







The border areas between Norway, Russia and Finland have unique natural gualities and natural resources. The Atlantic salmon is a symbol of healthy and vital ecosystems and is of significant economic and cultural importance, both through commercial and recreational fishing.

The Kolarctic salmon project was a unique venture between scientists, managers and commercial fishermen from Northern Norway, Finland, Northwest Russia and the White Sea area, aiming at providing a better knowledge-base for the countries salmon management.

Through joint effort, we gathered a unique bio-specimen sample along the North-Norwegian coast and in Russian Barents and White Sea areas, generating the most comprehensive ecological and genetic data sets for Atlantic salmon until now.

Overall, the project results provide opportunities for developing a knowledge-based and adaptive salmon management. We hope it will contribute to develop a future sustainable exploitation of the northernmost Atlantic salmon populations in Europe.





Partners and associates:

Norway: The Office of the Finnmark County Governor, Institute of Marine Research (IMR) and Norwegian Institute for Nature Research (NINA). Sea salmon fishing associations in Troms and Finnmark

Russia: Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO) - Murmansk and Archangelsk. Associates: Karelrybvod - Karelia, Sevrybvod – Archangelsk and Komirybvod – Komi.

Finland: University of Turku – The Kevo Research Station (UTU-Kevo) and Natural Resources Institute Finland (Luke)

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Kolarctic salmon

Key findings

"Merging modern science with traditional knowledge" to improve the future management of the Atlantic salmon in the Barents region"



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Key findings

We found the salmons' home-river

We created a unique gene map of the northern salmon stocks, with comprehensive information on the salmon rivers and the different salmon stocks in the area, including their genetic diversity. This allowed us to estimate the river and region of origin of each individual salmon caught at sea.

2 We mapped the salmons' migration patterns

We developed a stock-specific migratory model to describe the spatial and temporal migratory patterns for chosen salmon stocks in the Barents region. Outer coastal regions have a higher stock diversity and a lower percentage of local stocks than the inner fjord regions.

3 We identified salmon stocks exploited in Northern Norway

We gathered information and examined the stock composition of the mixed-stock fisheries catches in Northern Norway.

4 We estimated the proportions of farmed salmon in Norwegian coastal fishery

We found that escaped farmed salmon occurred in the coastal fishery catches of Northern Norway throughout the summer from early May to the end of September.

5 We reached a mutual understanding of our rich fishing traditions

The project facilitated a more active communication, dialogue and contact between the countries management, research, fisheries associations and local fishermen. Through mutual visits and meetings, we reached a better understanding of the rich fishing traditions, coastal and Sami culture of the area.

