

Experiences and Observations on Seismic Activities in Greenland

Oil & Gas Summit Iqaluit Jan. 13. 2015

Bjarne Lyberth

KNAPK,

The Association of Fishers & Hunters in Greenland



Photo: Peter Hegelund



KNAPK – objectives

- National organisation of 70+ of fishermen and hunters' associations
- Established in 1953
- Negotiates prices with producers and export companies on behalf of the members for fish, shellfish and sealskins and other species for subsistence use.
- Negotiates and lobbies to improve conditions for its members with the government and members of the Parliament
- Appoints members to committees and other institutions – national, regional and international bodies f.i. JCNB, IWC, NAMMCO, NASCO etc.

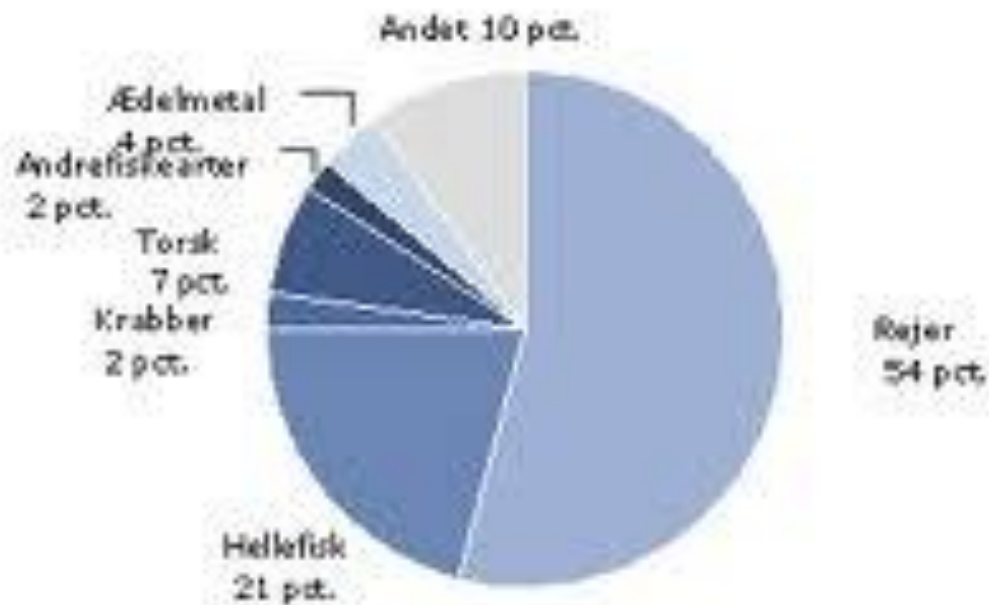


KNAPK – position on hydrocarbon exploration

- KNAPK is against hydrocarbon activities in our waters because of;
- 90% of our income is from living marine resources
- Threats from Seismic activities and other disturbances
- No existing technology to clean oil spills in ice filled waters

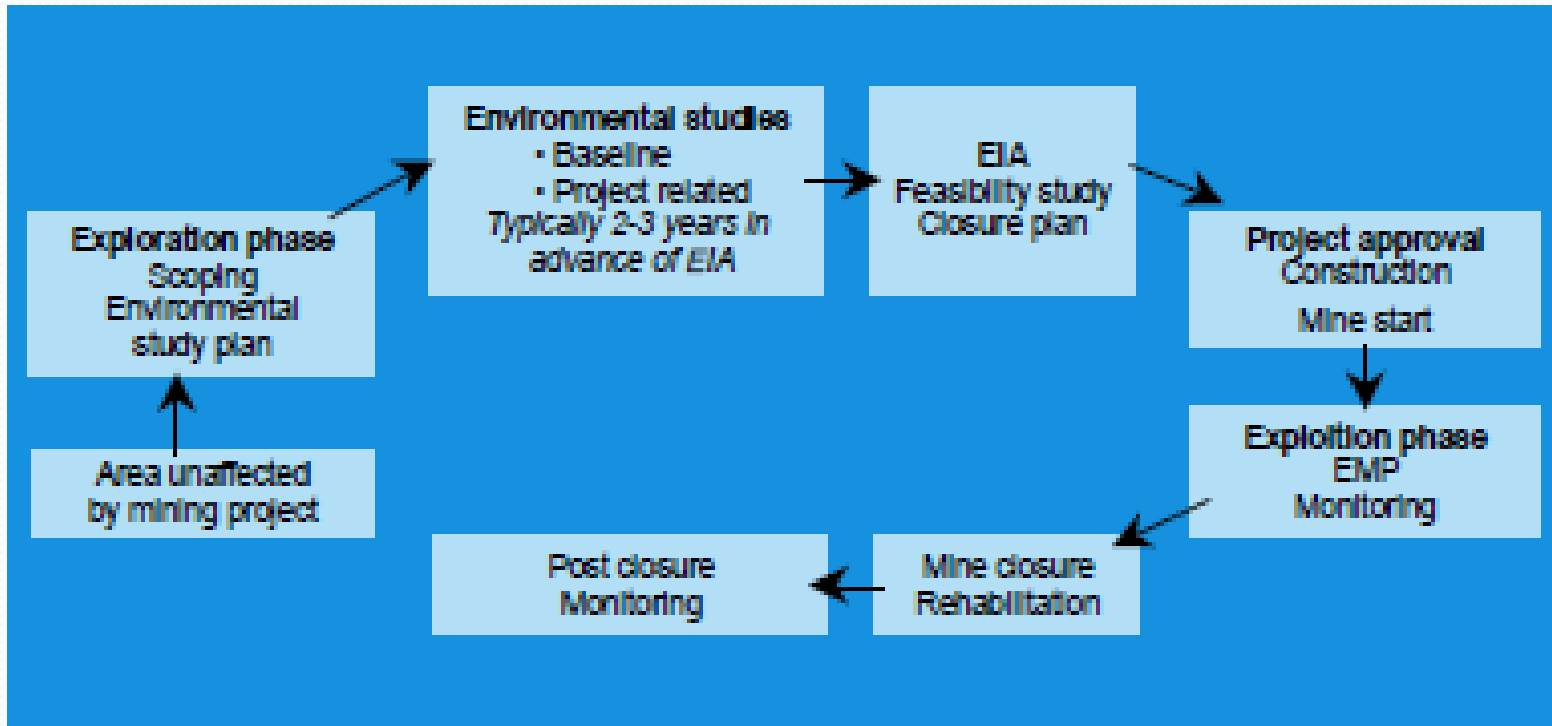


Greenland exports 2009



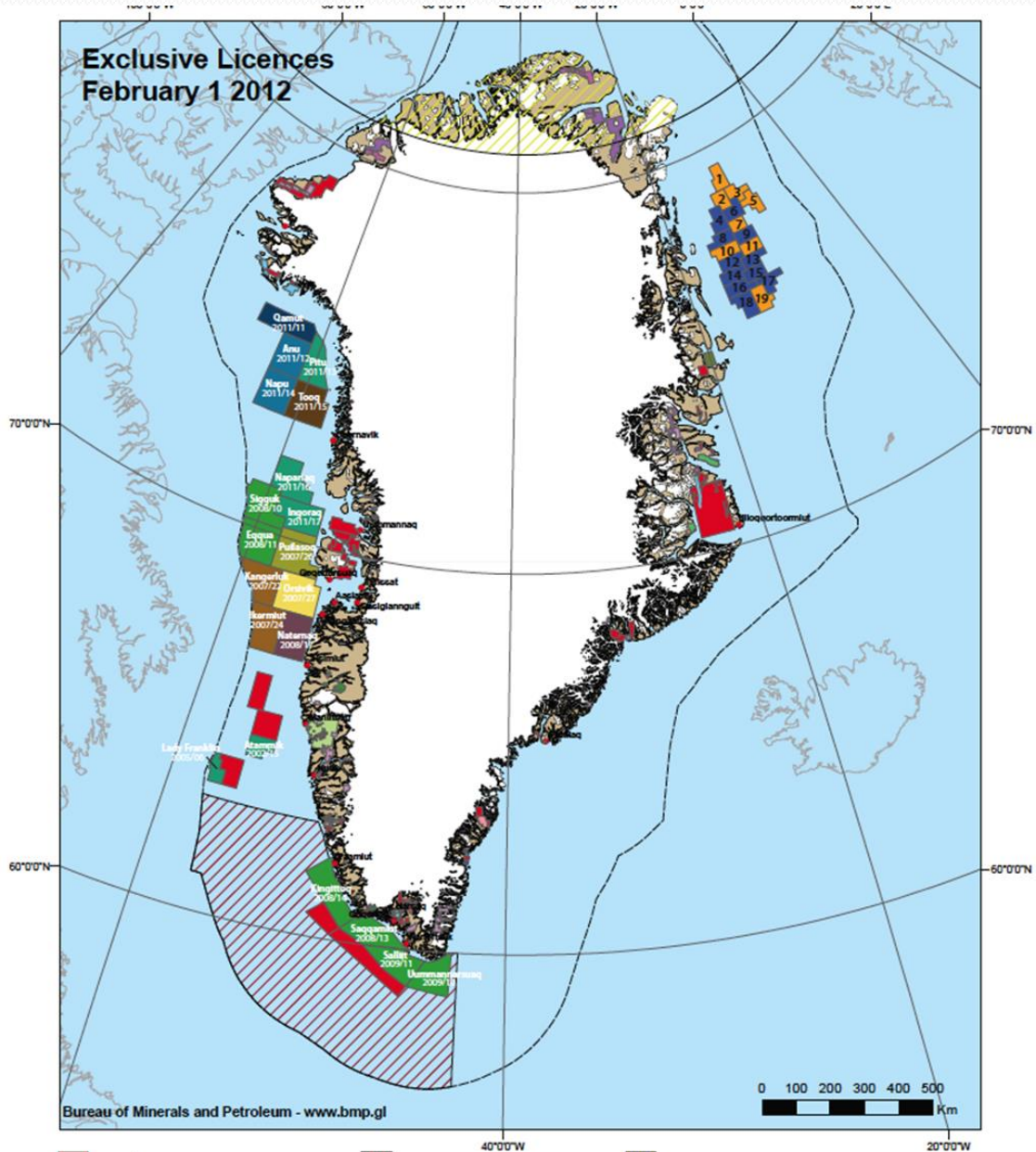


The EIA process in Greenland



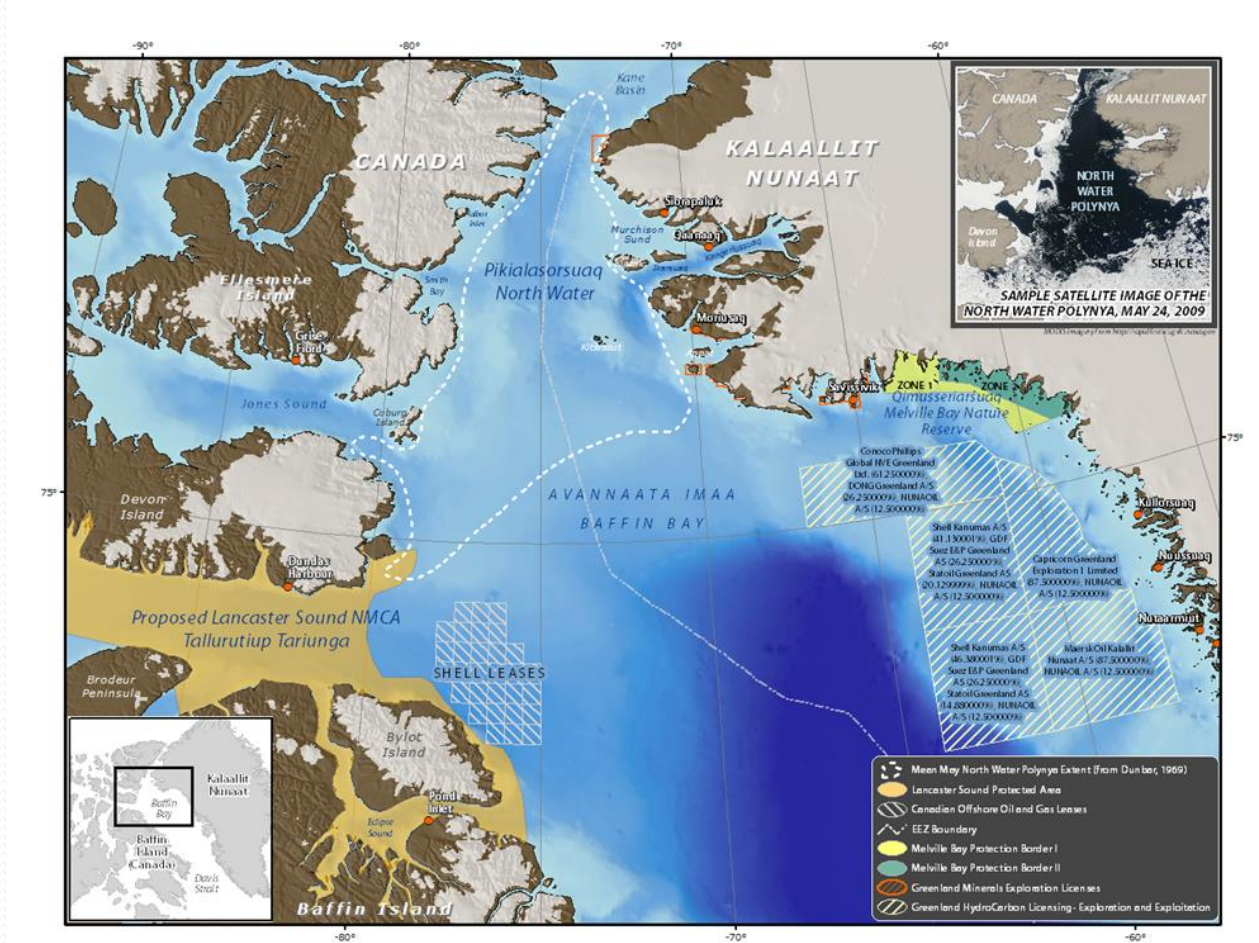


Exclusive Licences February 1 2012





Pikialasorsuaq and Baffin Bay





Pikialasorsuaq cooperation workshop sept. 2013



Photo: Mads Ole Kristiansen



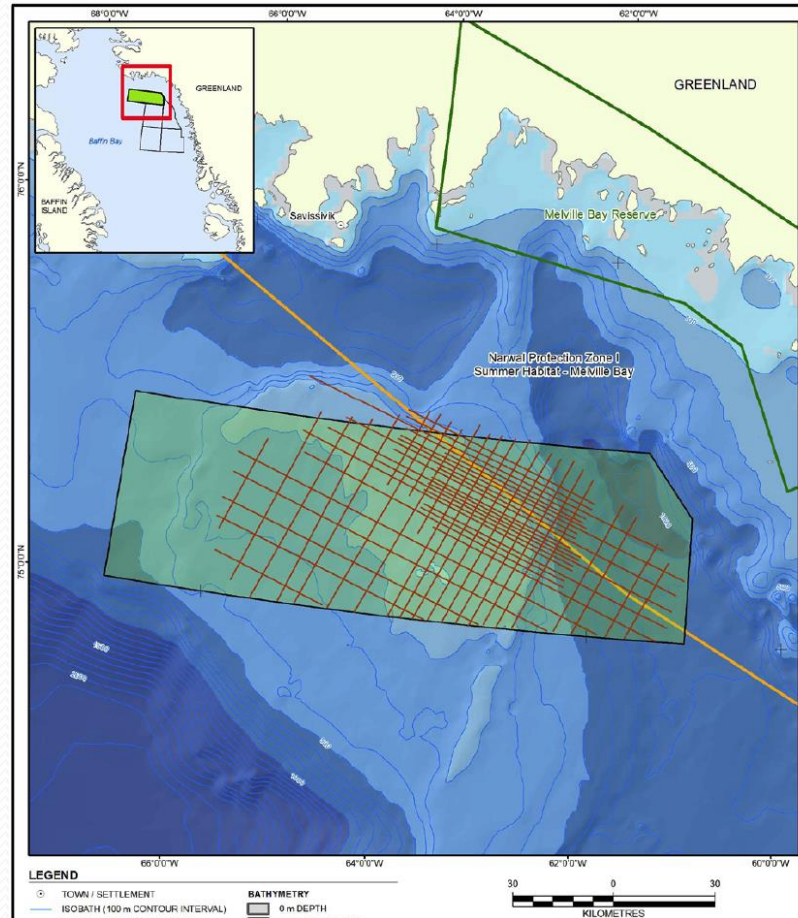
Pikialasorsuaq cooperation workshop sept. 2013

- To strengthen cooperation between Nunavut and Greenland on the protection of the North Water Polynya
- Hosted by ICC Greenland and Oceans North Canada
- Participation from northern Nunavut (QIA) and Northwestern Greenland hunters communities, organizations, scientists and government officials
- Opportunity for hunters to share experiences



Seismic activities in Baffin Bay 2012

one example





Narwhal hunting



Photo: Peter Hegelund

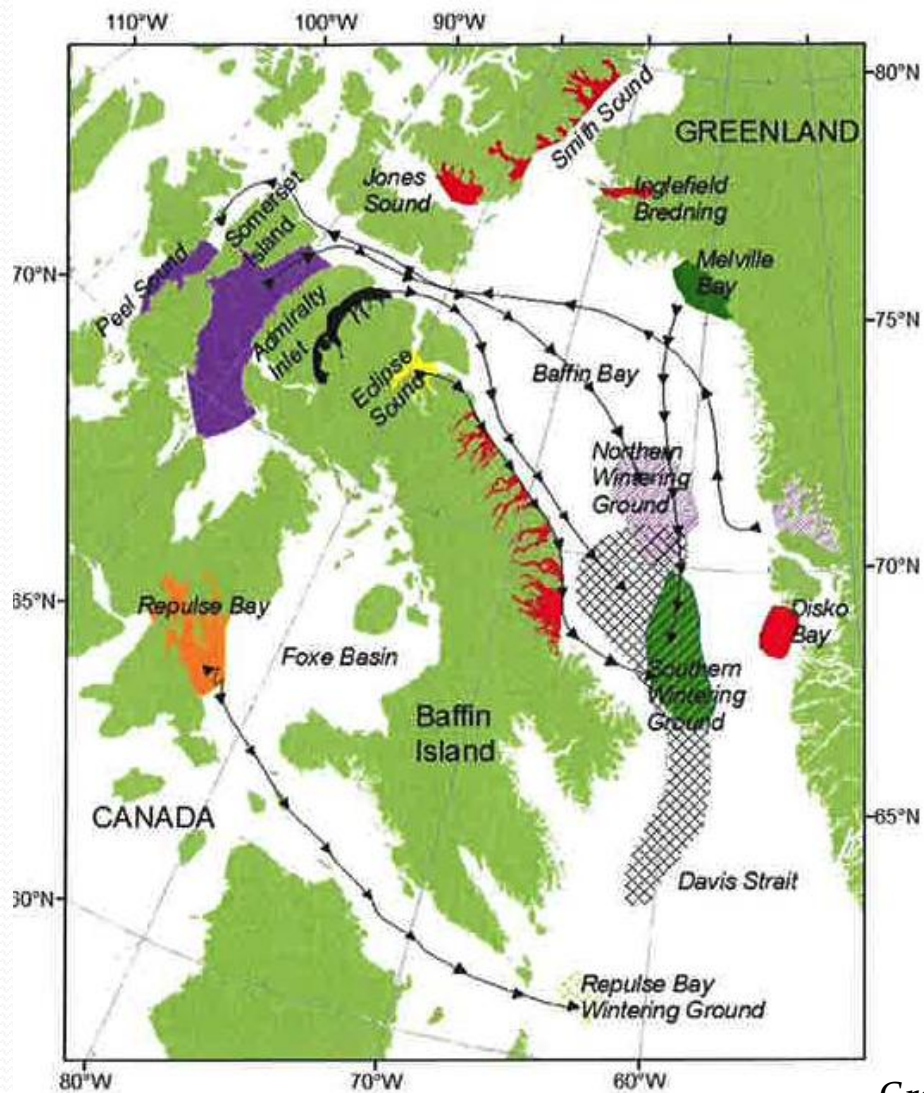


Why narwhal hunting?

- Sealskin eksport almost impossible
- Fishery of Greenland halibut (turbot) declines when narwhals are present
- Trade of mattak (whale skin) is the only feasible source of income



Distribution of different narwhal populations





Qaerngaaq Nielsen



Photo: Augusta Jeremiassen



Observations Melville Bay 2013

”The behaviour of the belugas and narwhals is not the same. They seem to be disturbed all the time, as if they get electrical shock and do not surface from the water thus making it very difficult to approach them. So far, I have not been able to catch the number of whales I normally catch at this time of the year.”

Qaerngaaq Nielsen



Mads Ole Kristiansen



Photo: Parnuna Egede



Observations Inglefield Breeding 2013

- Narwhals less stirred when hunted
- Hunters assume that these are narwhals from other populations



Observations 2014

Melville Bay:

- Less calves
- Otherwise behavior back to normal

Inglefield Breeding:

- Same as 2013

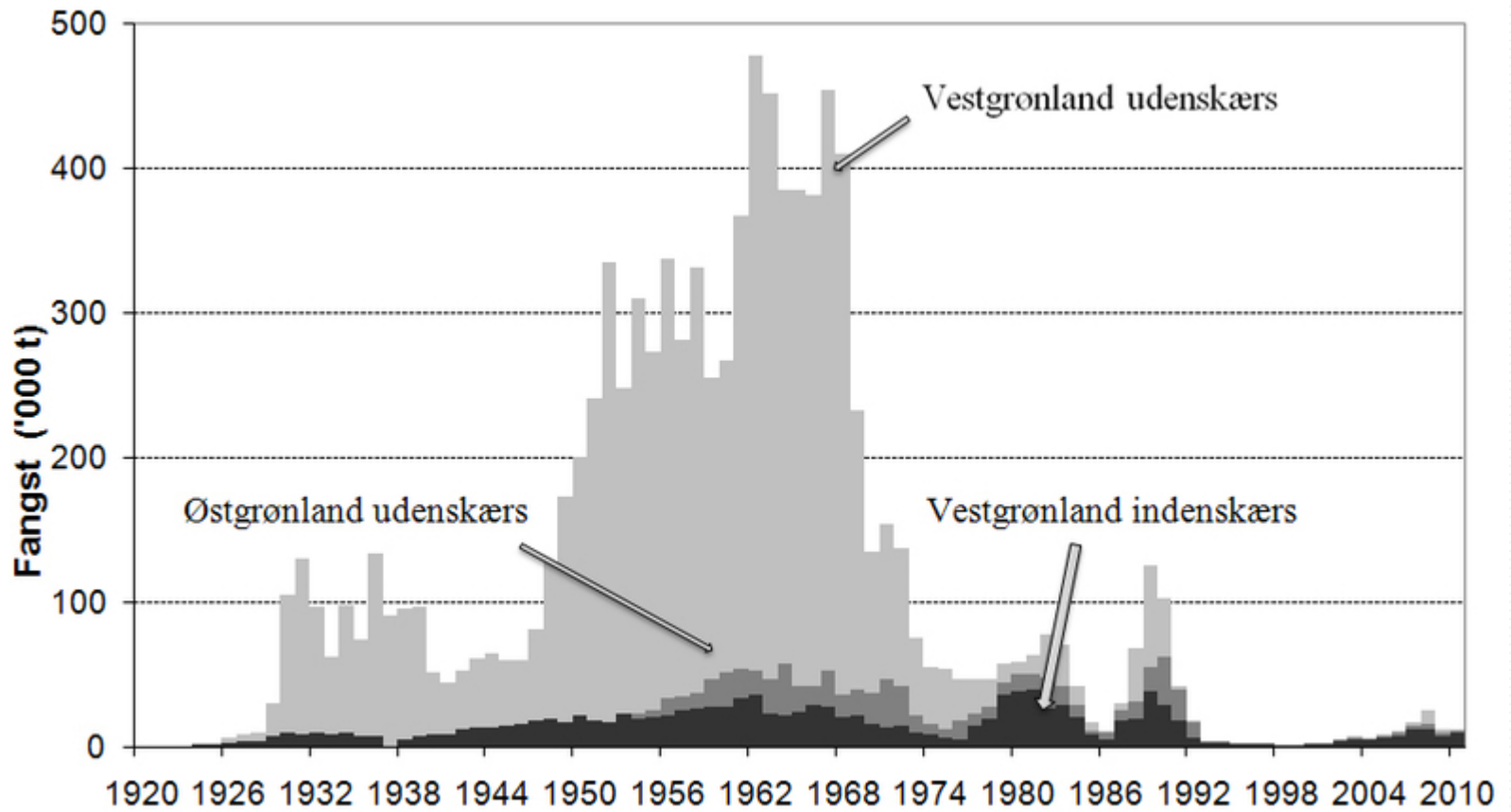


Cod in Greenland



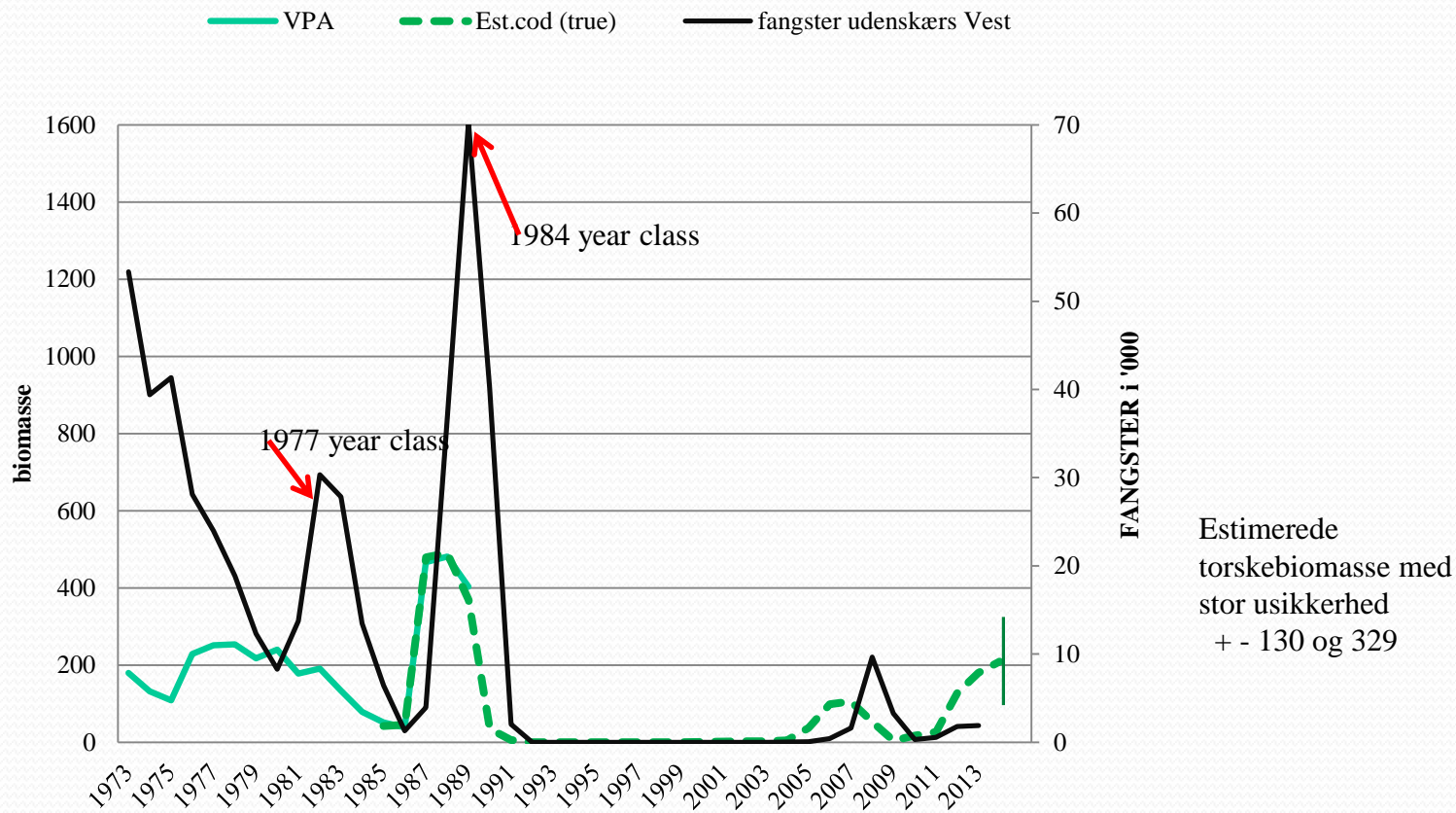
Torsk, 55 cm

Anja Retzel



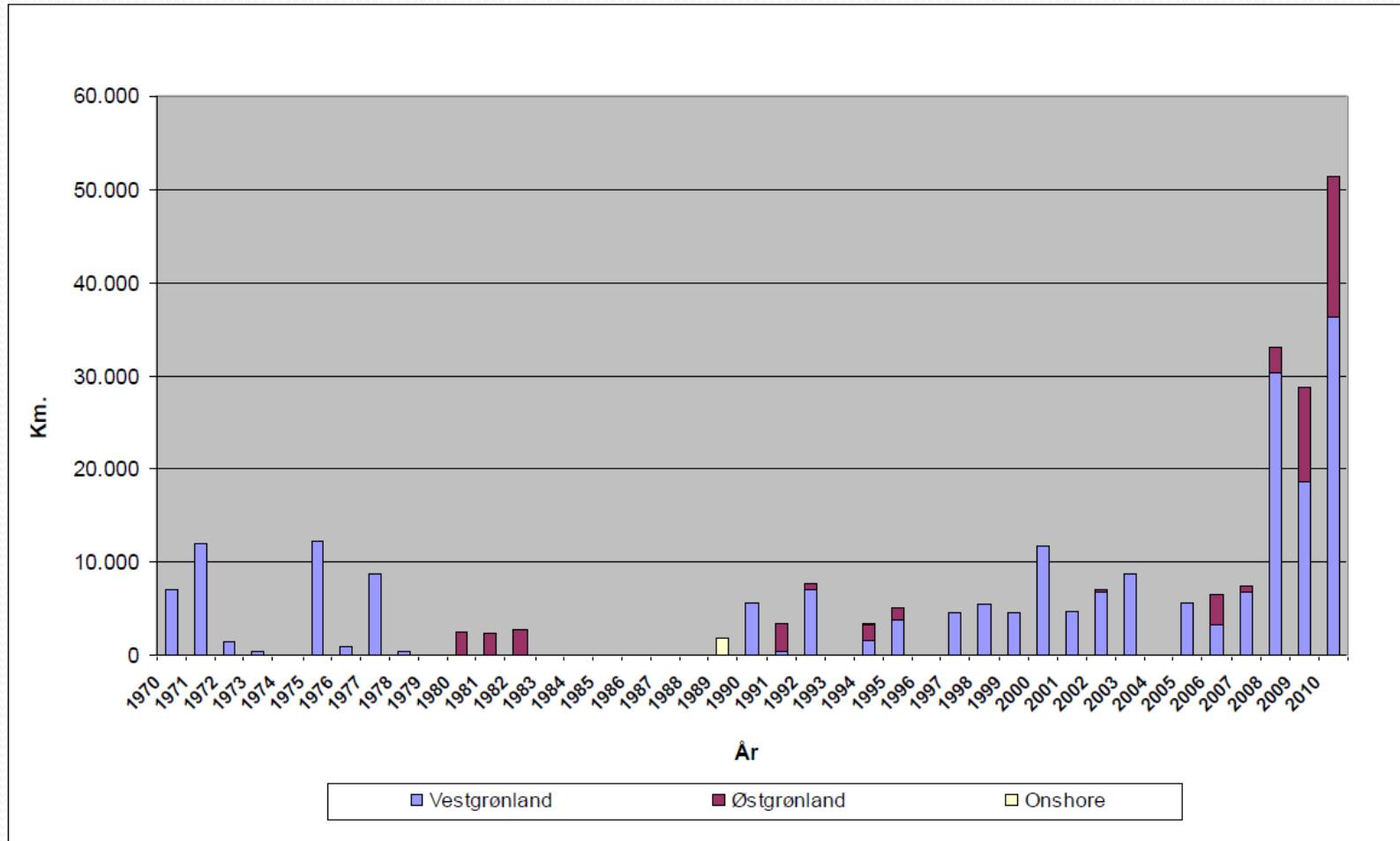


Historical catches of cod in Greenland



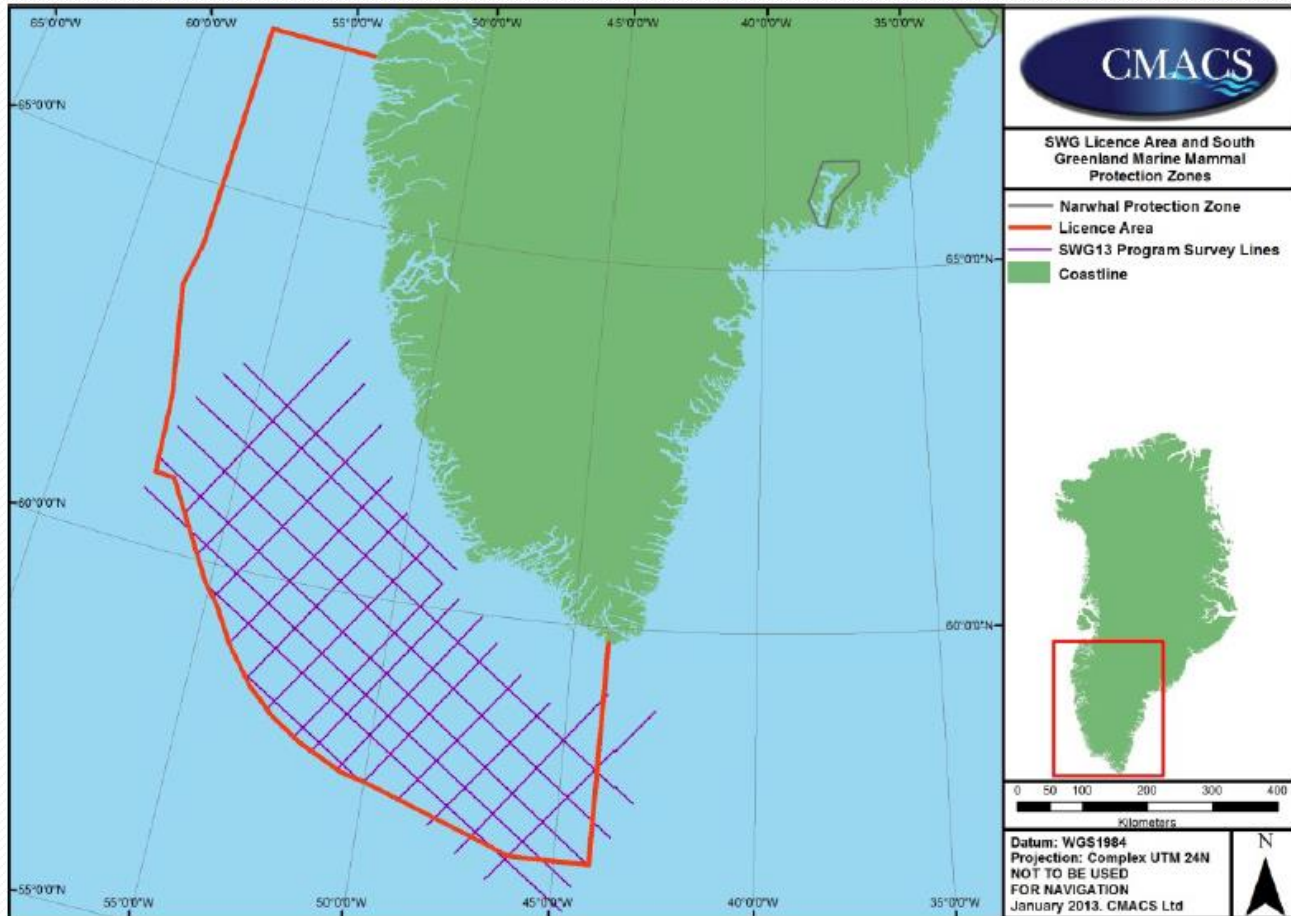


Seismic activities in and off Greenland in line kilometers





Seismic activities off Greenland 2013



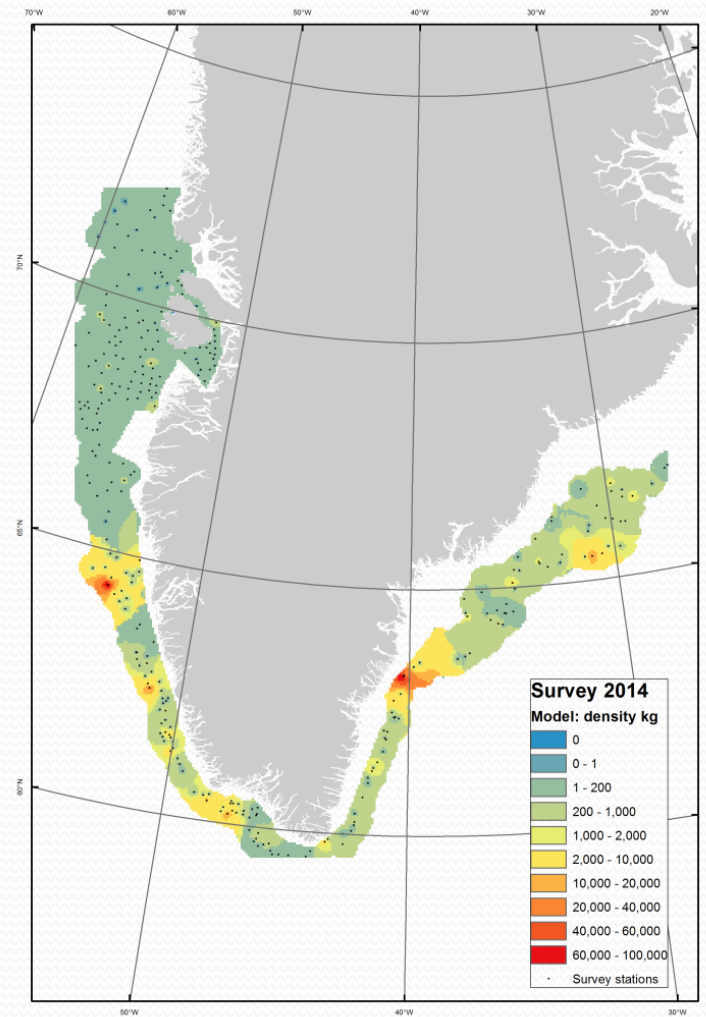
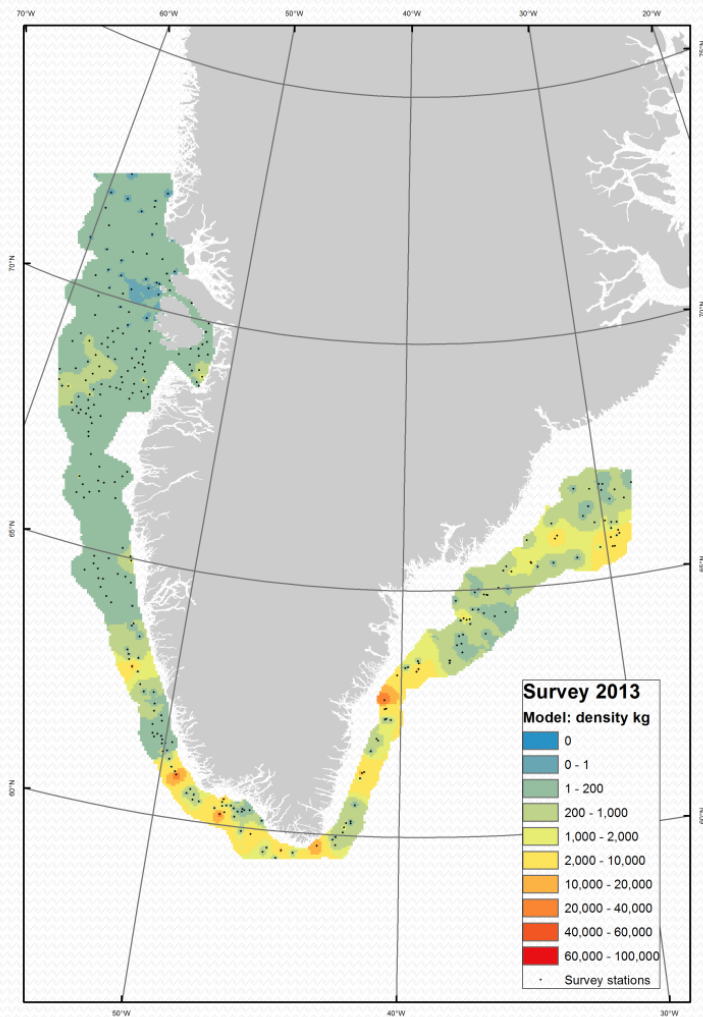


Greenland fisheries survey

Biomass pr. station

2013, 303 stations

2014, 331 stations

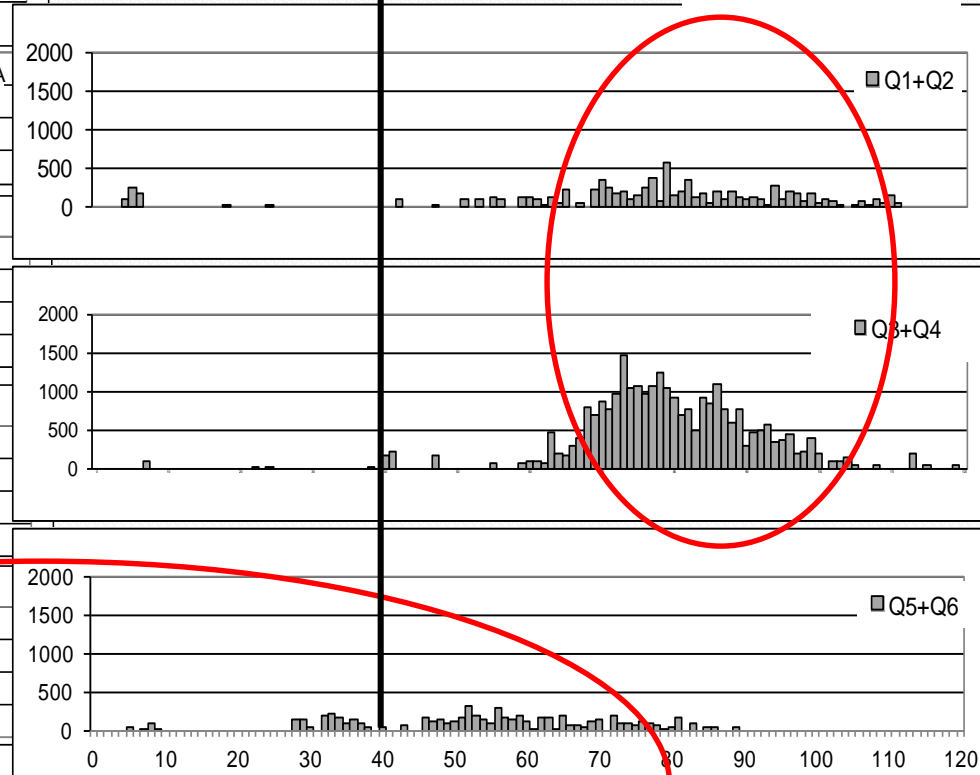
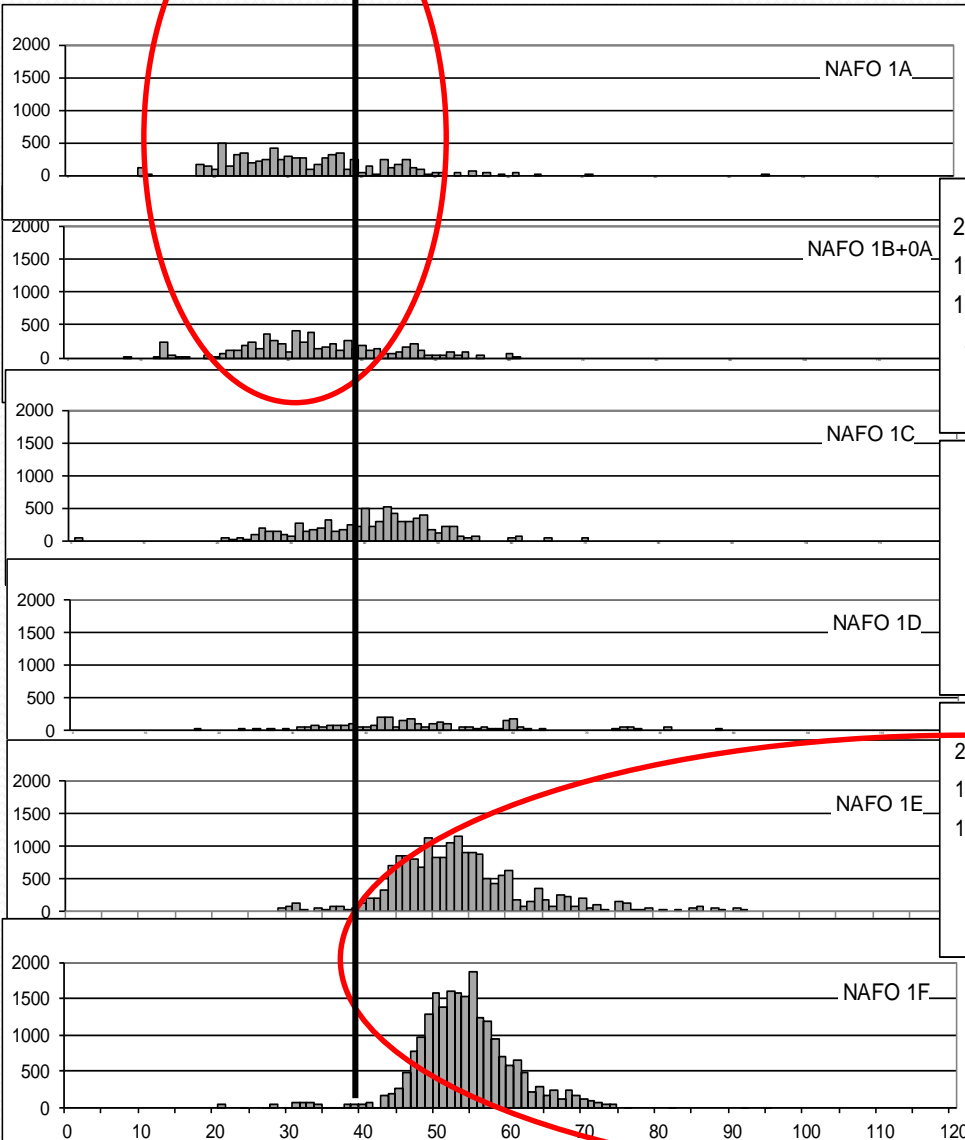


Greenland fisheries Survey

Length distribution 2014

1-3 årige
Nord Vest

+7 årige
Nord Øst



4-6 årige
Syd



Fiskeribladet Fiskaren

kystavisa

Sprengfeit konge – seismikk får skylden

Fiskerne skylder på seismikkskyting for kongekrabber sprengfulle av mat. Krabbene fråtser i drepte larver og yngel, og forskerne avviser ikke at seismikkskyting er årsaken. Side 4-5

MANDAG 15. desember
2014
Løstalgje 30 Norderen 00K 30 Årping 7 for 145 Østfjell

Leder: Å endre deltal
loven er dødsstøtet f
råderetten

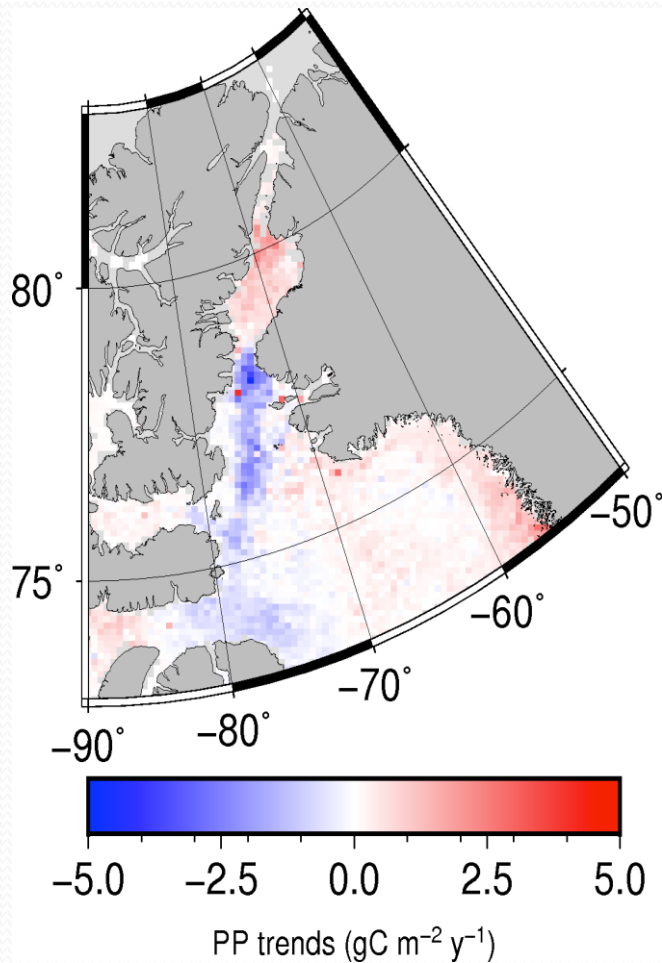


Lisbeth: Ba al
å fjerne deltal
loven Side 10-

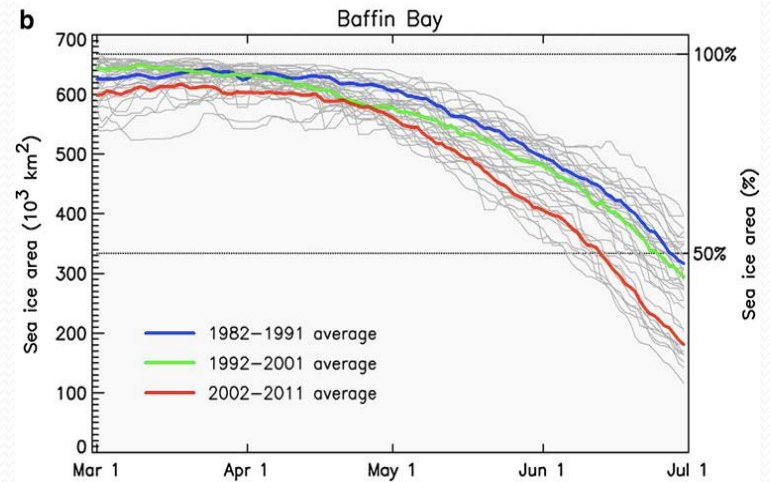
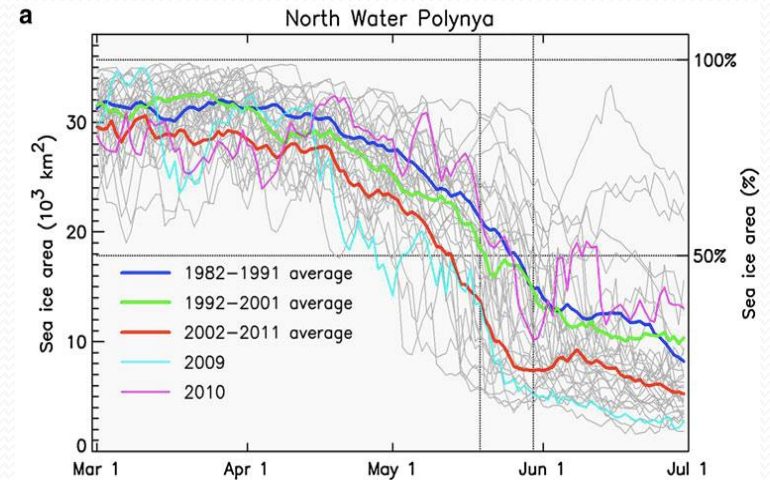
**Samherji kjøp
seg opp i Ner
Side 3**



Other changes in Pikialasorsuaq and Baffin Bay



Bélangier (unpublished)



Heide Jørgensen et al 2012



Messages

- Make use of all the knowledge available
- Consider both best and worst case scenarios in EIAs and SIAs

Qujanaq - Qujannamiik
Thank you - Merci





Employment in Greenland

