

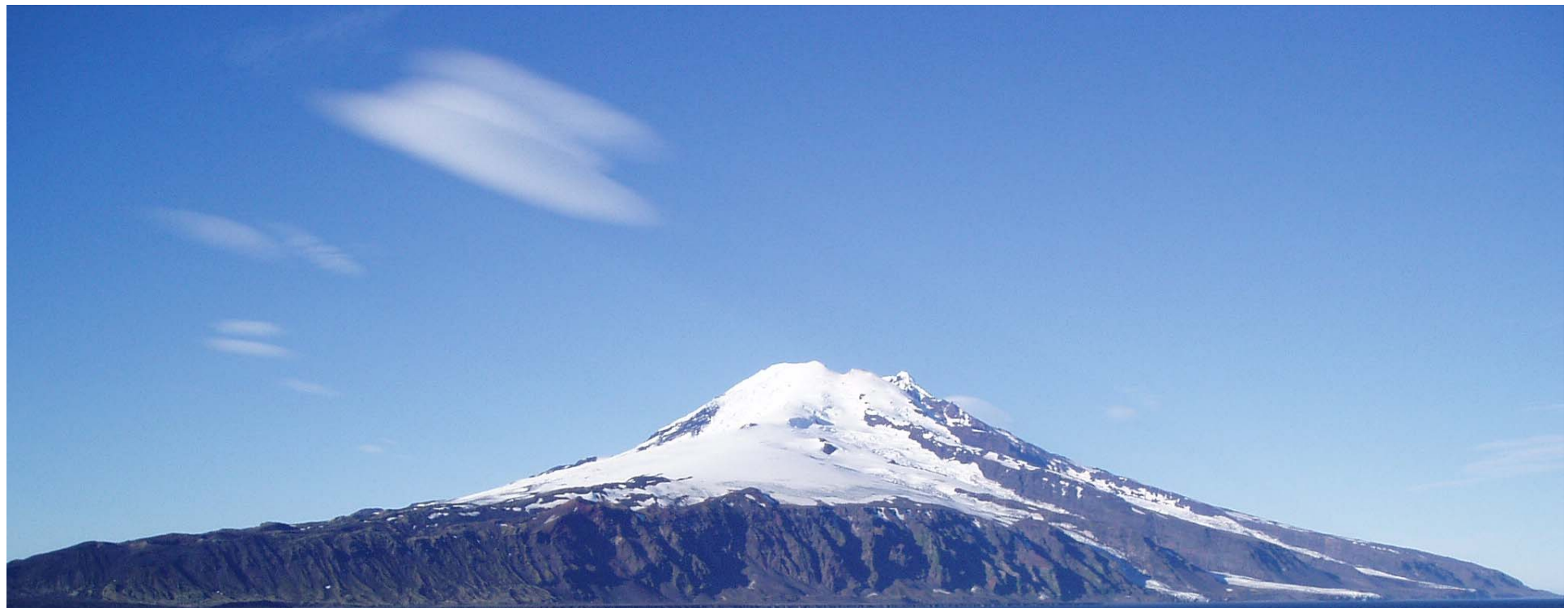


Havmiljø og levende marine ressurser ved Jan Mayen

Ole Arve Misund



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

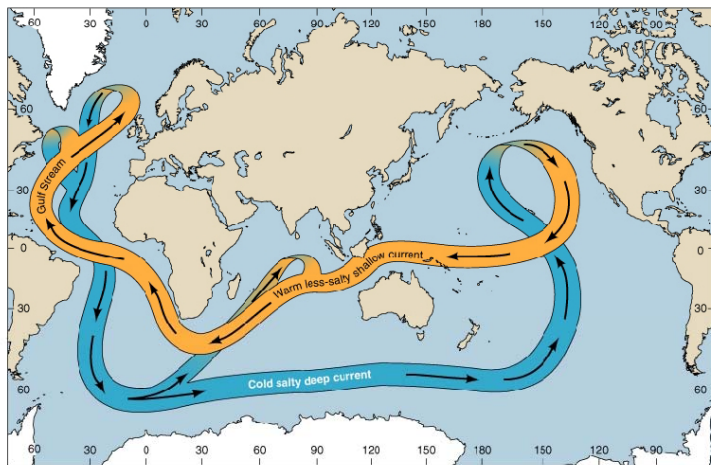
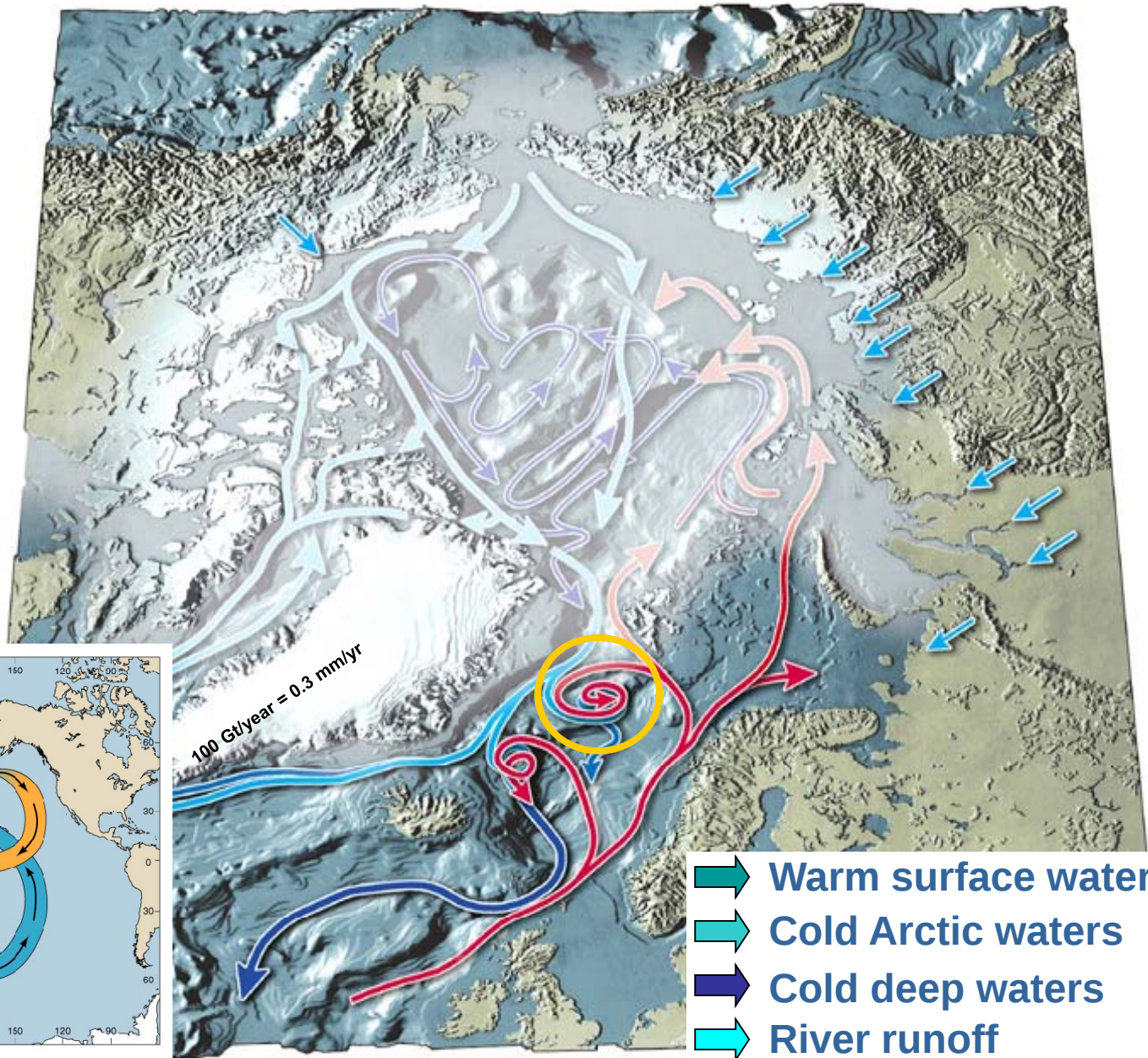


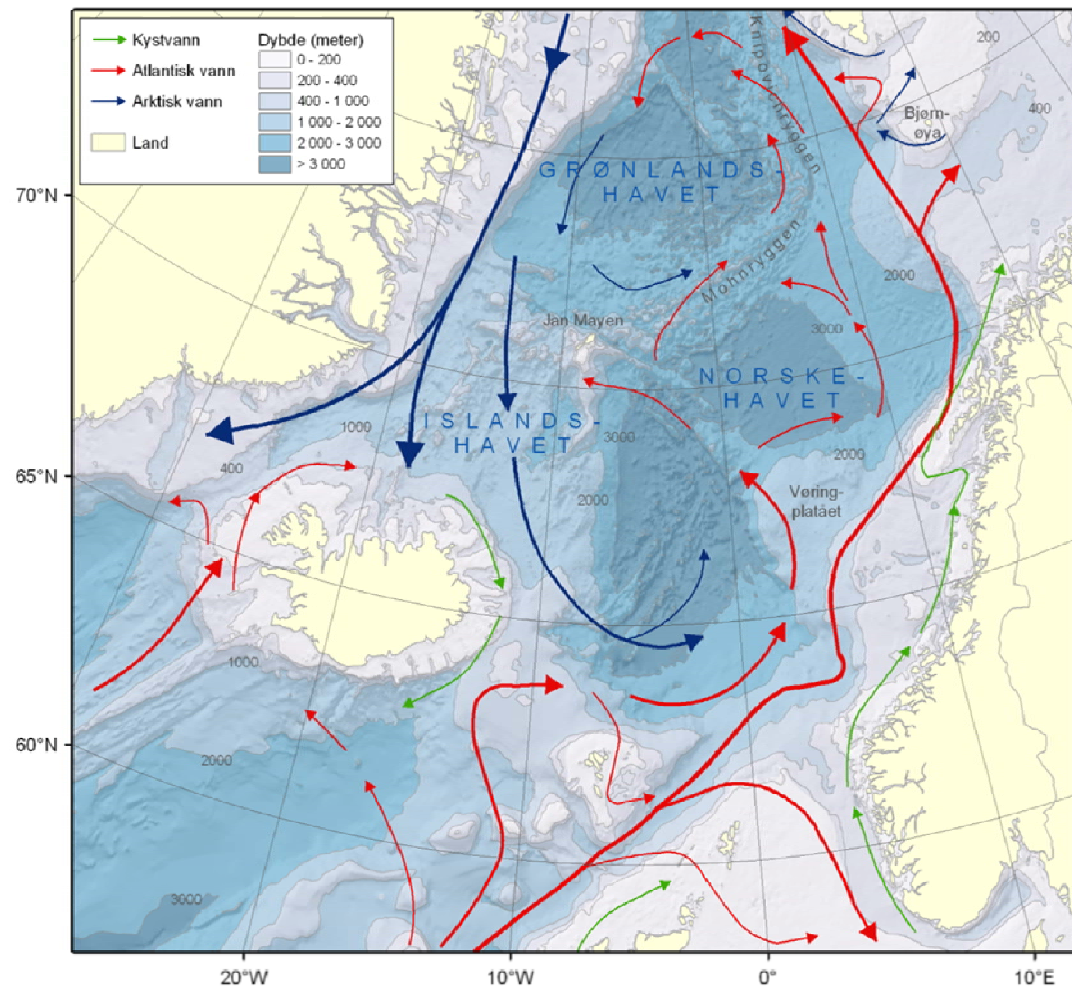




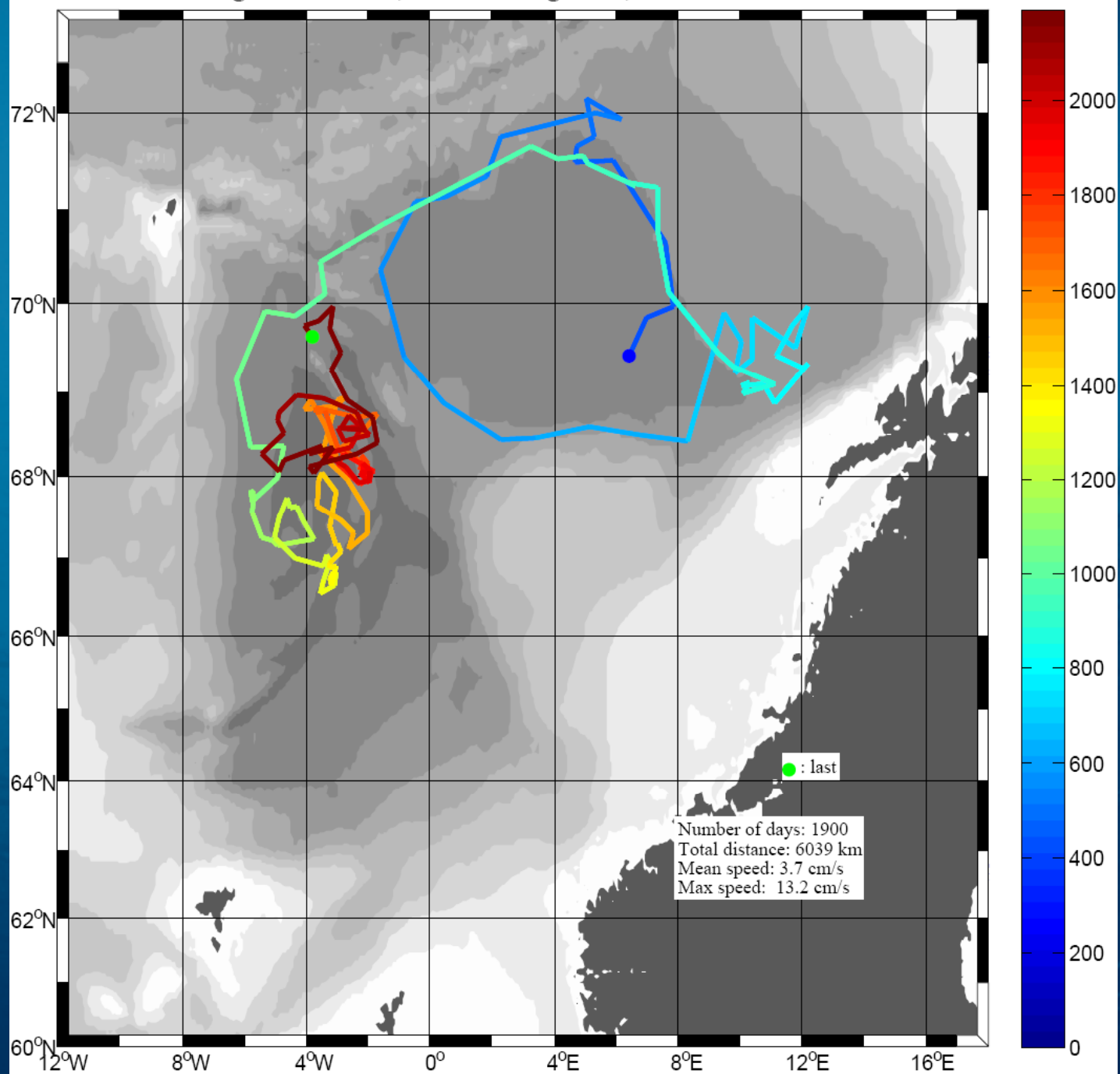


Arctic Climate System

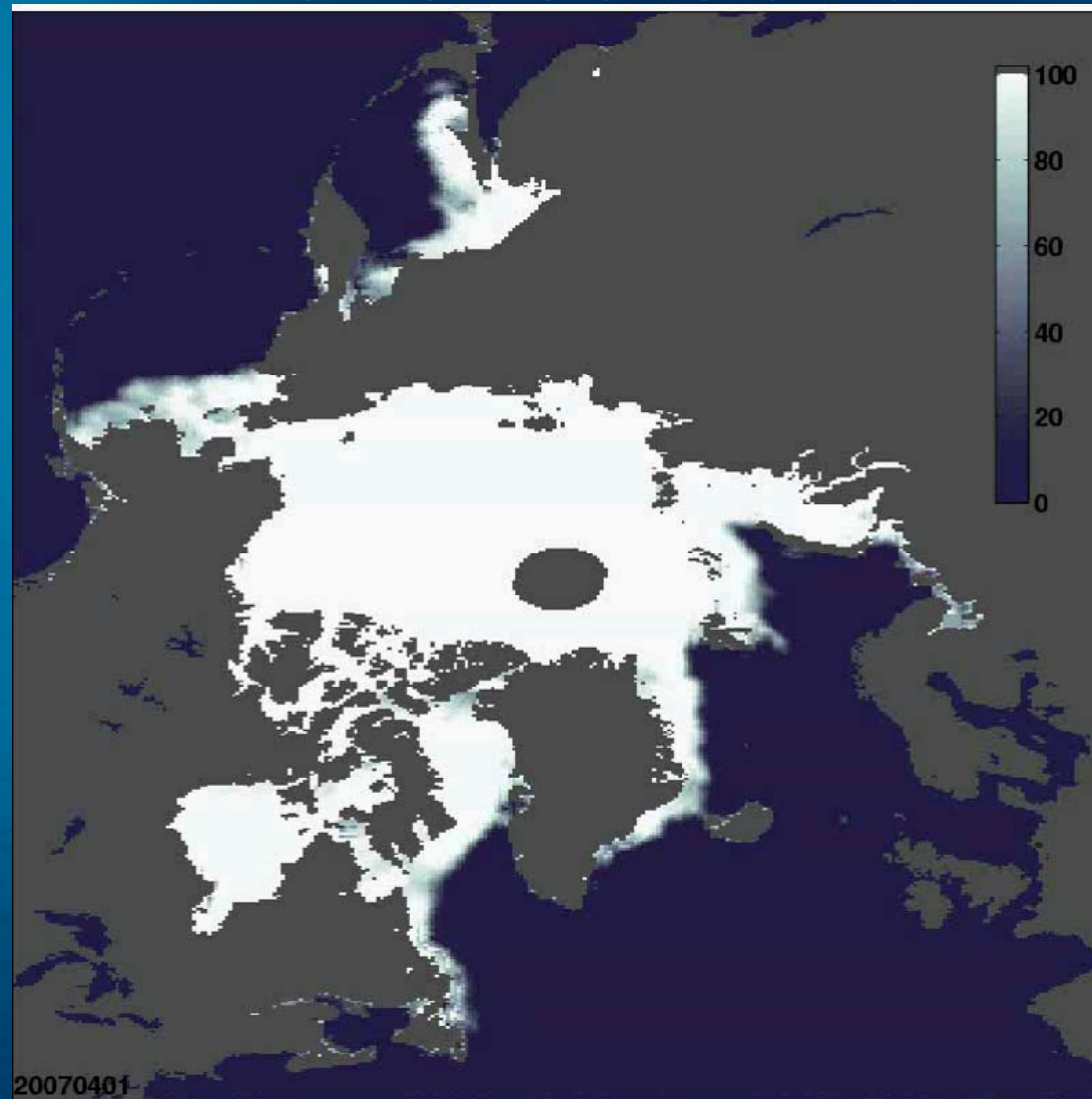




Argo-id: 6900219, start: 24-Aug-2003, end: 05-Nov-2008



Arctic Ice Cover



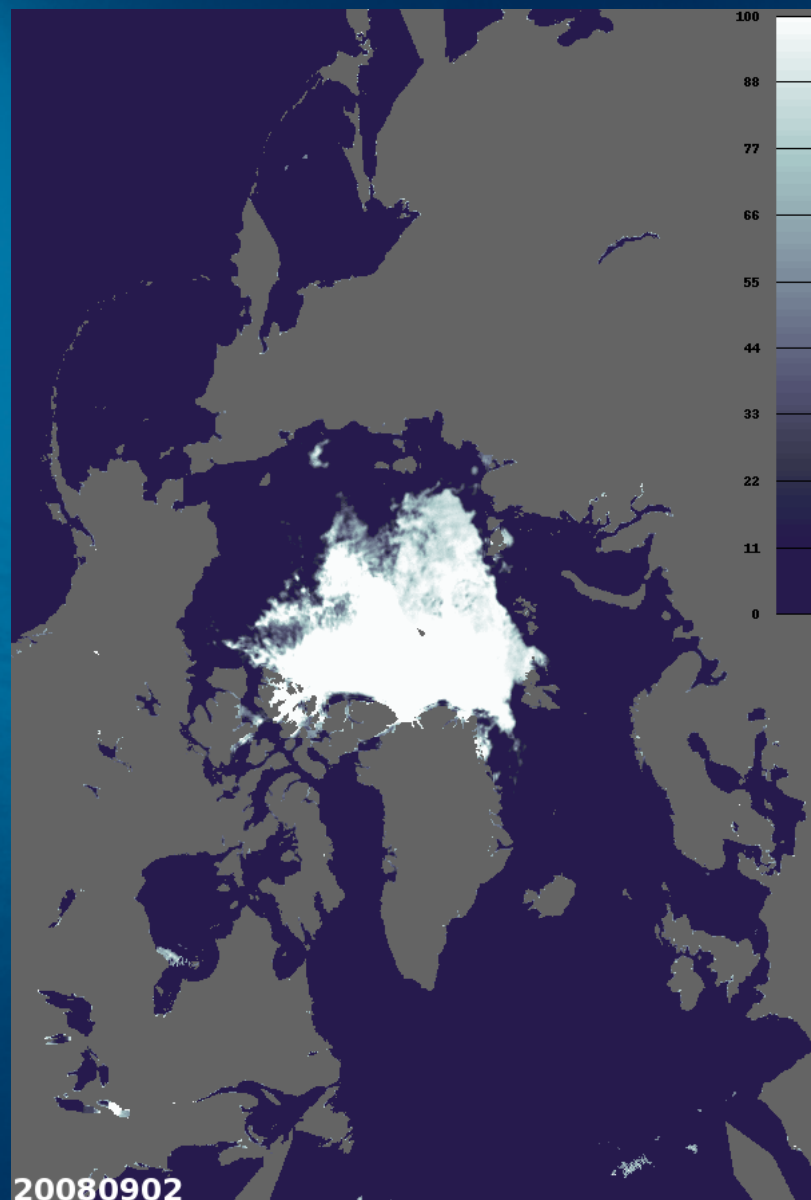
Jan 2007 – Sept 2007

Courtesy NERSC

Minimum Sep 2008

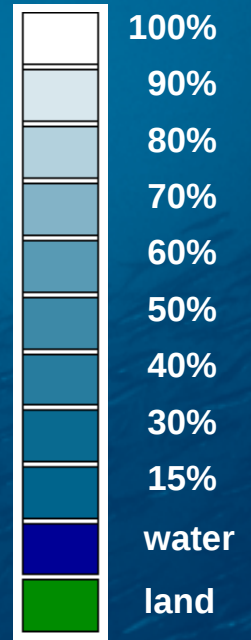
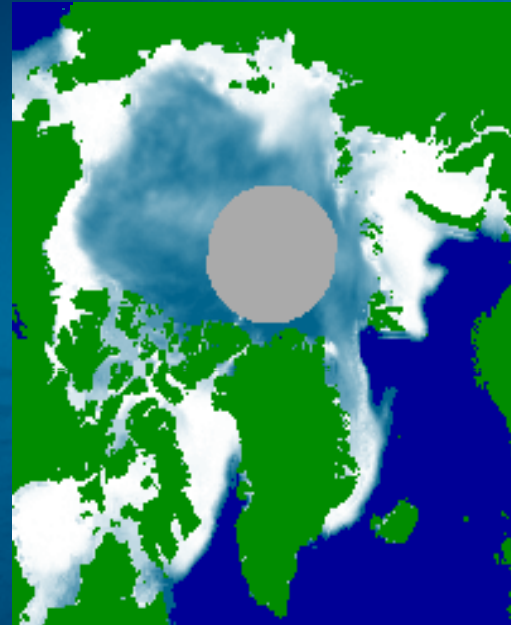
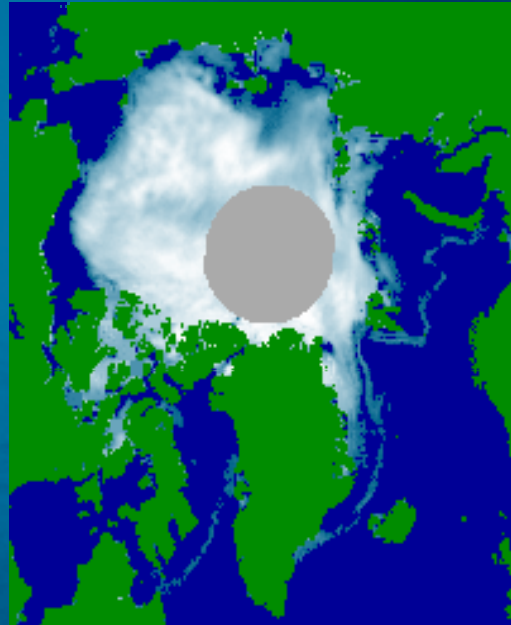
Northwest Passage Open

Northern Sea Route Open

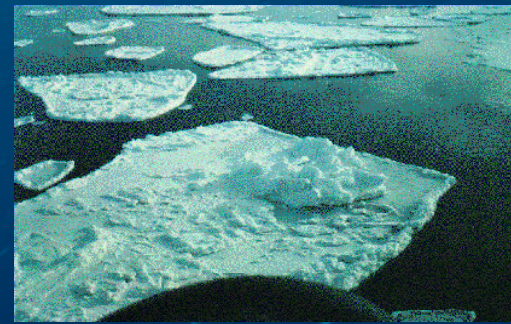


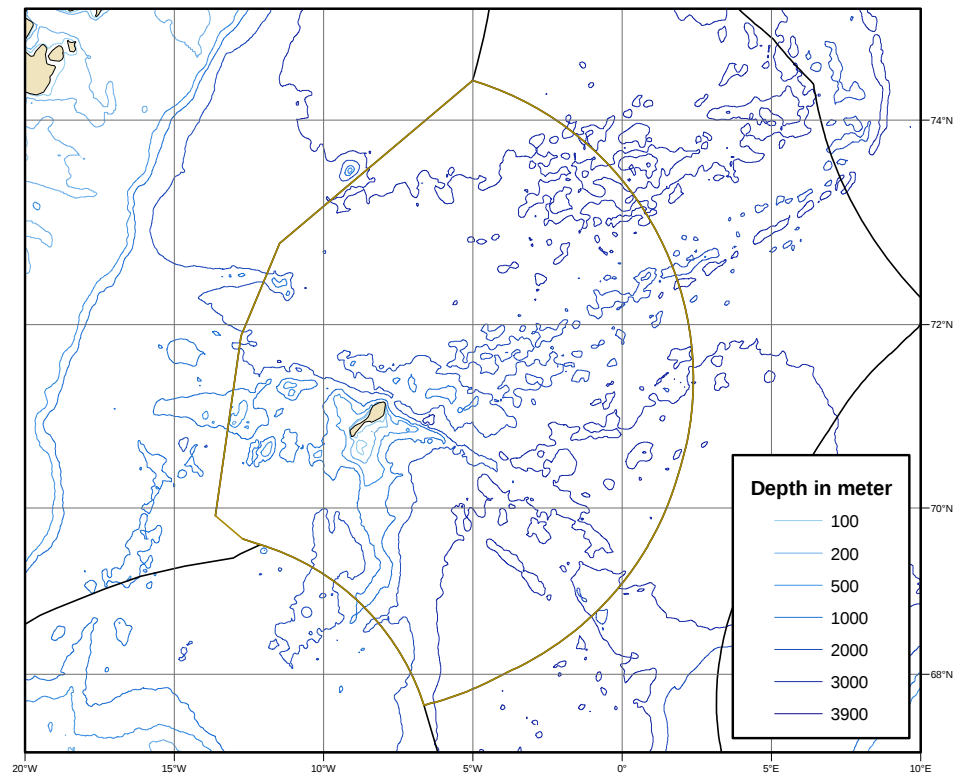
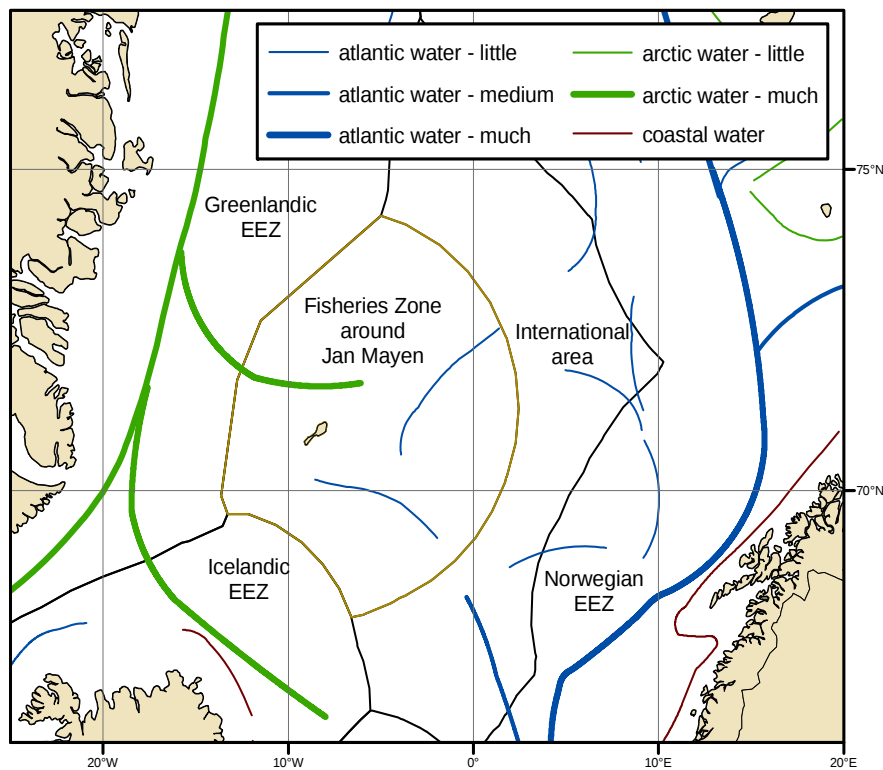
Monitoring ice concentration from microwave satellites

TOTAL ICE COVER = MULTI-YEAR ICE + FIRST-YEAR ICE



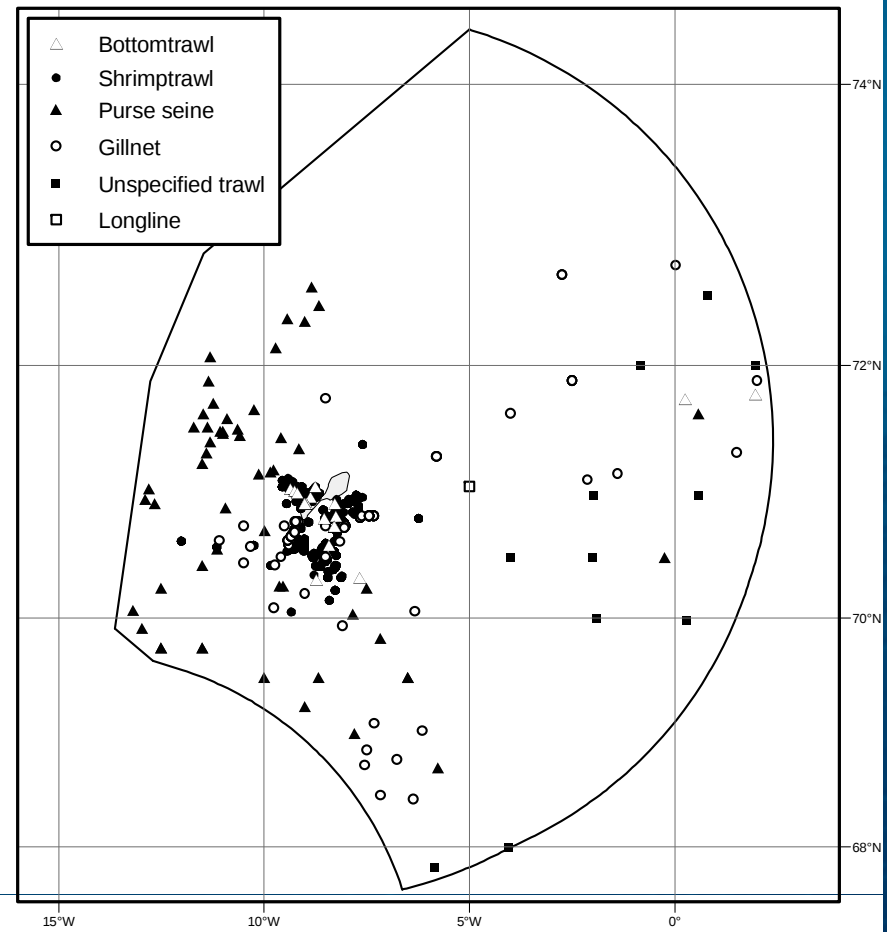
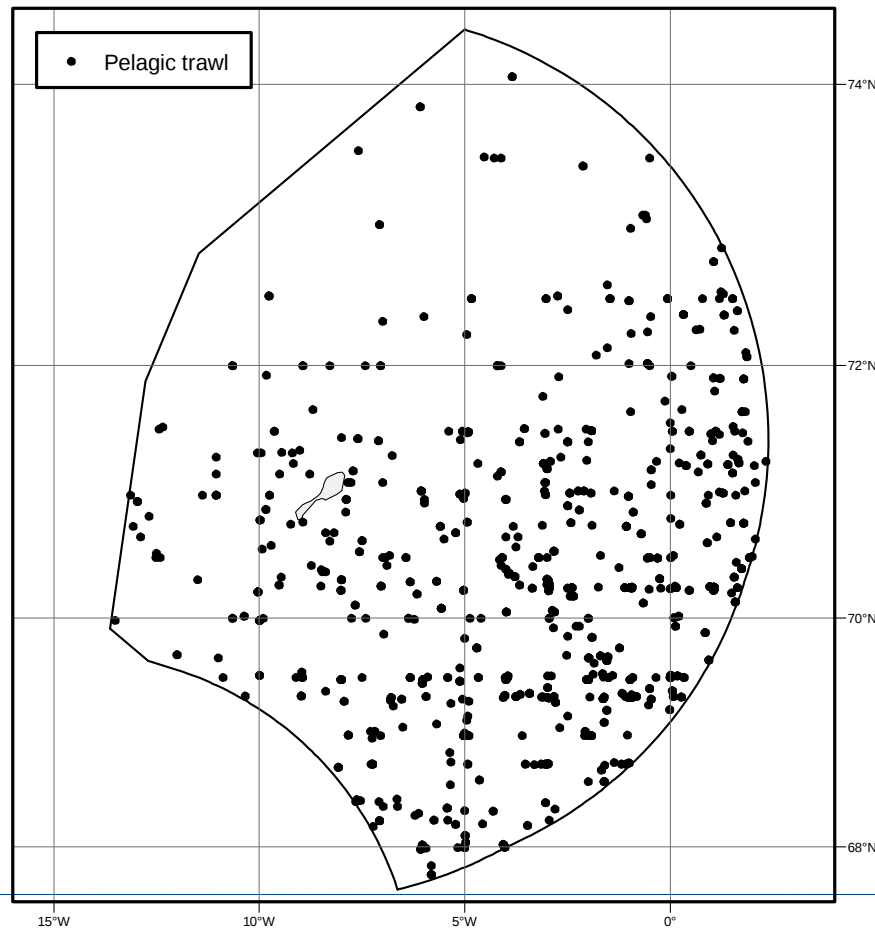
shows a ~15%
decrease in area
since 1978





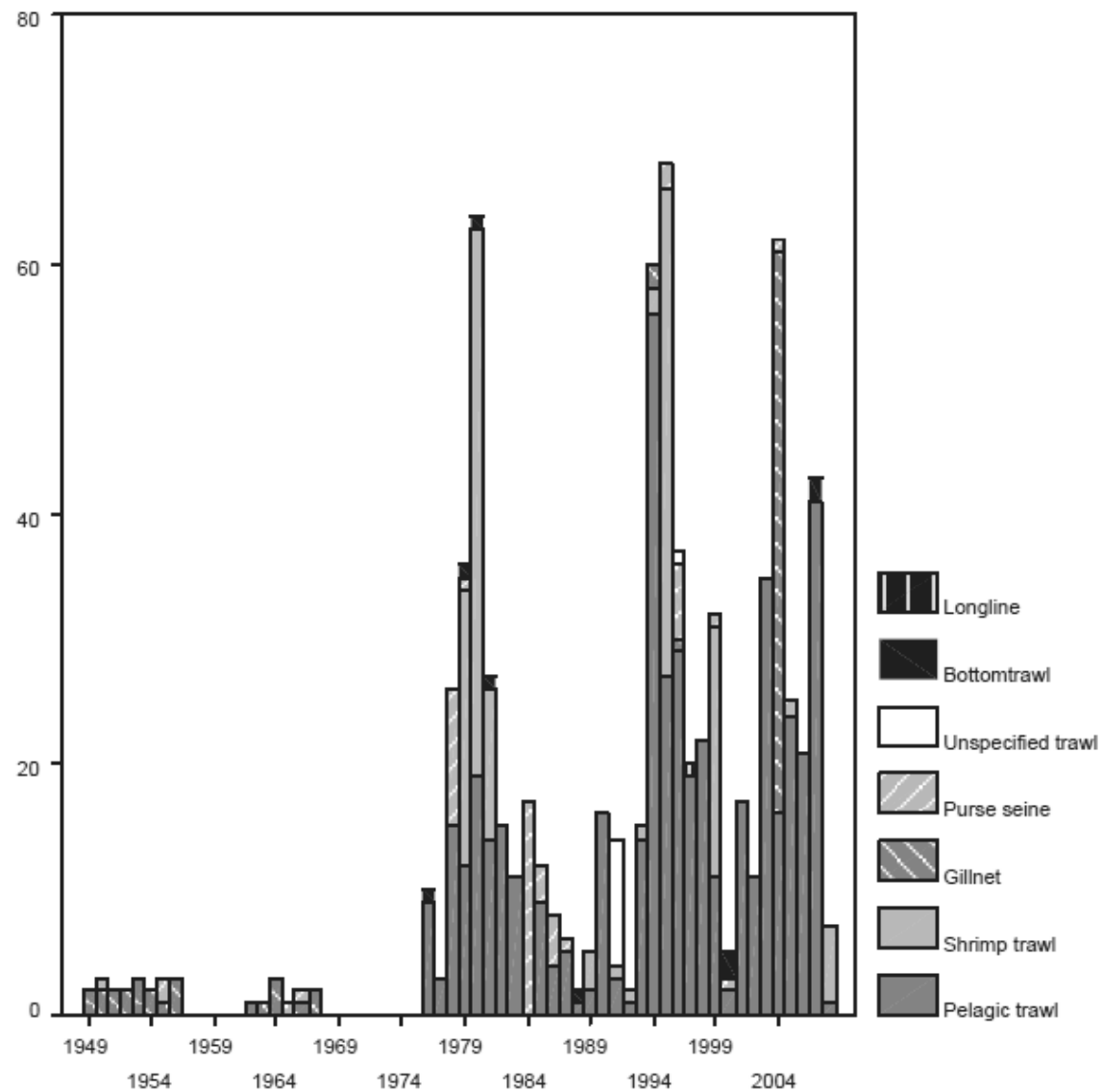
The Fisheries Zone around Jan Mayen and its hydrological and bathymetrical conditions.





Locations of the 784 research stations conducted by IMR in the years 1949-2008.





Number of stations for every year and gear.

Order	Family	N of specimens
Petromyzontiformes	Petromyzontidae	2
Squaliformes	Somniosidae	11
Rajiformes	Rajidae	11
Clupeiformes	Clupeidae	2.000.000
Osmeriformes	Osmeridae	3.300.000
Salmoniformes	Salmonidae	302
Stomiiformes	Sternoptychidae	31
Aulopiformes	Paralepididae	250
Myctophiformes	Myctophidae	620
Gadiformes	Macrouridae	569
	Lotidae	10
	Gadidae	113.117
Lophiiformes	Lophiidae	1
Gasterosteiformes	Syngnathidae	289
Scorpaeniformes	Sebastidae	258
	Cottidae	12.254
	Agonidae	1.400
	Psychrolutidae	19
	Cyclopteridae	4.150
	Liparidae	410
Perciformes	Zoarcidae	405
	Stichaeidae	7.500
	Pholidae	1
	Anarhichadidae	37
	Ammodytidae	75
	Scombridae	9.100
Pleuronectiformes	Pleuronectidae	3.300

Number of specimens per family reported from the Fisheries Zone around Jan Mayen.



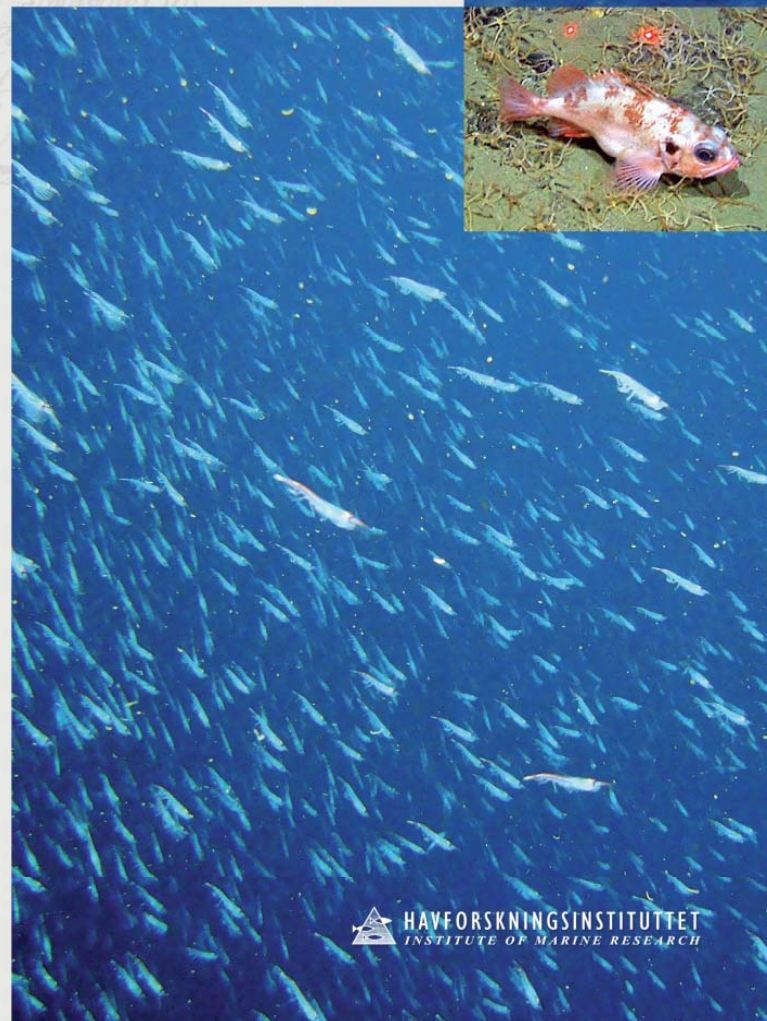
Species		Number of individuals	Number of stations
<i>Mallotus villosus</i>	Lodde	3.000.000	200
<i>Clupea harengus</i>	Sild	2.000.000	230
<i>Micromesistius poutassou</i>	Kolmule	93.000	199
<i>Triglops murrayi</i>	Nordlig knurrulke	12.000	54
<i>Boreogadus saida</i>	Polartorsk	9.100	150
<i>Scomber scombrus</i>	Makrell	9.100	82
<i>Melanogrammus aeglefinus</i>	Hyse	6.700	27
<i>Leptoclinus maculatus</i>	Tverrhalet langebarn	4.250	46
<i>Gadus morhua</i>	Torsk	3.600	42
<i>Lumpenus lampretaeformis</i>	Langhalet langebarn	3.250	34

The ten most common species in the Fisheries Zone around Jan Mayen.



Fisken og havet, særnummer 1-2009

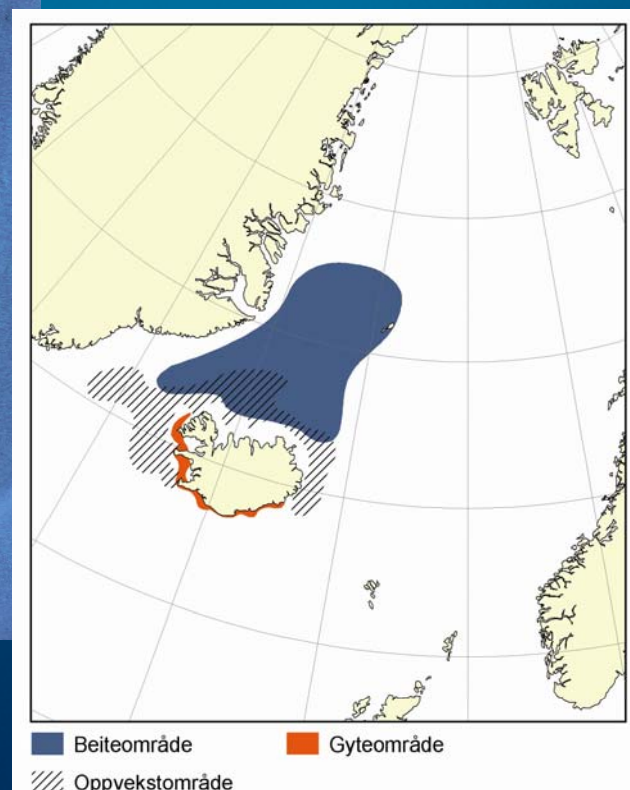
Havets ressourser og miljø 2009



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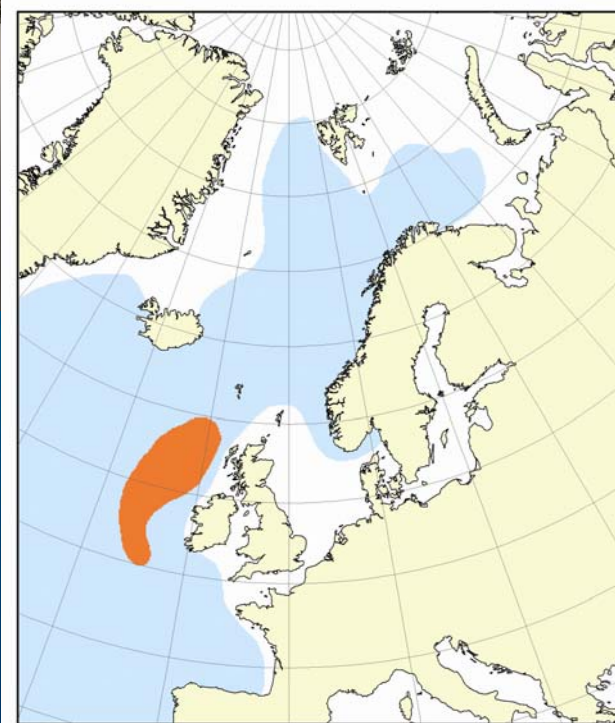
Lodde
Mallotus villosus





Kolmule

Micromesistius poutassou



Utbredelsesområde

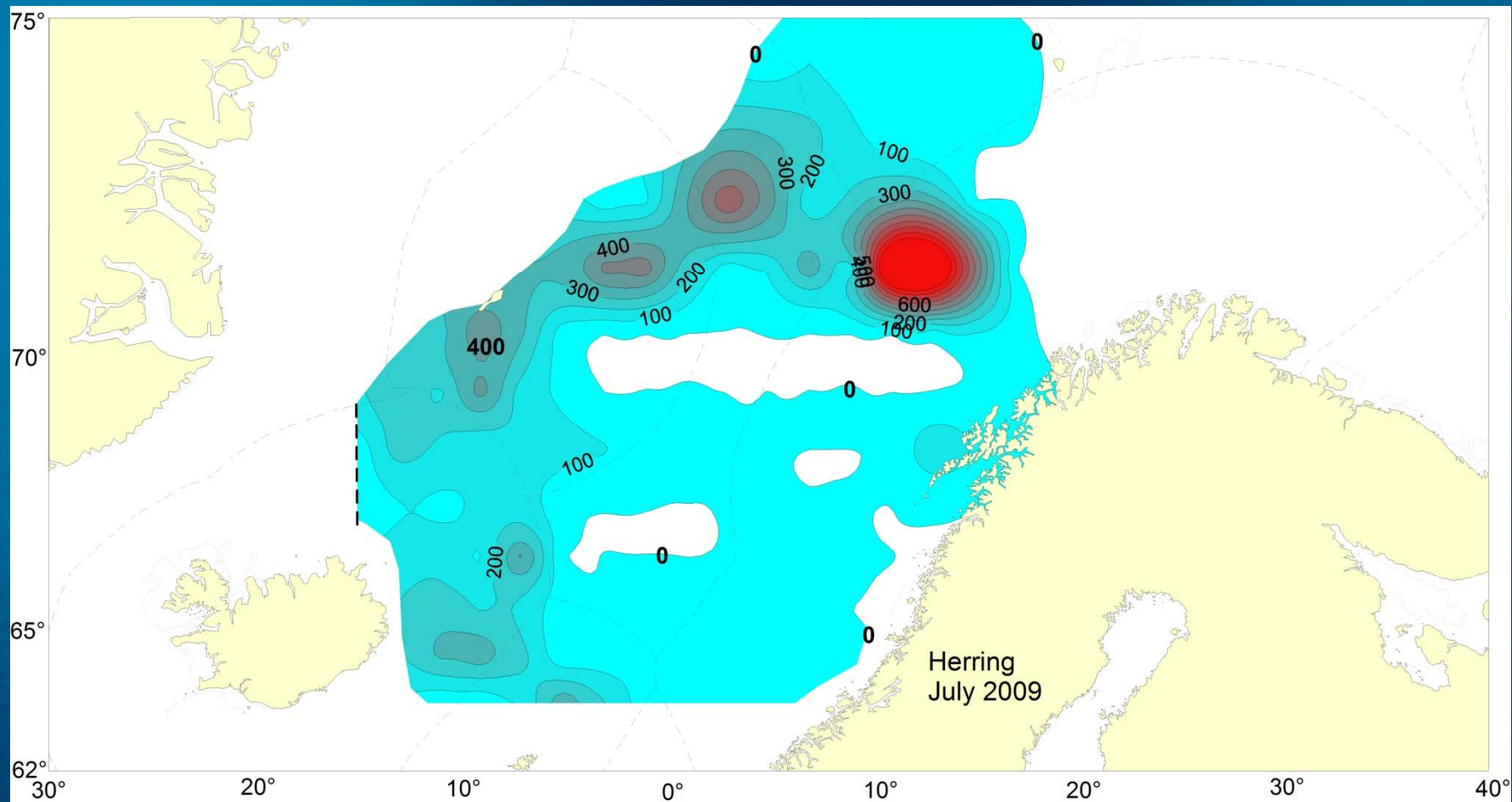
Hoved gyteområde





Sild
Clupea harengus L.





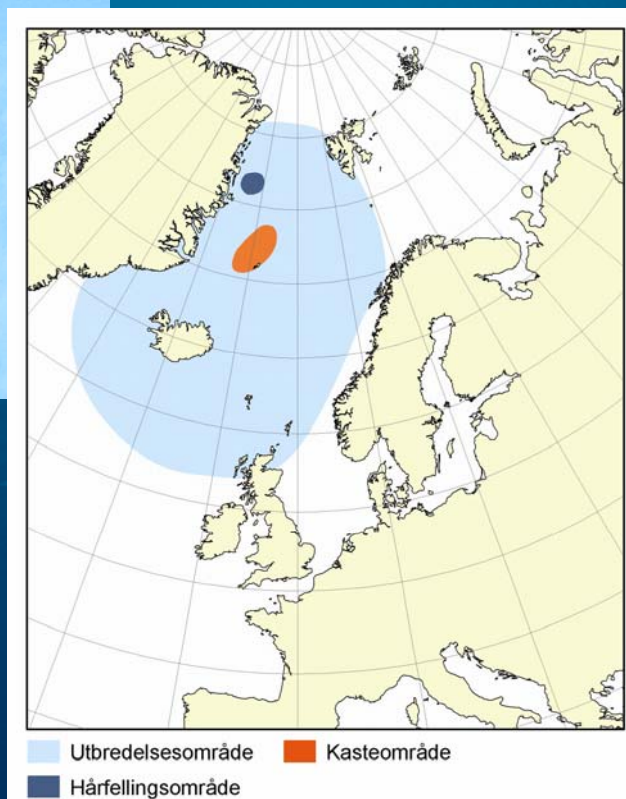


Grønlandssel
Pagophilus groenlandicus





Klappmyss
Cystophora cristata



SELTELLING I VESTERISEN

14 MARS – 3 APRIL 2007



Seltelling: Unger telles på isen



Ungeproduksjonen brukes til å modellere
totalbestanden

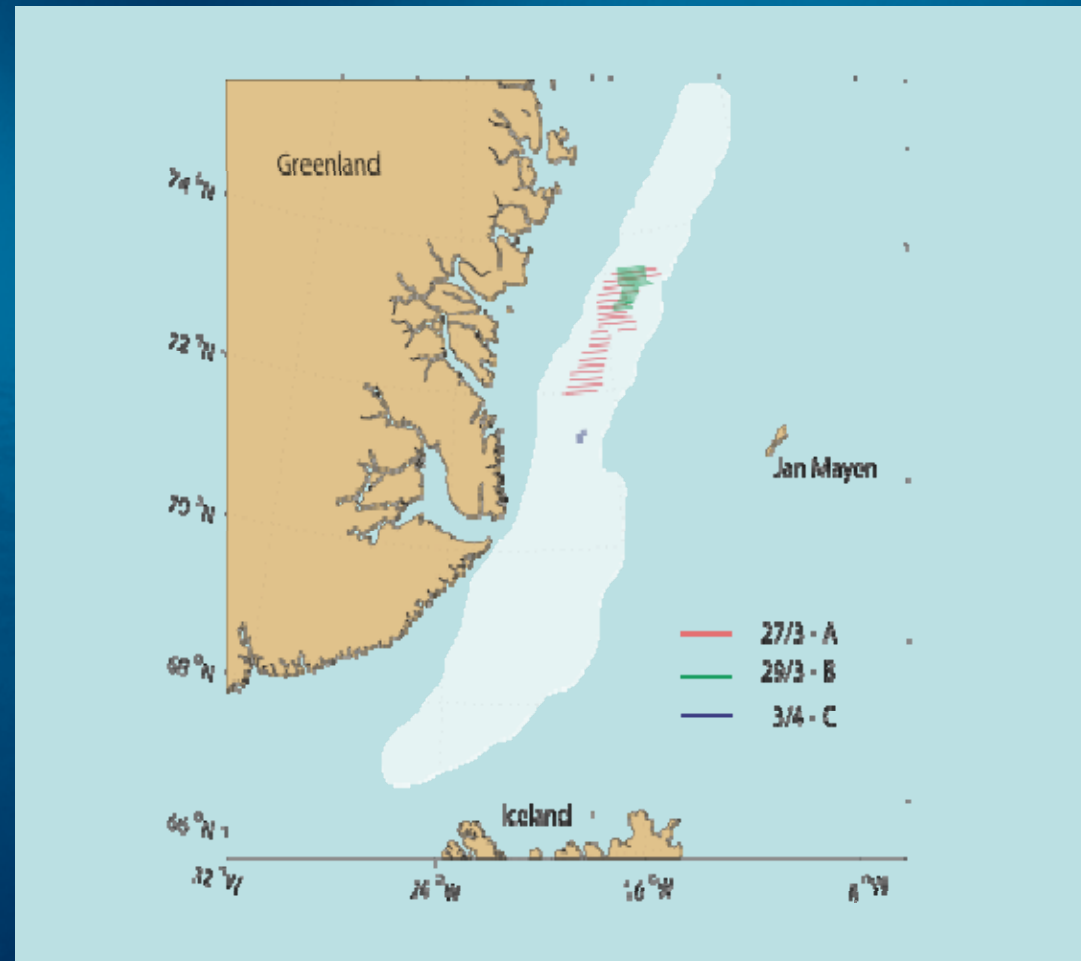
Modellen benytter også informasjon om
fangster, reproduksjonspotensiale og dødelighet



SELTELLING i VESTERISEN 2007

Lys skravering:
Avsøkt område ved
rekognosering

A, B, C:
Yngleområder der
tellingene ble gjennom-
ført langs transekter



Estimater for selungeproduksjonen i Vesterisen 2007

Klappmyss:

16 140 (95% CI 11 950 – 20 380)

Grønlandssel:

110 330 (95% CI 56 080 – 164 580)



