

UPTAKE NWW CHOKE MITIGATION TOOL IN ICES MIXED FISHERIES ADVICE

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Development of MIXFISH advice:

- Fleet based approach (2002)
 - Fleet : group of vessel (same size and using the same gears)
 - Métier : same exploitation pattern (same gear targeting the same species)
- First WS in 2009
 - Take into account technical interaction using single stock advice
 - Show potential inconsistencies in the single species advices
 - 2 stocks caught together one increasing the other decreasing = conflicting advice
- Idea: we cannot predict fleet behaviour and adaptation so we identify mismatches across stocks' advice and aim to reduce sources of tensions
- Estimation of effort corresponding to single-species TAC advice for each fleet.
- Define some scenarios i.e.
 Stop fishing when first ("min") or last ("max") quota exhausted.



Development of MIXFISH advice:

Mixed fisheries advice for :

- North Sea : cod, haddock, whiting, saithe, plaice, sole, and Norway lobster *Nephrops norvegicus*
- Celtic Sea : cod, haddock, whiting (*monkfish, hake, megrim, Nephrops*)
- Iberian Waters : hake, anglerfishes, megrims

Under development

- Bay of Biscay: Hake, Sole and Megrim



Fcube



Fplaice







Single stock advice Partial F / fleet

Partial **F** / métier









Fcube





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Eple1 > Ecod1 > Ewhg1 > Esol1Max scenarioMin scenario













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15/03/2019

choke interm.

least





Curent procedure:

"relative stability" allocating future opportunities by fleet (e.g. Target partial F in 2019) is based on catch 2017

 $Ffleet2019 = F2019 * \frac{Catchfleet 2017}{Total Catch 2017}$

Problem:

- if a fleet had low catches (not catching their full quota) in 2017 then low associated target F for 2019
- This species can then become a choke species in the model eventhough in reality the fleet has a high quota and is not limited but just does not catch it



Idea: Include some aspects of countries quota (Choke Category 1: Sufficient quota at MS level but poorly distributed) / Choke Mitigation Tool

*QuotaShare*_{Country}

Choke Mitigation Tool calculations were implemented and applied for 2017 using the WGMIXFISH dataset and the TAC and quotas 2017 data obtained from the EU FIDES database, which records the initial and final (after swaps) quota by member state



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 $F_{Country2019} = F_{2019} * QuotaShare_{Country}$



Decision Rule

If $F_{Country2019}$ > Potential $F_{Country2019 At Status}$

then the stock does not enter the "min" scenario for the fleets of that country





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predicted landings 2019



Without FIDES -49.74% COD-NS PLE-EC PLE-NS SOL-EC WHG-NS 18 1 2 1 12 200000 COD-NS HAD PLE-EC PLE-NS POK 150000 SOL-EC SOL-NS WHG-NS NEP6-9 100000 50000

> min Fcube scenarios

max

sq E



Fcube and Mixed fisheries advice

Mixed fisheries advice important in the context of the multiannual plan

Based on hypotheses and scenarios (development of the "range" scenario supposed to closest to reality than "min" and "max")

Hypotheses subject to discussion



Thank You

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