



# Global Warming and Arctic Marine Mammals

This project will examine global warming and the effects on water-based mammals in the Arctic. Research will include the following:

- How will marine mammals adapt to global warming – and what are the possibilities for future survival?



- What is the relationship between warming temperatures and the habitats of polar bears, seals, and whales?
- What are the potential effects of global warming on reproduction, and how many mammals will survive?



L. Dueck



Fisheries and Oceans Canada



Several areas of mammal health will be studied, including diet, diseases, contaminants, genes, and proteins. Satellite tracking, tissue samples from local hunters, genetic, and scientific modeling, are the methods that will be used to understand change.



J. Orr



L. Dueck

Knowing how polar ecosystems may change with global warming will help to develop strategies for conservation and species management. It is important to recognize the changing distribution and numbers of Arctic mammals. Northerners depend on these species as a food source, and as an integral part of their unique culture.



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