

Anne Gunn Ph.D.

Resume

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Experience

As a field biologist, I have a long experience in designing and managing programs for territorial government and co-management boards in wildlife management and environmental assessment. While with the Government of the NWT (1979-2006), I was the regional biologist in the central Arctic and then Caribou Biologist based in Yellowknife. My knowledge and experience is largely from working with people during caribou research. Since becoming an independent consultant in 2006, I have provided technical advice on caribou conservation and management for the Wek'èezhìi Renewable Resource Board, Mackenzie Valley Environmental Impact Review Board, Beverly Qamanirjuaq Caribou Management Board, Deline Renewable Resource Council, Qikiqtani Inuit Association, and World Wildlife Fund Canada. At the international scale, I work with the Circum-Arctic Rangifer Monitoring and Assessment (CARMA) Network and contribute to the International Union for the Conservation of Nature's Deer Specialist Group.

Skills

I have skills and practice in defining monitoring and mitigation problems and identifying solutions with the designs to test and implement them. I am experienced in all stages of caribou assessment and conservation programs. I am effective in forming university and government interdisciplinary partnerships for describing caribou responses to industrial activity and climate change. This includes working with an interdisciplinary team to model cumulative effects on the Bathurst caribou herd's ranges. Experience in environmental assessment includes preparation of technical information for intervenor parties and as a technical expert to advise environmental assessment panels and boards.

POSITIONS HELD

<i>Independent consultant</i>	2006 – present	Salt Spring Island, BC
<i>Government of the Northwest Territories</i>		
Caribou Biologist	1993 – 2006	Yellowknife
Kitikmeot Regional Biologist	1984 - 1993	Cambridge Bay; Kugluktuk
Wildlife Biologist	1979- 1984	Yellowknife
<i>Canadian Wildlife Service</i>		
Various biologist positions	1973-79	Ottawa, Edmonton

EDUCATION

Ph.D. 1973 Imperial College, University of London, UK
B.A. Natural Sciences 1969 Trinity College, Dublin, Eire

Selected Publications since 2010

- Gunn, A., D. Russell and L. Greig. 2014. Insights into integrating cumulative effects and collaborative co-management for migratory tundra caribou herds in the Northwest Territories, Canada. *Ecology and Society* 19 (4): 4-11.
- Gunn, A., K. G. Poole, J. Wierzbowski, J. S. Nishi, J. Adamczewski, D. Russell and A. D'Hont. 2013. Have geographical influences and changing abundance led to sub-population structure in the Ahlak caribou herd, Nunavut, Canada? *Rangifer* Special Issue No.21:35-58.
- Chen, W., D.E. Russell, A. Gunn, B. Croft, W.R. Chen, R. Fernandes, H. Zhao, J. Li, Y. Zhang, K. Koehler, I. Olthof, R.H. Fraser, S.G. Leblanc, G.R. Henry, R.G. White & G.L. Finstad. 2012. Monitoring habitat condition changes during winter and pre-calving migration for Bathurst Caribou in northern Canada, *Biodiversity* 10:1-9.
- Witter, L. A. C. J. Johnson B. Croft, A. Gunn, and L. M. Poirier. 2012. Gauging climate change effects at local scales: weather-based indices to monitor insect harassment in caribou. *Ecological Applications* 22: 1838–1851.
- Gunn, A., Poole, K.G. and Nishi, J.S. 2012. A conceptual model for migratory tundra caribou to explain and predict why shifts in spatial fidelity of breeding cows to their calving grounds are infrequent. *Rangifer* Special Issue No. 20: 259–267.
- Cuyler, L.C., White, R.R., Lewis, K., Soulliere, C., Gunn, A., Russell, D.E. & Colin, D. 2012. Are warbles and bots related to reproductive status in West Greenland caribou ? *Rangifer* 32: 243-257.
- Gunn, A., Poole, K.G. and Nishi, J.S. 2012. A conceptual model for migratory tundra caribou to explain and predict why shifts in spatial fidelity of breeding cows to their calving grounds are infrequent. *Rangifer* Special Issue No. 20: 259–267.
- Boulanger, J., K. G. Poole and A. Gunn. 2012. Estimating the Zone Of Influence of Industrial Developments on Wildlife: A Migratory Caribou and Diamond Mine Case Study. *Wildlife Biology* 18: 164-179.
- Gunn, A., Russell, D.R. and J. Eamer. 2011. Northern caribou population trends. Canadian Biodiversity: Ecosystem Status and Trends 2010 Technical Thematic Report Series No. 10. Canadian Councils of Resource Ministers. Ottawa, ON. 55 p.
- Festa-Bianchet, M. J.C. Ray, S. Boutin, S.D. Côté, and A. Gunn. 2011. Conservation of caribou (*Rangifer tarandus*) in Canada: an uncertain future. *Canadian Journal of Zoology*: 89: 419–434.
- Gunn, A., C.J. Johnson, J. S. Nishi, C. J. Daniel, M. Carlson, D. E. Russell, and, J. Z. Adamczewski. 2011. Addressing Cumulative Effects in the Canadian Central Arctic – Understanding the Impacts of Human Activities on Barren-ground Caribou. Chapter 8. In eds. P. R. Krausman and L. K. Harris. *Cumulative Effects in Wildlife Management: A Critical Aspect of Impact Mitigation*. Taylor and Francis.
- Boulanger, J., Gunn, A., Adamczewski, J. and B. Croft. 2011. Exploration of the decline of the Bathurst caribou herd using a data-driven demographic model. *Journal of Wildlife Management* 75: 883–896.
- Poole, K.G., A. Gunn, B.R. Patterson, and M. Dumond. 2010. Sea ice and migration of the Dolphin and Union caribou herd in the Canadian Arctic: an uncertain future. *Arctic* 62:414-428.
- Gunn, A. and R. J. Irvine. 2003. Subclinical parasitism and ruminant foraging strategies- a review. *Wildlife Society Bulletin* 31:117-126.

List of other journal papers and government reports available on request