

David S. Lee

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Nationality: Canadian

Education

- 1995 BSc, Department of Biology, McGill University, Canada
- 2005 PhD, Department of Geography, McGill University, Canada

Current Position

- 2005– **Wildlife Biologist**, Wildlife and Environment, Nunavut Tunngavik Inc.

Professional Experience

- 2022– Chair (Committee on the Status of Endangered Wildlife in Canada (COSEWIC))
- 2020– Member (Planning Team for *Qausuittuq* National Park Management Plan)
- 2011– External Reviewer (National Marine Mammal Peer Review, Department of Fisheries and Oceans)
- 2021–2022 Member (Davis Strait Polar Bear Technical Working Group)
- 2020–2021 Member (Canadian South Hudson Bay Polar Bear Technical Working Group)
- 2019–2020 Member (North Atlantic Marine Mammal Commission (NAMMCO) Walrus Working Group)
- 2018–2019 Reviewer (Natural Sciences and Engineering Research Council of Canada-Whale Science for Tomorrow)
- 2014–2020 Co-chair (COSEWIC Marine Mammals Specialist Subcommittee)
- 2014–2016 Member (Canadian Peary Caribou Recovery Team)
- 2012–2014 Co-chair (Canadian Polar Bear Technical Committee)
- 2011–2014 Member (COSEWIC Marine Mammals Specialist Subcommittee)
- 2007–2011 Co-chair (Eastern Arctic Bowhead Recovery Team)
- 2006–2022 Member (Canadian Polar Bear Technical Committee)
- 2005–2020 External Reviewer (Department of Environment Peer Review, Government of Nunavut)
- 2005–2021 Member (Canada-Greenland Joint Commission on Beluga and Narwhal and the NAMMCO Technical Working Group)

Research Experience

2022–2023	Co-Investigator (Qamanirjuaq Caribou Calving Ground Survey, GN)
2018–2019	Co-Investigator (Beverly Caribou Calving Ground Survey, GN)
2017–2018	Co-Investigator (Qamanirjuaq Caribou Calving Ground Survey, GN)
2017–2018	Co-Investigator (Kivalliq Muskox Population Aerial Survey, GN)
2016–2017	Co-Investigator (Western Hudson Bay Polar Bear Subpopulation Aerial Survey, GN)
2016–2017	Co-Investigator (Kivalliq Muskox Population Aerial Survey, GN)
2015–2016	Co-Investigator (Bluenose East Caribou Calving Ground Survey, Government of Northwest Territories (GNWT))
2015–2016	Co-Investigator (Bathurst Caribou Calving Ground Survey, GNWT)
2015–2016	Co-Investigator (Southampton Island Caribou Population Aerial Survey, GN)
2014–2015	Co-Investigator (Qamanirjuaq Caribou Calving Ground Survey, GN)
2014–2015	Co-Investigator (Baffin Island Caribou Population Aerial Survey, GN)
2013–2014	Co-Investigator (Beverly Caribou Reconnaissance Survey, GN)
2012–2013	Co-Investigator (Kitikmeot Muskox Population Aerial Survey, GN)
2012–2013	Co-Investigator (Qamanirjuaq Caribou Reconnaissance Survey, GN)
2011–2012	Co-Investigator (Beverly Caribou Calving Ground Survey, GN)
2010–2011	Co-Investigator (Kivalliq Muskox Population Aerial Survey, GN)
2009–2010	Co-Investigator (Southampton Island Caribou Health Monitoring, GN)
2006–2008	Collaborator (International Polar Year Project: Effects of Global Warming on Polar Bears, Seals and Whales)
2006–2008	Research Associate (Arctic Net Project 4.6 Conservation, Economic Development and Community Values: Legal, Policy and Ethical Perspectives)
2005–2006	Co-Investigator (Western Hudson Bay Polar Bear <i>Inuit Qauijimajatuqangit</i> Workshop, Nunavut Tunngavik Inc.)
2000–2001	Principal Investigator (Nunavik Beluga Traditional Ecological Knowledge Project, Makivik Corporation)

Teaching Experience

2004–2005	Full-time Course Lecturer (Department of Environmental Studies & Geography, Bishop's University, Lennoxville, QC)
2004–2005	Course Lecturer (McGill School of the Environment, McGill University, Montréal, QC)
2003–2004	Course Lecturer (Department of Geography, Concordia University, Montréal, QC)

Publications

Refereed Papers and Book Chapters

1. Reeves, R.R., and D.S. Lee. 2022. Bowhead Whales and Whaling in the Central and Eastern Canadian Arctic, 1970–2021. *Journal of Cetacean Research and Management*: 23(1): 01-25.
2. Breton-Honeyman, K., Huntington, H.P., Basterfield, M., Dicker, J., Gray, T., Jakobsen, A.E.R., Jean-Gagnon, F., Lee, D.S., Laing, R., Loseto, L., McCarney, P., Noksana Jr., J., Palliser, T., Ruben, L., Tartak, C., Townley, J., and E. Zdor. 2021. Beluga Whale Stewardship

and Collaborative Research Practices among Indigenous Peoples in the Arctic. *Polar Research*: 40(s1)

3. Regehr, E.V., M. Dyck, S. Iverson, **D.S. Lee**, N.J. Lunn, J.M. Northrup, M-C. Richer, G. Szor, M.C. Runge. 2021. Incorporating Climate Change in a Harvest Risk Assessment for Polar Bears (*Ursus Maritimus*) in Southern Hudson Bay. *Biological Conservation* 258:109128.
4. Keatts, L.O., M. Robards, S.H. Olson, K. Hueffer, S. Insley, D.O. Joly, S. Kutz, **D.S. Lee**, C-L. B. Chetkiewicz, S. Lair, N.D. Preston, M. Pruvot, J.C. Ray, D. Reid, J.M. Sleeman, R. Stimmelmayer, C. Stephen, C. Walzer. 2021. Implications of Zoonoses from Hunting and Use of Wildlife in North American Arctic and Boreal Biomes: Pandemic Potential, Monitoring, and Mitigation. *Front. Public Health* 9:627654.
5. Reeves, R.R., and **D.S. Lee**. 2020. Shifting Priorities for Narwhal Conservation: From Trade to Rapid Environmental Change. *Traffic Bulletin* 32:1.
6. Clark, D.A., Brook, R.K., Clark, S.G., Doney, E.D., Frank, B., Jung, T.S., **D.S. Lee**, and Brenda Parlee. 2020. Collaborative and Consensus-based Approaches for Human-Wildlife Coexistence: Response to Treves and Santiago-Avila. *Conservation Biology*.
7. MacLean, J., S.G. Clark, L. Foote, T.S. Jung, **D.S. Lee**, and D.A. Clark. 2020. Polar Bears and the Politics of Climate Change: A Response to Simpson. *Journal of International Wildlife Law & Policy* 23: 141-150.
8. Hobbs, R.C., J.S. Prewitt, R. Reeves, G. Desportes, K. Breton-Honeyman, T. Christensen, J. Citta, S.H. Ferguson, K.J. Frost, E. Garde, M. Ghazal, D.M. Glazov, J-F. Gosselin, M. Hammill, R.G. Hansen, L. Harwood, M-P. Heide-Jørgensen, G. Inglangasuk, K.M. Kovacs, V. Krasnova, **D.S. Lee**, V. Lesage, D. I. Litovka, L.F. Lowry, C. Lydersen. C.J.D. Matthews, I.G. Mescherskiy, A. Mosnier, G. O’Corry-Crowe, L. Postma, L.T. Quakenbush, O.V. Shpak, M. Skovrind, R.S. Suydam, and C.A. Watt. 2020. Global Review of the Conservation Status of Monodontid Stocks. *Marine Fisheries Review* 81(3-4):1-53.
9. Watt, C.A., T. Doniol-Valcroze, L. Witting, R. Hobbs, R.G. Hansen, **D.S. Lee**, M. Marcoux, V. Lesage, E. Garde, S.H. Ferguson and M.P. Heide-Jørgensen. 2020. Hunt Allocation Modeling for Migrating Animals: The Case of Baffin Bay Narwhal, *Monodon monoceros*. *Marine Fisheries Review* 81 (3-4):125-136.
10. Flemming, R.M., A. Franke, F. Ugarte, S. Statham, S. Ferguson, G. Wenzel, C. Hotson, G. Gauthier, **D.S. Lee** and D. Berteaux. 2018. Baffin Bay & Davis Strait Assessment. In *Arctic Monitoring and Assessment Program Assessment: Adaptation Actions for a Changing Arctic (AACA)*. Arctic Monitoring and Assessment Program (AMAP), Oslo, Norway.
11. Ferguson, S.H., and **D.S. Lee**. Climate Change, Conservation, and Narwhal. 2017. In W.W. Fitzhugh and M. Nweeia (eds.), *Narwhal: Revealing an Arctic Legend*. Arctic Studies Center, National Museum of Natural History, Smithsonian Institution, Washington, D.C.
12. **Lee, D.S.** and G.W. Wenzel. 2017. Inuit and Narwhal. In W.W. Fitzhugh and M. Nweeia (eds.), *Narwhal: Revealing an Arctic Legend*. Arctic Studies Center, National Museum of Natural History, Smithsonian Institution, Washington, D.C.
13. Weber, D.S., T. Mandler, M. Dyck, P. Van Coerverden De Groot, **D.S. Lee**, and D.A. Clark. 2015. Unexpected and Undesired Conservation Outcomes of Wildlife Trade Bans — An Emerging Problem for Stakeholders. *Global Ecology and Conservation* 3:389-400.
14. Dumond, M., and **D.S. Lee**. 2013. Dolphin and Union Caribou Herd Status and Trend. *Arctic* 66:329-337.

15. Clark, D.A., C. Meek, J. Cheechoo, S.G. Clark, L. Foote, **D.S. Lee** and G. York. 2012. Polar Bears and CITES: a Rejoinder to Parsons and Cornick. *Marine Policy* 38:365-368.
16. Bankes, N., and **D.S. Lee**. 2009. The Legal Framework for the Conservation Hunting of Polar Bears in Nunavut. In M.M.R. Freeman and L. Foote (eds.), *Inuit, Polar Bears, and Sustainable Use: Local, National and International Perspectives* (pp. 199-213), CCI Press, University of Alberta, Edmonton.
17. Nirlungayuk, G., and **D.S. Lee**. 2009. Polar bears in Western Hudson Bay. In M.M.R. Freeman and L. Foote (eds.), *Inuit, Polar Bears and Sustainable Use: Local, National and International Perspectives*, CCI Press, University of Alberta, Edmonton.
18. Clark, D.A., **D.S. Lee**, M.M.R. Freeman, and S.G. Clark. 2008. Polar Bear Conservation in Canada: Defining the Policy Problems. *Arctic* 61: 347-360.
19. **Lee, D.S.**, and G.W. Wenzel. 2005. Narwhal Hunting by Pond Inlet Inuit: An Analysis of Mode of Foraging, *Études Inuit Studies* 28(2): 133-157.

Posters in Conference Proceedings

1. **Lee, D.S.**, M. Campbell, and J. Boulanger. (May 2020). Status of Beverly Caribou Herd (*Rangifer tarandus groenlandicus*). North American Caribou Workshop, Quebec, QC.
2. **Lee, D.S.**, M. Campbell, and J. Boulanger. (May 2018). Double observer survey methods (*Rangifer tarandus groenlandicus*). North American Caribou Workshop, Ottawa, ON.
3. Weber, D.S., T. Mandler, M. Dyck, P. Van Coerverden De Groot, **D.S. Lee**, and D.A. Clark. 2015. Unexpected and Undesired Conservation Outcomes of Wildlife Trade Bans — An Emerging Problem for Stakeholders. The Wildlife Society Annual Conference. October 2015. Winnipeg, Manitoba.
4. Boulanger J., M. Campbell, B. Croft, M. Dumond, **D.S. Lee**, and J. Nishi. 2011. The Application of Double Observer Methods to Improve Calving Ground Caribou Survey Estimates. Arctic Ungulate Conference. August 2011. Yellowknife, Northwest Territories.
5. Campbell, M., J. Boulanger, and **D.S. Lee**. 2011. Demographic Effects of an Outbreak of *Brucella Suis* On Island Bound Barren-Ground Caribou (*Rangifer tarandus groenlandicus*) Southampton Island Nunavut. Arctic Ungulate Conference. August 2011. Yellowknife, Northwest Territories.
6. Nirlungayuk, G., **D.S. Lee**, G. Williams, and J.B. Dean. 2009. Co-management of Bowhead Whales in Nunavut, Canada. 18th Biennial Conference on the Biology of Marine Mammals. October 2009. Québec, Québec.
7. Williams, G., and **D.S. Lee**. 2009. Bowhead whale hunt in Nunavut: *Inuit Qaujimajatuqangit* and Marine Mammal Science. 18th Biennial Conference on the Biology of Marine Mammals. October 2009. Québec, Québec.
8. Freeman, M.M.R., K.M. Sheikh, N.D. Bankes, D.A. Clark, D.E. Keith, **D.S. Lee**, and G.W. Wenzel. 2006. Conservation Hunting, Sustainable Development and Community Values in the Canadian Arctic. ArcticNet Annual Conference. December 2006. Victoria, British Columbia.

Reports

Government Reports

1. Boulanger, J., R.Kite, M. Campbell, J. Shaw, and **D.S. Lee**. 2020. Analysis of Caribou Movements relative to the Meadowbank Mine and Roads during the Spring Migration
2. Campbell, M., **D.S. Lee**, and J. Boulanger. 2019. An Estimate of Breeding Females and Analyses of Demographics for the Beverly Herd of Barren-Ground Caribou. Government of Nunavut.
3. Campbell, M., and **D.S. Lee**. 2019. An Estimate of Muskox and Analyses of Demographics for the Central Kivalliq. Government of Nunavut.
4. Campbell, M., **D.S. Lee**, and J. Boulanger. 2018. Abundance Trends of the Beverly Mainland Migratory Subpopulation of Barren-Ground Caribou (*Rangifer tarandus groenlandicus*) June 2011-June 2018. Government of Nunavut.
5. Boulanger, J., B. Croft, J. Adamczewski, **D.S. Lee**, N. Larter, and L-M. Leclerc. 2016. An Estimate of Breeding Females and Analyses of Demographics for the Bluenose-East Herd of Barren-Ground Caribou: 2015 Calving Ground Photographic Survey. Government of Northwest Territories.
6. Boulanger, J., B. Croft, J. Adamczewski, M. Campbell, **D.S. Lee**, and N. Larter. 2016. An Estimate of Breeding Females and Analyses of Demographics for the Bathurst Herd of Barren-Ground Caribou: 2015 Calving Ground Photographic Survey. Government of Northwest Territories.
7. Campbell, M.C., **D.S. Lee**, J. Boulanger, M. Dumond, A. Kelly, and J. McPherson. 2016. Final Technical Report of Beverly Caribou Calving Ground Survey. Government of Nunavut.
8. Lunn, N.J., M. Branigan, K. Breton-Honeyman, L. Carpentar, M. Dyck, G. Gilbert, J. Goudie, D. Hedman, E. Keenan, **D.S. Lee**, A. Maher, R. Maraj, M. Obbard, J. Pisapio, F. Pokiak, L. Staples, and G. Szor. 2016. Polar Bear Management in Canada 2009–2015. Compiled by the Canadian Polar Bear Technical Committee.
9. Campbell, M.C., J. Goorts, **D.S. Lee**, J. Boulanger, J., and T. Pretzlaw. 2015. Aerial Abundance Estimates, Seasonal Range Use, and Demographic affiliations of the Barren-Ground Caribou (*Rangifer tarandus groenlandicus*) on Baffin Island – March 2014. Department of Environment, Nunavut Wildlife Research Division
10. Campbell, M.C., and **D.S. Lee**. 2014. Interim Report for Central Kivalliq Muskox Population Survey. Government of Nunavut.
11. Campbell, M.C., and **D.S. Lee**. 2013. Interim Report for Northern Kivalliq Muskox Population Survey. Government of Nunavut.
12. Campbell, M.C., J. Boulanger, **D.S. Lee**, M. Dumond, and J. McPherson. 2012. Calving Ground Abundance Estimates of the Beverly and Ahiak Subpopulations of Barren-Ground Caribou (*Rangifer tarandus groenlandicus*) – June 2011. 2012. Government of Nunavut, Department of Environment.
13. Campbell, M.C., J. Boulanger, and **D.S. Lee**. 2010. Southampton Island Caribou Report. Government of Nunavut.

Non-Government Reports

1. Nunavut Tunngavik Inc. 2007. Western Hudson Bay *Inuit Qaujimajatuqangit* Workshop Summary. Prepared by G. Nirlungayuk and **D.S. Lee**. Submission to the Nunavut Wildlife Management Board Public Hearing on Proposed Polar Bear Total Allowable Harvest reductions in Arviat, April 24-26, 2007. 6 pp.
2. **Lee, D.S.**, W. Doidge, C. Burgy, and W. Adams. 2002. Traditional Ecological Knowledge in Relation to Management of Beluga Whales in Nunavik. Phase 1. Interviews at Kangirsuk, Salluit, and Inukjuak. Report 12-409 of the Nunavik Research Centre submitted to Fisheries and Oceans Canada, Québec, QC. (Contract #05012). Makivik Corporation. Kuujuaq. 18p + Appendix of 18 maps.
3. **Lee, D.S.** 1996. The Generation and Utilization of a Digital Elevation Model (DEM) and Isostatic Rebound Model to Examine Regional Coastal Geographical Changes in Northwest Hudson Bay from ca. 1 AD to 1995 AD., Independent Geographic Information Systems Project, Department of Geography, McGill University.
4. **Lee, D.S.** 1995. The Allee-Type Ideal Free Distribution Display by Zebrafish, B.Sc. Independent Studies Thesis, Department of Biology, McGill University.

Papers Presented to Academic Bodies, Learned Societies and Non-academic Bodies

1. Irngaut, P., B. Dean, C. Wray and **D.S. Lee**. (December 2017). Inuit Qaujimajatuqangit and Wildlife Co-Management: Recognizing Inuit Systems of Wildlife Management that Contribute to the Conservation of Wildlife and Protection of Wildlife Habitat. ArcticNet Annual Scientific Meeting, Québec city, Québec.
2. **Lee, D.S.**, M. Campbell, and J. Boulanger. (May 2016). Monitoring the health and demographic parameters of Barren-ground caribou (*Rangifer tarandus groenlandicus*) on Southampton Island, Nunavut. North American Caribou Workshop, Thunder Bay, ON.
3. **Lee, D.S.**, and M. Campbell. (October 2015). Aerial Survey Methods to Estimate Numbers of Muskoxen in the Northern and Central Kivalliq Region of Nunavut. The Wildlife Society Annual Conference, Winnipeg, MB.
4. **Lee, D.S.**, and P. Irngaut. (October 2015). *Inuit Qaujimajatuqangit* and Wildlife Co-Management in Nunavut. The Wildlife Society Annual Conference, Winnipeg, MB.
5. **Lee, D.S.**, and P. Irngaut. (September 2015). Traditional Knowledge in Research and Management Decision-Making. 2015 Yukon North Slope Conference, Whitehorse, YN.
6. **Lee, D.S.**, (March 2012). Article 5 (Wildlife) of the Nunavut Land Claims Agreement. Nunavut Land Claims Agreement Workshop, Nunavut Tunngavik Incorporated, Ottawa, ON.
7. Nirlungayuk, G., J.B. Dean, and **D.S. Lee**. (July 2010). Inuit Participation in Wildlife Management in Nunavut. 24th Annual Meeting of the Society for Conservation Biology, University of Alberta, Edmonton, AB.
8. **Lee, D.S.**, D.A. Clark, and E. Chamberlain. (October 2009). Practitioner's Experience Applying the Policy Sciences (Panel Presentation). Policy Sciences 28th Annual Institute, University of Colorado, Boulder, CO.

9. **Lee, D.S.**, and M. Campbell. (December 2008). Linking Communities and Scientists: Challenges and Common Goals of Wildlife Related Research in Nunavut. Arctic Change Conference, Québec, QC.
10. **Lee, D.S.**, and D. Mattson. (October 2008). Decision Process in Natural Resource Management: Identifying & Addressing Persistent Challenges. 2008. Policy Sciences 27th Annual Institute, University of Colorado, Boulder, CO.
11. **Lee, D.S.**, D.A. Clark, and D. Mattson. (October 2007). Improving Professional Practice in Natural Resource Management Agencies: Examining Cases of New Interventions (Panel Presentation). Policy Sciences 26th Annual Institute, Claremont-McKenna College, Claremont, CA.
12. Clark, D.A., **D.S. Lee**, D. Mattson, S.G. Clark, and M.M.R. Freeman. (December 2006). Polar bear conservation policy, conservation hunting, and climate change. ArcticNet Annual Scientific Meeting, Victoria, BC.
13. Clark, D.A., **D.S. Lee**, and D. Mattson. (October 2006). Conservation Hunting, Climate Change, and Polar Bear Conservation Policy in Nunavut, Canada. Policy Sciences 25th Annual Institute, Yale University Law School, New Haven, CT.
14. Nirlungayuk, G., and **D.S. Lee**. (October 2006). To hunt to live — Inuit Qaujimajatuqangit: Principles of Subsistence, Commerce and Recreation. International Conference on Recreational Hunting, Conservation and Rural Livelihoods, London, UK.
15. Nirlungayuk, G., and **D.S. Lee**. (August 2006). Community Based Management: A Case Study from Repulse Bay. Paper presented at the Coastal Zone Canada Conference, Tuktoyaktuk, NWT.
16. Ningeocheak, R., G. Nirlungayuk, and **D.S. Lee**. (June 2006). Land Claims and the Economic Development of Marine Resources in Nunavut. Paper presented at the Coastal Zone Canada Conference, Tuktoyaktuk, NWT.
17. **Lee, D.S.** (August 2006). Sustainable Harvesting Working Group: *Inuit Qaujimajatuqangit* and Wildlife Co-Management in Nunavut. Paper presented at Achieving Objectives: A New Approach to Land Claims Agreements in Canada.

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