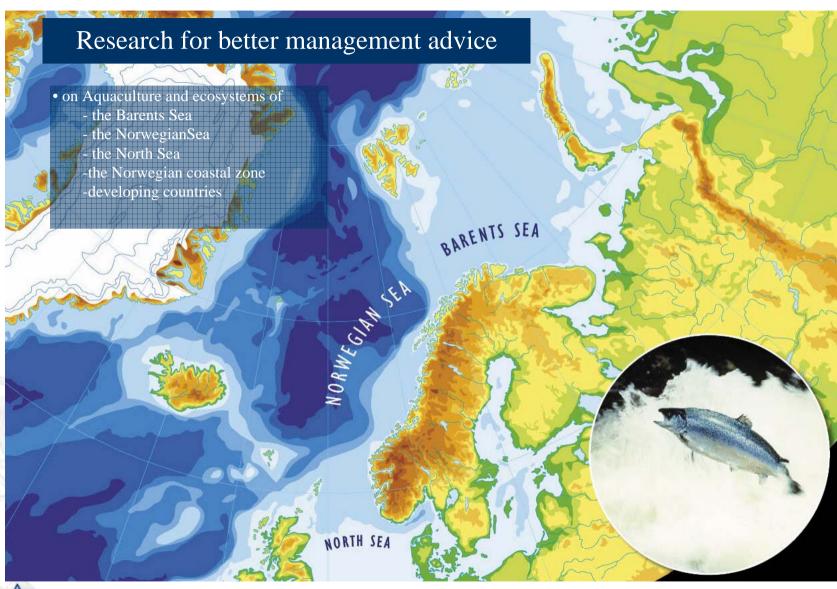
Ferrybox in the frame of the Operational Oceanography activities at the Institute of Marine Research

Henning Wehde

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Moving Ferrybox into the age of Operational Oceanography







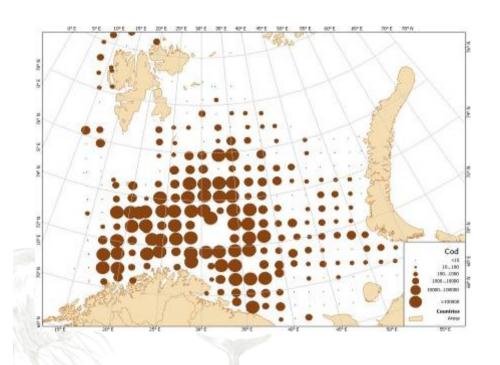
Institute of Marine Research

- Governmental institute under the Ministry of Fisheries and Coastal Affairs
- Research and advice on marine ecosystems
- Fisheries assessment
- Marine environment and climate
- Aquaculture
- 600+ employees, 200+ scientists





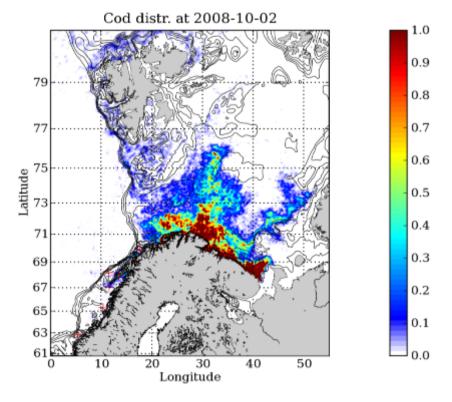
Northeast Arctic cod



Observed 0-group distr. Sept/Oct. 2008







Modelled 0-group distr. Sept/Oct. 2008

Main goal

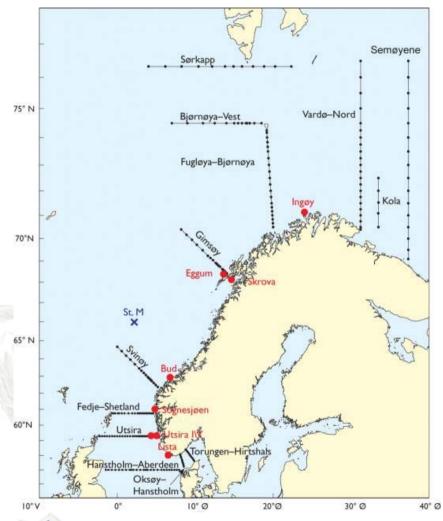
Deliver operational information on marine environment to support research and to improve knowledge-based ecosystem assessment - prediction - management

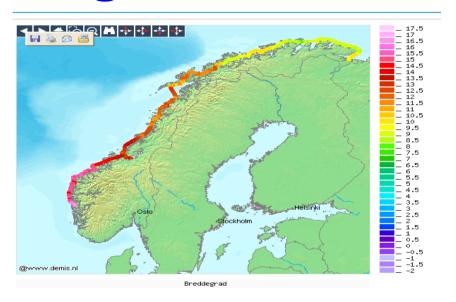


Traditional measuring programme



Regular oceanographic monitoring

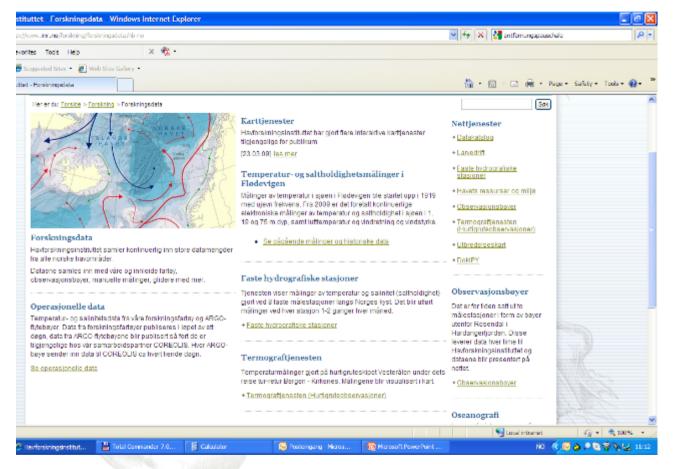




Regular Transects since 1930ties
Fixed stations since 1930ties
Thermosal/Ferrybox 1930ties
CTD stations



Oceanographic data policy

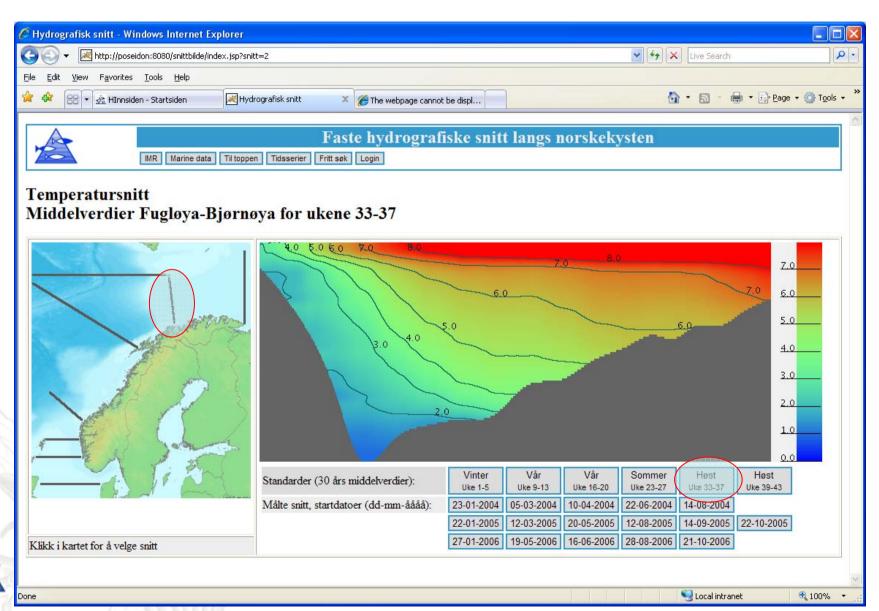


- IMR has an open data policy.
- Data management and web site production is done by the Norwegian Marine Data Centre (NMD)



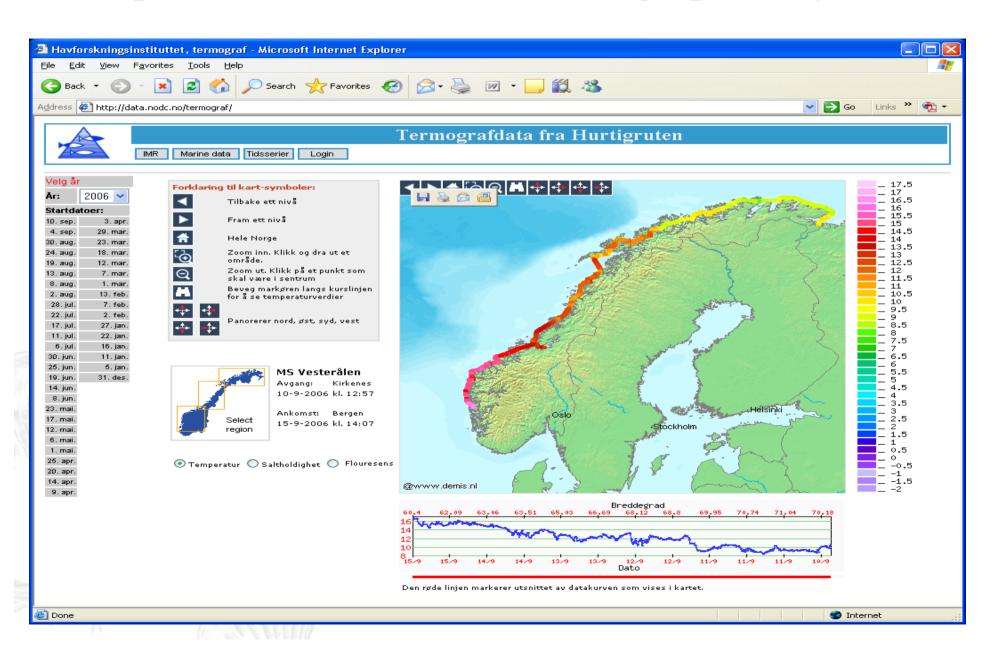


Operational data – Climatological transects



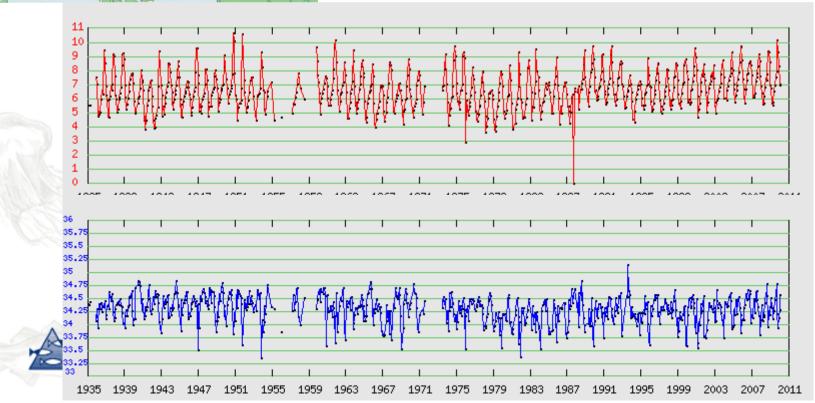


Operational data – Thermosalinograph/Ferrybox

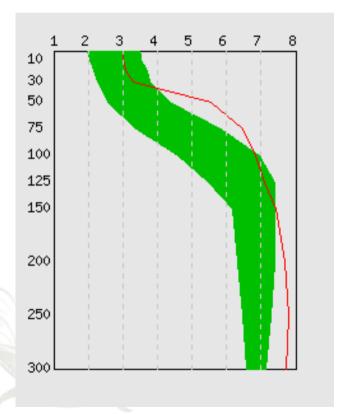


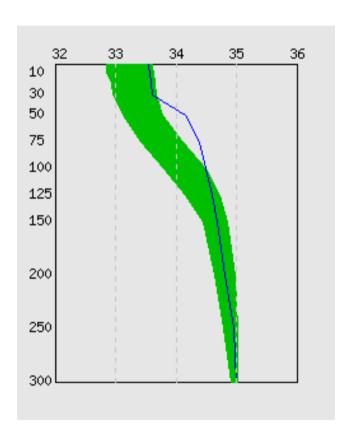


Fixed stations Eggum



Skrova 11.03.2010

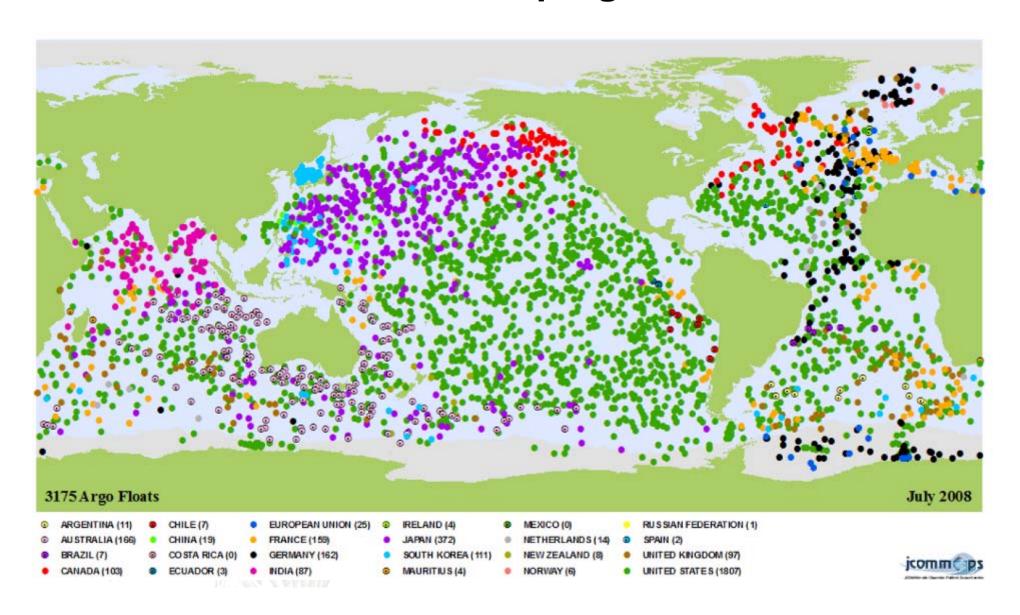




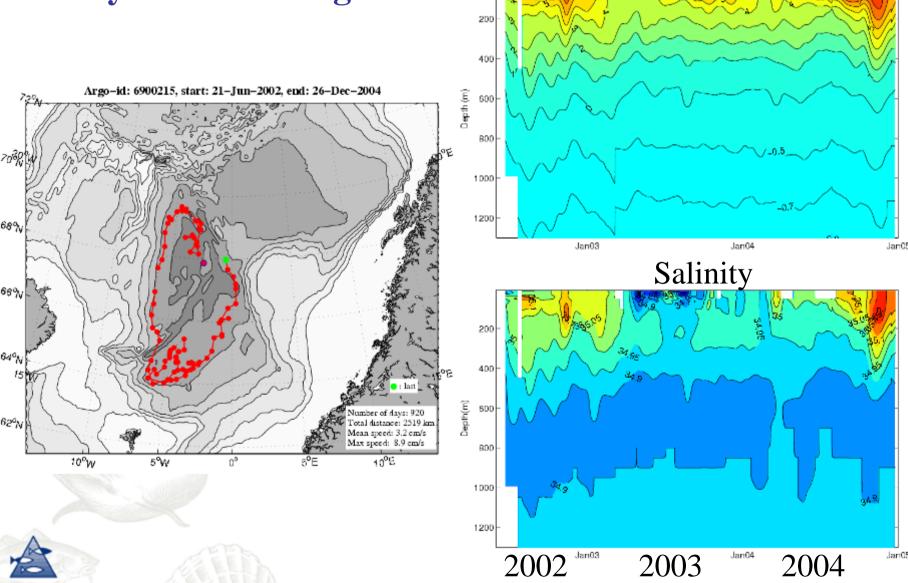




The ARGO program

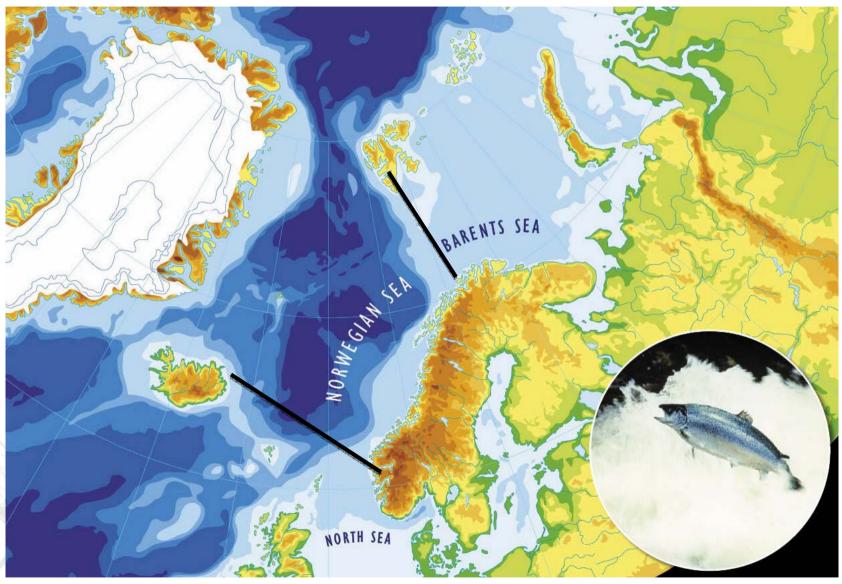


Drift, temperature and salinity from one Argo float



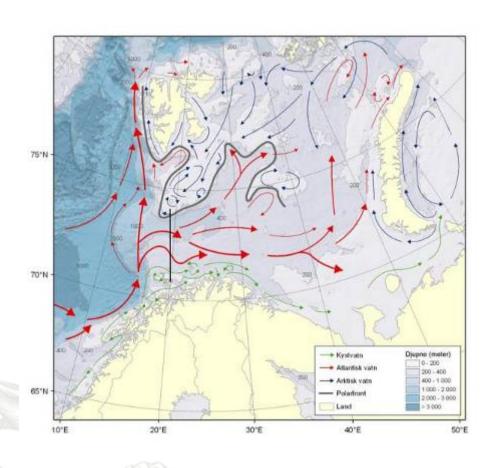
Temperature

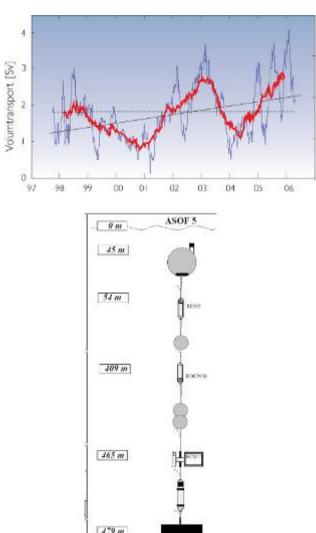
CPR





Current measurements







The research vessels

Our most important tools for collecting data on the ecosystem

CRUISE ACTIVITY 2008

Vessel	Days at Sea
G.O. Sars	276
Johan Hjort	253
Håkon Mosby	255
G.M. Dannevig	180
Dr. Fridtjof Nansen	319
Hans Brattström	216
Fangst	200
Jan Mayen	75
Chartered vessels	947
Total	2 723







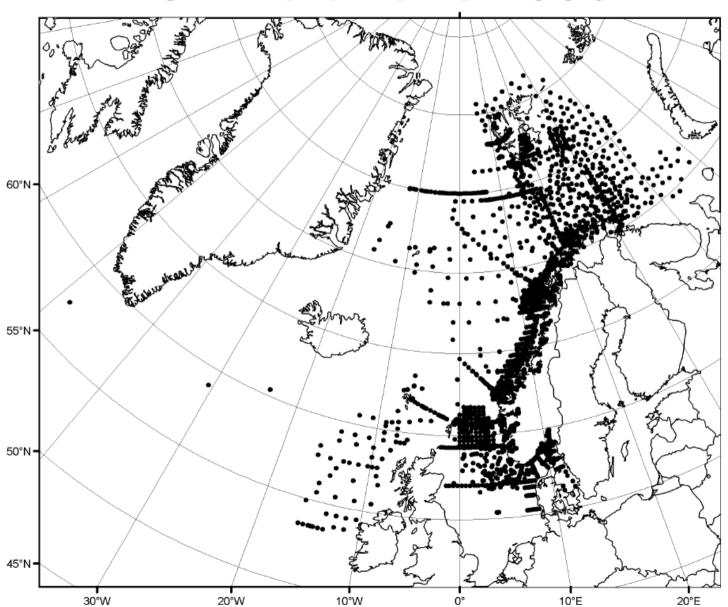




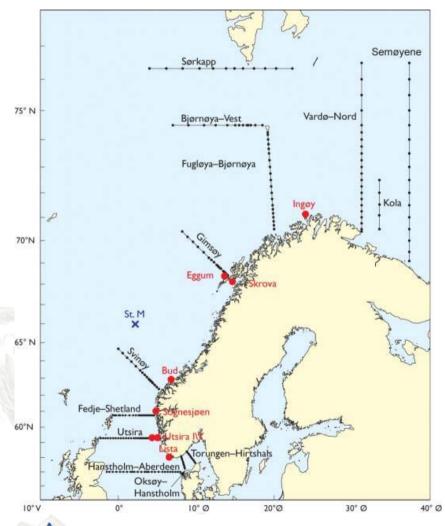


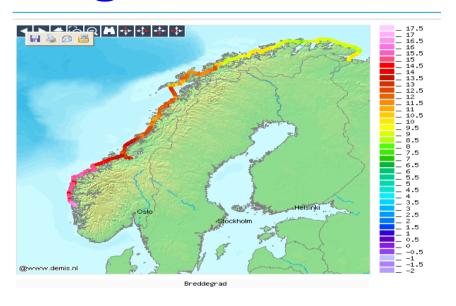


CTD stations 2006



Changing conditions for monitoring





Station M
Fixed stations
Regular transects

Thanks for your attention!

