Resources

“Asking the Auks about Climate Change in the Arctic”
Lecture, May 28, 2009

WEBSITES
AUD = includes audio, VID = includes video, ANI = animation

Our Speaker for Thursday, May 28, 2009
Dr. Nina Karnovsky, Pomona College
www.biology.pomona.edu/people/faculty/karnovsky.shtml

Recorded lecture by Dr. Nina Karnovsky, April 20, 2007 VID
“Asking the Auks about Climate Change in the Arctic”
cdlib.libraries.claremont.edu/cdm4/item_viewer.php?CISOROOT=/cdl&CISOPTR=9

Blog about Dr. Karnovsky’s Arctic research
ARCTIC AUKS: The impact of climate conditions on Arctic marine predators
projects.pomona.edu/arctic/

Blog about current student research in the Karnovsky lab
research.pomona.edu/karnolab

Little Auks
Little Auks as Marine Predators in a Changing Arctic
polar.alaskapacific.edu/aharding/lampca.html

Hear audio of the little auk AUD
Royal Society for the Protection of Birds (RSPB)
www.rspb.org.uk/wildlife/birdguide/name/l/littleauk/

Little Auk information from the Norwegian Polar Institute
npweb.npolar.no/english/1213016681.33

The Arctic
Information on the island archipelago Svalbard
en.wikipedia.org/wiki/Svalbard

Norwegian Polar Institute
Fact Sheet: Threats to Arctic Biodiversity: Climate change impacts on sea mammals & sea birds
npweb.npolar.no/english/subjects/biodiversitythreats

Arctic Literally On Thin Ice, According To New Satellite Data, ScienceDaily
(4/6/09)
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Overview of research in Arctic and Antarctic - National Science Foundation
nsf.gov/news/overviews/arcticantarctic/index.jsp

Earthwatch Radio **AUD**
  
  **Stratospheric Surprise**
  Solar storms created a big surprise in the Earth’s upper atmosphere.
ewradio.org/program.aspx?ProgramID=3997

  **Too Far To Swim**
  Polar bears in parts of the Arctic are on thin ice, and sometimes they’re not on ice at all.
ewradio.org/program.aspx?ProgramID=4345

  **Strange Behavior by Polar Bears**
  Some polar bears have turned to cannibalism to eat, and that’s an unusual turn of events.
ewradio.org/program.aspx?ProgramID=4320

  **Big Changes in the Far North**
  People in the Arctic are watching their world change dramatically.
ewradio.org/program.aspx?ProgramID=4361

NOAA’s Arctic Webpage
www.arctic.noaa.gov/

Arctic: A Friend Acting Strangely
Smithsonian National Museum of Natural History
forces.si.edu/arctic/

Arctic Climate Impact Assessment (ACIA), 2004
amap.no/acia/

**Arctic vs. Antarctic**
Adventure Life: Antarctic and Arctic Comparison
Adapted from: United States National Science Foundation. The United States in Antarctica:

National Snow & Ice Data Center (NSIDC)
All About Sea Ice – Characteristics: Arctic vs. Antarctic
nsidc.org/seaice CHARACTERISTICS/difference.html

Autosub Under Ice, lectures on exploration **VID** & polar ice advance & retreat
ANI
mm.coexploration.org/video/autosub/bbflv/
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National Geographic – Weather in Arctic and Antarctic Regions

International Polar Year (IPY) 2007-2008
International Polar Year
Profiles of scientific research conducted from March 2007 to March 2009
www.ipy.org/

International Polar Year – United States website
www.ipy.gov/

International Polar Year – USGS website
international.usgs.gov/ipy/default.shtml

The FIRST International Polar Year – NOAA website
See the records of the first IPY!
www.arctic.noaa.gov/aro/ipy-1/
view or download data here:
www.arctic.noaa.gov/aro/ipy-1/Data-P1.htm

For Teachers
PolarTREC (Teachers & Researchers Exploring & Collaborating)
Teachers participating in Arctic Research
www.polartrec.com/
Chico junior high school teacher who participated in little auk research
www.polartrec.com/greenland-seabird-ecology

Teachers Experiencing Antarctica and the Arctic
tea.armadaproject.org/tea_activities.html

Lesson Plans and Resources
Lesson plans grade 3-9 from Polar Radar Ice Sheet Measurements (PRISM)
ku-prism.org/resources/polar/arclessons.html

Little Auk Survival Challenge Lesson (elementary)
www.polartrec.com/resources/lesson/2016

Carbon Dioxide: The Heat is On! Lesson (high school)
tea.armadaproject.org/activity/tea_activity_heat_is_on.html
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National Science Foundation Arctic and Antarctic Classroom Resources
nsf.gov/news/classroom/arcticantarctic.jsp

Online Interactive Arctic food web
www.harcourtschool.com/activity/food/arctic_activity.html
Arctic Alive Lesson Plans
www.arcus.org/ArcticAlive/classroom/content/lessons.html

Lesson Plans from ARM (Atmospheric Radiation Measurement) and (ACRF) Education and Outreach Program
education.arm.gov/teacherslounge/lessons.stm

NOAA Ocean Explorer – Arctic Exploration
oceanexplorer.noaa.gov/explorations/02arctic/background/education/media/arctic_lessonplans.html

BOOKS

Reading levels [P = Primary (K–2); E = Elementary (3–5); I = Intermediate (6–8); A = Advanced (9–12)] are provided by the reviewers. They are intended as guidelines and are not meant to limit the potential use of titles.


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Alaska is the “Land of the Midnight Sun.” This beautiful and intriguing book portrays arctic animals and weather throughout the changing seasons. Each two-page spread features a different time of year, complete with the total number of sunlight hours and average daily temperatures. Author’s Note, Glossary.


Looking for Seabirds: Journal from an Alaskan Voyage. Written and illustrated by Sophie Webb. Houghton Mifflin Company. 48pp. Trade ISBN 0-618-21235-3, $16. (I) Using the format of a scientist’s notebook, the author describes how she worked with researchers to understand the birds that inhabit the Aleutian Islands of Alaska. The author looks at how these birds survive and the importance of understanding the possible impact of human activities on the Arctic marine ecosystem. Glossary.