Changing MSY over time

NMTT 8 Oct 2019 Petur Steingrund, Havstovan

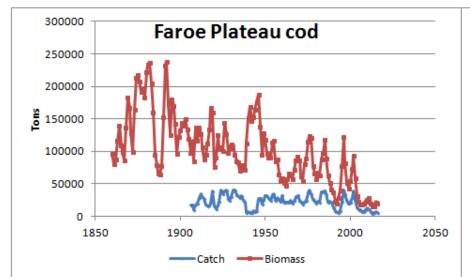


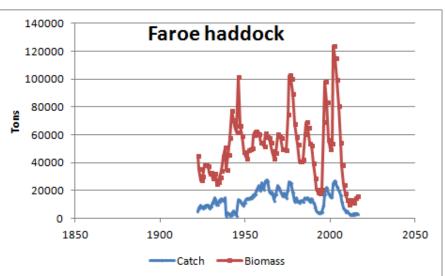


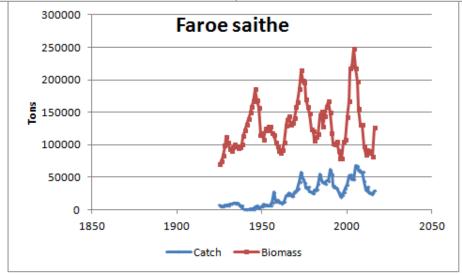
Time series of demersal fish in Faroese waters

- Age-based assessments back to c. 1960.
- CPUEs back to 1906/1925 (British data) that overlap age-based assessments.
- Merging these data gives long time series of demersal fish biomass in Faroese waters.
- Catches available back to 1906.









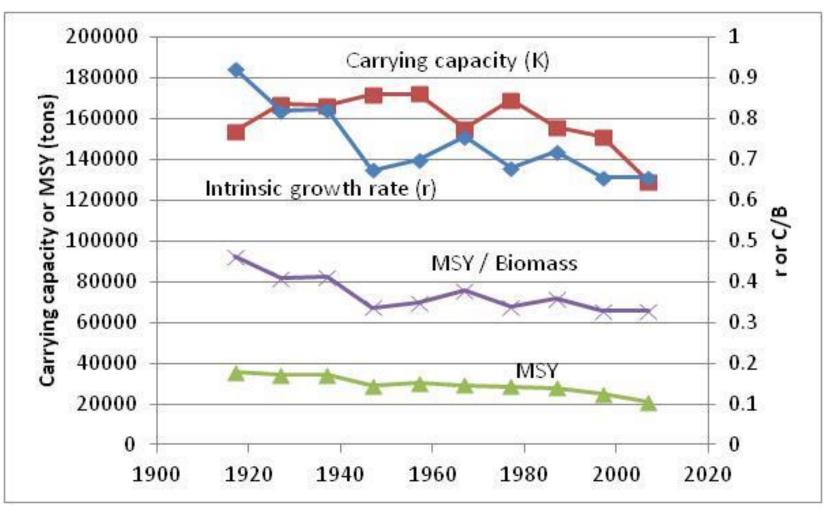


Method

- Use biomass and catch data to estimate K,
 r, MSY and MSY/biomass (Schaefer).
- Use 39 year windows that move in steps of 10 years.

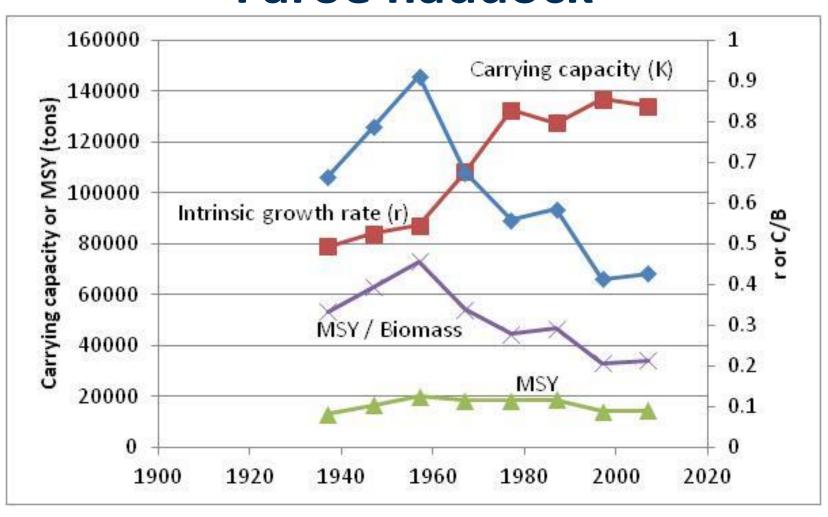


Faroe Plateau cod



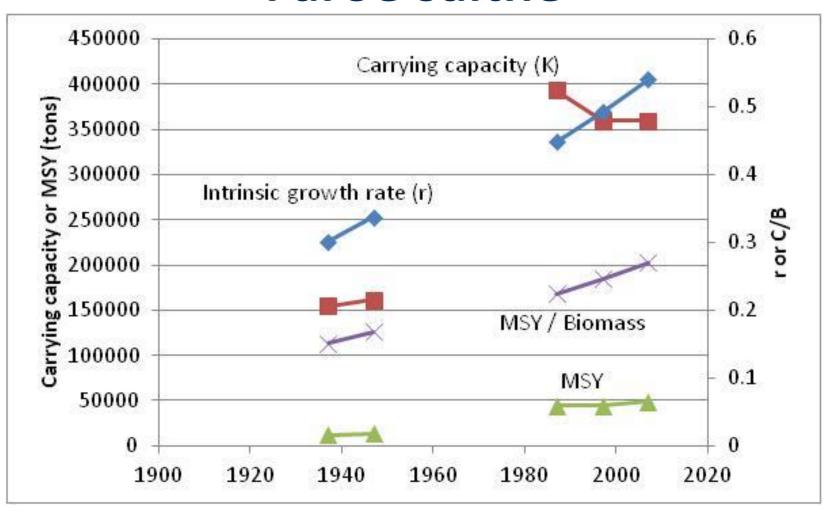


Faroe haddock



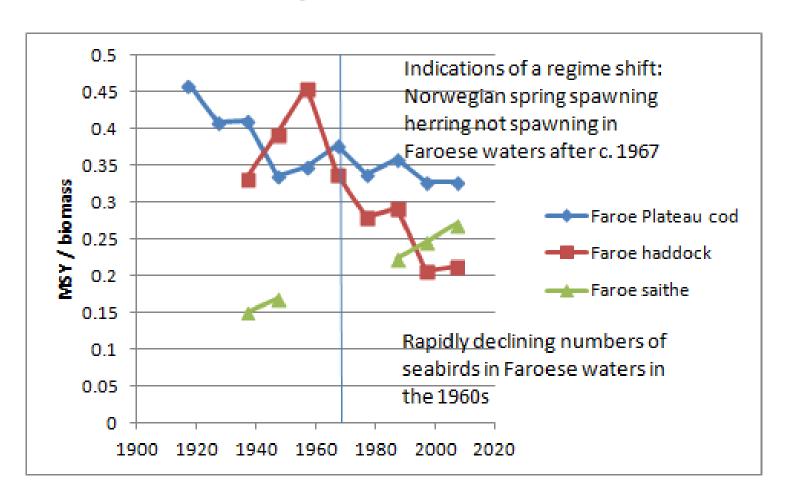


Faroe saithe





Regime shifts?





Take home message

- Long time series are needed to demonstrate changes in reference points.
- Reference points may change over time (decades).
- These changes may occur as a result of regime shifts, although this topic is difficult.



Thank you for your attention

