



Welcome to Live from IPY!

With Sarah Diers and the
DOM team in Antarctica

Sarah Diers, PolarTREC
Dr. Christine Foreman, P.I., MSU
Dr. Yu-Ping Chin, Co-I., OSU
Dr. Diane McKnight, Co-I., CU
Dr. Birgit Sattler, Univ. Innsbruck
Dr. Mike San Clements, CU
Dr. Chip Kilduff, R.P.I.
Heidi Smith, MSU
Collin Ward, OSU



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Expedition: Dissolved Organic Matter in Antarctica



WELCOME TO WIMBA

Slides will be shown here

If using VOIP, press and hold here to talk

Your connection strength

'Chat' with one person or the entire group

Raise your hand to ask a question

List of all participants

Return to the lobby or exit

The screenshot shows the Wimba interface with several elements circled in red. On the left toolbar, there is a connection strength icon, a 'TALK' button, and a chat icon. On the right toolbar, there is an 'Exit - Lobby - Help' button. In the center, there is a 'People (3)' list showing participants: Kristin_Timm, kristina_creek, and Kristin_Timm. Below the list is a 'To:' field with 'Main Room' selected. The background features the ARCUS logo and the text 'ARCTIC RESEARCH CONSORTIUM OF THE UNITED STATES'.

Please note:

- Participant using the telephone can mute/unmute by pressing *6 on the phone.
- Today's event will be recorded and archived.

Roll Call

When called, please state your:

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



International Polar Year (IPY)

The International Polar Year (2007-2009) is an exciting scientific campaign focusing on the world's polar regions!

IPY is a time for discovery, science, learning, and awareness about the polar regions with activities for youth, scientists, and the public.

www.ipy.org



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 over 40 teachers from around the United States will join scientists in the Arctic and Antarctica in celebration of the International Polar Year!

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Dissolved Organic Matter in the Cotton Glacier, Antarctica

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The DOM Team



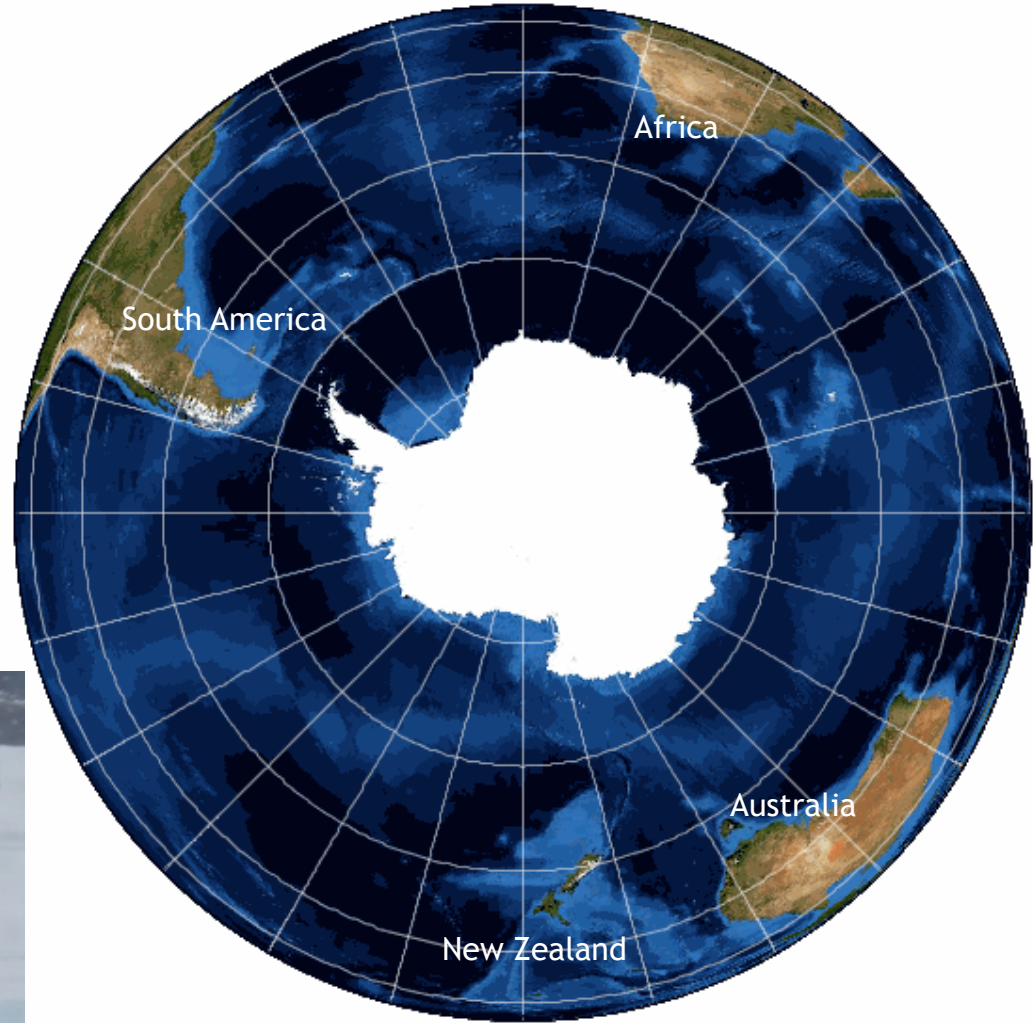
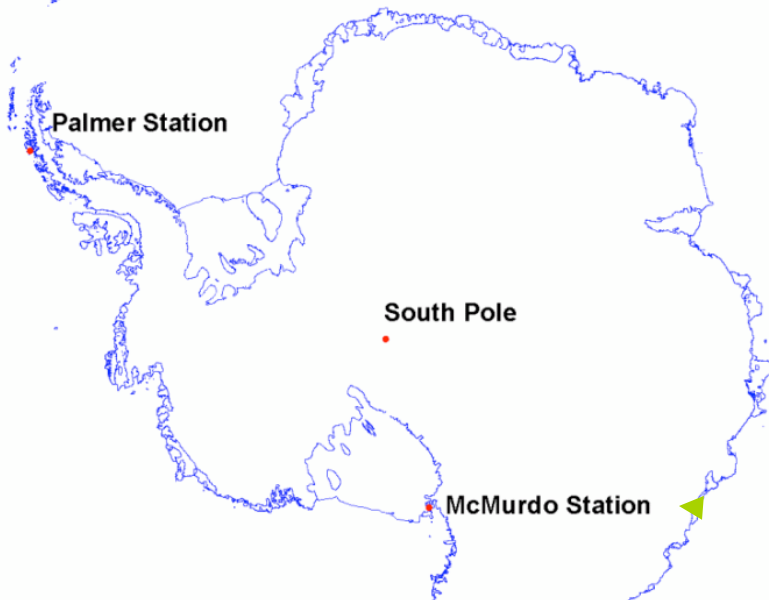
Not pictured- Yo, Chip, & Diane



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Where is Antarctica?

<http://www.usap.gov/USAPgov/sciencesupport/GIS/images/AntarcticPermStations.gif>



http://www.icsm.gov.au/mapping/images/globe_antarctica.gif

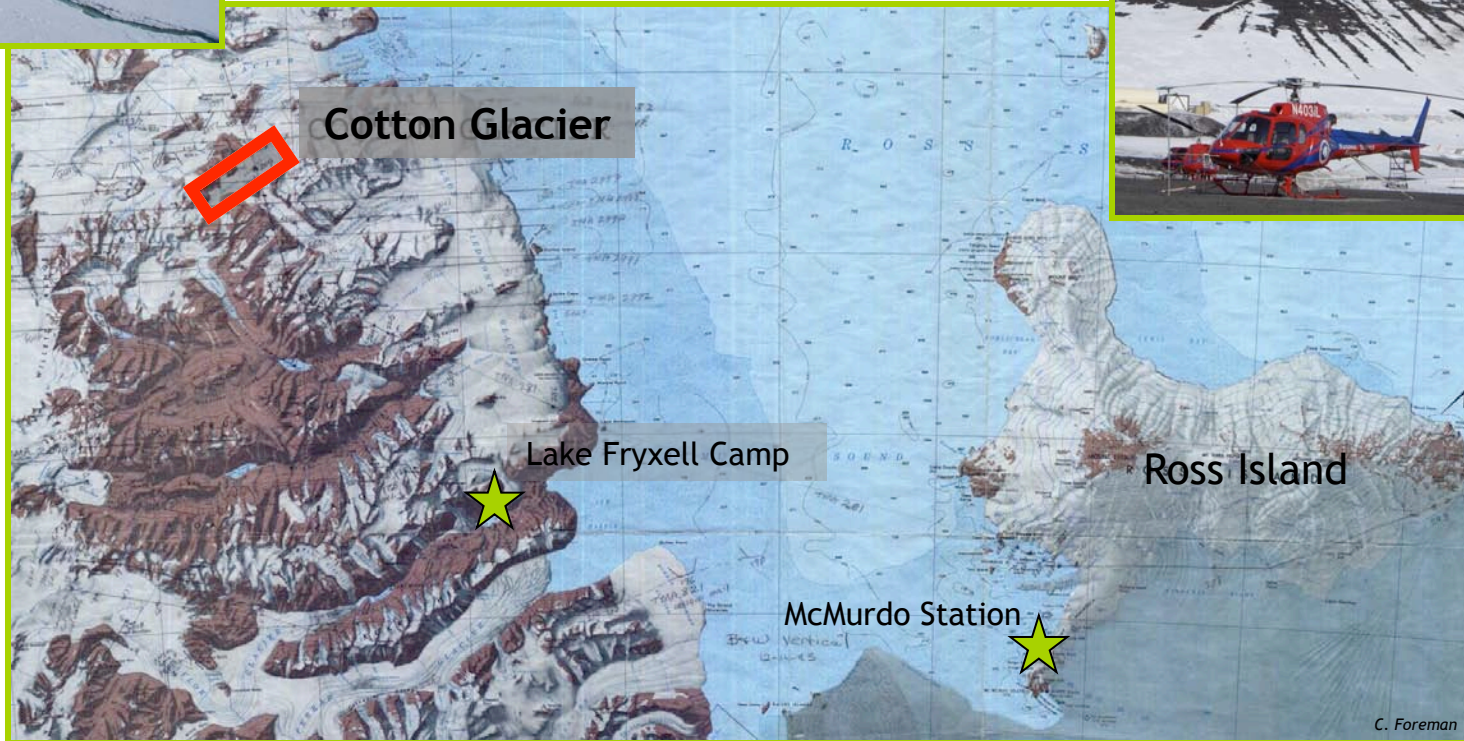


S.Diers



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Where are we?



To New Zealand



To South Pole



Lake Fryxell Camp



S. Diers



C. Foreman



C. Foreman



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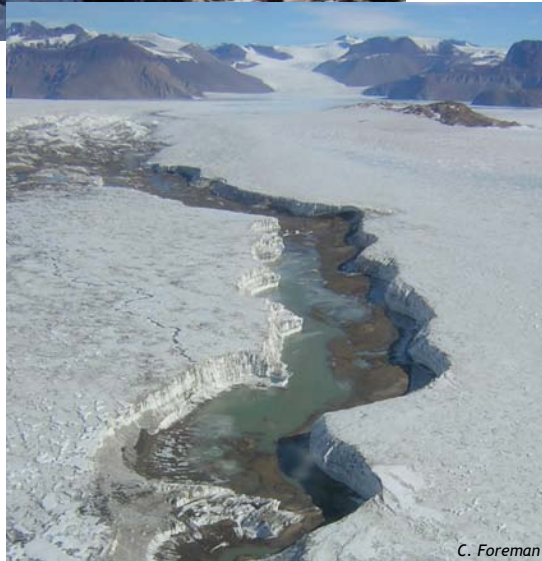
Cotton Glacier



What are we studying?



S. Diers



C. Foreman

- The BIG Idea:
 - The relationship between bacteria living in liquid water within the Cotton Glacier, Antarctica and the dissolved organic matter (DOM) they rely upon for food and nutrients.
- To do this the DOM team will:
 - Compare collections of DOM and bacteria collected from streams at the base of the glacier and from “surpraglacial” streams formed on top of the glacier.



Global Climate Change



S. Diers

- How will DOM and carbon locked in glaciers respond to global climate change?



Research Methods

- Field- Cotton Glacier & Lake Fryxell
- McMurdo- Crary Lab

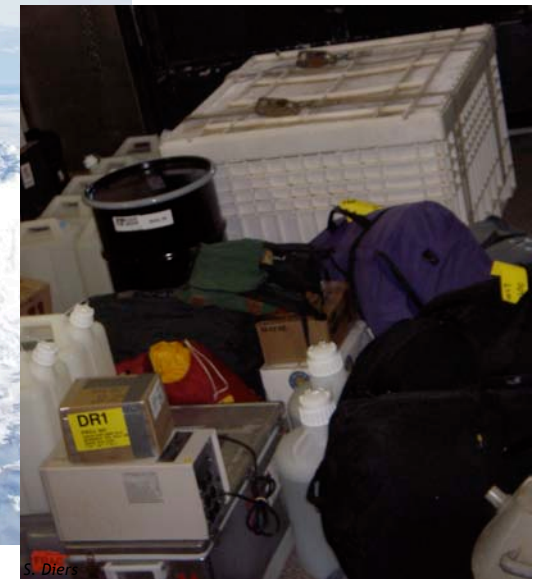


Chemical
&
Biological
Sampling



Preparations for Camp

Happy Camper School, ATV Training, lots & lots of trips to the BFC, Helicopter Training, and plenty of organizing and packing of gear and equipment!



Preparation of Lab



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WE WELCOME YOUR QUESTIONS!

Feel free to ask them now
or post a question to “Ask The Team”
on the DOM PolarTREC website!

www.polartrec.com/dissolved-organic-matter-in-antarctica

Thank you for joining our webinar.
Keep on following the DOM team’s adventures!



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Antarctic Animals!



S. Diers



S. Diers



S. Diers





Register for Upcoming Live Events at :
[www.polarartrec.com!](http://www.polarartrec.com)

Thank You!

The archive of this event will be available shortly at: www.polartrec.com!

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

