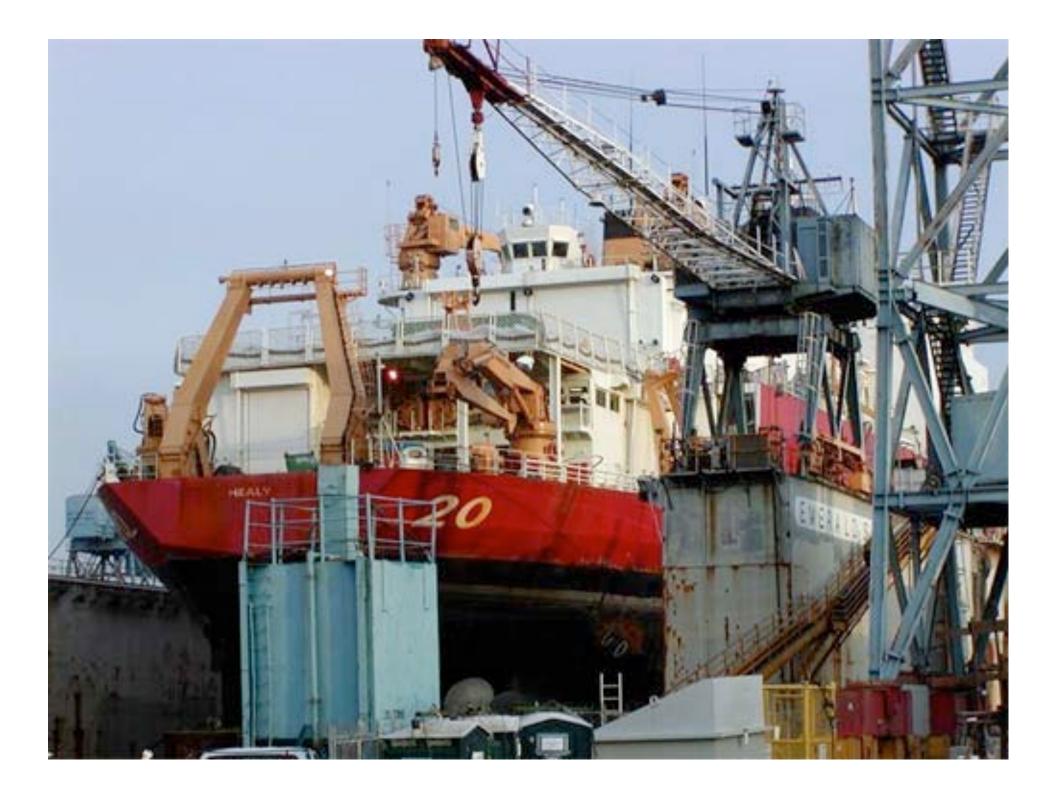








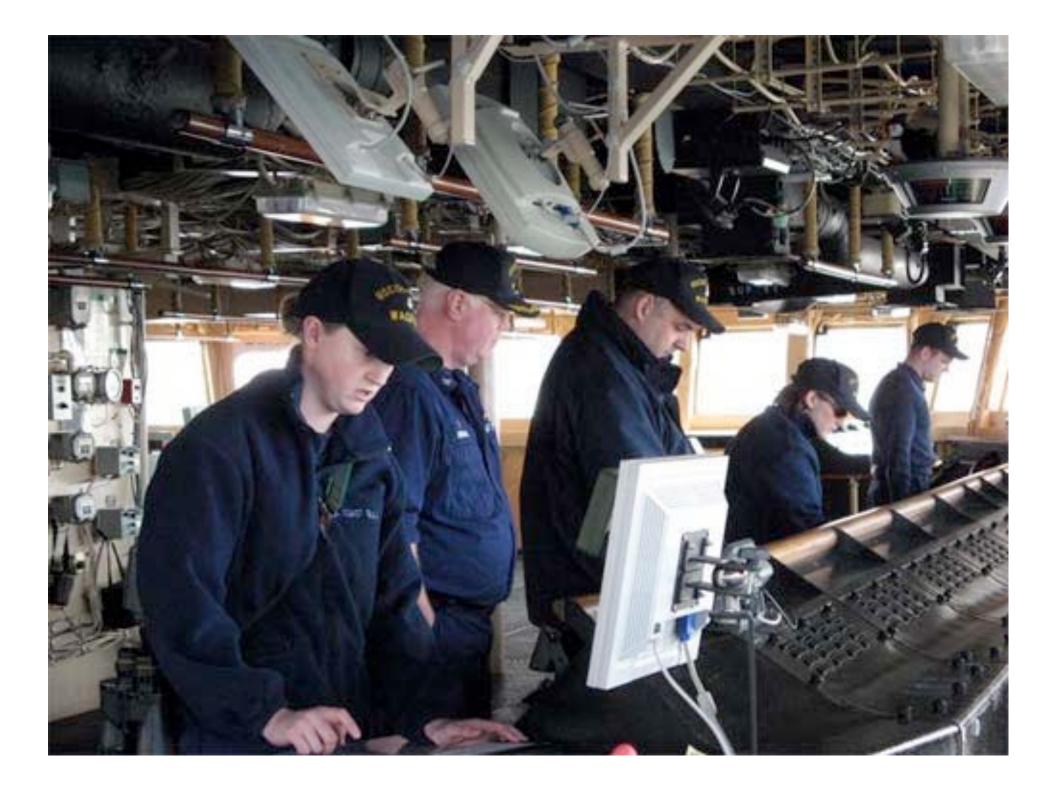








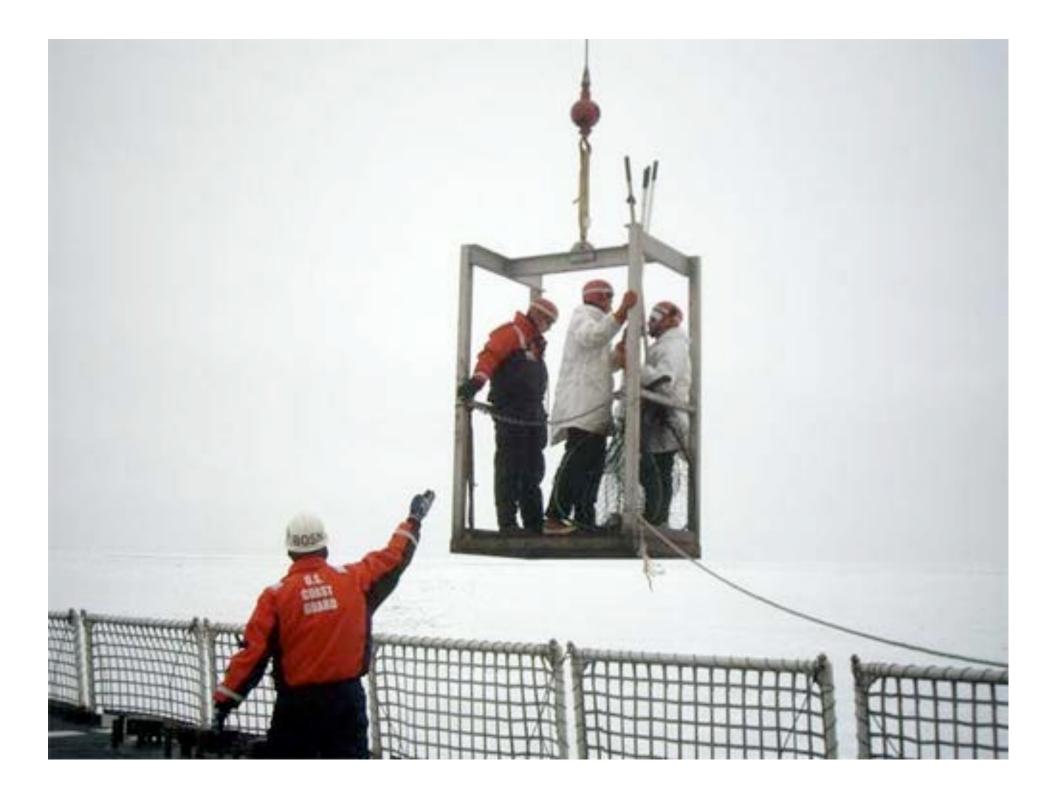










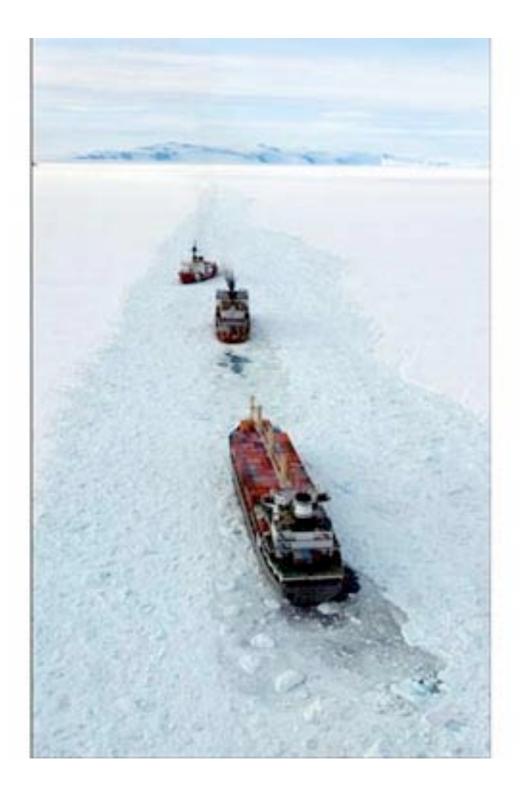


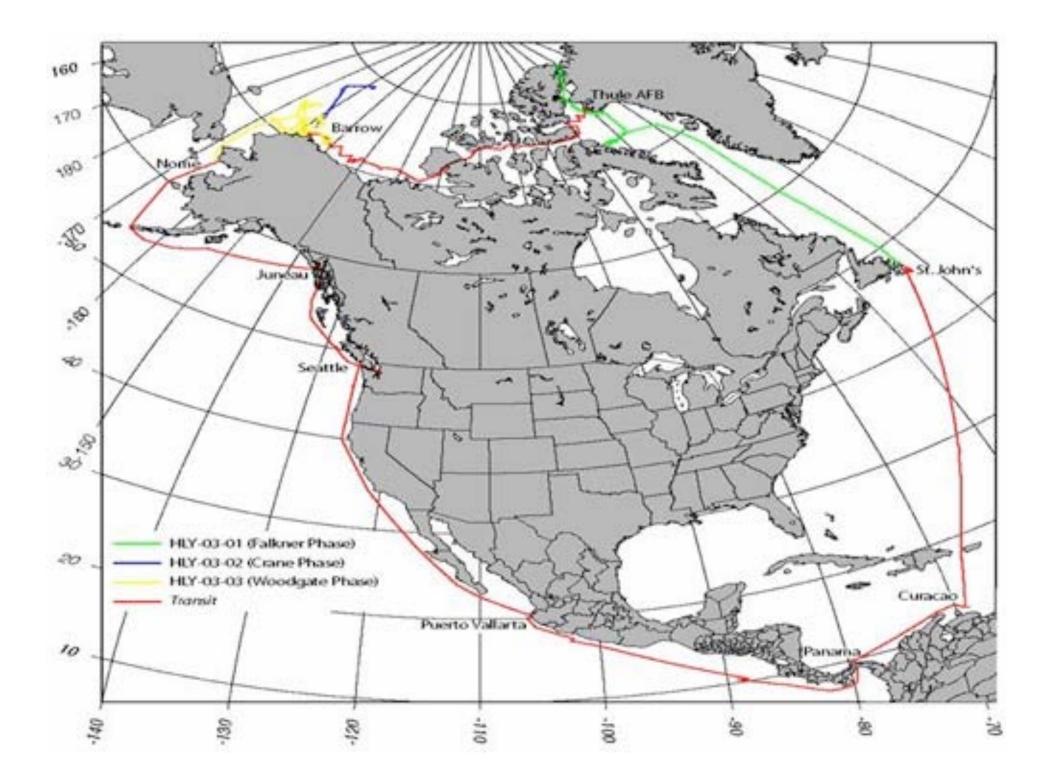














The Wild World of Mrs. P!

ANd Kolohe the Naughty Monkey!



Mrs. P's seal impersonation













St. George ISLaNd



StyroFoam Experiment

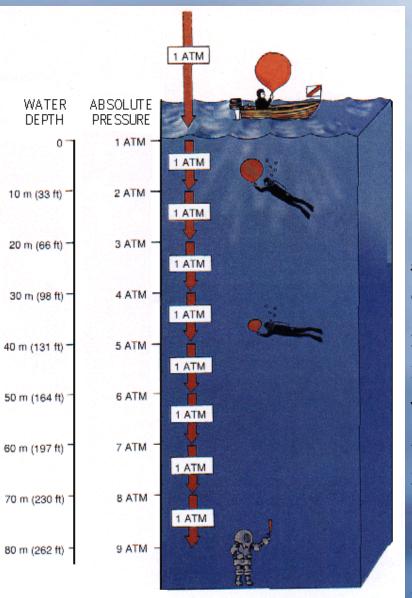




After being 2700 meters deep in the Bering Sea!







Leon Recanati Institute for Maritime Studies



The Wildlife: Other Sea Mammals







On Polar Bear Watch

The Wildlife: Polar Bears

Polar Bear from the Healy in 2006





2007 Polar Bear and "kill spot" viewed from Helicopter





Common Murre

The Wildlife: Sea Birds

Herring Gu

Ivory Gull

Spectacled Eider



Northern Fulmar

The Wildlife: Fish



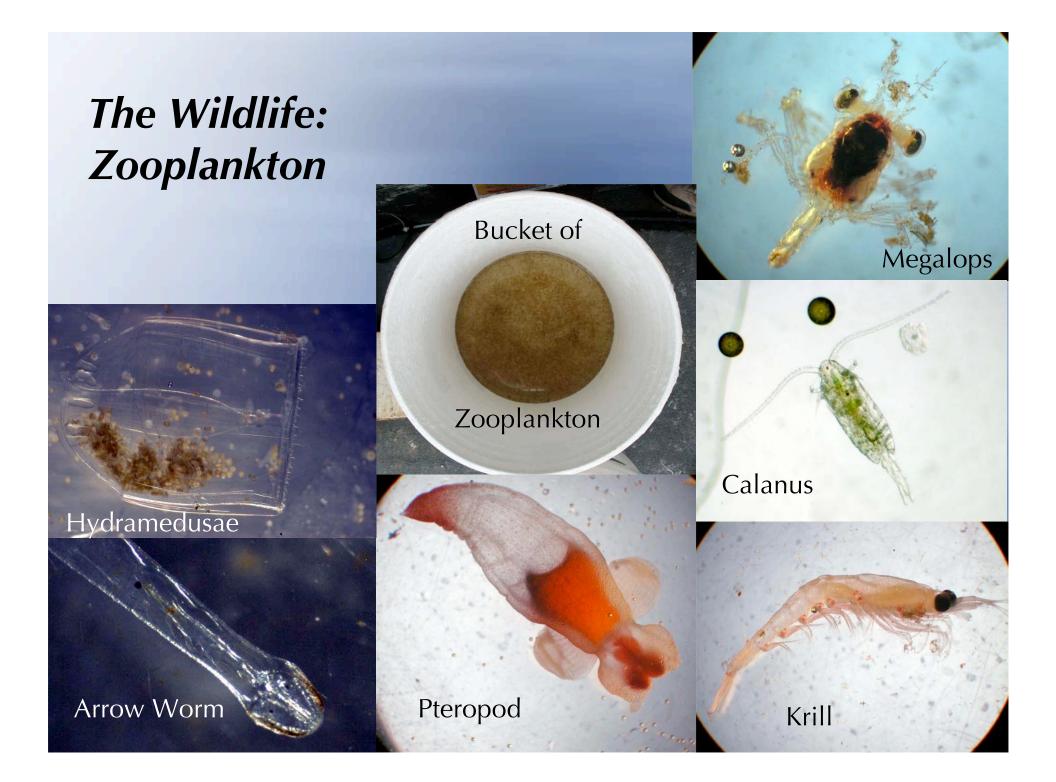
Pollock



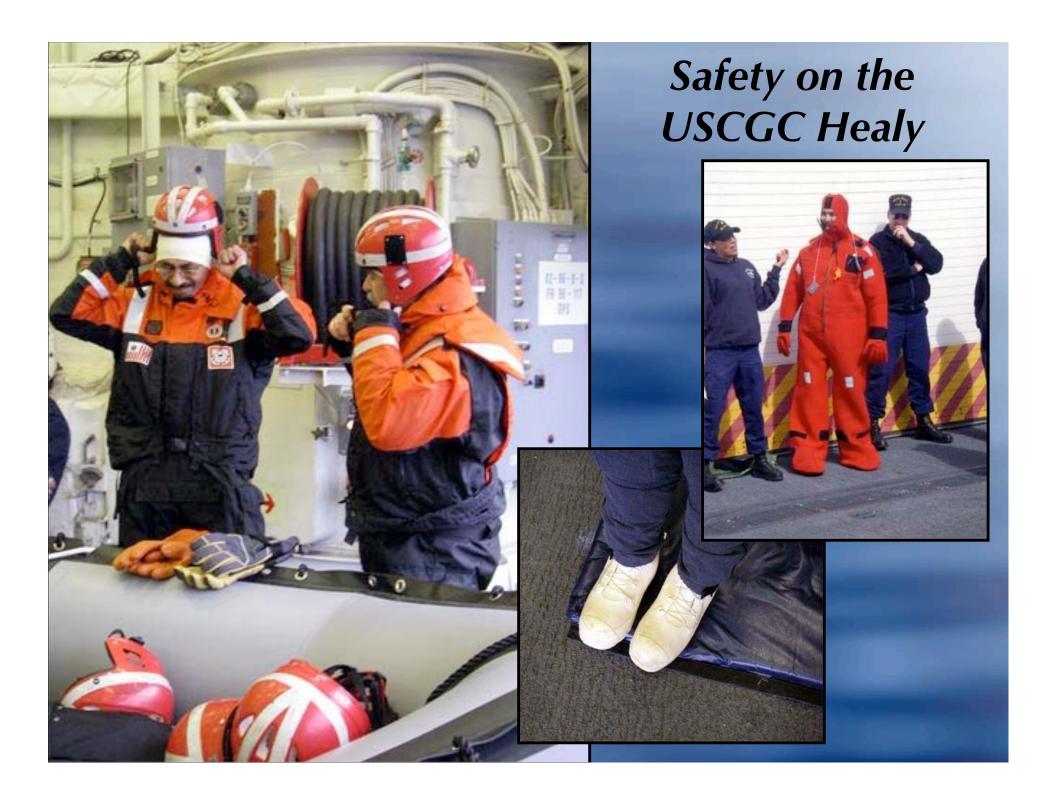
Pacific Salmon











Join us again next week!

Thursday, May 10 at 10:30-11:30 a.m. Alaska Daylight Time Last Live from IPY! From the USCGC Healy!

Laysan Albatross

Photo by Gavin Brady

Thank You!

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Check out www.polartrec.com to see more pictures and keep posted on upcoming events!

If you have further questions, please contact us at info@polartrec.com or call 1-907-474-1600

