

Welcome to **PolarConnect**

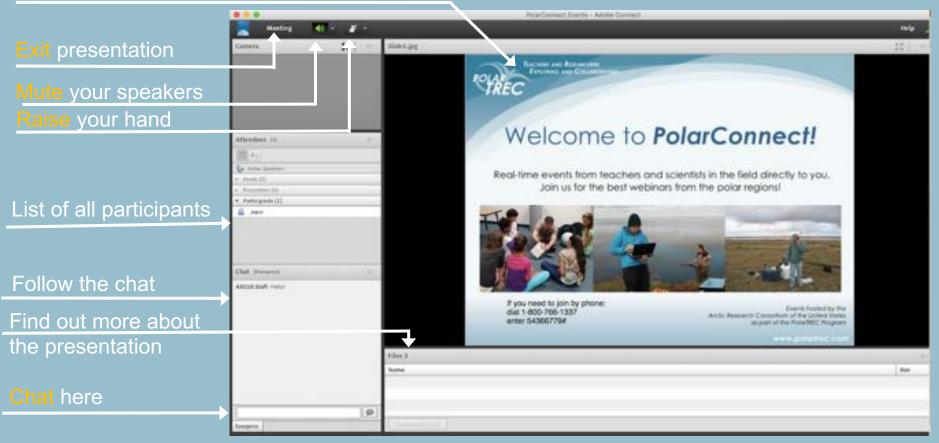


Jellyfish in the Bering Sea With PolarTREC Teacher Lee Teevan & Team Researcher Mary Beth Decker Thursday, 3 August 2017

www.polartrec.com

Getting to Know Adobe Connect

Slides will be shown here





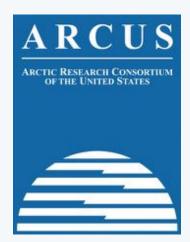
Participant Introductions

In the Chat box, please introduce yourself by typing in your:

- ✓ Name
- ✓ School or Institution
- The number of students and adults participating with you in the same location

What is PolarTREC?

- Since 2004, the Arctic Research Consortium of the United States (ARCUS), a non-profit organization, has been administrating the PolarTREC Program.
- PolarTREC is professional development for K-12 teachers. They are paired with researchers for 2-6 week research experiences in the polar regions.
- Over 150 teachers from around the United States have joined 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.



25 Years of Connecting Arctic Research www.arcus.org

www.polartrec.com

Meet our Team!





Why is it important to study jellyfish?

- Recent major jellyfish blooms: what has caused these outbreaks?
- Some may have resulted from human activity: overfishing, species introduction and nutrient pollution.
- Some blooms may be natural occurrences



Northern Sea Nettle



Facts:

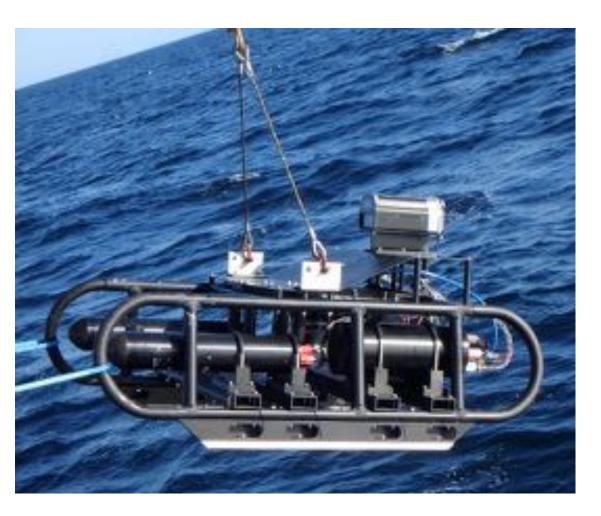
- Bell up to 2' across
- 24 tentacles, up to 40" long
 - Prey: Fish eggs Fish larvae Zooplankton Other jellies

Research Goals

- Understand population changes
- Measure rate of growth in a season
- Predict how jellyfish respond to changing ocean temperatures and fishing intensity



Using new technologies to study jellyfish

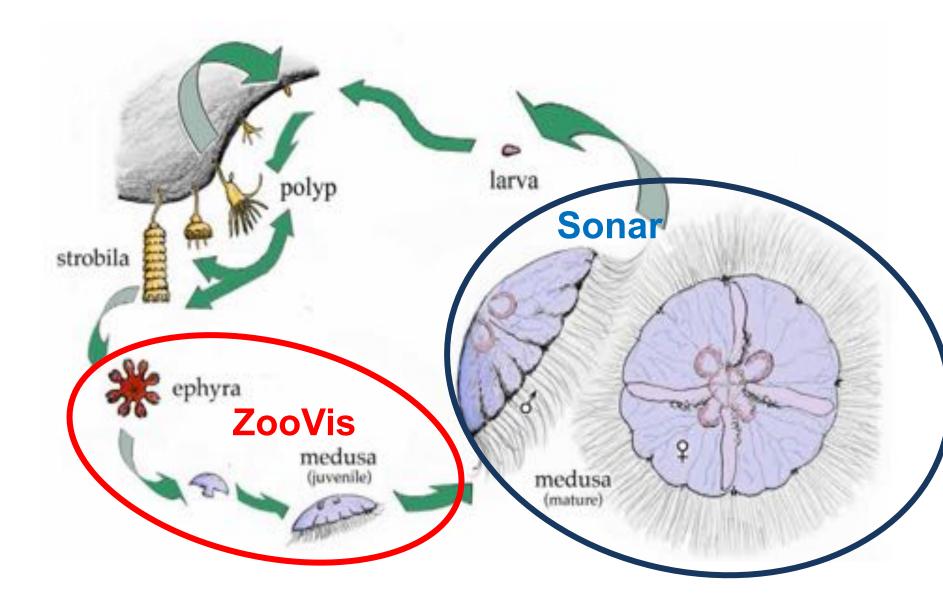


ZooVis: continuous observations of small jellyfish and plankton

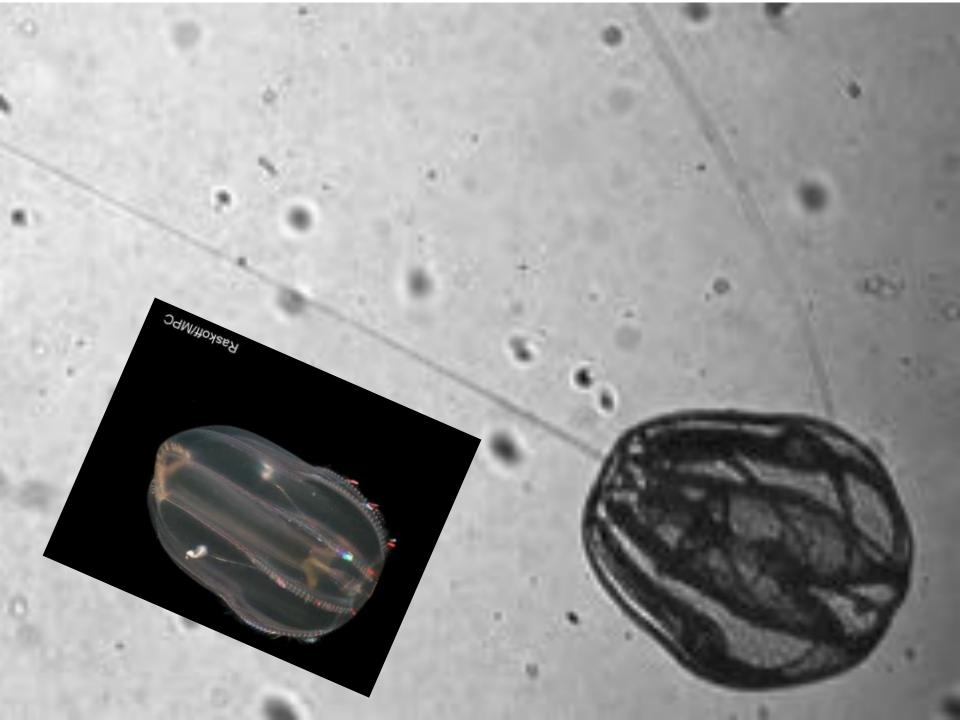
Sonar: observations of large jellyfish and fish

*Plankton nets to catch jellyfish & plankton

Typical Jellyfish Life Cycle



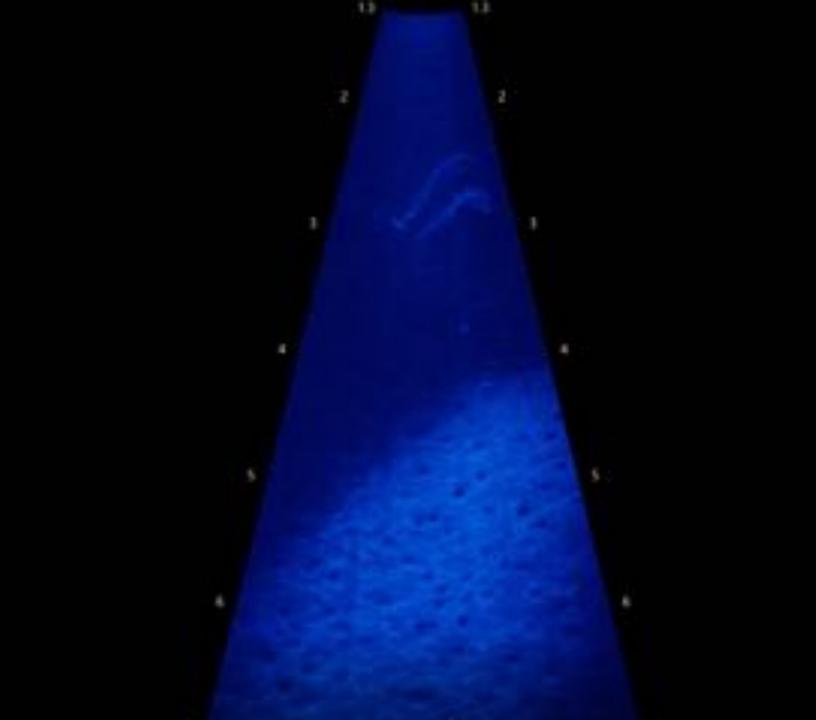
Modified from a Mike Dawson image







12 1



What's next?

- The preserved samples will be identified and counted.
- Using this information, scientists can estimate the abundance of each species at each station.
- These preserved samples will be compared to the ZooVis images to see how they match up.



Life Aboard the Oceanus



TV Room with never-ending zombie films playing.



Oceanus dining area



Wet Lab where sampling is done

Jellyfish in the Bering Sea

Follow us!

https://www.polartrec.com/expeditions/jellyfish-in-the-bering-sea





Questions

During the Presentation:

• Type your question in the text chat box

At the End of the Presentation, two options:

- 1. Type your question in the text chat box, or
- 2. Raise your hand with the "hand button".
- PolarTREC staff will call on you and activate your microphone.
- Speak loud and clear, directly into the computer microphone or the phone to ask your question.



Join PolarTREC!

www.polartrec.com/about/join

Everyone can participate in different ways:

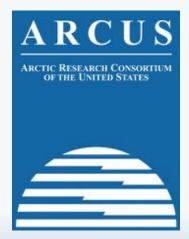
- Follow Expeditions
- Participate in PolarConnect Events
- Join the Polar Education Email List
- Check out the great resources
- Become a PolarTREC Teacher or Researcher
- Become a member of ARCUS



Thank You!

An archive of the event will be available shortly. http://www.polartrec.com/polar-connect/archive





25 Years of Connecting Arctic Research www.arcus.org

www.polartrec.com