

Publications/Presentations (Relevant citations to CIFAR “Feeding Ecology” project)

Chemical Ecology Related

Publications/Presentations

Hoekstra, P.F., Braune, B.M., O’Hara, T.M., Elkin, B., Solomon, K.R., and Muir, D.C.G. 2002. Organochlorine contaminant and stable isotope profiles in arctic fox (*Alopex lagopus*) from the Alaskan and Canadian Arctic. *Environmental Pollution* 122(3):423-433.

Hoekstra, P.F., Dehn, L.A., George, J.C., Muir, D.C.G., and O’Hara, T.M. 2002. Trophic ecology of bowhead whales (*Balaena mysticetus*) compared with that of other arctic marine biota as interpreted from carbon-, nitrogen-, and sulfur- isotope signatures. *Canadian Journal of Zoology* 80(2):223-231.

Hoekstra, P.F., O’Hara, T.M., Pallant, S., Solomon, K.R., and Muir, D.C.G. 2002. Bioaccumulation of organochlorine contaminants in bowhead whales (*Balaena mysticetus*) from Barrow, Alaska. *Archives of Environmental Contamination and Toxicology* 42(4):497-507.

Hoekstra, P.F., O’Hara, T.M., Teixeira, C., Backus, S., Fisk, A.T., and Muir, D.C.G. 2002. Spatial trends and bioaccumulation of organochlorine pollutants in marine zooplankton from the Alaskan and Canadian Arctic. *Environmental Toxicology and Chemistry* 21(3):575-583.

Hoekstra, P.F., Wong, C.S., O’Hara, T.M., Solomon, K.R., S. Mabury and Muir, D.C.G. 2002. Enantiomer-specific accumulation of PCB atropisomers in the bowhead whale (*Balaena mysticetus*). *Environmental Science and Technology* 36(7):1419-1425.

Hoekstra, P.F., Braune, B., Elkin, B., Armstrong, F.A.J. and D.C.G. Muir. 2003. Concentrations of selected essential and non-essential elements in arctic fox (*Alopex lagopus*) and wolverines (*Gulo gulo*) from the Canadian Arctic. *The Science of the Total Environment* 309(1-3):81-92.

Hoekstra, P.F., O’Hara, T.M., Fisk, A.T., Borgå, K., Solomon, K.R., and Muir, D.C.G. 2003. Trophic transfer of persistent organochlorine contaminants (OCs) within an arctic marine food web from the southern Beaufort-Chukchi Seas near Barrow, Alaska. *Environmental Pollution* 124(3):509-522.

Hoekstra, P.F., Braune, B.M., Wong, C.S., Elkin, B., and D.C.G. Muir. 2003. Profile of chlorinated contaminants, including selected chiral compounds, in wolverine liver from the Canadian Arctic. *Chemosphere* 53(5):551-60.

Hoekstra, P.F., Letcher, R.J., Backus, S.M., O'Hara, T.M., Solomon, K.R., and D.C.G. Muir. 2003. Hydroxylated and methyl sulfonyl-containing metabolites of polychlorinated biphenyls in plasma and blubber of bowhead whales (*Balaena mysticetus*). *Environmental Toxicology and Chemistry* 22:2650-2658.

Hoekstra, P.F., O'Hara, T.M., Karlsson, H., Solomon, K.R., and D.C.G. Muir. 2003. Enantiomer-specific biomagnification of α -hexachlorocyclohexane and selected chiral chlordane-related compounds in an arctic marine food web. *Environmental Toxicology and Chemistry* 22(10):2482-91.

Fisk, A.T., Hoekstra, P.F., Gagnon, J.-M., Norstrom, R.J., Hobson, K.A., Kwan, M., and D.C.G. Muir. 2003. The influence of habitat, feeding ecology and lipids on organochlorine contaminants in Arctic marine invertebrates. *Marine Ecology Progress Series* 262:201-214.

O'Hara, T.M., Hoekstra, P.F., Beckman, K.E., Krahn, M.M., Blake, J.E., and D.C.G. Muir. 2000. Persistent organic pollutants in bowhead whales and northern fur seals of Alaska. Persistent Organic Pollutants (POPs) in the Arctic: Human Health and Environmental Concerns (Arctic Monitoring Assessment Program), Rovaniemi, Finland, January 19, 2000.

Tittlemier, S., Borrell, A., Duffe, J., Duignan, P.J., Fair, P., Hall, A., Hoekstra, P., Kovacs, K.M., Krahn, M.M., Lebeuf, M., Lydersen, C., Muir, D., O'Hara, T., Olsson, M., Pranschke, J., Ross, P., Siebert, U., Stern, G., Tanabe, S., and R. Norstrom. 2002. Global distribution of halogenated dimethyl bipyroles in marine mammal blubber. *Archives of Environmental Contamination and Toxicology* 43(2):244-255.

Wong C.S., Hoekstra, P.F., Karlsson H., Backus S., Mabury S.A., and D.C.G. Muir. 2002. Enantiomer fractions of chiral organochlorine pesticides and polychlorinated biphenyls in standard and certified reference materials. *Chemosphere* 49(10):1339-1347.

Woshner, V.M., T.M. O'Hara, G.R. Bratton, R.S. Suydam, and V.R. Beasley. 2001. Concentrations and interactions of selected essential and non-essential elements in bowhead and beluga whales of Arctic Alaska. *Journal of Wildlife Diseases* 37:693-710.

Books and Government Publications

Braune, B., Hoekstra, P.F., Elkin, B., and D.C.G. Muir. _____. *Assessment of persistent organochlorine contaminant and essential/non-essential element concentrations in Canadian arctic fox and wolverines*. Northern Contaminants Program, Synopsis of Research for 2001-2002, Ministry of Indian Affairs and Northern Development, Government of Canada, Ottawa, Ontario, Canada (in press).

Braune, B., Muir, D.C.G., Hoekstra, P.F., and B. Elkin. 2001. *Assessment of organochlorine and metal levels in Canadian arctic fox*. Northern Contaminants Program, Synopsis of Research for 2000-2001, Ministry of Indian Affairs and Northern Development, Government of Canada, Ottawa, ON, Canada, p. 147-151.

Fisk, A.T., Hobbs, K.E., and D.C.G. Muir (Hoekstra, P.F. et al., Contributing Authors). 2003. *Canadian Arctic Contaminants Assessment Report II: Biota*. Ministry of Indian Affairs and Northern Development, Government of Canada, Ottawa, ON, Canada, in final preparation. 176 pp.

Muir, D.C.G., de Wit, C.A., Hobbs, K.E., and A.T. Fisk (Hoekstra, P.F. et al., Contributing Authors). 2003. *Arctic Monitoring and Assessment Programme (AMAP) Report II: Persistent Organic Pollutants*. Oslo, Norway.

Selected Platform Presentations

Dehn, L.A., Sheffield, G., Follmann, E.H., Duffy, L.K., Bentzen, T.W., Bratton, G.R., Woshner, V.M., Hoekstra, P.F., and T.M. O'Hara. 2002. Feeding ecology of Arctic phocids – implications for heavy metal dynamics. *53rd Arctic Science Conference, American Association for the Advancement of Science (Arctic Division)*, Fairbanks, Alaska, September 18-21, 2002.

Hoekstra, P.F., and D.C.G. Muir. 1999. An overview of persistent organic pollutants in the Arctic marine environment. 11th Annual University of Guelph – Michigan State University Graduate Student Symposium on Environmental Toxicology and Chemistry, Guelph, Ontario, June 27, 1999.

Hoekstra, P.F., Muir, D.C.G., O'Hara, T.M., and K.R. Solomon. 1999. Distribution of persistent organochlorines (OCs) in migrating bowhead whales (*Balaena mysticetus*) from Barrow, Alaska. 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Philadelphia, Pennsylvania, November 18, 1999.

Hoekstra, P.F., Karlsson, H.M., Muir, D.C.G., O'Hara, T.M., and K.R. Solomon. 2000. Biomagnification of chiral and achiral organochlorine pesticides in the bowhead whale (*Balaena mysticetus*) food chain. 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, Tennessee, November 12-17, 2000.

Hoekstra, P.F., Muir, D.C.G., Karlsson, H.M., and T.M. O'Hara. 2000. Chiral and achiral organochlorines (OCs) in migrating *Balaena mysticetus* from Barrow, Alaska. Symposium on the “*Causes of Reproductive Failure in North Atlantic Right Whales: New Avenues of Research*”, U.S. National Marine Fisheries Service, Falmouth, Massachusetts, April 27, 2000.

Hoekstra, P.F., Muir, D.C.G., Karlsson, H.M., T.M. O'Hara. 2000. Distribution

of chiral and achiral organochlorines (OCs) in bowhead whales harvested from Barrow, Alaska. Symposium on the “Causes of Reproductive Failure in North Atlantic Right Whales: New Avenues of Research,” U.S. National Marine Fisheries Service, Falmouth, Massachusetts, April 27, 2000.

Hoekstra, P.F., O’Hara, T.M., and D.C.G. Muir. 2001. Insight into the bioaccumulation of organochlorine contaminants and feeding ecology of the bowhead whale (*Balaena mysticetus*) via chemical analysis. *22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry*, Baltimore, Maryland, November 11-15, 2001 (platform).

Hoekstra, P.F., Braune, B.M., Dehn, L.A., O’Hara, T.M., Solomon, K.R., and D.C.G. Muir. 2002. Heavy metal and organochlorine concentrations in arctic fox from the Alaskan and western Canadian Arctic. *12th Annual Meeting of Society of Environmental Toxicology and Chemistry (Europe)*, Vienna, Austria, May 12-16, 2002.

Hoekstra, P.F., Letcher, R.J., O’Hara, T.M., Solomon, K.R., and D.C.G. Muir. 2002. Presence of hydroxylated and methyl sulfone PCB metabolites in the bowhead whale. *23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry*, Salt Lake City, Utah, November 16-20, 2002 (platform).

Hoekstra, P.F., O’Hara, T.M., Savinova, T.N., Savinov, V.M., Alexeeva, L.B., Potelov, V.A., Solomon, K.R., and D.C.G. Muir. 2002. Bioaccumulation of polychlorinated bornanes within an Arctic marine food web. *Impact of POPs and mercury on Arctic environments and humans (Arctic Monitoring Assessment Programme)*, Tromsø, Norway, January 21-24, 2002.

Hoekstra, P.F., O’Hara, T.M., Braune, B.M., Solomon, K.R., and D.C.G. Muir. 2002. Trophic ecology and organochlorine concentrations in arctic fox (*Alopex lagopus*) from the Alaskan and western Canadian Arctic. *Impact of POPs and mercury on Arctic environments and humans (Arctic Monitoring Assessment Programme)*, Tromsø, Norway, January 21-24, 2002.

O’Hara, T., J. Blake, G. Bratton, M. Castellini, L. Dehn, P. Hoekstra, T. Mau, D. Muir, C. Rosa, T. Rowles, V. Woshner, and G. Ylitalo. 2000. The bowhead whale as a potential indicator species for monitoring the health of the western Arctic/Bering Sea Ecosystem using blubber, histology, and contaminant indices at the workshop “Marine Vertebrates as Sentinels of Marine Ecosystem Health” at Tarrytown, NY, on October 6-8, 2000.

O’Hara, T.M., Hoekstra, P.F., Beckman, K.E., Krahn, M.M, Blake, J.E., and D.C.G. Muir. 2000. Persistent organic pollutants in bowhead whales and northern fur seals of Alaska. *Persistent Organic Pollutants (POPs) in the Arctic: Human Health and Environmental Concerns (Arctic Monitoring Assessment Programme)*, Rovaniemi, Finland, January 19, 2000. Extended abstract.

Poster Presentations

Dehn, L.-A., Follmann, E. H., Duffy, L. K., Hoekstra, P. F., O'Hara, T. M. 2000. Heavy metal concentrations in ringed seal, bowhead and beluga whale tissues compared by trophic level as determined by carbon and nitrogen isotope ratios. Poster SETAC 21st Annual Meeting, 12 - 16 November 2000, in Nashville, TN.

Hoekstra, P.F., Muir, D.C.G., O'Hara, T.M., Krahn, M.M., and D.W. Norton. 2000. Influence of trophic position and seasonal migration on the distribution of persistent organic pollutants in Eskimo harvested bowhead whales at Barrow, Alaska. Persistent Organic Pollutants (POPs) in the Arctic: Human Health and Environmental Concerns (Arctic Monitoring Assessment Programme), Rovaniemi, Finland, January 18-20, 2000.

Hoekstra, P.F., Wong, C.S., Muir, D.C.G., O'Hara, T.M., Mabury, S.A., and K.R. Solomon. 2000. Enantiomeric composition of PCB atropisomers in bowhead whales (*Balaena mysticetus*). 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, Tennessee, November 12-17, 2000.

Human Ecology - Related

Bateyko, D., J. Cardiff and R. Early. 2000. Making a Difference: Undergraduate Students Working in Northern Communities. Presentation to the 6th Annual Student Conference on Northern Studies, Université Laval, Quebec, May 6th, 2000.

Kassam, K. S. and J. Graham. 1999. Indigenous Knowledge, Community Participation and Traditional Land-Use Mapping. In Delaney, R., Brownlee, K., & Sellick, M. (Eds.), *Social Work with Rural and Northern Communities*. Thunder Bay: Centre for Northern Studies, Lakehead University (pages 195-219).

Kassam, K. S. and S. K. Maher. 2000. Indigenous, Cartesian and Cartographic: Visual Metaphors of Knowledge in Arctic (Tundra) and Sub-Arctic (Taiga) Communities. Presentation to the Association for the Unity and Integration of Knowledge, 2000 Congress of the Humanities and Social Sciences, University of Alberta, May 25th, 2000.

Kassam, K. and Wainwright Traditional Council. 2001. Passing on the Knowledge: Mapping Human Ecology in Wainwright, Alaska. Arctic Institute of North America of the University of Calgary. Pp. 2001. 82

Kassam, Karim-Aly and Wisdom Tettey. 2003. Academics as Citizens – Collaborative Interdisciplinary Research in the Service of Communities. *Canadian Journal of Development Studies*, 14(1):195-214.

Interdisciplinary

Kassam, K. S., D. Muir, D. Norton, and T. O'Hara. 1999. Human Ecology and the Impact of Chemical Pollutants in Arctic Marine Communities: A Methodology for Research. AAAS 50th Arctic Science Conference, Denali, Alaska, September 19-22, 1999.

Kassam, Karim-Aly. 2001. Presentation for indigenous artists from Cape Dorset, Nunavut on "Human Ecology Research and Art in the Circumpolar Arctic," July 11th, 2001.

Kassam, Karim-Aly. 2001. Proper Legislation Requires Profound Research: Traditional Land and Marine Use Mapping – A Methodology for Documenting Natural and Cultural Heritage. By invitation of the Chinese Academy of Social Sciences and the United Nations, one of ten foreign experts to present at the Conference on Natural and Cultural Heritage, Beijing, China, December 4th to 6th. The CIFAR human ecology research methodology was outlined and suggested for use in the context of China.

Kassam, Karim-Aly. 2003. Mapping Indigenous Human Ecology: Experiences and Outcomes in the Arctic and sub-Arctic. Seminar at Department of Natural Resources, College of Agriculture and Life Sciences, Cornell University, Ithaca, New York on February 20th, 2003.

Norton, D.W. 1999. Provideniya's Museum in action. *Alberta Museums Review* 25 (2):32-34.

Norton, D.W. 1999. Traditional Ecological Knowledge in environmental research: methodologies and contextual notes. Workshop on Traditional Knowledge applications, IARC, Fairbanks, November 20th 1999.

Norton, D. W. 2002. Coastal Sea Ice Watch: Private confessions of a convert to indigenous knowledge. Pp. 126-155, In Krupnik, I. and Jolly, D. (eds.). *The earth is faster now: Indigenous observation of arctic environmental change*. Fairbanks AK: Arctic Research Consortium of the United States, xxviii + 384 pp.