



Climate change – impacts for fisheries and local community

Elling Lorentsen

Senior advisor

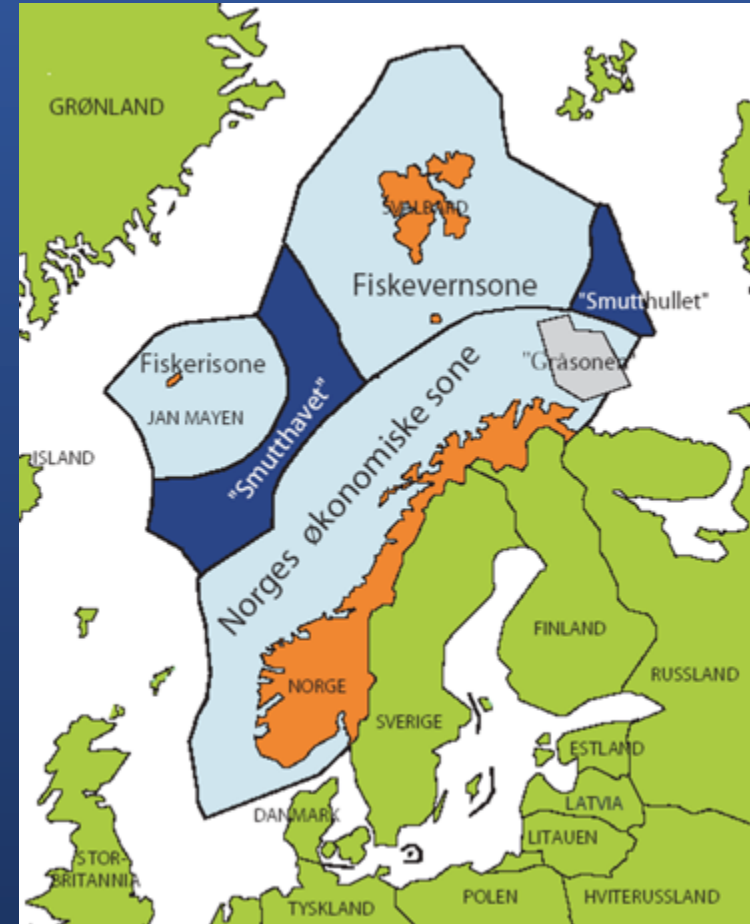
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What means the fisheries in Norway



- The economic zone cover an area 6 – 7 times bigger than the Norwegian mainland





- 2.8 million tons of fish are caught every year in these areas
- The value represents more than 14 billion n.kr
- Our products goes to more than 160 different countries



- The fishing industry is Norway's second biggest export industry
- Therefore, the industry has an important role in many communities along the coast.



Developement

	Fishermen	Vessels	Catch
1926	Approx 100.000	65.000	800.000 tonnes
2013	Approx 10.000	6.000	2 181.000 tonnes

Coastal vessels



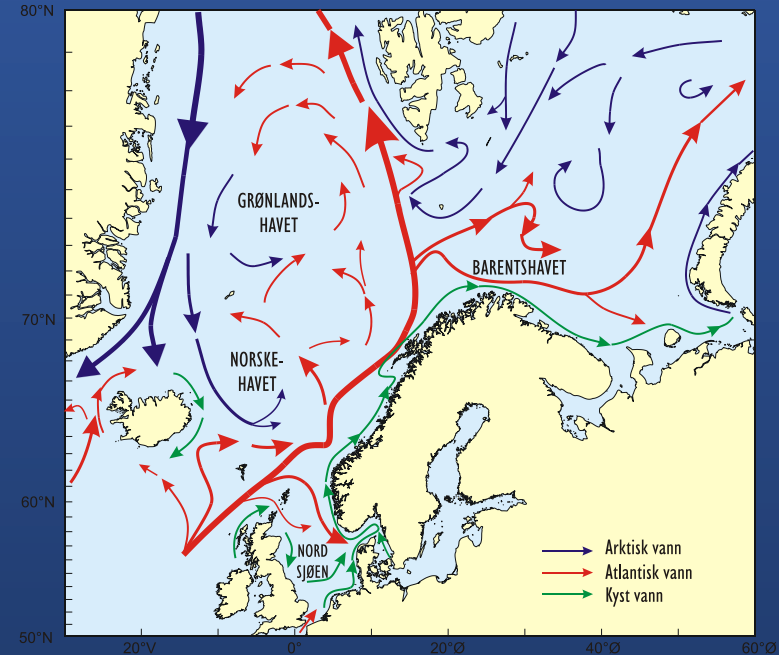
Oceangoing fishing vessels



Main currents

The **Gulf Stream**, together with its northern extension towards Europe, the North Atlantic Drift, is a powerful, warm, and swift Atlantic ocean current.

The stream is vital for our fisheries





- Norwegian fishermen are well qualified
- During the last 30 years fishermen have changed their way of fishing, due to
 - Management changes (fixed quotas)
 - Cut in subsidies
 - Changes in migration for some species
- The fishing fleet - minor problems



- For processing plants the changes could be more difficult to meet
- One of the main drivers in the fishing industry – both at sea and onshore is profitability



- If we can expect major changes either for migratory routes, or fish species, part of the fishing fleet will could meet this change
- The change we have seen in Norwegian Sea and Barents sea, is positive for the stocks – very healthy cod stock and very high mackerel biomass
- There has always been a natural variation in temperature in Barents Sea – question now is : will temperature still increase and stay high?



- The processing plant, however should already start a process toward a new structure – both for new products and localisation, which again can change local community structure
- This would be a great challenge for them than for the fleet - or we can see a structural change in both parts.
- **THANK YOU!**