

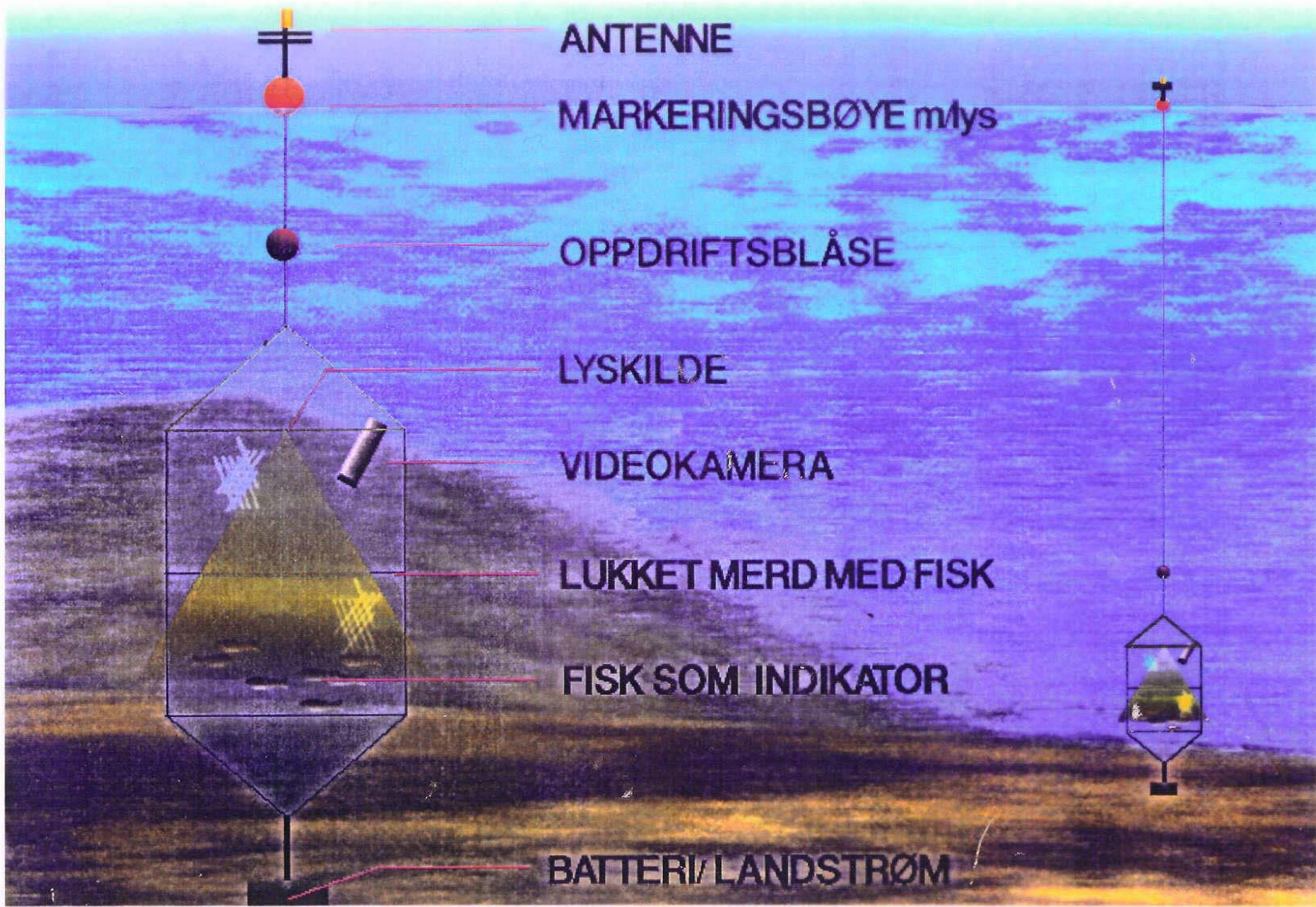
## BecPelag 2001

The use of in situ deployment  
Of live organisms and passive  
Samplers to monitor  
Contaminants in pelagic  
ecosystems

Presented by  
Bjorn Serigstad









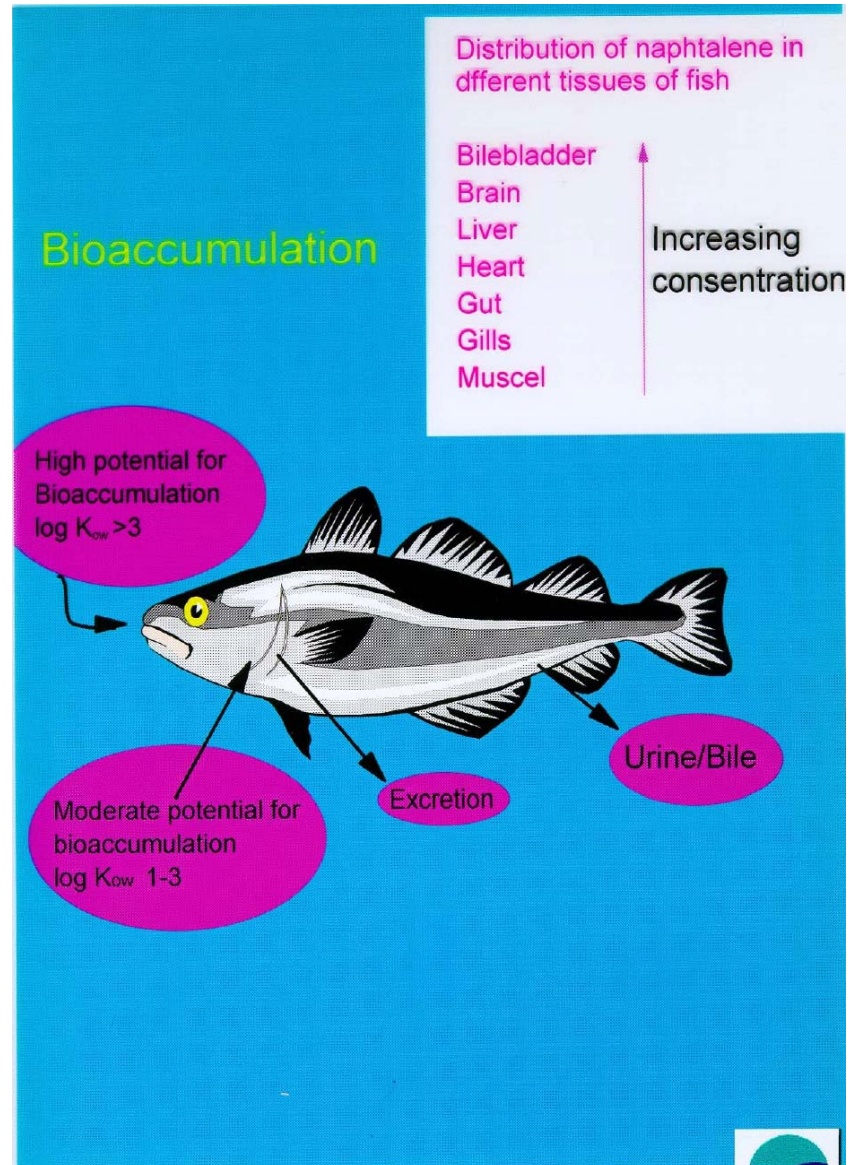
# Blue mussel filter feeder



# SPMD Passive absorber



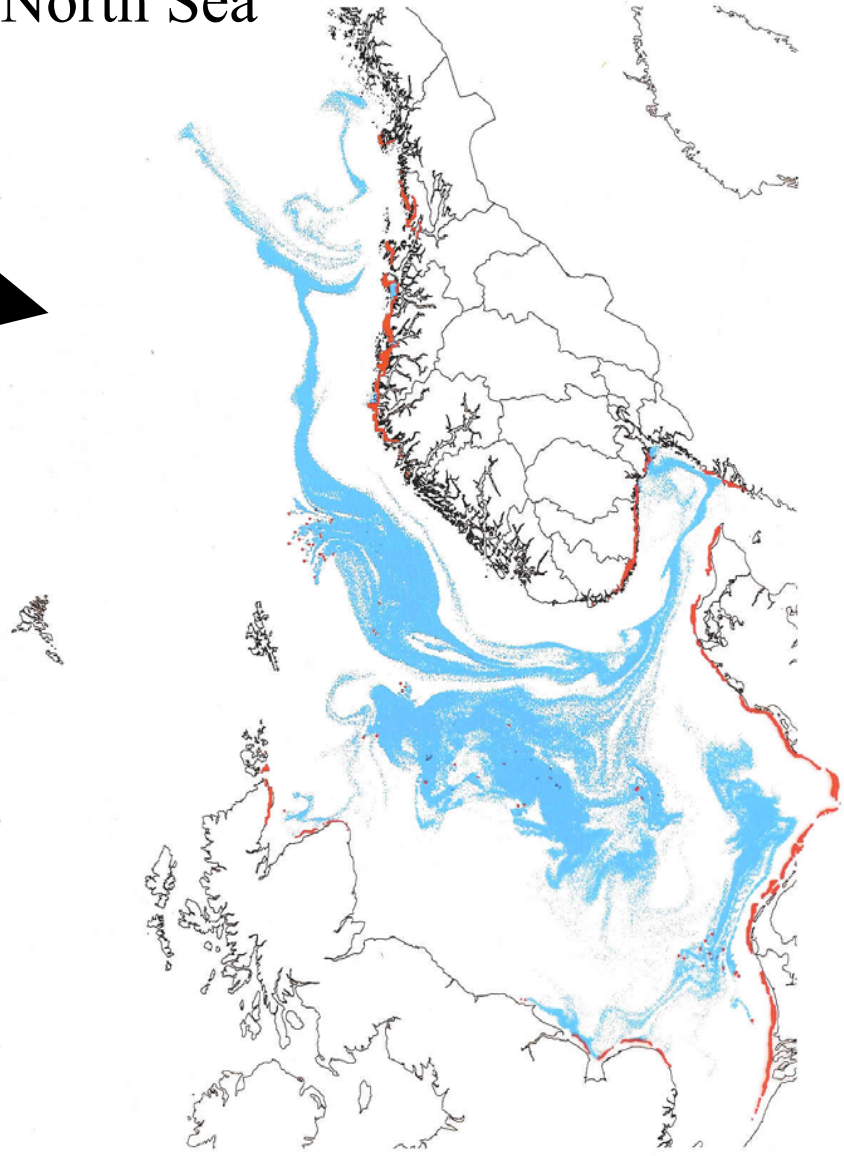
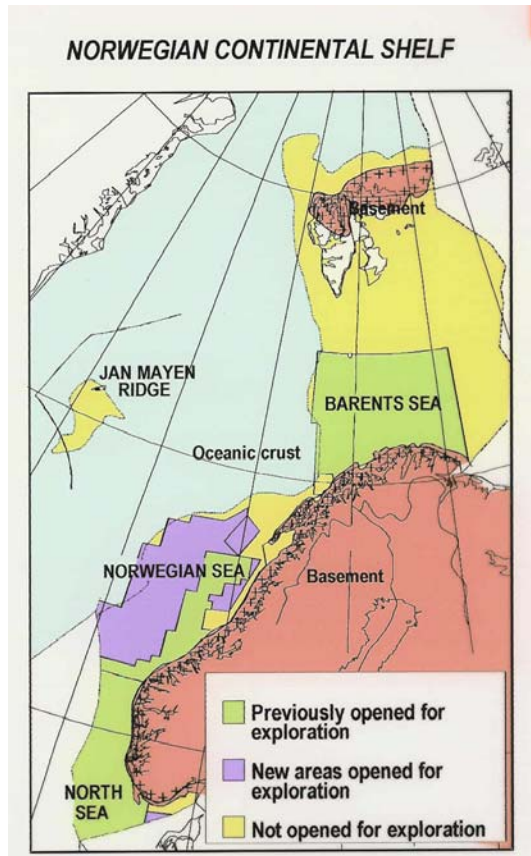
# Fish Active and Passive uptake







spreading of  
Simulated Produced water from North Sea  
Oilfields over a period of  
4 months



# Ocean Climate Self Feeding System. BECPELAG 2001

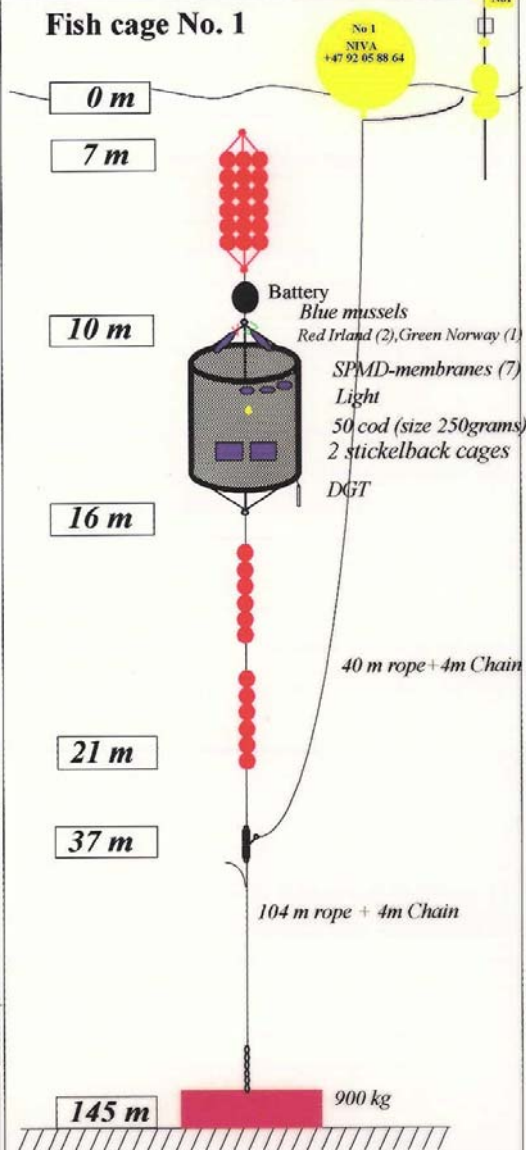
<b>Institution</b>	NIVA/IMR
<b>Vessel</b>	Johan Hjort
<b>Location</b>	Tampen/Statfjord
<b>Latitude</b>	N 61°12,30'
<b>Longitude</b>	E 01°50,62'
<b>Marking</b>	Buoy, floater, radar reflex, flag
<b>Depth</b>	145 m
<b>Top of cage</b>	7.0 m
<b>Date out</b>	26. April 2001
<b>Date in</b>	

**Notes:**

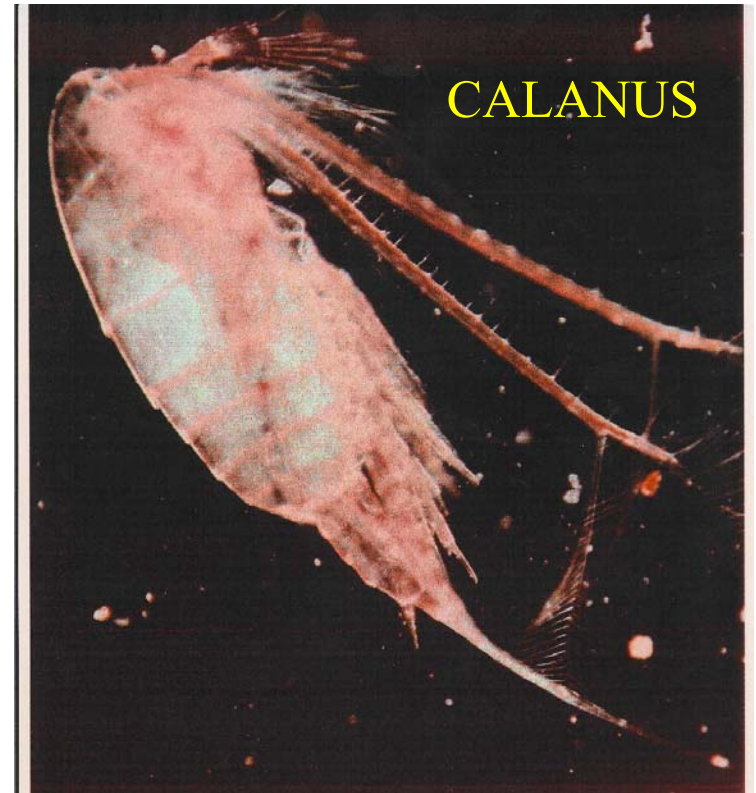
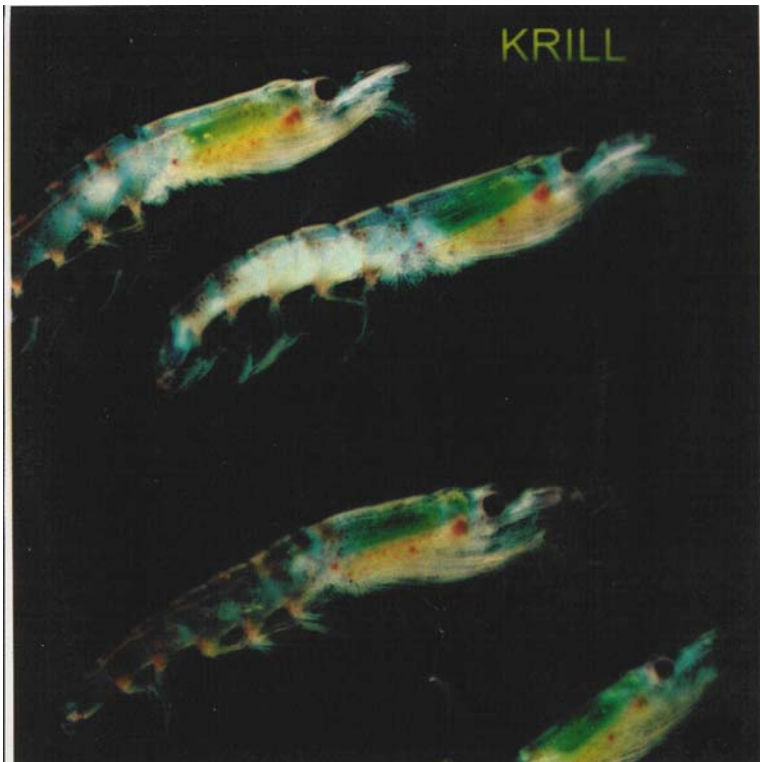
Cage 1  
Colour code: Yellow-Green

<b>Battery capacity</b>	8 Weeks
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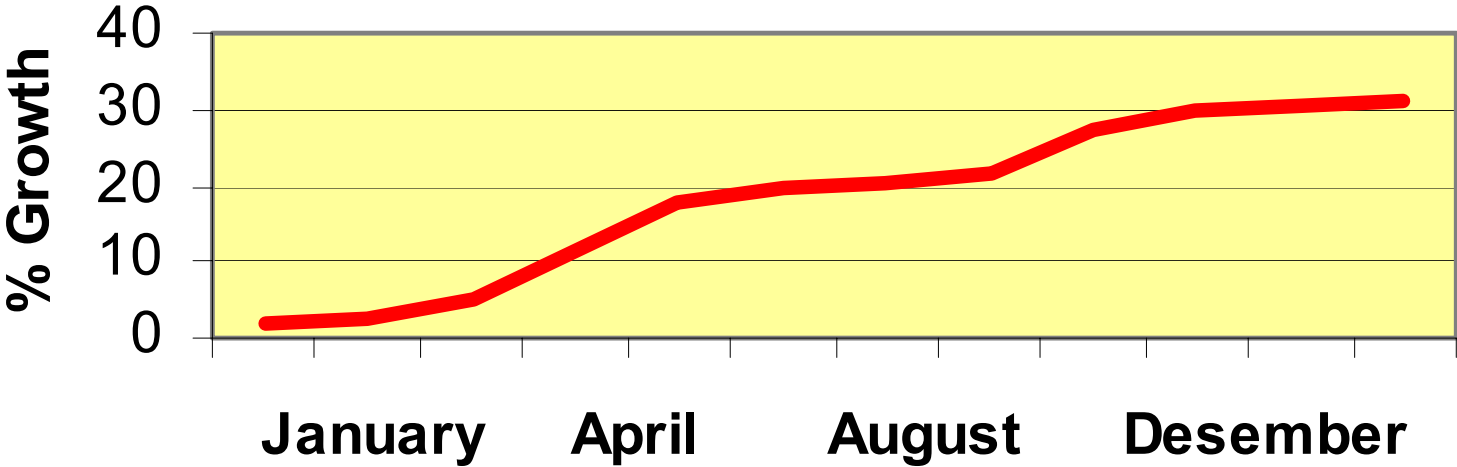
<b>Deployed (sign)</b>	_____
<b>Collected (sign)</b>	_____



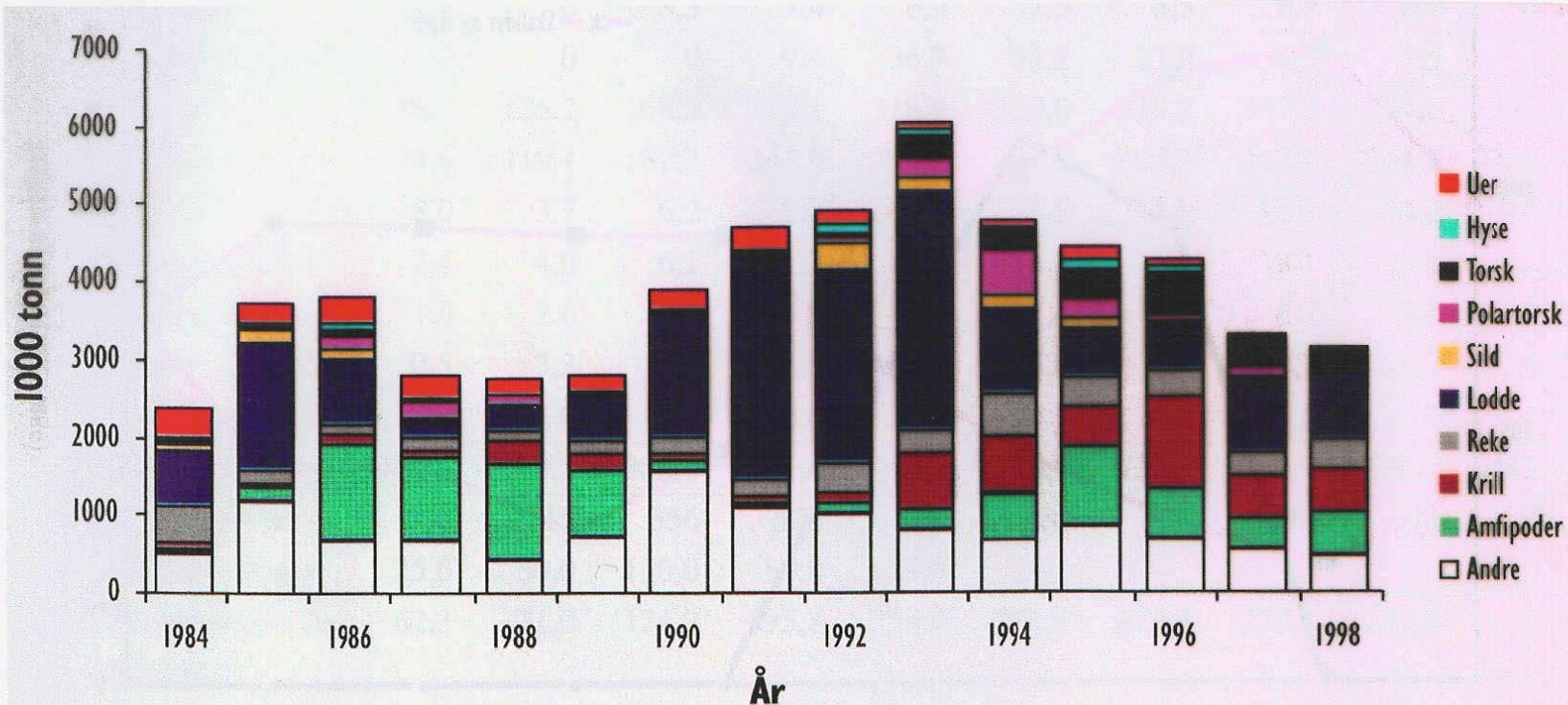
# Main food organisms for caged cod at the Norwegian coast



# Growth of caged cod in costal Norwegian water





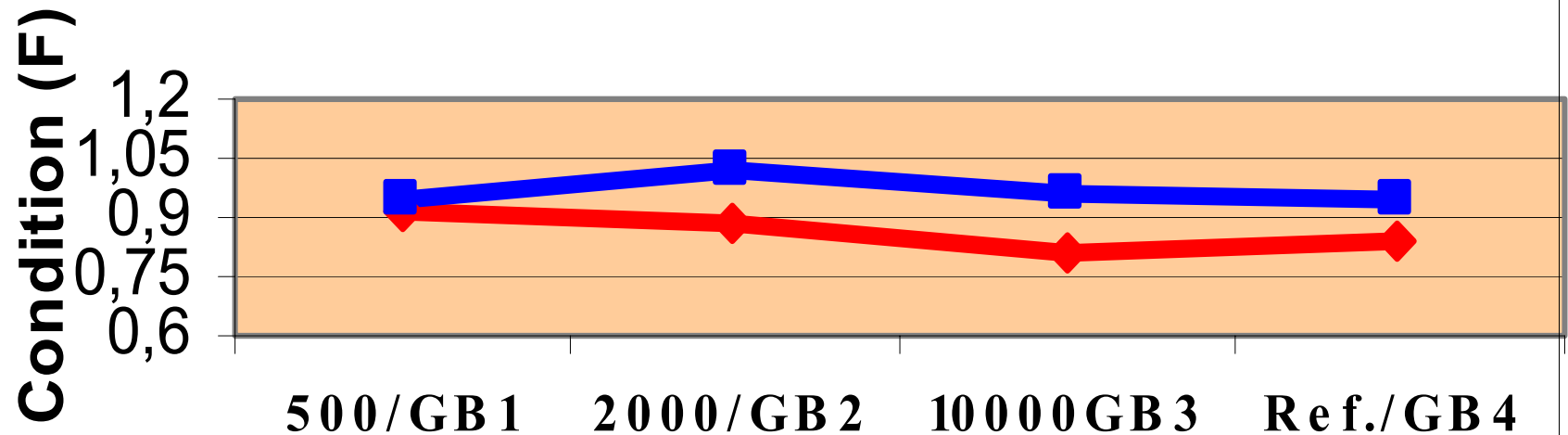


**Figur 1.2**

Torskens konsum (tusen tonn) av ulike byttedyr i perioden 1984-1998, beregnet fra modellering av mageprøvedata.

*Consumptions by cod (thousand tonnes) of various prey species during 1984-1998, estimated from modelling of stomach samples.*

## Caged cod at Statfjord





# Conclusion

- The Caging experiment was successful
- All the cages was retrieved
- The cod and blue mussels seemed to be in fairly good condition
- The cod at the station nearest to Statfjord was in a slightly Better condition than the control
- Cod from the Germen Bight was in better condition than those from the Statfjord area. (there may be a better attraction of food organisms to the light in the costal water).