Resources
COSEE-West
Ecological Responses of Antarctic Krill

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

Our Speakers for Wednesday, March 21 & Saturday, March 24, 2007
Dr. Robin Ross, UCSB
http://passporttoknowledge.com/scic/foodwebs/researchers/robinross_bio1.html
She participates in the Palmer LTER (Long Term Ecological Research)
http://pal.lternet.edu/

Dr. William Hamner, Professor Emeritus, UCLA
http://www.eeb.ucla.edu/indivfaculty.php?FacultyKey=695

Krill

National Geographic: Krill Profile Page
(including photos of animals that are dependent on krill)
http://www3.nationalgeographic.com/animals/invertebrates/krill.html

National Geographic: Krill Swarm Seas by the Billions VID

National Geographic: Scientists Discover Mystery Krill Killer, July 2003

National Geographic: Tiny Krill Key to Ocean Turbulence, Sept 2006

Earthwatch Radio AUD
Krill Conservation
http://ewradio.org/program.aspx?ProgramID=3939
Melting Ice and Lost Meals
http://ewradio.org/program.aspx?ProgramID=3929

Antarctic Explorers – Teachers Experiencing Antarctica and the Arctic (TEA)

Antarctica

National Geographic: Antarctica Information and History
http://www3.nationalgeographic.com/places/continents/continent_antarctica.html

Antarctica, Biological Sciences Santa Barbara City College
http://www.biosbcc.net/ocean/AAindex.htm
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Woods Hole Oceanographic Institute (WHOI) Dive & Discover: Antarctic Ecosystem
http://www.divediscover.whoi.edu/ecosystem/index.html

National Geographic: Virtual Antarctica Critter Cam ANI
(there is also a link on this page to Virtual Arctic Critter Cam ANI)

Antarctic Connection: Wildlife of Antarctica

Free Use photos from CoolAntarctica.com

70 South “The Number One Source of Antarticles”
including: animals, islands, science, bases, and history of Antarctica
http://www.70south.com/resources/antarctic-animals/introduction

The United States Antarctic Program
http://www.nsf.gov/od/opp/antarct/usap.jsp

Teachers Experiencing Antarctica and the Arctic (TEA)
http://tea.armadaproject.org/

Virtual Antarctica

The World Factbook, CIA

Antarctica Global Warming

International Polar Year (IPY) 2007-2008

United States Portal for IPY
http://www.us-ipy.gov/
The History of IPY

Exploratorium, San Francisco celebrates International Polar Year VID
http://www.exploratorium.edu/poles/index.html
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Lesson Plans and Activities

National Geographic Xpeditions Lesson Plans (addressing Geog standards)
http://www.nationalgeographic.com/xpeditions/lessons/
K-2: A Vacation to the Polar Regions
3-5: Expedition to the Poles
6-8: What Do People Know About the Arctic and Antarctic?
9-12: Environmental Issues in the Polar Regions

NASA Quest: Live From Antarctica2 (archives)
http://quest.arc.nasa.gov/antarctica2/main/t_guide/activity_A1.html
including a lesson plan using krill data of Dr. Robin Ross:
“3.3 From Data to Death”
http://quest.nasa.gov/antarctica2/t_guide/activity_33.html

Classroom Antarctica (Australian Antarctic Division)

Construct an Antarctic food web online
http://www.gould.edu.au/foodwebs/antarctic.htm

Antarctic Marine Ecosystems
http://www.botos.com/marine/antarctic01.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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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. (l) 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.

Antarctic Ice. Jim Mastro and Norbert Wu. Illustrated with photographs by Norbert Wu. Henry Holt. 32pp. Trade ISBN 0-8050-6517-2, $16.95. (P) Beautiful photographs illustrate this description of life, both above and below the Antarctic ice, during the short Antarctic summer. Of significance is the focus on Antarctic food webs and the importance of phytoplankton and algae, which enhances the traditional description of seals, whales, and penguins. The content may be suitable for lower elementary grades as well as upper primary.

Antarctic Journal: Four Months at the Bottom of the World. Jennifer Owings Dewey. Illustrated by the author and with photographs. HarperCollins Children’s Books. 64pp. Trade ISBN 0-06-028586-9, $16.95; Library ISBN 0-06-028587-7, $16.89. (E) This eye-opening portrayal of an icy-cold adventure to one of the most forbidding, fascinating places on Earth carefully mixes amazing narratives, science facts, and colorful photographs that are sure to intrigue and inspire young explorers. A warm, thoughtful diary sharing the fears and wonders of the “last great wilderness on Earth.” Bibliography.
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Antarctica - cold, windblown, desolate? Sophie Webb dispels these stereotypes through her story of the study of AdÈlie penguins. Her book is a personal view of scientists at work explained through the unique webs and relationships of Antarctic animals. Webb’s diary and watercolors capture the AdÊlie penguin life history. Map, Glossary.

Independently and selectively compiled bibliography of books about the history of Antarctic exploration
http://www.scelder.org.uk/

VIDEOS

"Shackleton's Antarctic Adventure" NOVA 2001 Narrated by Kevin Spacey
http://main.wgbh.org/imax/shackleton/
Grade 7+ ; The DVD includes film quiz, and French & Spanish narration. "Shackleton’s Antarctic Adventure recounts the extraordinary true story of polar explorer Sir Ernest Shackleton’s 1914-1916 British Imperial Trans-Antarctic Expedition, which many consider "the greatest survival story of all time." This expedition has become a testament to heroism and human endurance, with all 28 men surviving nearly two years in the barren, frigid Antarctic when their ship, the Endurance, was caught in pack ice and eventually crushed."
Available online from http://shop.wgbh.org/ - $19.95

“Shackleton's Voyage Of Endurance” NOVA 2002
http://www.pbs.org/wgbh/nova/shackleton/
DVD includes printable materials for educators.
A few, new & used, are available from Amazon.com from $12.02.
One review: "This is the best account that I’ve seen regarding the voyage of the Endurance and its crew. It is the ultimate story of heroism, bravery, sacrifice and ultimately survival that has ever occurred. There are few men in the world like Ernest Shackleton and the men that accompanied him that possessed the leadership and skill to return from the icy hell that these men endured. This is a must see for everyone."