Seafish Common Language group: Demersal stock status December 2022

Dr Ewen Bell



Together we are working for a sustainable blue future





Advisory changes in 2022

ICES new data-limited advice rules

Enhanced process for stocks with biomass trajectories

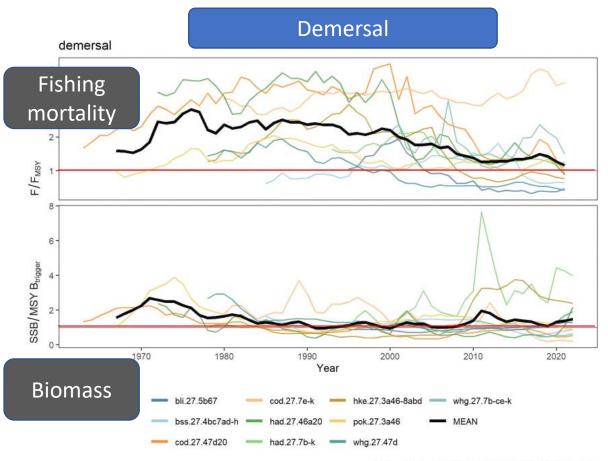
RFB (Ratio, F, Biomass safeguard)
CHR (Constant Harvest Rate)
RB (Ratio, Biomass safeguard)

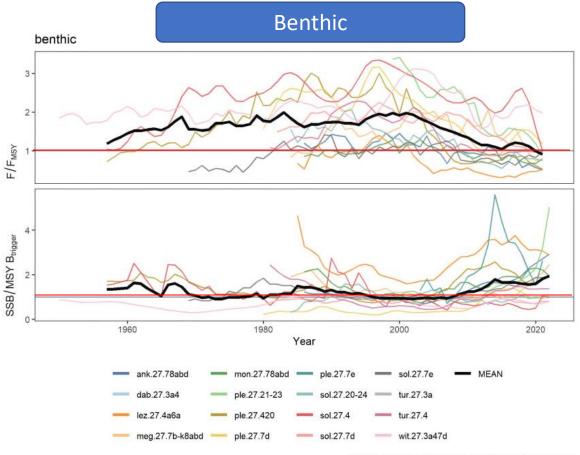
Suspension of Russian Federation from ICES

Affected advice for arctic



General trends: North Sea





ICES Stock Assessment Database, October/2022. ICES, Copenhagen

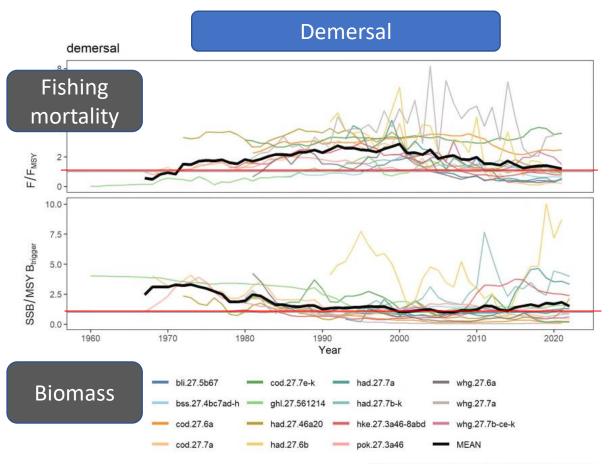
ICES Stock Assessment Database, October/2022. ICES, Copenhagen

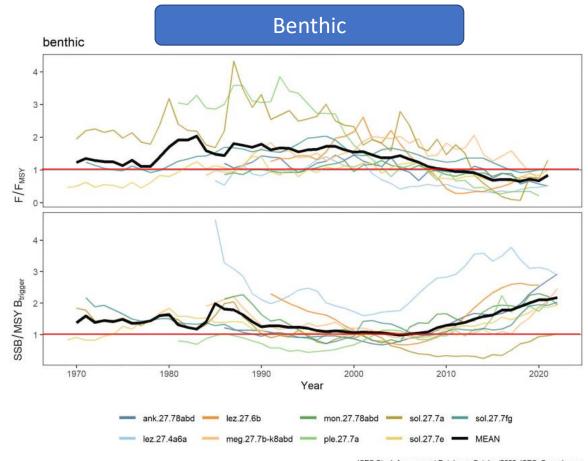




Fishing mortality generally decreasing Biomasses generally increasing

General trends: Celtic Seas





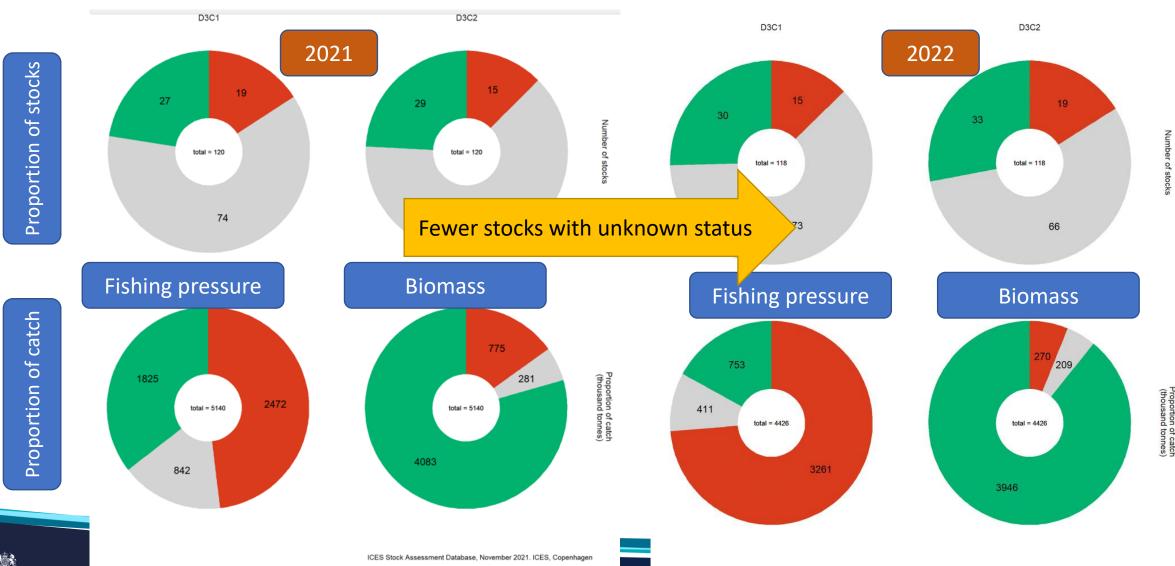
ICES Stock Assessment Database, October/2022. ICES, Copenhagen

ICES Stock Assessment Database, October/2022. ICES, Copenhagen





MSFD indicators: North Sea

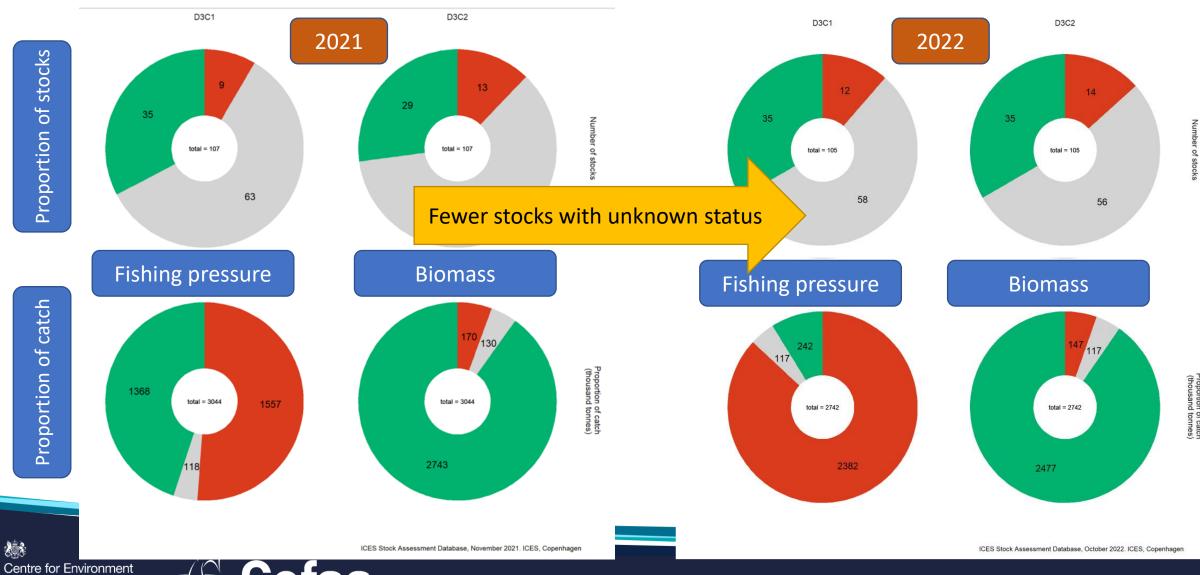




Centre for Environment Fisheries & Aquaculture

Science

MSFD indicators: Celtic Seas





Fisheries & Aquaculture

Science

Some Highlights (and lowlights)

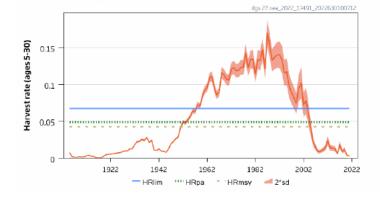


Spurdog NE Atlantic

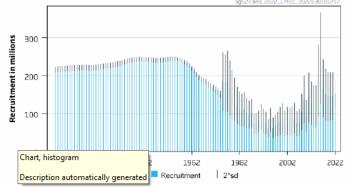
Catches 60 40 10 10 1922 1942 1962 1982 2002 2022

discards

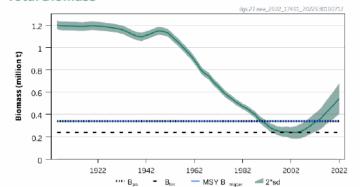




Recruitment (pups at age 0)



Total Biomass

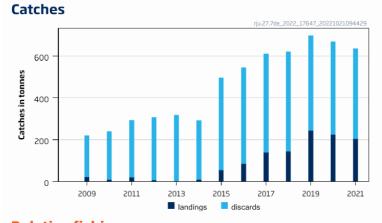


- Previous advice, "no targeted fisheries"
- •Low bycatch TAC set (270t)
- Benchmark assessment.
 - Additional surveys
 - Updated fecundity data
 - More pups at low stock size
- Continues impression of increasing stock
- •Reference points changed
- Advice for catches <17,353t
- •Landings currently prohibited with exemption for some bycatches

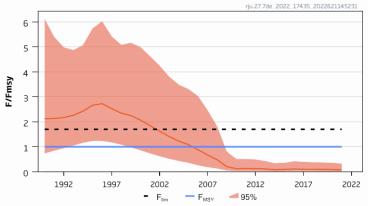




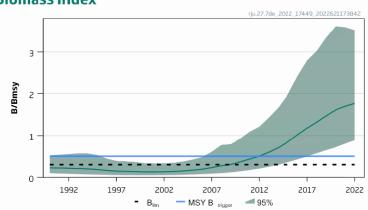
Undulate ray in 7de (English Channel)







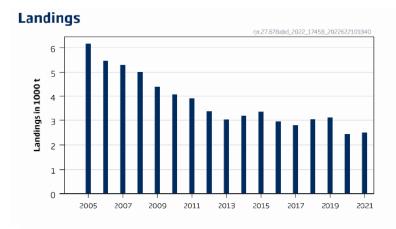
Biomass Index



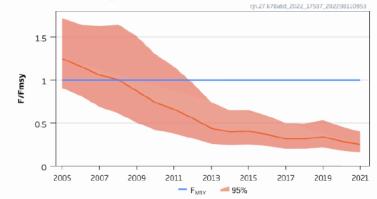
- New assessment.
 - Previously data limited methods
 - Now analytical (biomassdynamic)
- Increase in survey abundance over 10 years
- Advice increased from 183t to 4386t
- >2000%!



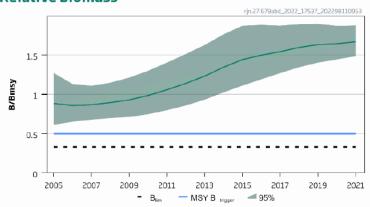
Cuckoo ray in 6,7,8abd



Relative fishing pressure



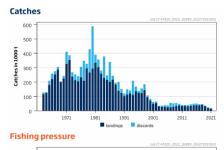
Relative biomass

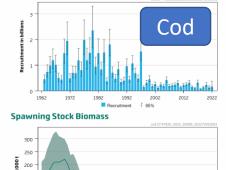


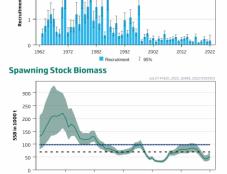
- New assessment same as undulate ray in 7de.
- Advice increased from 3150t to 7826t (~150%)
- Part of the Group TAC -SRX/67AKXD



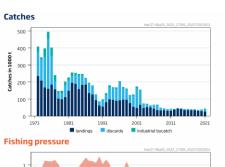
North Sea Demersals, a mixed bag

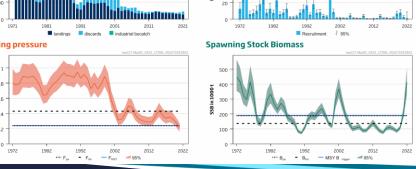


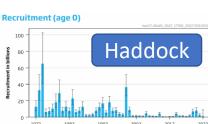


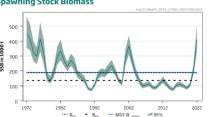






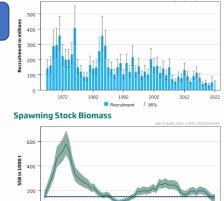


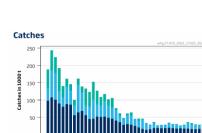


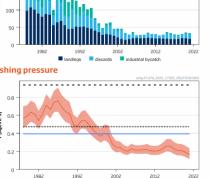


- Cod recruitment cod remains poor, stock size low but projected increase with decreased F.
- Saithe recruitment declining, F steady so stock declining
- Haddock relatively low recruitment 2019 & 2020 recruitments larger, F low, stock increasing rapidly
- Whiting, low F, recruitment steady, SSB increasing









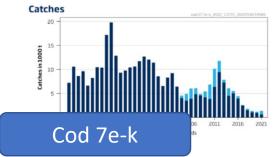


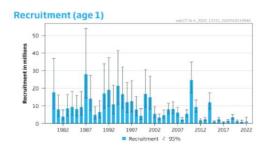


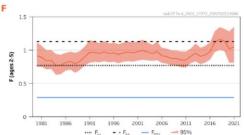


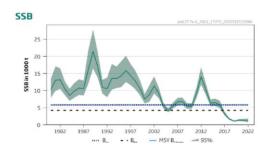


Celtic Sea Demersals







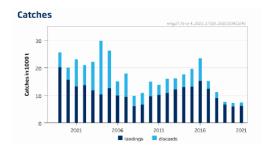


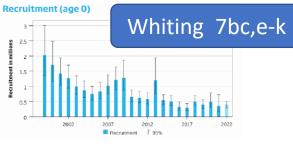
Cod very depleted, low recruitment, high F Whiting, low SSB, low recruitment, high F

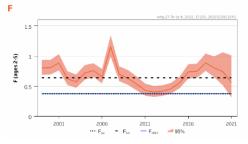
Haddock, large SSB, ok recruitment, F just above Fmsy.



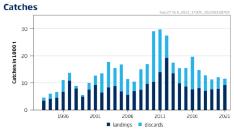


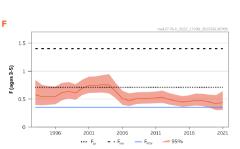


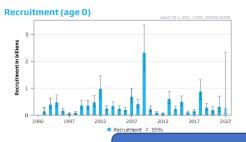


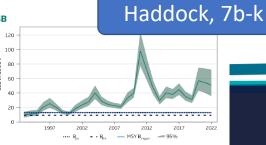




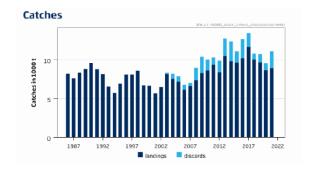


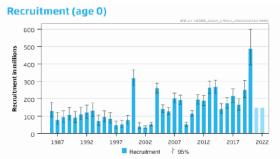


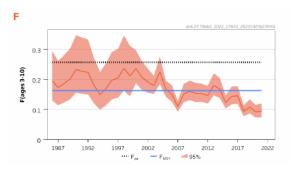


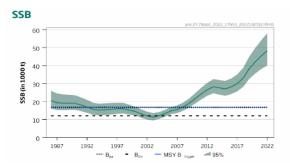


Celtic Sea Benthic









Black-bellied anglerfish 78abd

Management challenge: Catch benthic species whilst avoiding cod & whiting

Megrim (wiffiagonis) 7b-k, 8abd

