

**Tooth Walkers:
Uncovering the Archaeology of Alaska's Walruses
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A list of materials about this topic provided by Aldean Kilbourn,
Geophysical Institute Keith B. Mather Library



Internet Resources

GENERAL INFORMATION (ALL SITES ACCESSIBLE AS OF 25 JANUARY 2010)

Athropolis. Facts: Cold, Icy and Arctic. 2005.

<<http://www.athropolis.com/arctic-facts/fact-walrus-dive.htm>>.

Anderson, G. Marine Science: The Walrus. Revised 6 August 2007.

<<http://www.marinebio.net/marinescience/04benthon/arcwalrus.htm>>.

Day, Deborah. 2005. Bibliography on the History of Arctic Marine Science of the 20th Century. UC San Diego: Scripps Institution of Oceanography Archives.

<<http://www.escholarship.org/uc/item/5tm6q1qx>>.

Ekdale, E. 2006. *Odobenus rosmarus*, Walrus (On-line). DigiMorph: an NSF Digital Library at UT Austin. <http://digimorph.org/specimens/Odobenus_rosmarus/adult/>.

Hayssen, V. 2010. Cumulative Index for the Mammalian Species. American Society of Mammalogists.

<<http://www.science.smith.edu/departments/Biology/VHAYSSEN/msi/>>

Horton, J. How Walruses Work. Howstuffworks? online.

<<http://animals.howstuffworks.com/mammals/walrus6.htm>>.

Links with explanations; references listed at bottom of page.

It's Nature: On the Ice / walrus. 2009.

<<http://www.itsnature.org/ice/above-the-ice/walrus/>>.

Rausch, R. L. 1995. Francis Hollis Fay: 1927-1994, *Journal of Mammalogy*, Vol. 76, No. 4, pp. 1276-1281. <<http://www.jstor.org/stable/1382623>>.

Rosing, N. Giant of the Arctic Ice. National Geographic Magazine Online.

<http://ngm.nationalgeographic.com/ngm/data/2001/09/01/html/ft_20010901.4.html>.

See references and links at bottom of page for more reading material.

Sea World Education Department Resource.

<www.seaworld.org/animal-info/info-books/walrus/index.htm>.

General facts about the walrus as well as book suggestions for young readers.

University of Michigan Museum of Zoology.

<[Animaldiversity.ummz.umich.edu/accounts/odobenus/o._rosmarus\\$narrative.html](http://Animaldiversity.ummz.umich.edu/accounts/odobenus/o._rosmarus$narrative.html)>

Information about the walrus, including facts, photos, and explanations about its physical characteristics, geographic range, food habits, reproduction, behavior, habitat, economic importance to humans, and conservation.

Walrus. WEB Pages for Students; Saskatchewan Schools, Canada.

<<http://www.saskschools.ca/~gregory/arctic/walrus.html>>

Wiki: Walrus. <<http://wapedia.mobi/en/Walrus?t=7>>.

Check out the references listed at the bottom of the page.

Wikipedia/Walrus. <<http://en.wikipedia.org/wiki/Walrus>>.

Extensive bibliography at end of online article.



Book and Journal Resources

Albanov, V. I. In the Land of White Death. *National Geographic Adventure*.

November/December 2000. pp.121-132.

Chambers, Joseph James. 1999. Co-management of walrus in Alaska : the Eskimo Walrus

Commission and the U.S. Fish and Wildlife Service. maps. 96p.

Fay, F. H. Francis H. Fay collection, 1952-1975. University of Alaska Rasmuson Library Archives.

The Francis H. Fay collection consists of field notes, photographs, photographic transparencies and an unpublished manuscript. The field notes detail Fay's research, including not only his walrus research, but also his study of other Saint Lawrence Island fauna and his participation in village hunting activities. Fay also writes about day to day activities in Gambell and Savoonga, Alaska, and about the people he met and worked with. The photographs include people, activities, and landscapes taken on Saint Lawrence Island. Most of the pictures were taken in the 1950s in Gambell and Savoonga, and serve to illustrate Fay's field notes with images of his research activities, hunting experiences, and the people of Gambell and Savoonga. Many of the pictures include identifications.

Fifield, D. 2007. An Arctic tale, adapted by Donnali Fifield. Washington, D.C. : National Geographic.

159 p.

Dyke, A.S., Hooper, J., Harington, C.R., Savelle, J.M. 1999. The Late Wisconsinan and Holocene record of walrus (*Odobenus rosmarus*) from North America : a review with new data from Arctic and Atlantic Canada. *Arctic*, v. 52, no. 2, p. 160-181, ill., maps.

ASTIS record 44934

Fay, F.H. 1960. Carnivorous walrus and some Arctic zoonoses. *Arctic*, v. 13, no. 2, p. 111-122

ASTIS record 9840.

Fay, F. H. (1982) Ecology and biology of the Pacific walrus, *Odobenus rosmarus*. U.S. Dept. of the Interior, Fish and Wildlife Service (Washington, D.C)

Fay, F.H., Burns, J.J., Stoker, S.W. , Grundy, J.S. 1994. The struck-and-lost factor in Alaskan walrus harvests, 1952-1972. *Arctic*, v. 47, no. 4, p. 368-373, 1 map. ASTIS record 35056

Hirschmann, Kris. 2003. The Walrus. San Diego, CA: Kidhaven Press. 48 p.

Examines the mighty marine mammals and their oceanic lifestyle. Topics include walrus anatomy, homes, social structure, migration, hunting techniques, and life cycle.

Jay CV, Outridge PM, Garlich-Miller JL. 2008. Indication of two Pacific walrus stocks from whole tooth elemental analysis. *Polar Biology*, 31(8):933-943.

Knudtson, P. 1998. The World of the Walrus. San Francisco, CA: Sierra Club Books.

- Krupnik I, Ray G.C. 2007. Pacific walruses, indigenous hunters, and climate change: Bridging scientific and indigenous knowledge. *Deep-Sea Research Part II, Topical Studies in Oceanography*, 54(23-26):2946-2957.
- Lindqvist C, et al. 2009. The Laptev Sea walrus *Odobenus rosmarus laptevi*: an enigma revisited. *Zoologica Scripta*, 38(2):113-127.
- Margolis, H. S., J.P. Middaugh, R. D. Burgess. 1979. Arctic Trichinosis: two Alaskan outbreaks from walrus meat. *The Journal of Infectious Diseases*, Vol. 139, No. 1, pp. 102-105.
<<http://www.jstor.org/stable/30110622>>.
- Merrill, T. E. 2008 The status of pacific walrus (*Odobenus rosmarus divergens*) foraging habitat and diet around St. Lawrence Island. Thesis, M.S. U of A Fairbanks.
- Nielsen, O., Nielsen, K., Stewart, R.E.A. 1996. Serologic evidence of *Brucella* spp. exposure in Atlantic walruses (*Odobenus rosmarus rosmarus*) and ringed seals (*Phoca hispida*) of arctic Canada. *Arctic*, v. 49, no. 4, p. 383-386, 1 map. ASTIS record 39756
- Outridge, P.M., Davis, W.J., Stewart, R.E.A., Born, E.W. 2003. Investigation of the stock structure of Atlantic walrus (*Odobenus rosmarus rosmarus*) in Canada and Greenland using dental Pb isotopes derived from local geochemical environments. *Arctic*, v. 56, no. 1, p. 82-90, ill., maps.
ASTIS record 51384
- Outridge, P.M., Hobson, K.A., McNeely, R., Dyke, A. 2002. A comparison of modern and preindustrial levels of mercury in the teeth of beluga in the Mackenzie Delta, Northwest Territories, and walrus at Igloolik, Nunavut, Canada. *Arctic*, v. 55, no. 2, p. 123-132, ill. ASTIS record 49614
- Perry, R. 1967. *The World of the Walrus*. Taplinger Publishing Company.
- Pryaslova JP, Lyamin OI, Siegel JM, Mukhametov LM. 2009. Behavioral sleep in the walrus. *Behavioural Brain Research*, 201(1):80-87.
- Ray, G. Carleton. Learning the ways of the walrus. *National Geographic*, October 1979, pp.564-580.
- Reijnders, P. et al. 1993. Seals, Fur Seals, Sea Lions, and Walrus, Status Survey and Conservation Action Plan. IUCN/SSC Seal Specialist Group. Available through Google Books search, see p. 35
<<http://tinyurl.com/y8hn6oz>>.
- Rijkelijhuizen M. 2009. Whales, walruses, and elephants: artisans in ivory, baleen, and other skeletal materials in seventeenth- and eighteenth-Century Amsterdam. *International Journal of Historical Archaeology*, 13(4):409-429.
- Robards, Martin D. 2008. Perspectives on the dynamic human-walrus relationship. Thesis, Ph. D., University of Alaska Fairbanks.
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- Ryan B. 2009. Swimming mode inferred from skeletal proportions in the fossil *Pinnipeds Enaliarctos* and *Allodesmus* (*Mammalia, Carnivora*). *Journal of Mammalian Evolution*, 16(2):77-97.
- Rybczynski N, Dawson MR, Tedford RH. 2009. A semi-aquatic Arctic mammalian carnivore from the Miocene epoch and origin of Pinnipedia. *Nature*, 458(7241):1021-1024.

Vlessides, Michael. 2000. In search of the tooth walker. *International Wildlife*, Vol. 30, #6; p36.



Video and Electronic Resources

Evans, Kattie. 2007. Arctic tale [videorecording]. A National Geographic Films production ; [presented by] Paramount Classics ; produced in association with Visionbox Pictures ; co-producers, Kattie Evans, Chris Miller ; produced by Adam Leipzig, Keenan Smart ; narration written by Linda Wolverton and Mose Richards and Kristin Gore ; directed by Adam Ravetch & Sarah Robertson. Hollywood, CA: Paramount Home Entertainment. 86 min.).

Filmed over fifteen years, Arctic tale follows a polar bear cub and a walrus pup as they learn to survive in the wild and face increasing challenges.

Ravetch, Adam. 1997. Toothwalkers : giants of the Arctic ice [videorecording], New York: Thirteen/WNET. Originally broadcast as part of the Nature series on PBS. For Nature: executive producer, Fred Kaufman ; executive editor, George Page ; narration written by Susane Lee ; music by Michael Whalen. For Sarah Robertson & Great North Productions: executive producers, Jonathan Grupper, Andy Thompson and Bernard MacLeod ; directed by Adam Ravetch ; written and produced by Sarah Robertson. a Sarah Robertson & Great North Productions, Inc. production in association with Thirteen/WNET, Discovery Channel Canada, Docstar, and Canal D, with the assistance of The Canada.

A close look at the arctic walrus and other arctic animals including polar bears, narwhals, bowhead whales, and Greenland sharks that are encountered on a traditional Inuit walrus hunt.

Rose, Roger. (2008) Growing up Arctic [videorecording]. [Silver Spring, MD] : Discovery Communications LLC ; Santa Monica, CA : Distributed by Genius Entertainment, [2008] 1 videodisc (126 min.).

Follow four of the Arctic's greatest animals as they grow in their first year of life: a surviving polar bear cub, an endangered penguin chick, an orphaned baby walrus, and a stranded baby seal.



Teacher Resources

Arctic Animal Lesson Plans: Learn about The Walrus.

<www.brighthub.com/education/k-12/articles/10015.aspx>.

Kindergarten level.

Arctic Animals. <Tqjunior.thinkquest.org/3500/walrus.html>.

An educational site that includes basic information on walruses and other Arctic animals, walrus stories, fun facts, and images.

Arctic Studies Center - Smithsonian Museum of Natural History. Walrus. 2004.

<<http://www.mnh.si.edu/arctic/html/walrus.html>>.

EdHelper.com. Tooth Walkers. <http://edhelper.com/ReadingComprehension_54_2223.html>.

ERCHA. Animals of the Arctic. 1998. Oracle Foundation. <<http://library.thinkquest.org/3500/>>.

WEB Pages for Students; Saskatchewan Schools, Canada. <<http://www.saskschools.ca/~gregory/>>.