

Monitoring marine mammals

- scientific advice on sustainable hunt

Uumasunik imarmiunik nakkutilliineq

- piujuartitsisumik piniarneq pillugu ilisimatusarnikkut
siunnersuisarneq



Greenland Institute of Natural
Resources
Pinngortitaleriffik

A case example - monitoring a narwhal stock

Assersuut – qilalukkanik qernertanik nakkutilliineq

Planning, research questions

Pilersaarusionerq, ilisimatusarnikkut apeqqutit

Interview survey

Apeqqarissaaraluni misissuineq

Catch reports from hunters

Piniartunit pisanut naatsorsueqqissaarutit

Biological parameters of narwhals

Qilalukkanut qernertanut uumassusermut najoqqutassiat

DNA analyses

Stock identity

DNA – uumasogatiit iluserisaat

Satellite telemetry

Movements / stock identity

Calibration of aerial surveys

Qaammataasatigut nalunaaqutsersuinerit

Aerial surveys

Abundance, distribution & trends

Timmisartumit kisitsinerit uumasogatiinnullu kisitsisaasut



Narwhal Qilalugaq qernertaq

At least ten summer stocks of narwhal

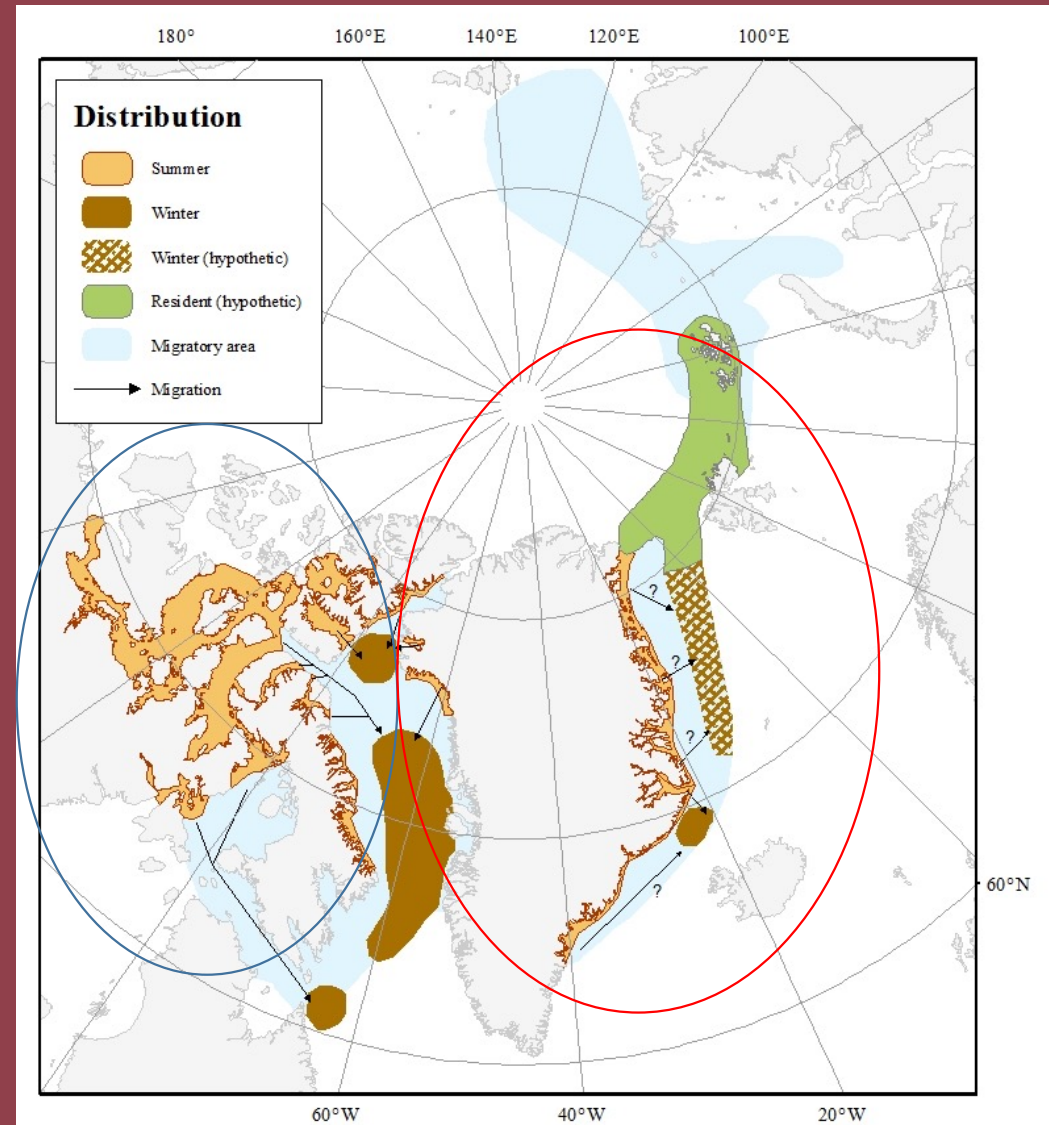
Qilalukkani qernertani uumasogatigiikkuutaat
ikinnerpaamik qulit

The largest stocks inhabit Arctic Canada where narwhal
number app. 100,000 animals (largest stock 30,000)

Uumasogatigiikkuutaat 100,000-it pallissimasaat
Canadamiipput

App. 10,000 inhabit northwest Greenland and
over 6,000 occur in East Greenland / Norway

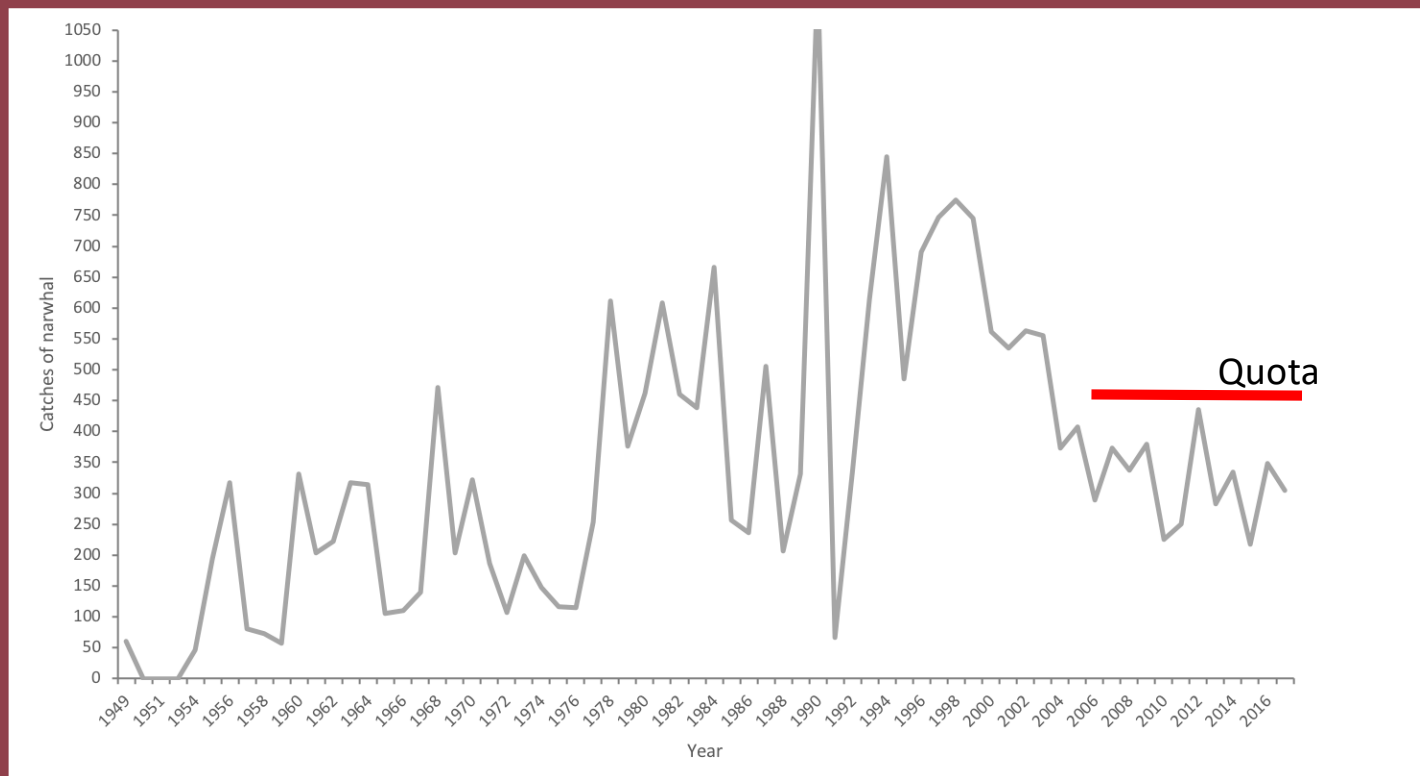
Qilalukkat qernertat 10,000-it missaat Kalaallit Nunaata
Avannaata-kitaaniipput, 6,000-illu missaat Tunup
Norgellu akornanniipput



Depleted populations

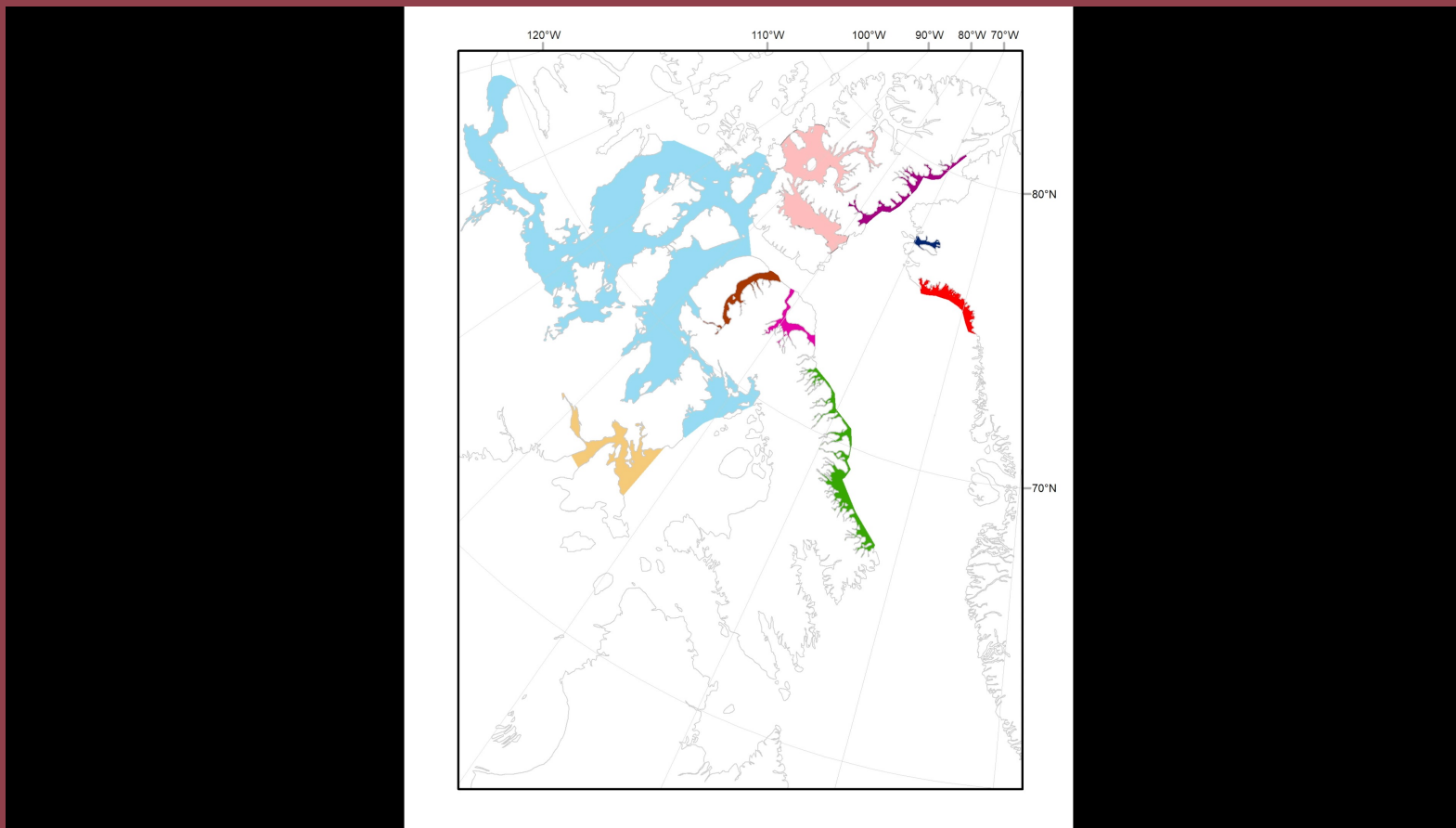
“the consumption of a resource is faster than it can be replenished”

Uumasuusut ikilisimasut
Pisuussutaasumik atugaqarneq nutaanik
piliorsinnaaneranut naleqqiullugu sukkaneruvoq



Mixed stocks in winter

Umasoqatigiit ukiuunerani imminnut kattussuuttarput



Narwhal counts
on the hunting grounds
Piniariartarfinni qilalukkat
qernertat

Inglefield Bredning 1985+86+2001+02+07+19

Melville Bay 2001+02+07+12(3)+14+19

Northwater Winter 2009+10

Northwater Winter coastal 2014+18

Vest Greenland

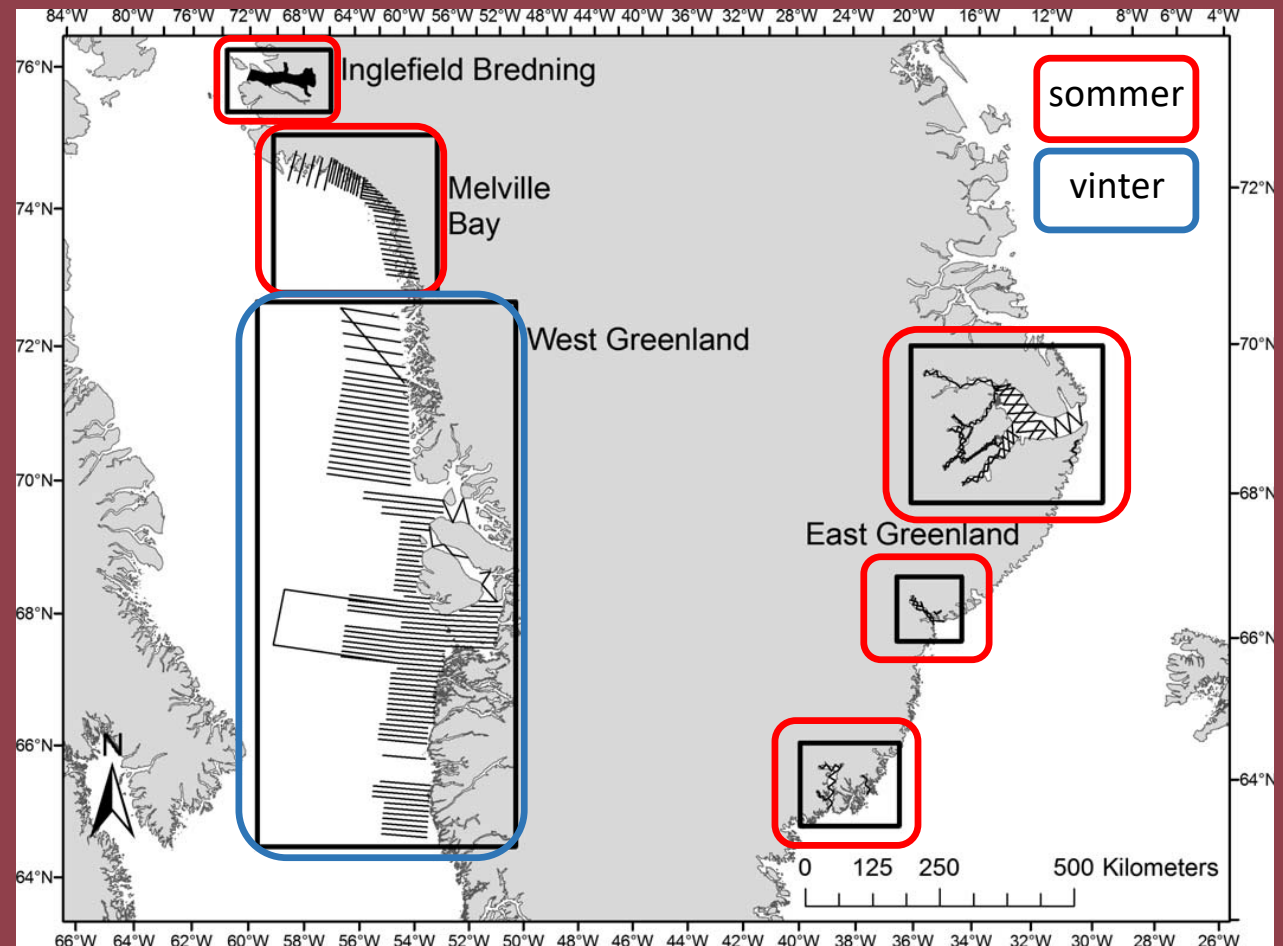
1981+82+90+91+93+94+98+99+

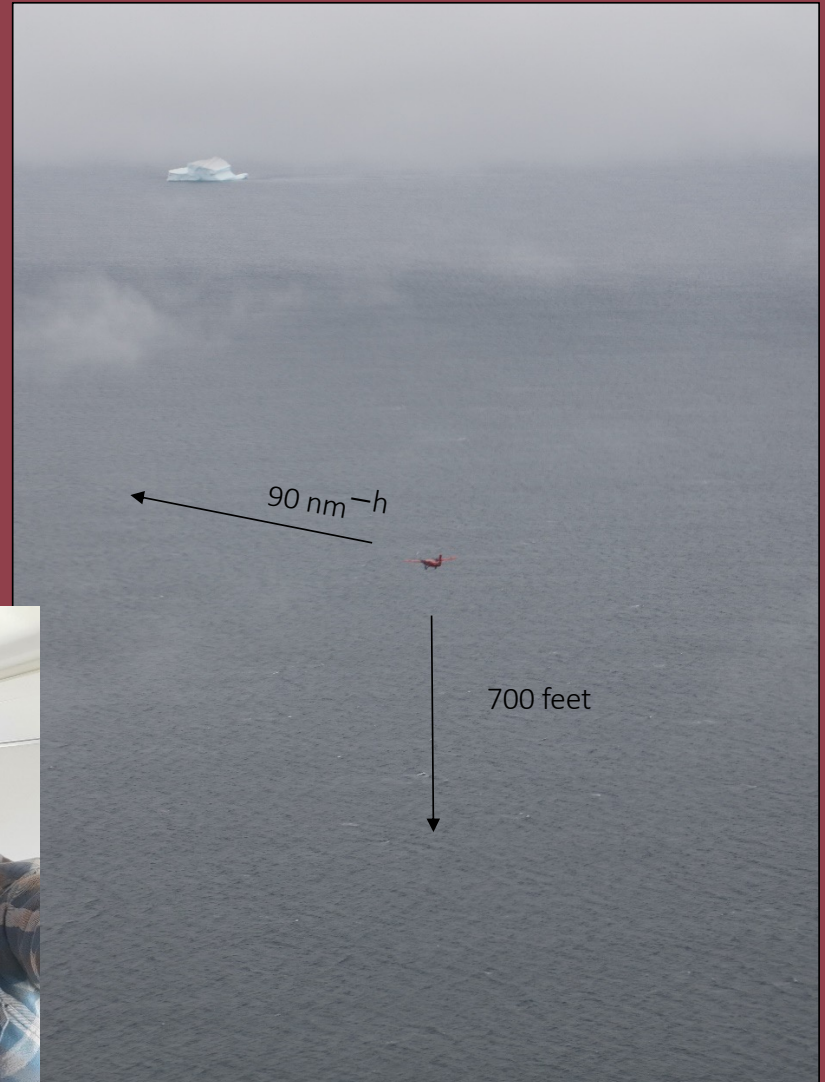
2006+08+12+22

East Greenland 1983+84+2008+16+17*+22

(* only Scoresbysund)

Northeast Greenland/National Park 2017+18

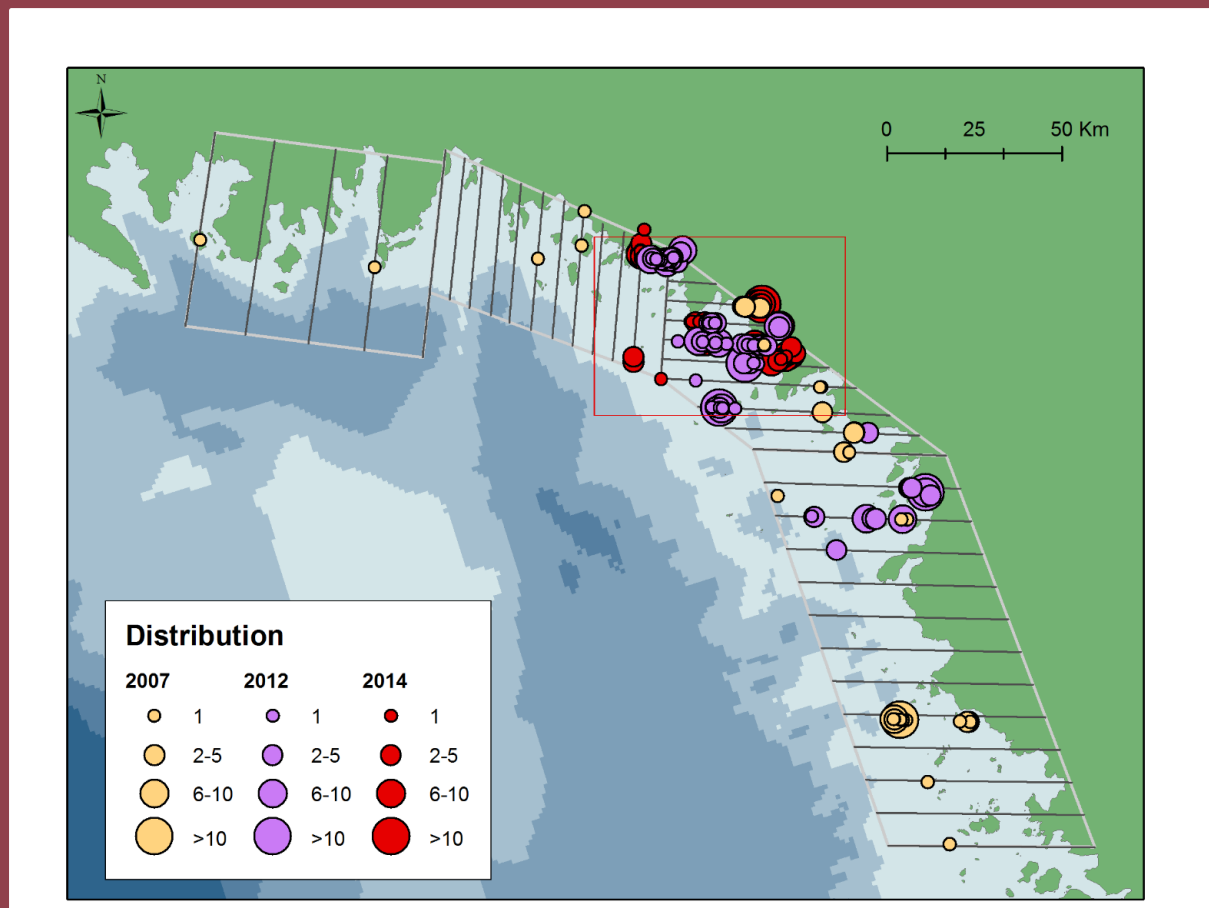




Rikke Guldborg Hansen

Abundance and distribution in summer (Melville Bay)

Aasaanerani siammarsimani uumasooqatigiinnullu kisitsisit (Qimusseriarsuaq)

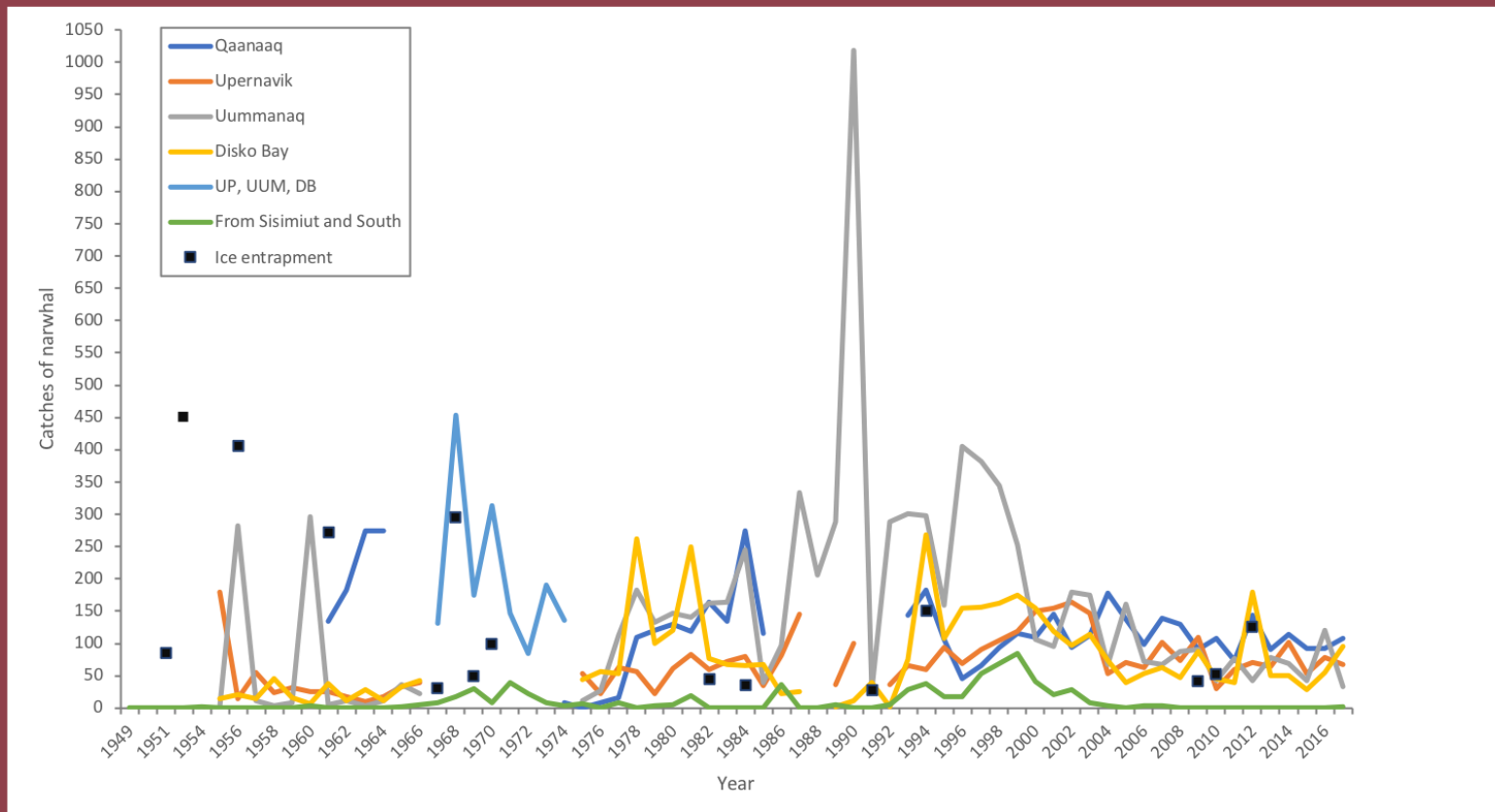


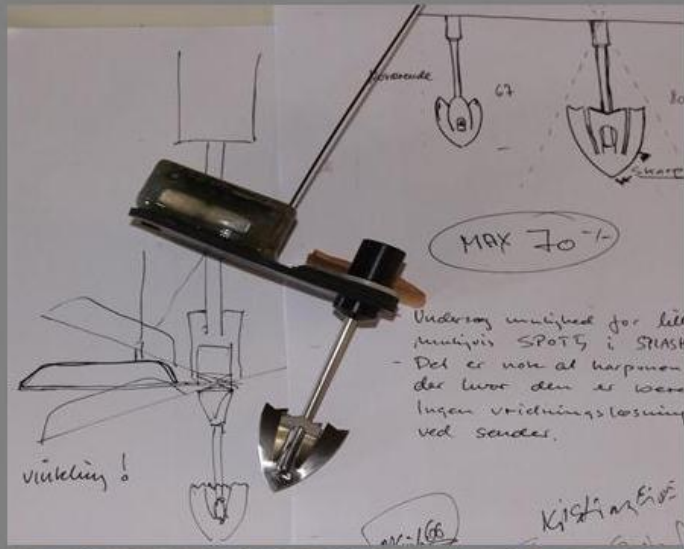
Catch statistics

From 1993 – mandatory reports of the catch by hunters

Piniakkanut naatsorsueqqissaarutit

1993-imit – pisanik pinngitsuugassaannngitsumik nalunaaruteqartarneq

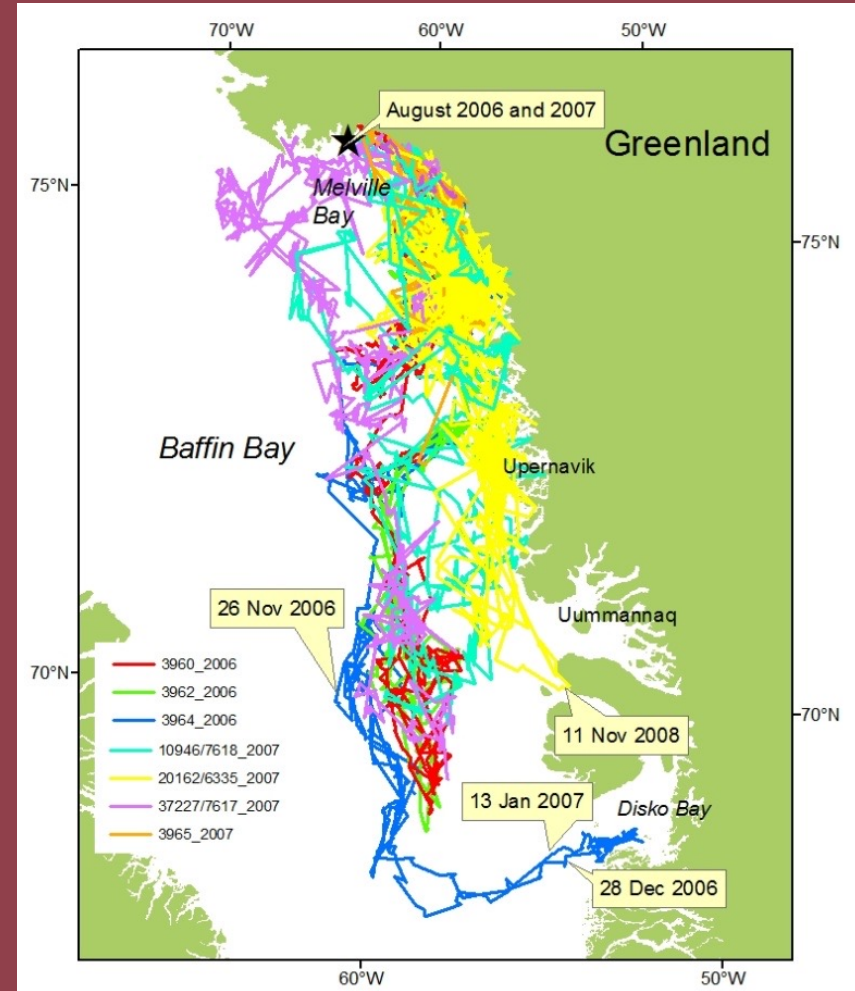
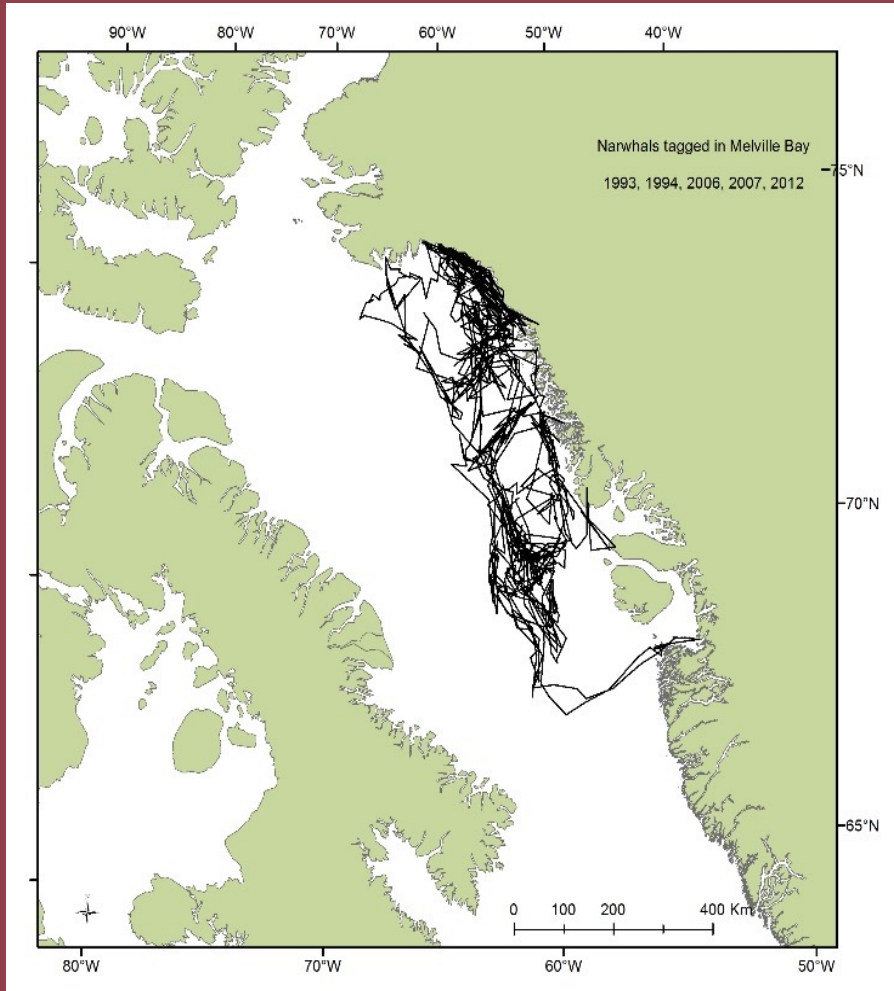




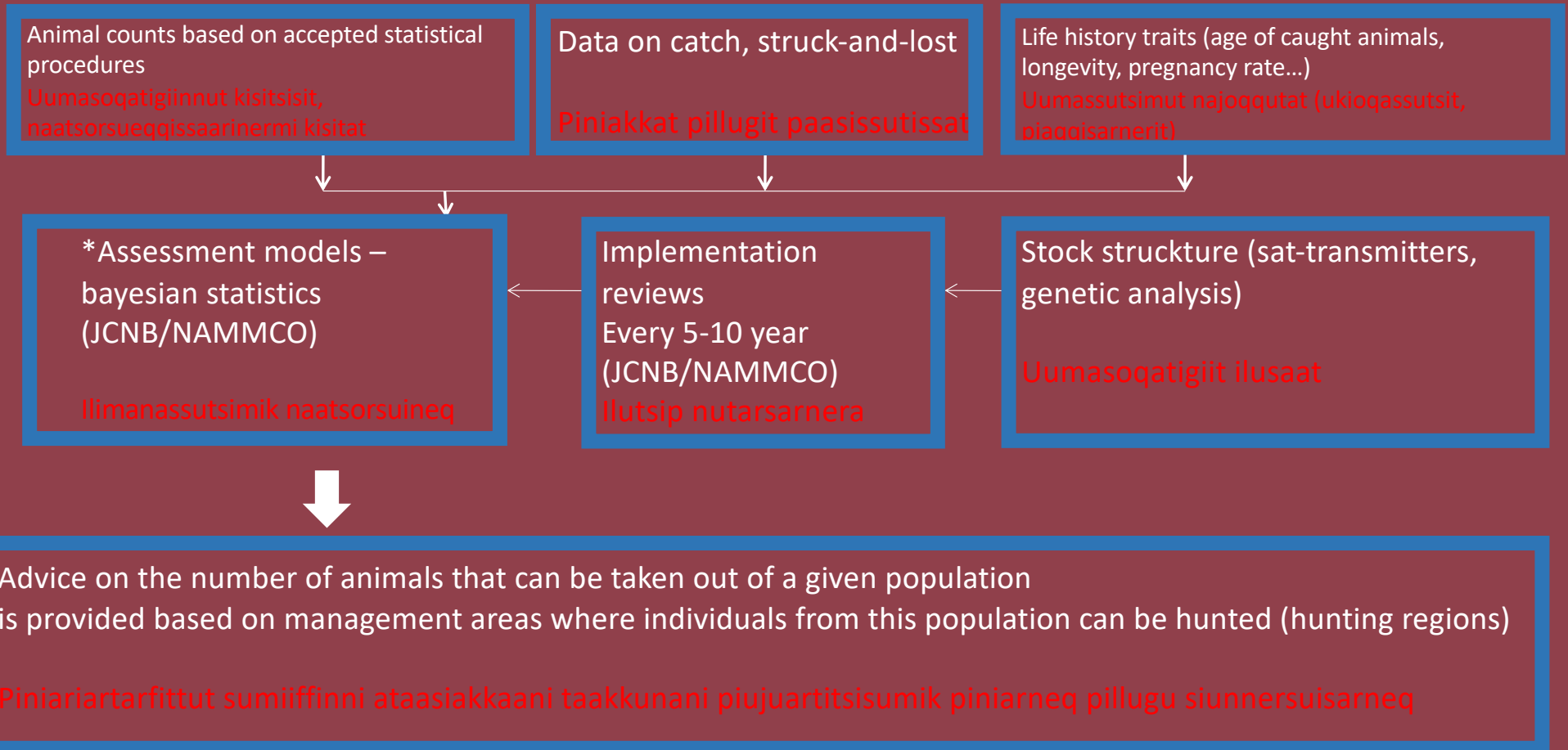
Rikke Guldborg Hansen

Narwhal movement autumn and winter

Ukiakkut ukiuuneranilu qilalukkat qernertat ingerlaarfii



Scientific advice on the sustainable harvest level of marine mammals





Fangere i Østgrønland er ikke er

Fangere i Østgrønland er ikke er narhvaler n

6. januar 2020 · 05:40 af [Mer](#)

I en ny rapport slår b Østgrønland er trued ikke på.

Det er ikke alle, der tror, at b narhvalbestandene i Østgrør

- Vi, der er brugere, har svær siger Pele Maratsi, der er fori fangere i Østgrønland.



Fangst af hvidhvaler i N Foto: Ukendt

The biological advice of GINR is independent of special interests

Forskning: Overfangst har udryddet hvalbestande

2. marts 2020 · 09:54 af [Merete Lindstrøm](#)

Hele bestande af hvidhvaler og hvalrosser er forsvundet fra Grønlands kyster gennem de sidste hundrede år. Forskere siger overfangst. Fangere siger klimaforandringer.



ker af

litog Nukoro

emma Hans

MINNERUSU

kvoter

Qujanaq

Colleagues at Pinngortitaleriffik
Locals and hunters from Ittoqqortoormiit
Hunters from Savissivik and Kullorsuaq
Hunters from Niaqornat
Hunters from Canada
Tagging crew in Hjørnedal
DFO – Fisheries and Ocean Canada
Ministry of Environment of Denmark
Aerial survey observers
©Photo Carsten Egevang

