



The capelin survey during the 2010 ecosystem investigations in the Barents Sea

with a small taste from other parts of the investigations

Seminary on board G.O. Sars 6 October 2010 Harald Gjøsæter, IMR



The capelin survey - background

- Has long traditions, back to 1972
- Russia and Norway, 4-6 vessels
- Is, from 2003 part of the ecosystem survey
- The effort is reduced since the start of the series
- One of the few examples of an acoustic survey, where the results are used directly as an absolute estimate of stock size



The capelin survey - history

- A dramatic history!
- But a very interesting history!
- Because capelin is one of the "pivot" or "key" species in the Barents Sea ecosystem, its dynamics signals fundamental events in the Barents Sea

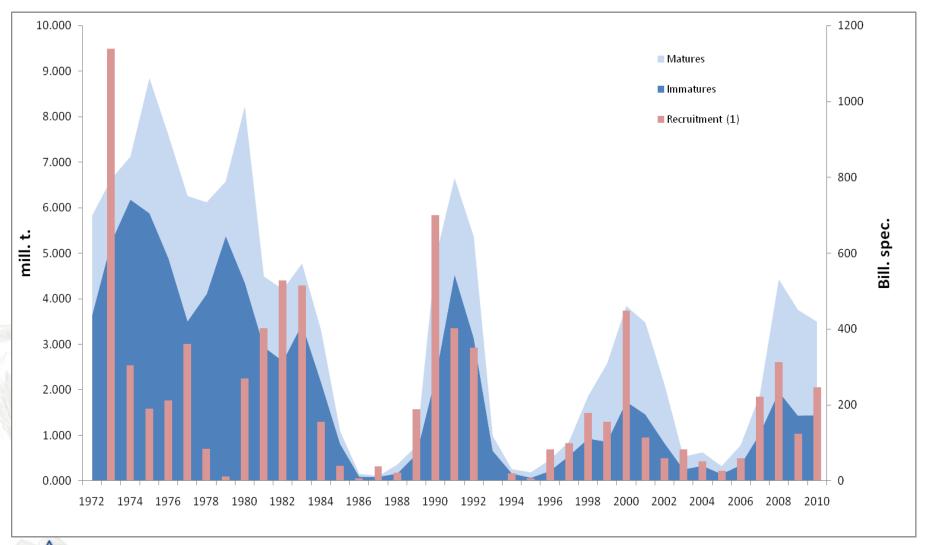


The capelin survey - results 2010

- "Impressions"
- Distribution
- Stock size
- Stock structure



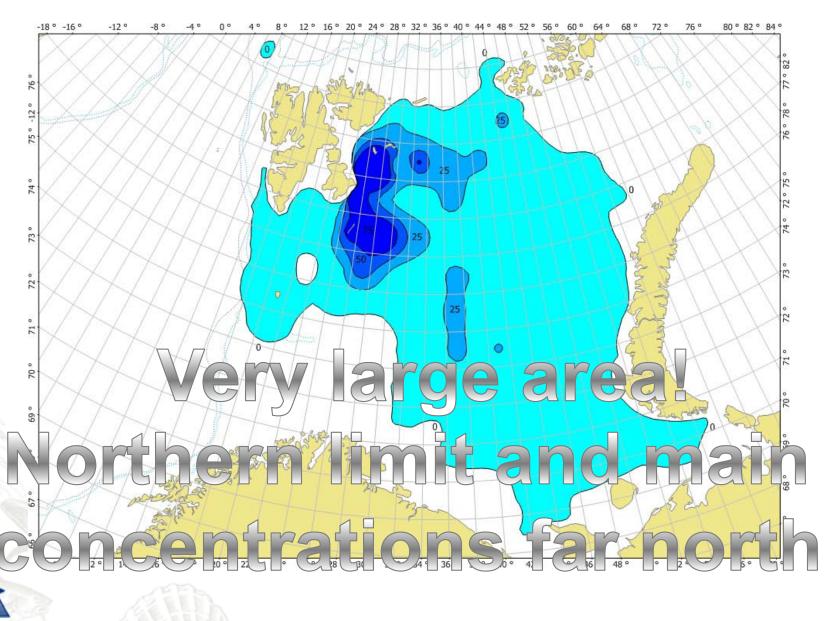
A dramatic but interesting story



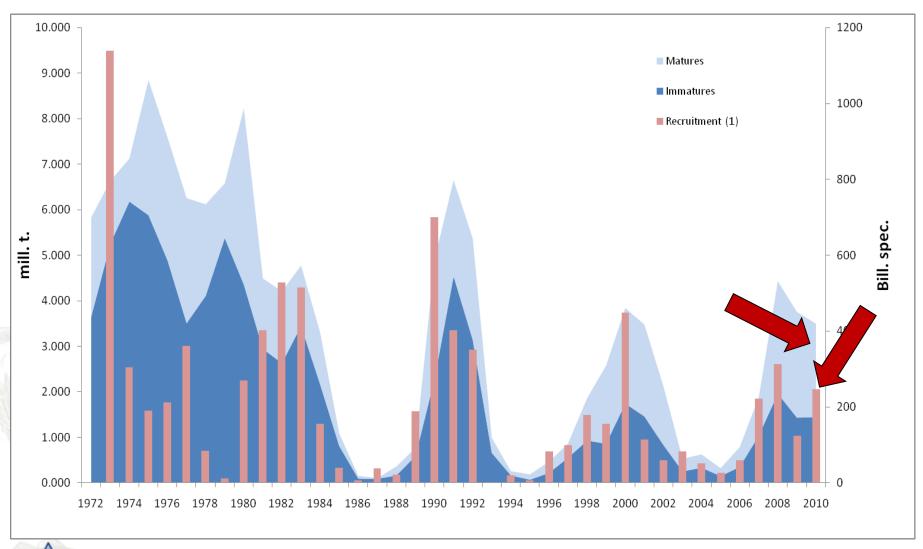




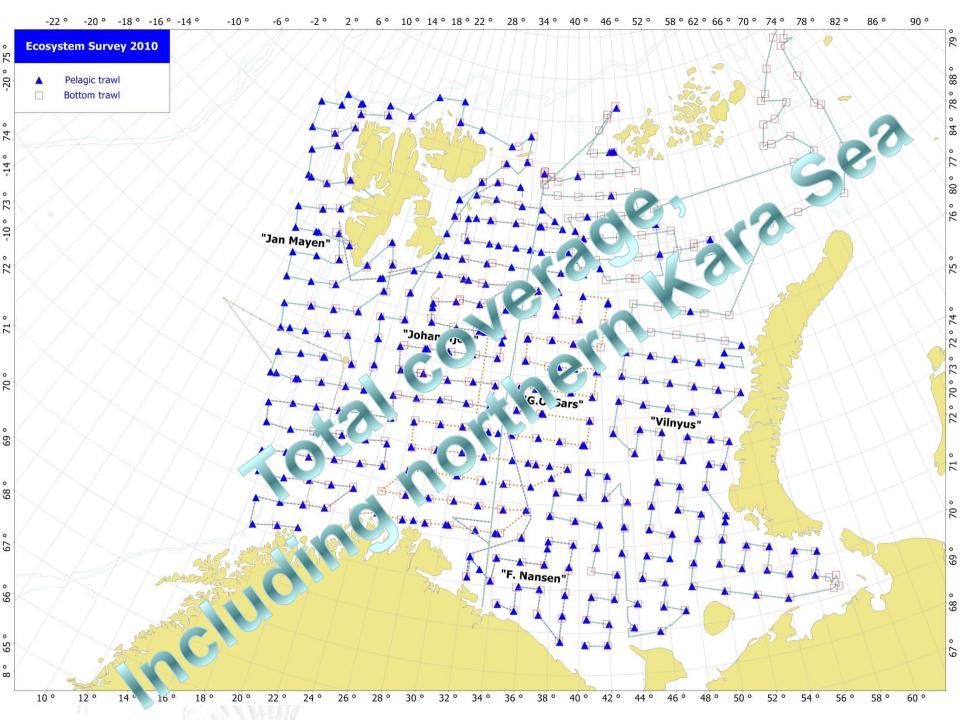
Capelin distribution



Stock size and structure

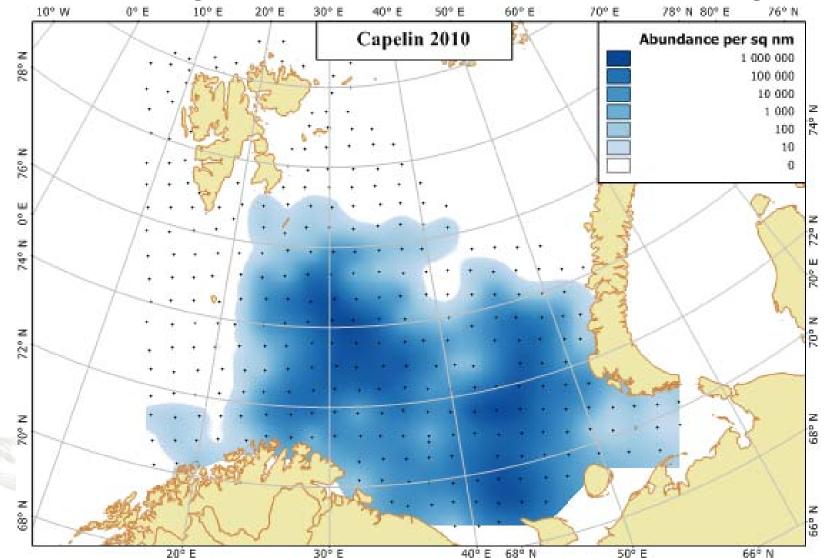






Recruitment

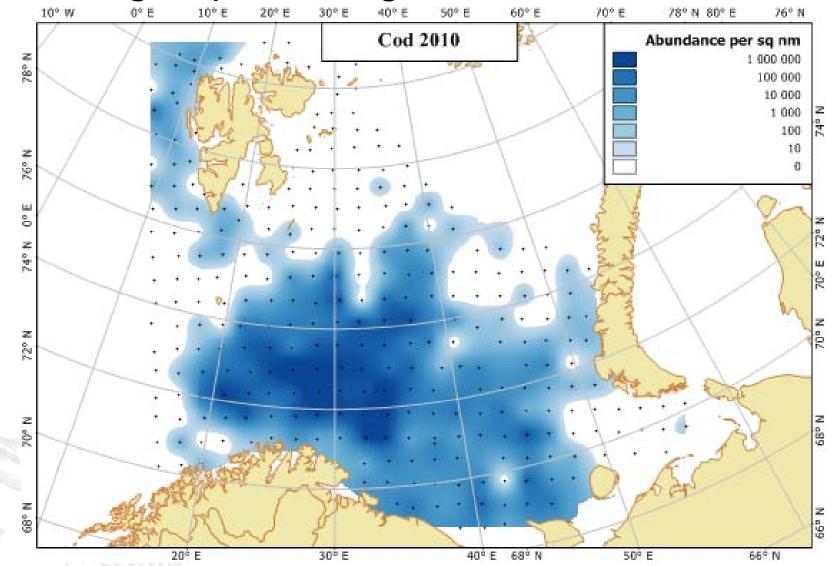
Capelin 0-group – a litle bit above average





Recruitment

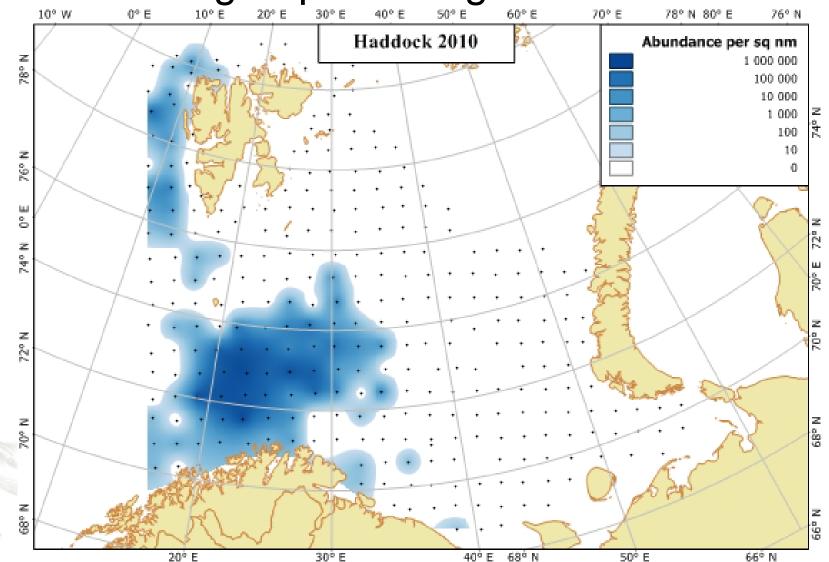
Cod 0-group – strong





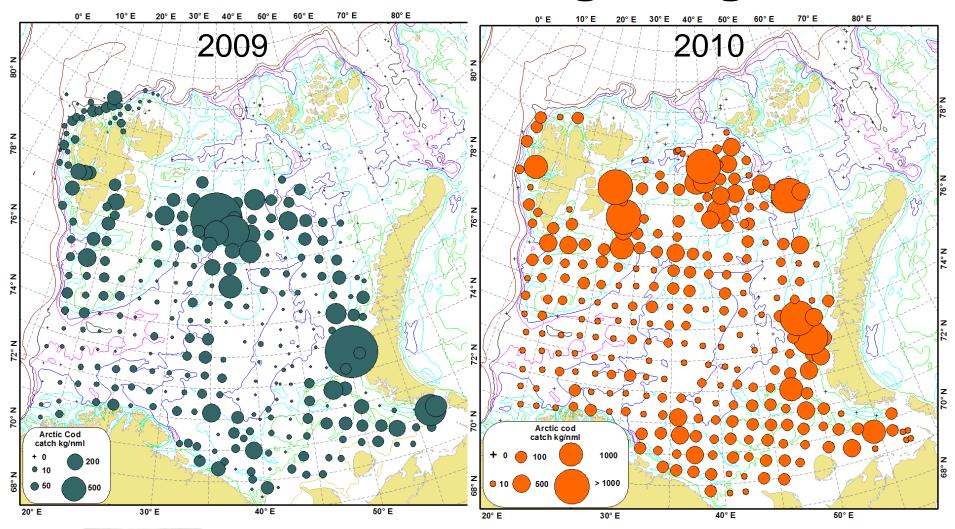
Recruitment

• Haddock 0-group — strong





Other interesting things

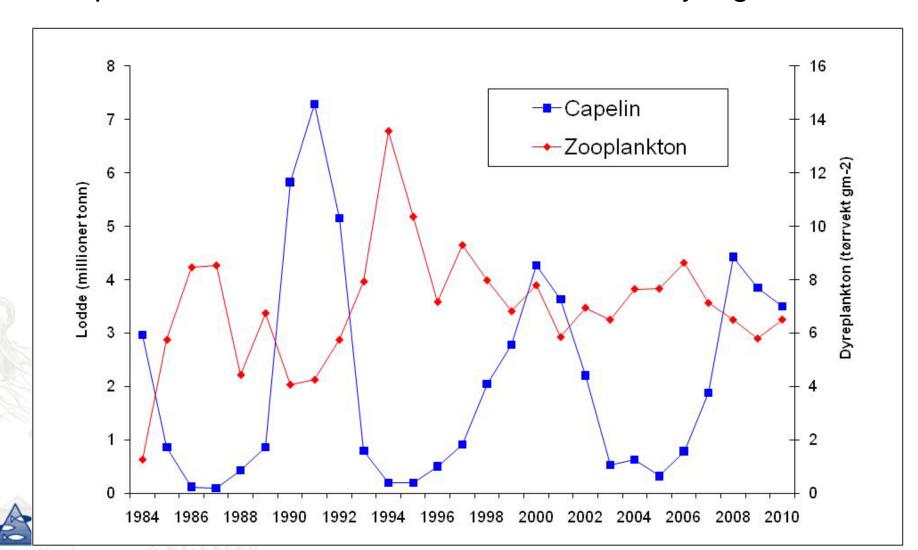




Cod distribution in 2009 and 2010

Plankton production

Zooplankton biomass at a stable and relatively high level



Conclusions

 Its too early to draw any final conclusions from this survey, but the impression so far is that:

The Barents Sea is in a healthy state, with high plankton production, large fish stocks, and good recruitment to these fish stocks



Chackeo 3a Baille BHMMaHMe Takk for merksemda

