



National Science Foundation IPY Research and Funding Priorities



- Understanding Environmental Change in Polar Regions



- Human and Biotic Systems in Polar Regions

- Education and Public Outreach



Exploring the IPY with NOAA



National Science Foundation International Polar Year



- Informal Science Education
- Undergraduates, graduates, and K-12 teachers, including Alaska Native undergraduates
- K-12 teachers in polar research experiences
- Teacher professional development and curriculum resources about IPY and polar science
- Total funding: \$9.3 million



Exploring the IPY with NOAA



Formal Science Education



Polar TREC – Field experiences for K-12 educators to join research teams in the polar regions and communicate the experience to K-12 students and communities, invigorate science teaching, and mentor other teachers to foster hands-on science teaching practices
www.polartrec.com

Expedition 2 – Sedna Arctic sea ice study is underway



Exploring the IPY with NOAA

Expedition 1 – Oden



Exploring the IPY with NOAA

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Navigation

- ▼ Virtual Base Camp
 - ▼ Oden Expedition
 - Read Journals
 - Ask Questions
 - Photo Gallery
 - Calendar
 - Past Expeditions

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Upcoming Events

- no upcoming events available

[more](#)**Photo Gallery****Random Image****Dec. 27 McMurdo Station - Old Friends and Science****Dec. 27 McMurdo Station - Old Friends and Science**

Allan Miller
Author

We reached McMurdo Station at about 10 AM and only had four hours until we had to gather ourselves at the transport center to catch a ride out to Willy Field - the ice runway. As I look back it might be the richest four hours of the entire trip - full of sights and sounds that I'll never forget. This was the first face to greet me at McMurdo -



Yes this is a local showing me what a real beard looks like! It's also Erik Boraas from Soldotna, Alaska - he had been in my Russian classes and skied on the cross country ski team that I coached back in the mid-90's at Skyview High School. My legs still ache from the day he skied over 100 km in our skiathon to outdo me by about 2 km! He's working this summer season at McMurdo as a general laborer (do it all guy) for Raytheon Polar Contracting. He met our helicopter to say "hi" and then we had a chance to catch up over lunch - imagine traveling that far and being surprised by a friend - it was awesome!

Teleconferences with classrooms



The Oden team connected with
27 different schools
18 states
US, Sweden and Chile
over 400 students
grades 1-12





Teachers' Domain – Online
teaching resource library capturing new
and existing IPY science materials
(video, animations, content) for use in
classrooms, addressing national science
education standards with current polar
research WGBH, Education Foundation

www.teachersdomain.org

teachers'domain[®] Multimedia Resources for the Classroom
and Professional Development



Exploring the IPY with NOAA



Expedition 1 - North Pole "Borneo" Ice Camp April 18-28

Live from the Poles — brings together science centers, museums, libraries and school with live presentations from expeditions, audio and video podcasts, and additional resources

Woods Hole Oceanographic Institution

<http://polardiscovery.whoi.edu>



Exploring the IPY with NOAA

POLAR PLANET PALOOZA!

3 components:

1. Hi-Def Video Science Story Capture Corps
2. Podcasts, vodcasts, blogs
3. "Stories of a Changing Planet" national tour



Exploring the IPY with NOAA

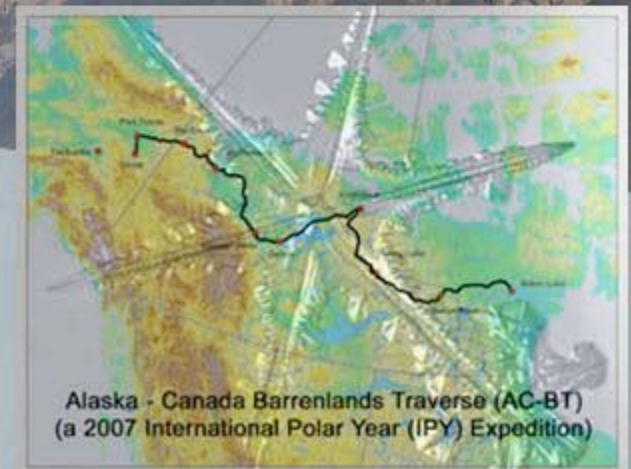


Snowstar 2007 – snowmachine traverse
from Fairbanks, Alaska to Hudson Bay. Five
scientists linking with schools and students
through the Internet. Enroute today!

<http://www.barrenlands.org>



Exploring the IPY with NOAA



International IPY website www.ipy.org

Address  <http://www.ipy.org/>



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Ice Arch © BAS | [Enlarge Image](#) | [Go To Gallery](#)

WHAT IS IPY?

The International Polar Year is a large scientific programme focused on the Arctic and the Antarctic from March 2007 to March 2009. [Learn more about IPY.](#)

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HIGHLIGHTS



[ANDRILL - Geological Drilling in Antarctica](#)



[Virtual balloons for IPY](#)

On March 1, hundreds of schools conducted ice experiments. See where. [More...](#)



[IPY in Google Earth](#)

Learn more about IPY projects using Google Earth [More...](#)

International IPY website www.ipy.org

http://www.ipy.org/

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NEWS & ANNOUNCEMENTS

- » [New issue of IPY IPO Newsletter now available](#)
Nicola Munro, Mar 29, 2007
- » [Exploratorium Webcast with the South Pole: Celebrating the International Polar Year](#)
Nicola Munro, Mar 29, 2007
- » [Thinning of West Antarctic Ice Sheet Demands Improved Monitoring](#)
Nicola Munro, Mar 29, 2007
- » [Announcement of PhD grant in Polar Sciences for vegetation and permafrost studies in Antarctica](#)
Nicola Munro, Mar 28, 2007
- » [Live webcast today, March 27, Breaking-The-Ice - Conference - Prospects of the Transarctic Route](#)
Arctic Portal, Mar 27, 2007
- » [India announces new IPY outdoor activities](#)
Nicola Munro, Mar 26, 2007
- » [Extended deadline for 2nd International Neumayer-Symposium on Polar Research](#)
Nicola Munro, Mar 23, 2007
- » [More...](#)

IPY BLOGS

- » [ANDRILL - Geological Drilling in Antarctica](#)
International Polar Foundation, Mar 29, 2007
- » [Recording changes in Arctic daylight](#)
Juanita Urban-Rich, Mar 28, 2007
- » [Sneak preview of Ice Station Antarctica](#)
Alex Gaffikin, Mar 26, 2007
- » [Discovering sediment transport on the ocean floor with thorium 230](#)
Polarstern Expedition, Mar 26, 2007
- » [Frozen Five Expedition starts this Thursday!](#)
IPY Youth, Mar 26, 2007
- » [Filming Early Career Scientists on the Ice](#)
Early Career Polar Scientists, Mar 21, 2007
- » [Svalbard: Part 1](#)
Svalbard Students, Mar 21, 2007
- » [More...](#)

Read all of 'Live webcast today, March 27, Breaking-The-Ice - Conference - Prospects of the Transarctic Route'

FRIENDS OF IPY

- » [IPY: When the ice quakes](#)
Far North Science, Mar 29, 2007
- » [The show is on!](#)
Frozen Five, Mar 29, 2007
- » [Tundra Traverse: trailing the Mad Trapper](#)
Far North Science, Mar 28, 2007
- » [Of sharks, seals and ocean perch](#)
Far North Science, Mar 28, 2007
- » [Communicating with the F5](#)
Frozen Five, Mar 28, 2007
- » [The time has come...](#)
Frozen Five, Mar 28, 2007
- » [Media Watch: Catalog people and outdoor chic](#)
Far North Science, Mar 28, 2007
- » [More...](#)

U.S. and NSF IPY website www.ipy.gov

http://www.ipy.gov/

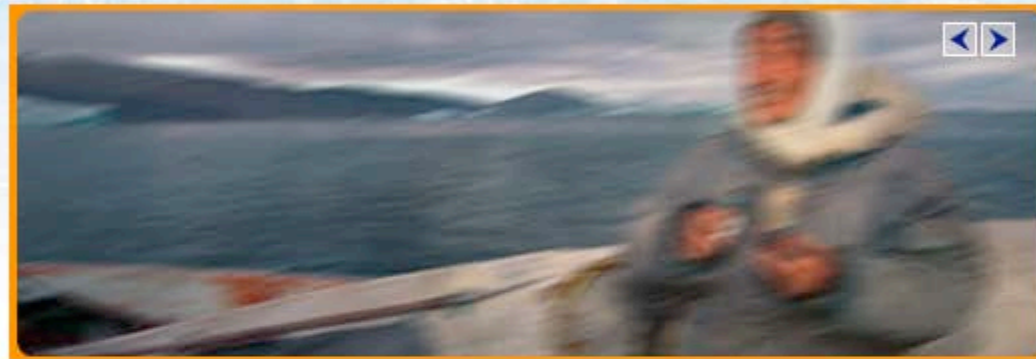
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IPY 2007-2008 International Polar Year

SEARCH

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Life at the poles
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- ❖ **News & Events**
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meetings, & more
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- ❖ **U.S. Participants**
 - Gov't Agencies and Orgs
 - Logistics Organizations
 - Funded Research
 - Funding Opportunities
- ❖ **Resources**



News

3/29/2007 University of Alaska Fairbanks Scientist to Lead Arctic Sea-Ice Expedition [More >](#)

3/27/2007 Dust in Antarctic Ice Reveals Important Climate Clues [More >](#)

3/2/2007 Massive South Pole Telescope Completed: Will Investigate Origins, Composition of the Universe [More >](#)

[All News](#)



[Exploratorium South Pole IPY Live Webcast March 30](#)

3/29/2007 In the latest in a series of live Webcasts, educators at the Exploratorium, the San Francisco science museum, will connect with Amundsen-Scott South Pole Station at 10:30 p.m. PDT on March 30, 2007. They'll talk about IPY history and converse with scientists preparing a new 10-meter telescope to begin its observations. [More >](#)



[Unique New Survey Gauges Arctic Indigenous People's Views on Living Conditions](#)

3/21/2007 According to a unique, newly released survey of indigenous

What Can Educators Do?

Explore at least one of these resources

Find a way to include a polar perspective in
some aspect of your curriculum

Share your great ideas with others

