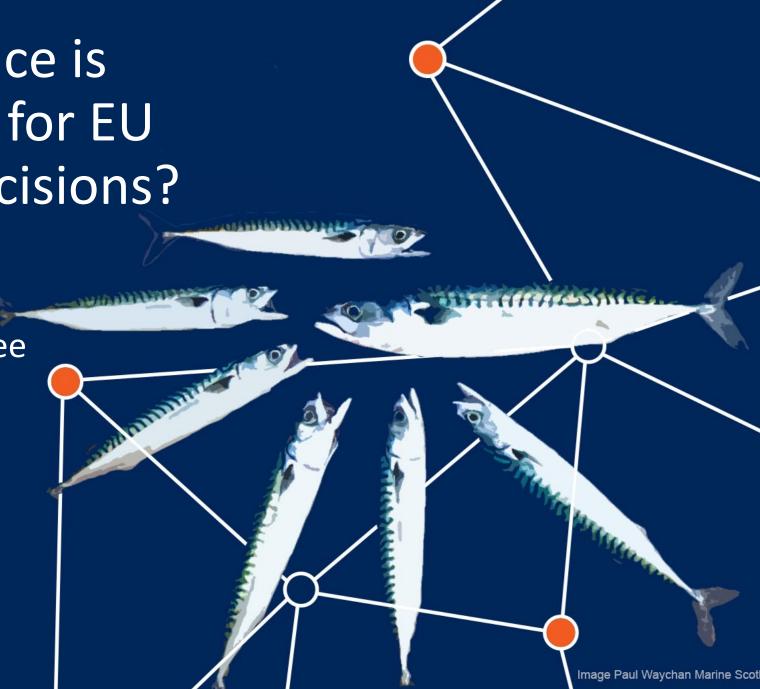
How scientific advice is developed by ICES for EU Fisheries Policy decisions?

Colm Lordan
Chair ICES Advisory Committee







Mission

To advance and share scientific understanding of marine ecosystems and the services they provide and to use this knowledge to generate state-ofthe-art advice for meeting conservation, management and sustainability goals





Knowledge creation and sharing





Evidence based scientific advice



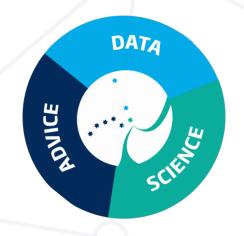


Data, tools and techniques





Training, conferences, and workshops





Advice published 2023

198 17

Fishing opportunities Special requests

6

Overviews + Technical guides services

Advice on Advice on fishing opportunities

Guide to ICES advisory framework & principles

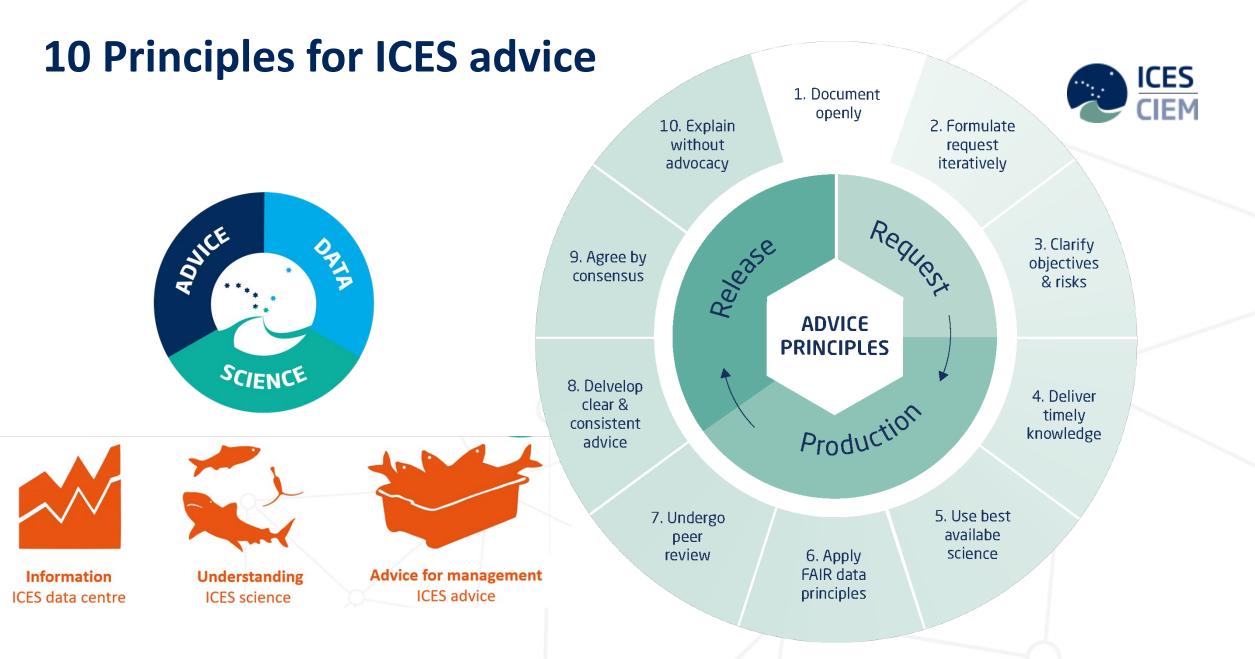
Advice on Advice on ecosystem services

& effects

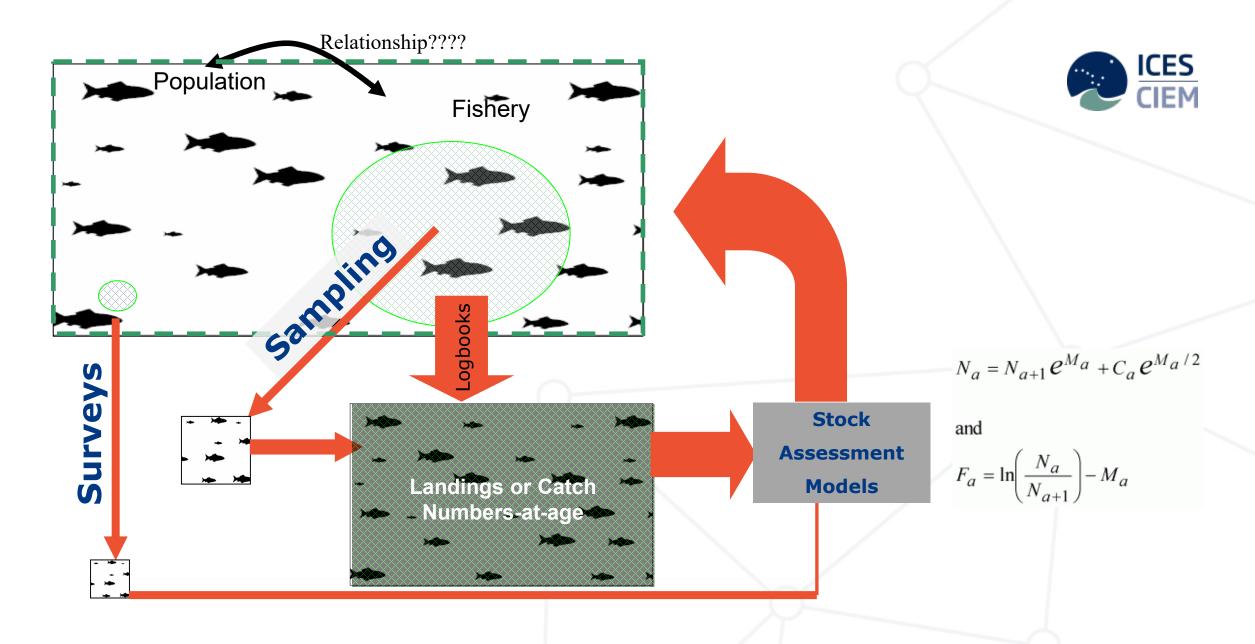
Key requesters of advice



https://www.ices.dk/advice/

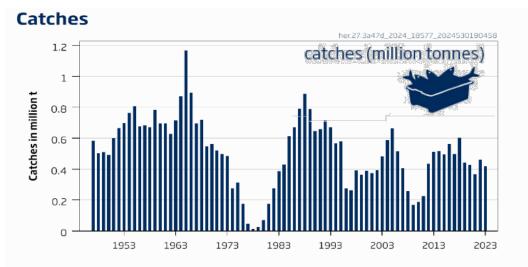


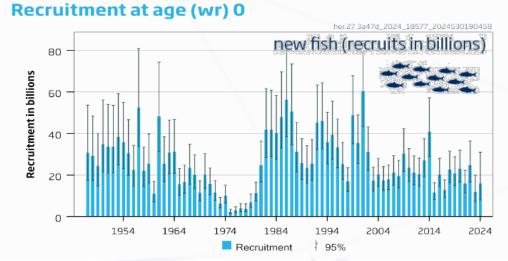
ICES. 2023. Guide to ICES advisory framework and principles. https://doi.org/10.17895/ices.advice.22116890



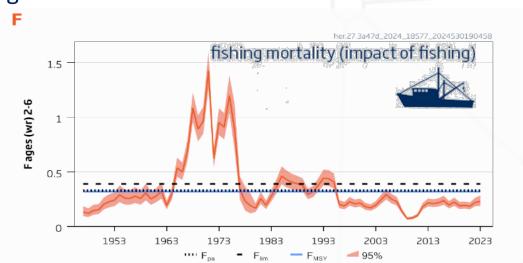
This produces a stock assessment

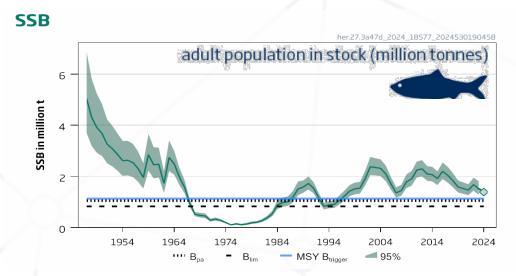






North Sea herring



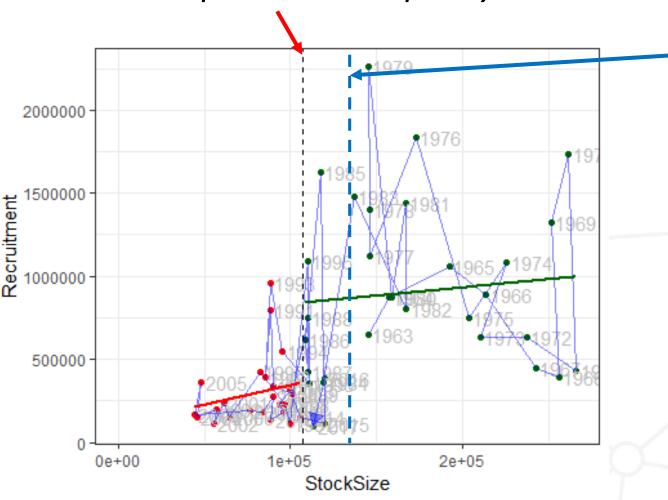


Science for sustainable seas

ICES Precautionary Approach

B_{lim} limit reference points associated with reduced reproductive capacity



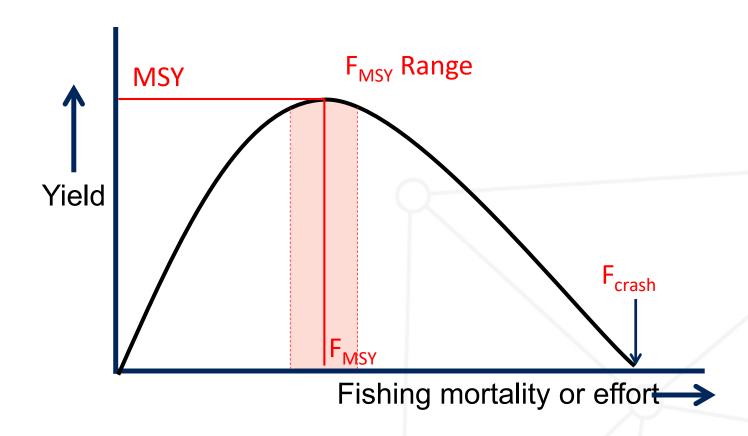


B_{pa} precautionary reference points: "buffers" to account for assessment uncertainty

Maximising Yield

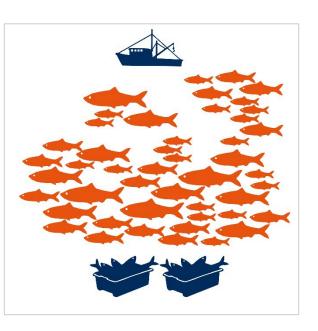
 Yield curve shows yield as function of fishing mortality or fishing effort

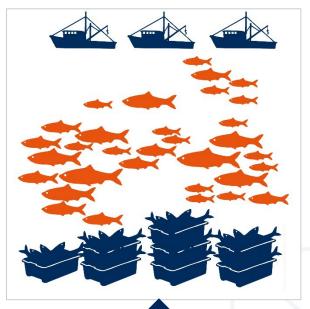


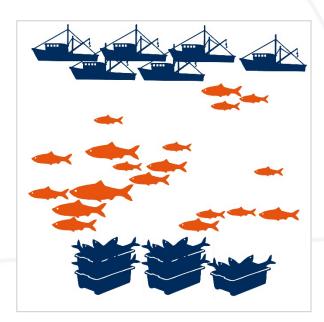


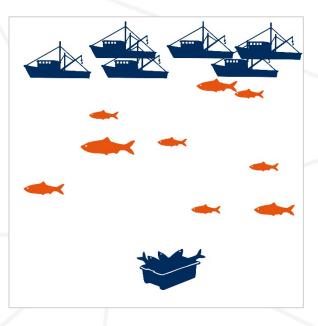
Reference points maximum sustainable yield (MSY)











1

ICES interpretation of MSY is maximization of average long-term yield from sustainable stocks

Informing Ecosystems Based Management

ICES CIEM

- Management of human activities
- Protecting the marine environment
- Consideration of collective and cumulative pressures
- Balancing sustainable use with conservation and restoration
- Collaboration with diverse stakeholders
- Optimization of benefits among diverse societal goals
- Assessing trade-offs across multiple dimensions
- Varying scales (spatial and temporal)

