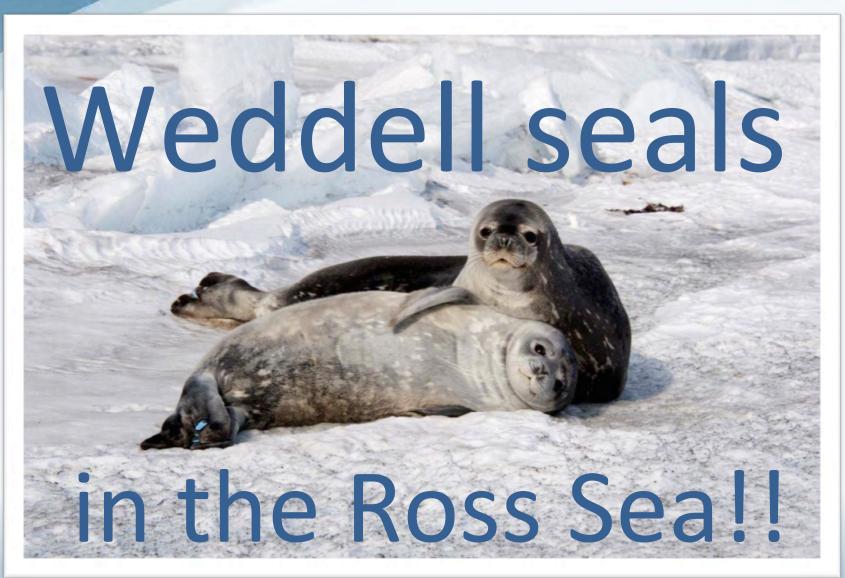
Welcome to PolarConnect

with Alex Eilers and the Weddell seals in the Ross Sea team 2012Expedition

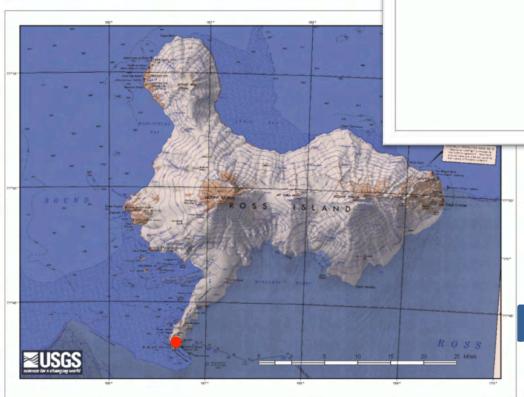
Monday, 13 February 2012 10AM AST [11AM PST, 12PM MST, 1PM CST, 2PM EST]

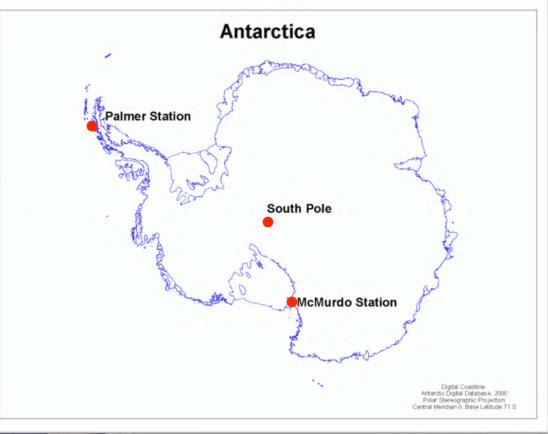






Where are we?





Antarctica Ross Island McMurdo Station

Our Team! Principle Investigators



Dr. Daniel Costa UCSC



Dr. Eileen Hoffman ODU



Dr. Jennifer Burns UAA

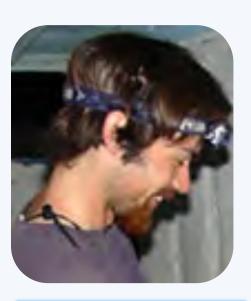
UCSC PhD and Post Doctoral Students



Kim Goetz UCSC



Luis Huckstadt UCSC



Patrick Robinson UCSC

UAA Masters and PhD Students



Linnea Pearson UAA



Michelle Shero UAA

Other team members!



Chris Burns Volunteer



Alex Eilers
PolarTREC teacher
Pink Palace Museum



Jesse Hiatt Videographer



Scouting for seals!



Twin Otter

Snowmobile

Helicopter





Finding the right Seal!





Molted

VS.

Un-molted



The process begins!







Capturing and calming the seal!







Health and condition assessment



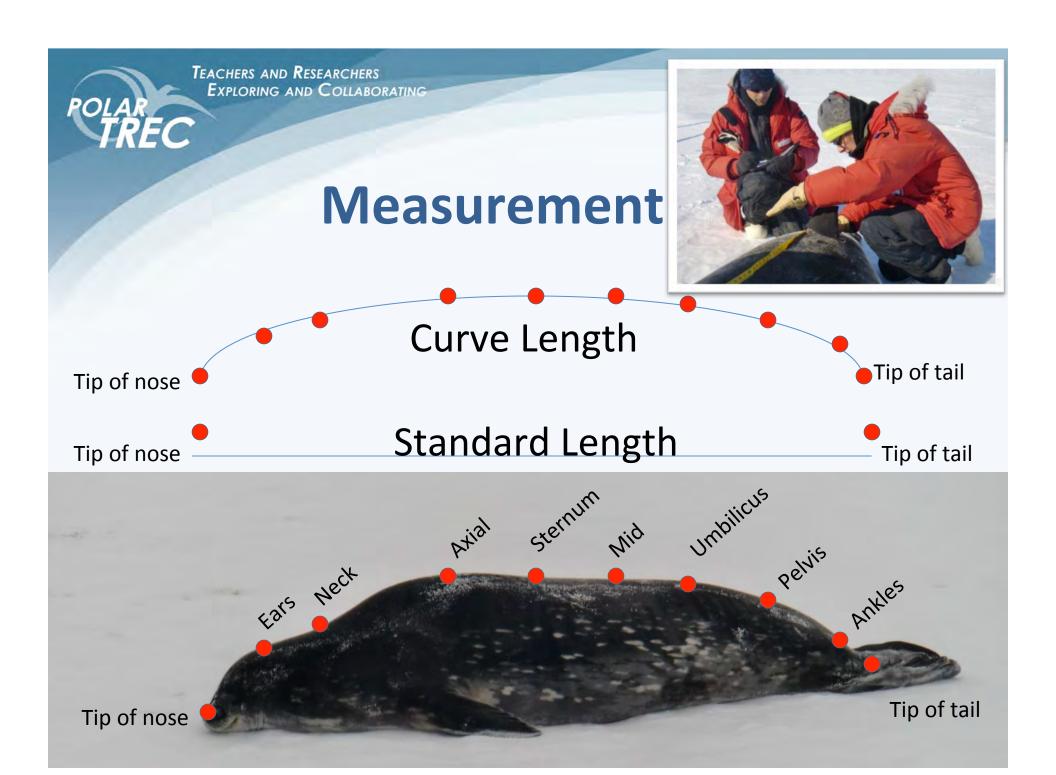








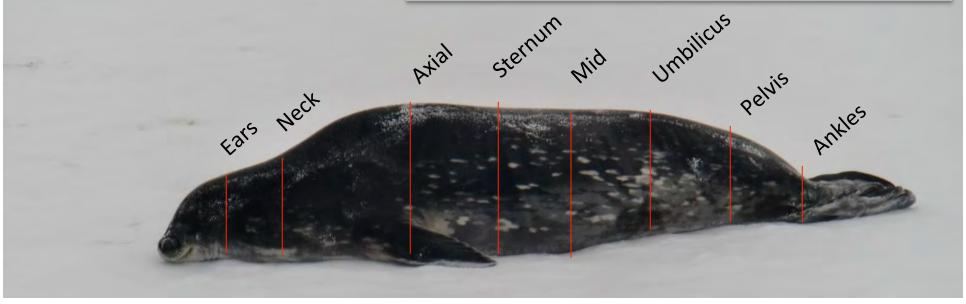
Weight





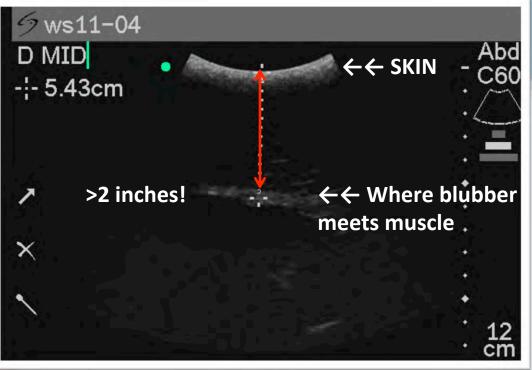
Measurement Girth











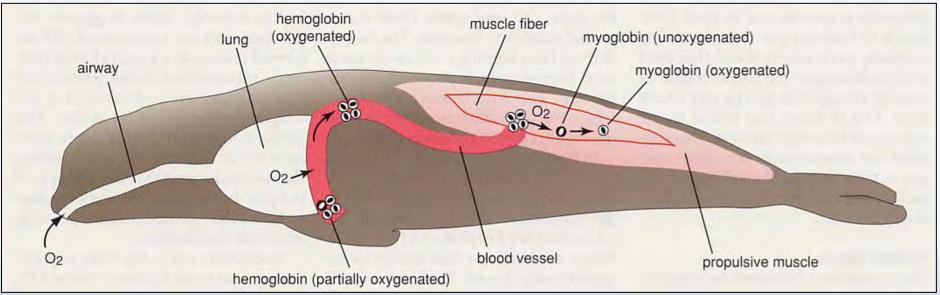
nches

Measures blubber thickness



Collecting Blood





Measures the amount of oxygen in blood







Oxygen and fiber types

Muscle Biopsy





Analysis of lipids

Blubber samples







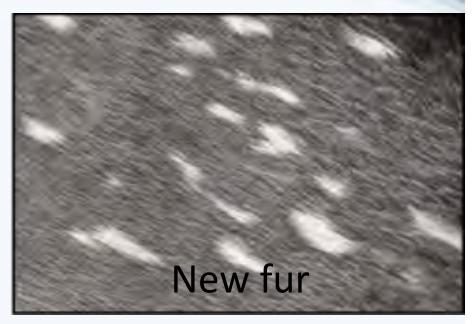
Diet -Whiskers







Diet - Fur



New fur $\rightarrow \rightarrow$

Old fur $\rightarrow \rightarrow$







Tagging

ID tags –
Go on hind
flippers







Glued on middle of back.

VHF Tag





TEACHERS AND RESEARCHERS
EXPLORING AND COLLABORATING

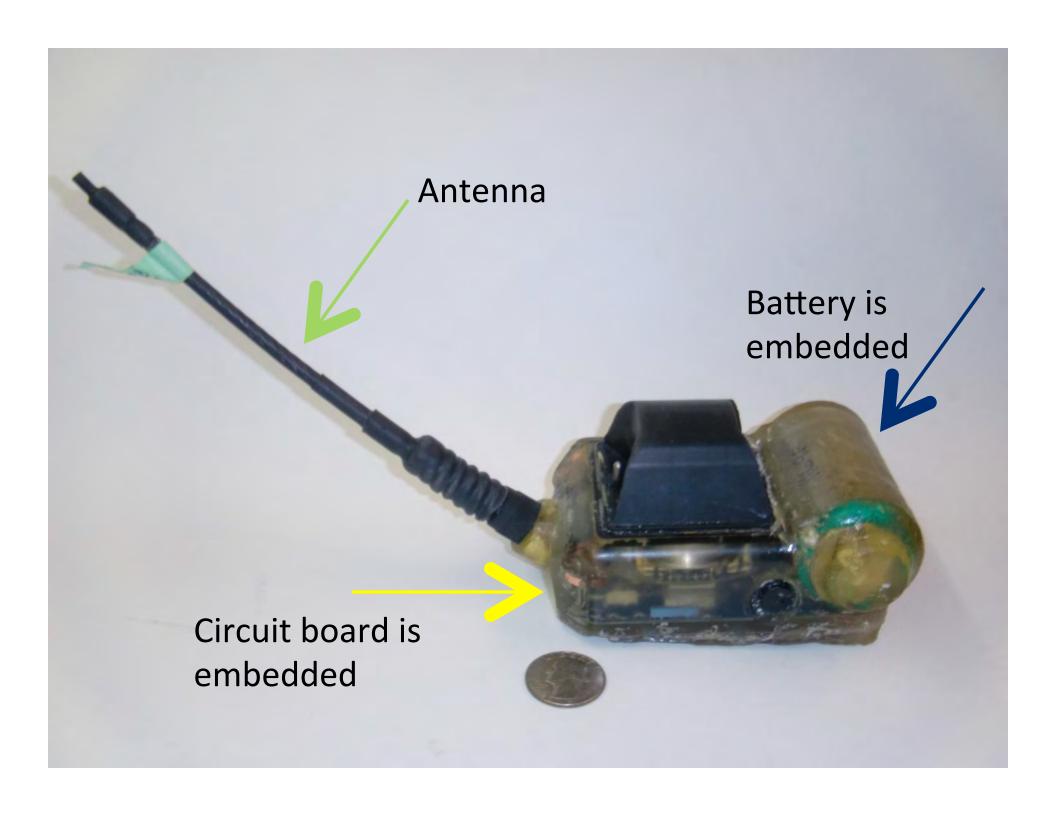


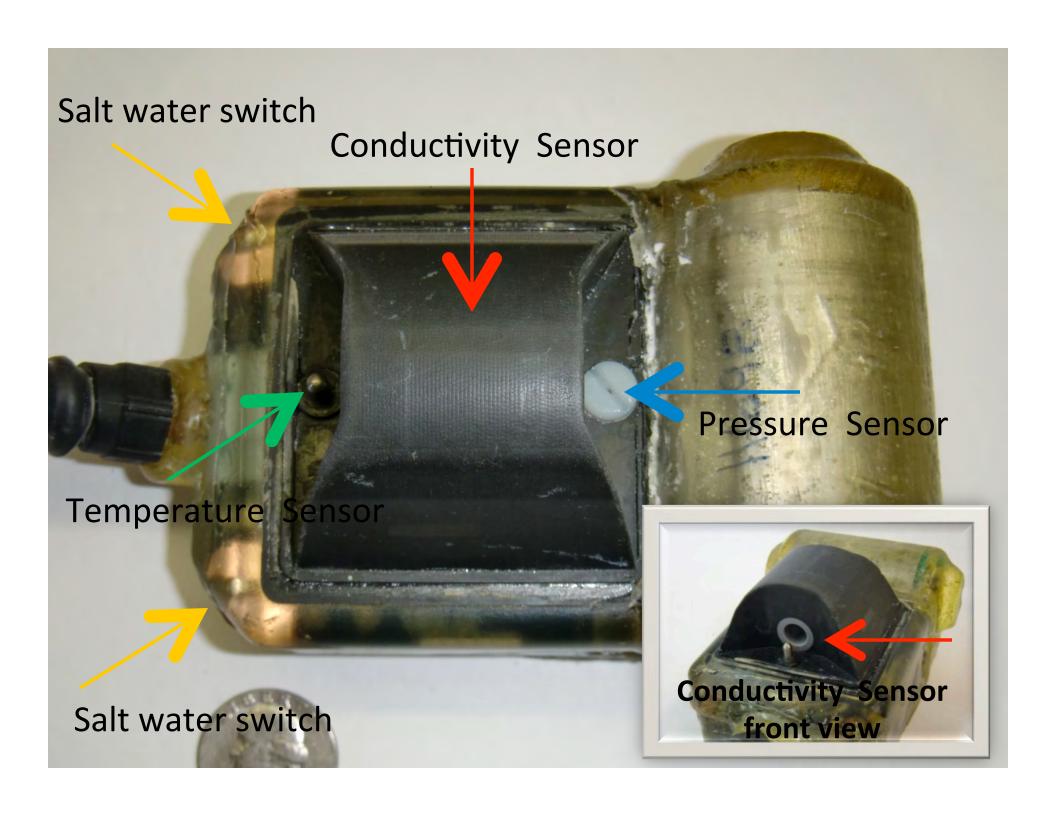
Satellite Tag

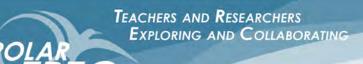


Glued on top of head.









And the data collection begins...





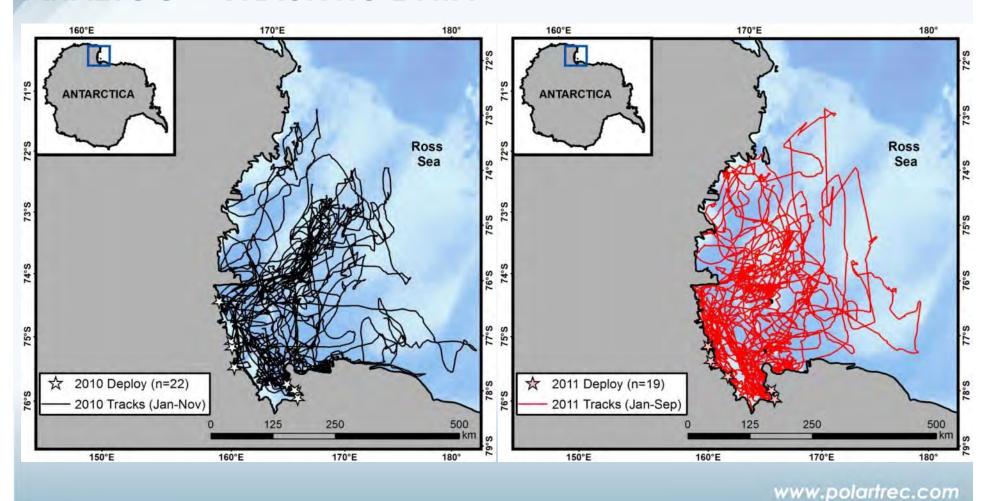
What the Scientists are learning...





What the Scientists are learning...

ANALYSIS – TRACKING DATA



QUESTIONS???