

Featured Research: Special issue on Norway-Canada Comparisons of Marine Ecosystems (NORCAN) in Progress in Oceanography.

The final results of the ESSAS-sponsored project entitled Norway-Canada Comparison of Marine Ecosystems (NORCAN) was recently published in a special issue of Progress in Oceanography. The issue consists of 7 papers all co-authored by Canadian and Norwegian scientists comparing various aspects of the marine ecosystems off Norway with those in Labrador Sea. There is one paper each covering the physical oceanography, the phytoplankton production, and the dominant zooplankton species (*Calanus finmarchicus*); three papers on capelin (*Mallotus villosus*), the main forage fish, comparing recent changes in their spatial distribution, their recruitment dynamics, and their diets; and one on the dominant commercial fish in the two regions (Atlantic cod, *Gadus morhua*). The papers on the distribution and recruitment of capelin also include comparisons with the Icelandic stock. An introductory paper summarizes and synthesizes the results of these studies as well as discussing the likely ecosystem scenarios under future climate change using the NORCAN results. The references for the special issue and the various papers are listed below.

Drinkwater, K.F. and P. Pepin (Eds.) 2013. Norway-Canada Comparisons of Marine Ecosystems (NORCAN). Progress in Oceanography 114, 1-125.

Drinkwater, K.F. and P. Pepin. 2013. Comparison of climate forcing on marine ecosystems of the Northeast and Northwest Atlantic: A synthesis of the NORCAN project. Progress in Oceanography 114, 3-10.

Drinkwater, K., Colbourne, E., Loeng, H., Sundby, S., and Kristiansen, T., 2013. Comparison of the atmospheric forcing and oceanographic responses between the Labrador Sea and the Norwegian and Barents seas. Progress in Oceanography 114, 11-25.

Harrison, W.G., Børshiem, K.Y., Li, W.K.W., Maillet, G.L., Pepin, P., Sakshaug, E., Skogen, M.D., and Yeats, P.A., 2013. Phytoplankton production and growth regulation in the Subarctic North Atlantic: a comparative study of the Labrador Sea-Labrador/Newfoundland shelves and Barents/Norwegian/Greenland seas and shelves. Progress in Oceanography 114, 26-45.

Head, E.J.H., Melle, W., Pepin, P., Bagøien, E., and Broms, C., 2013. On the ecology of *Calanus finmarchicus* in the Subarctic North Atlantic: a comparison of population dynamics and environmental conditions in areas of the Labrador Sea-Labrador/Newfoundland shelf and Norwegian Sea Atlantic and Coastal waters. Progress in Oceanography 114, 46-63.

Carscadden, J.E., Gjørseter, H., and Vilhjálmsson, H., 2013. A comparison of recent changes in distribution of capelin (*Mallotus villosus*) in the Barents Sea, around Iceland and in the Northwest Atlantic. Progress in Oceanography 114, 64-83.

Carscadden, J.E., Gjørseter, H., and Vilhjálmsson, H., 2013. Recruitment in the Barents Sea, Icelandic, and eastern Newfoundland/Labrador capelin (*Mallotus villosus*) stocks. Progress in Oceanography 114, 84-96.

Dalpadado, P., and Mowbray, F., 2013. Comparative analysis of feeding ecology of capelin from two shelf ecosystems, off Newfoundland and in the Barents Sea. Progress in Oceanography 114, 97-105.

Lilly, G.R., Nakken, O., and Brattey, J., 2013. A review of the contributions of fisheries and climate variability to contrasting dynamics in two Arcto-boreal Atlantic cod (*Gadus*

morhua) stocks: Persistent high productivity in the Barents Sea and collapse on the Newfoundland and Labrador Shelf. Progress in Oceanography 114, 106-125.