State of Fisheries in Catalonia 2023 (Northern GSA 6)

Technical Meeting Brussels, September 20th 2024





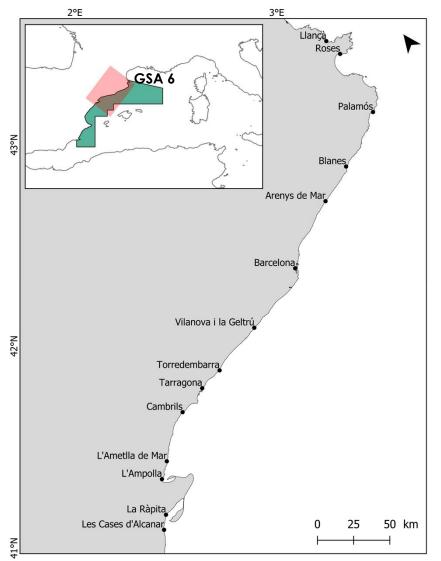










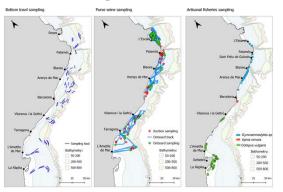






Fisheries Advisory Service (2018)

Fisheries governance based on scientific data



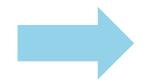






- Continuous monitoring of commercial and recreational fisheries resources
- 2 Technical reports and scientific articles
- Participation in co-management committees





Scientific advice to the administrations in fisheries management



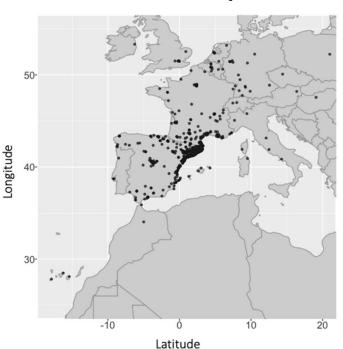




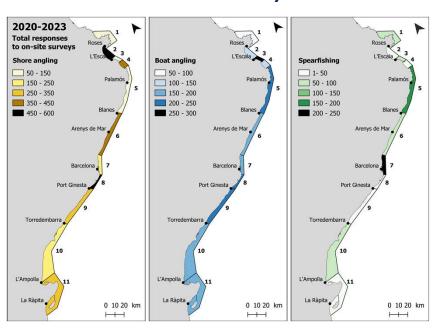
Marine recreational fisheries (2020-present)

45,000 licences for MRF in Catalonia, yearly

Online surveys



On-site surveys



ALTRES DISPOSICIONS

DEPARTAMENT D'AGRICULTURA, RAMADERIA, PESCA I ALIMENTACIÓ

RESOLUCIÓ ARDASSADOS, de 10 de estembre, per la qual es fixen he tables mínimes de captura, quotes i vedes d'applicació a la pesca maritima recreativa a les algües interiors del librari de les comarques de Gionne per al període 2022-0208.

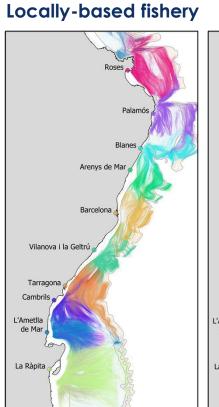
La Lie 2/2010, de 18 de febrer, de pesca i acció maritima, estableir en die deservolugament solucional per al període 2022-0208.

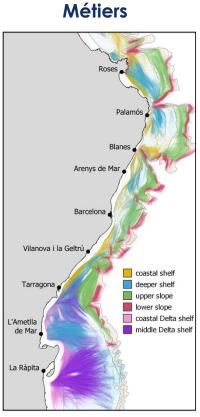
La Lie 2/2010, de 18 de febrer, de pesca i acció maritima, selverir ne de deservolugament solucional per prepolació accional persponencia del des reunos mannes, advorrir ne die deservolugament solucional per prepolació accional per proportional per prepolació accional per proportional per prepolació de pesca maritima precisado de la pesca maritima precisado, el pesca que publicar la relació de de talles minimas el pesca maritima de pesca de la pesca maritima publicar la relació de de la lem minima se lucida pesca de la pesca maritima precisado, el pesca namitima recestiva, el combre actual del licitancia de pesca maritima precisado, el pesca maritima recestiva, el combre actual del licitancia de pesca maritima precisado, el pesca pesca pesca de la pesca maritima precisado, el pesca maritima recestiva, el combre actual del licitancia de pesca entre estable, a la pesca, il si situació dels considerenses deler recestiva, el combre actual del licitancia de pesca del pesca

25,000 surveys

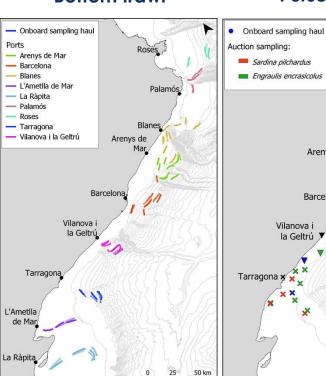


Commercial fishing





Bottom trawl



Purse seine

Arenys de Mar

Barcelona .

Vilanova i

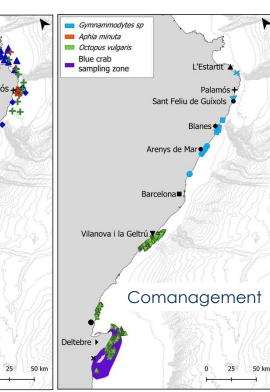
la Geltrú 🔻 🗾

L'Escala

Blanes •

Palamós





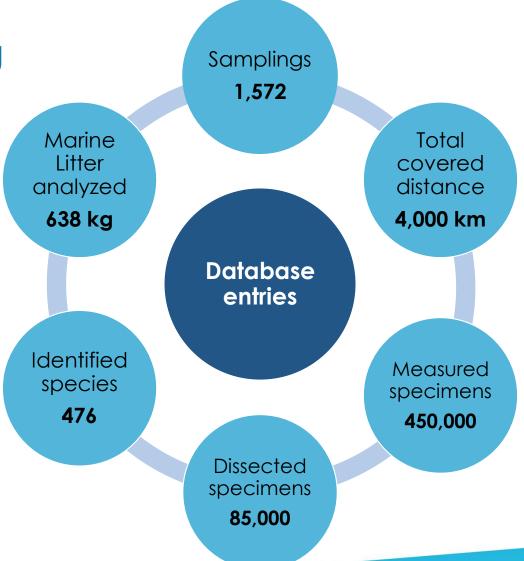


Fisheries Advisory Service

Continuous monitoring 2019 - 2023







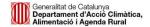


Evolució de les captures i els preus de venda del

Periodic publications

March

Catches and revenues report







Generalitat de Catalunya Departament d'Acció Climàtica, Alimentació i Agenda Rural

July

State of Fisheries report

Part I: Biological monitoring Part II: Stock assessment









Fisheries advisory reports





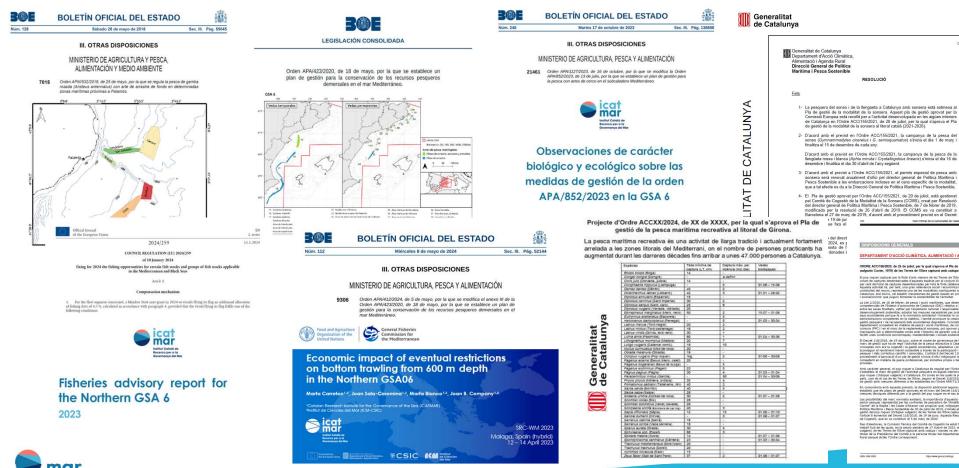








Governance impacts



- 1- La pesquera del sonso i de la llengüeta a Catalunya amb sonsera està sotmesa al Pla de gestió de la modaltat de la sonsera. Aquest pla de gestió aprovat per la Comisso Europea esta recolit per a Tacifivati desenviougada en les agies interiors de Catalunya en l'Order ACC/155/2021, de 20 de julio, per la qual s'aprova el Pla de gestió de la modaltat de la sonsera al litoral catallà (2021-2025).
- D'acord amb el previst en l'Ordre ACC/155/2021, la campanya de la pesca del sonso (Gymnammodytes cicerelus i G. semisquamatus) s'inicia el dia 1 de març i finalitza el 15 de desembre de cada any.

- 3- D'acord amb el previst a l'Ordre ACC/155/2021, el permis especial de pesca amb sonsera será renovat anualment d'ofici pel director general de Politica Maritima i Pesca Sostenible a les embarcacions incloses en el cens específic de la modalitat, que a tal efecte es du a la Direcció General de Política Maritima i Pesca Sostenible.
- 4- El Pla de gestió aprovat per l'Ordre ACC/155/2021, de 20 de juliol, està gestion

DEPARTAMENT D'ACCIÓ CLIMÀTICA, ALIMENTACIÓ I AGENDA RURAL

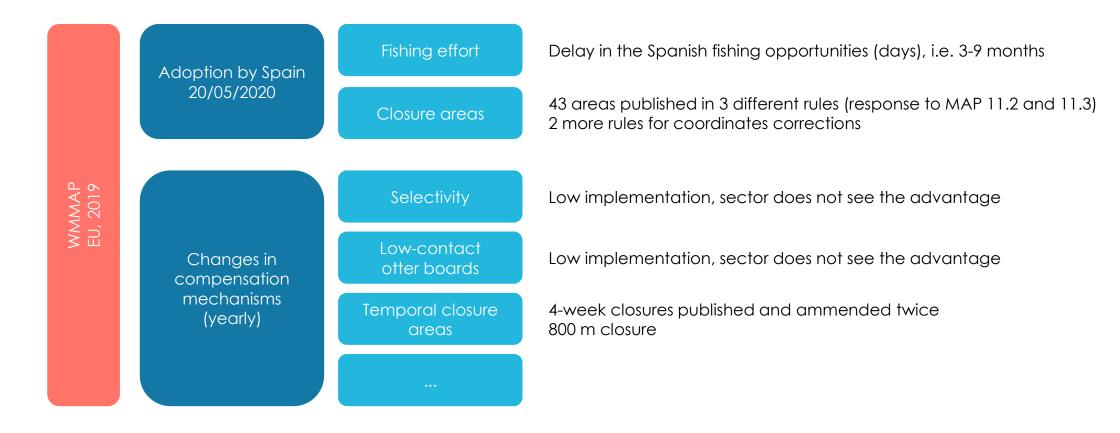
Los report solicitat per la fida d'intermence des la trece al l'Elec representa el secultar per ce desen de citables decentre code d'investiva que les per la color d'intermence a trabalagne et la per cest de fottal de captures desembarcades per tota la fida cabilitat, locales la fida d'arrossegui Aquesta adrividat e, per tota, un gara refericiona social encomosi. Le empre que se pupi parantili contrautad del recur, representa una de las modalitats maniqueses anti mayo perspectiva de full a sociedamina que pupi per formetta la sociatoridat de faccional, receptiva persona de full a sociedamina que pupun formetta la sociatoridat de faccional, receptiva personal de la sociatoridad de la construcción de la const



Commercial Fisheries (WMMAP) Advisory Report for the Northern GSA 6 2024

- 1. Benchmark (hake)
- 2. Regionalization (management by smaller, locally-based administrative units)
- 3. Fisheries management advice





TOTAL: ~20 regulations / modifications in 4 years

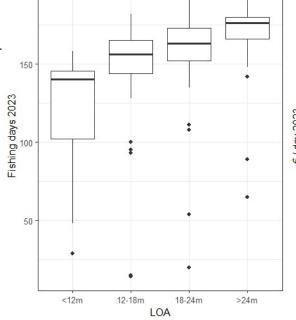


Income by LOA segment

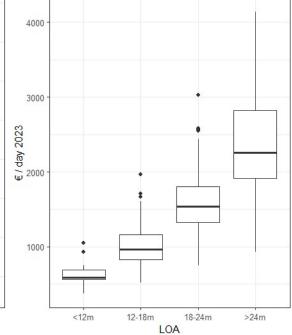
OTB Catalonia 2023

	N° vessels	Mean annual fishing days / vessel	Mean € / fishing day	Mean annual revenues (€)
<12m	11	117	651	76.251
12-18m	61	149	1015	151.184
18-24m	81	159	1594	253.269
>24m	49	169	2460	416.268





200



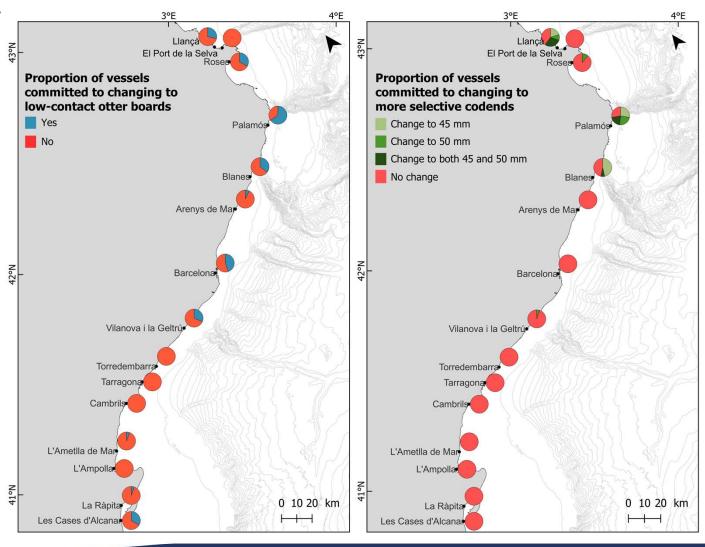






Low implementation of other management measures besides fishing days

Changes in fishing gear

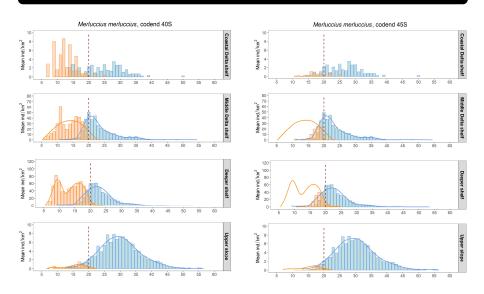




Benefits in population dynamics with lower socio-economic impacts

Changes in fishing gear: selectivity

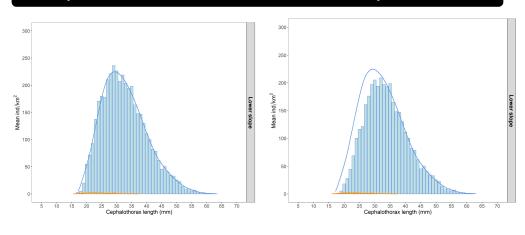
Coastal métiers – 45S– European hake - Catalonia



	% kg	%€
Coastal Delta shelf	39.90	4.31
Middle Delta shelf	50.41	1.97
Deep shelf	5.55	0.95
Upper slope	53.14	2.68

% reduction individuals below MCRS

Deep-sea métier – 50S – Blue and red shrimp - Catalonia



All catch is sold

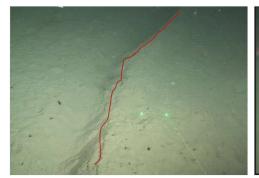
	% kg	%€
Lower slope	10.9	11.02

% reduction total catch

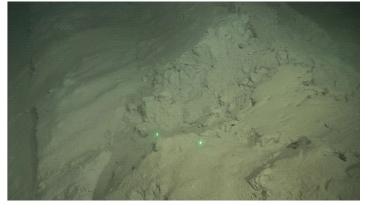


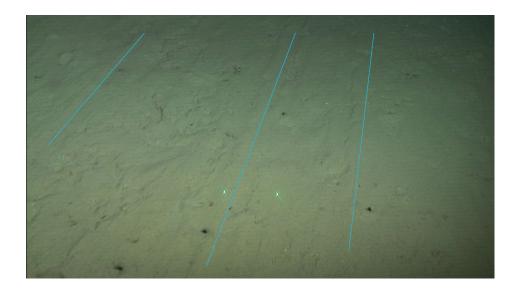
Benefits in ecosystem functioning with lower socio-economic impacts

Changes in fishing gear: low-contact otter boards









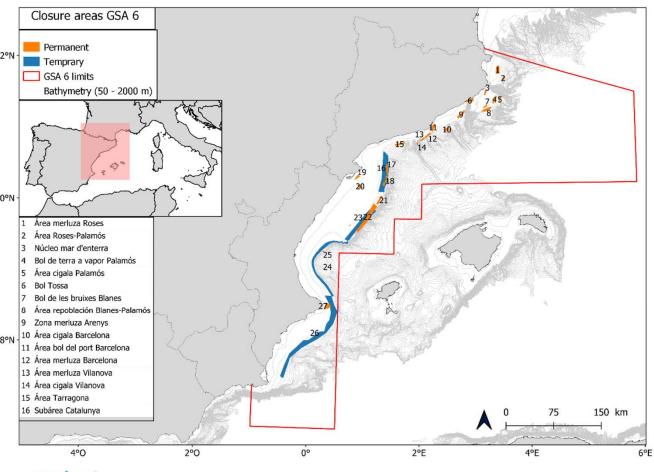
Conventional

Low-contact

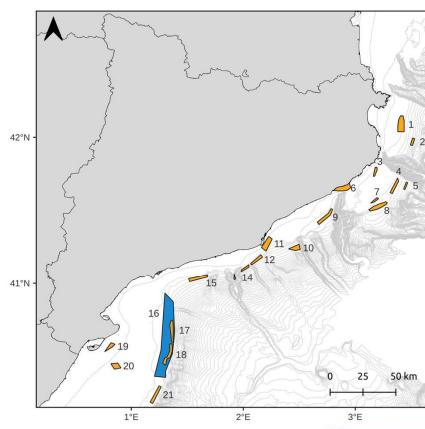


Benefits in ecosystem functioning with lower socio-economic impacts

Consolidating the fishing closures network



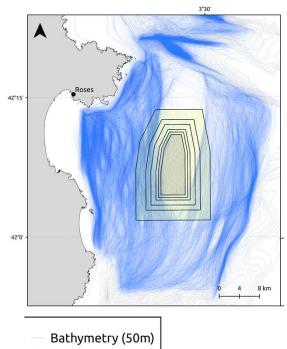
3 % of total fishable area in Catalonia (50m – 1000m)

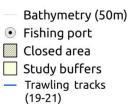




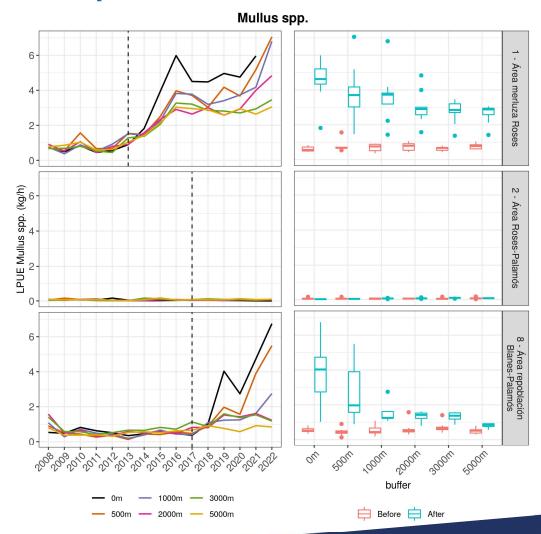
Commercial biomass spillover











Recruitment and spawning area

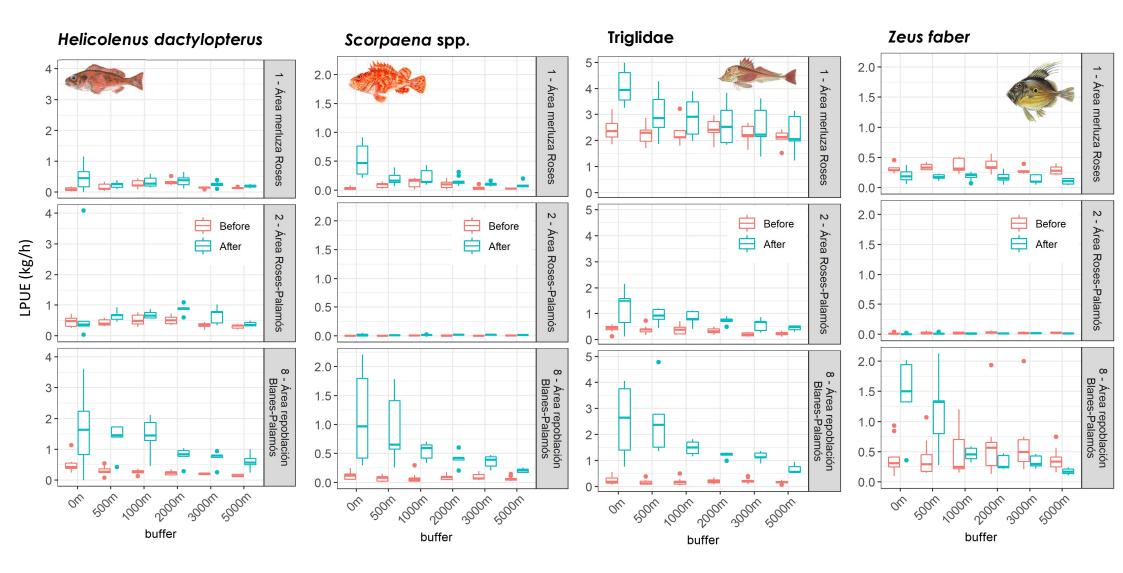
(no Mullus spp. habitat)

Spawning area

- Blue and red shrimp
- Deep-water rose shrimp
- Norway lobster
- Hake

Commercial biomass spillover

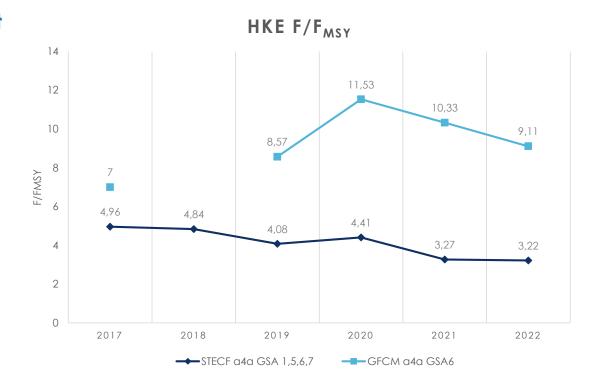
+ habitat recovery





Benchmark for European hake (HKE)

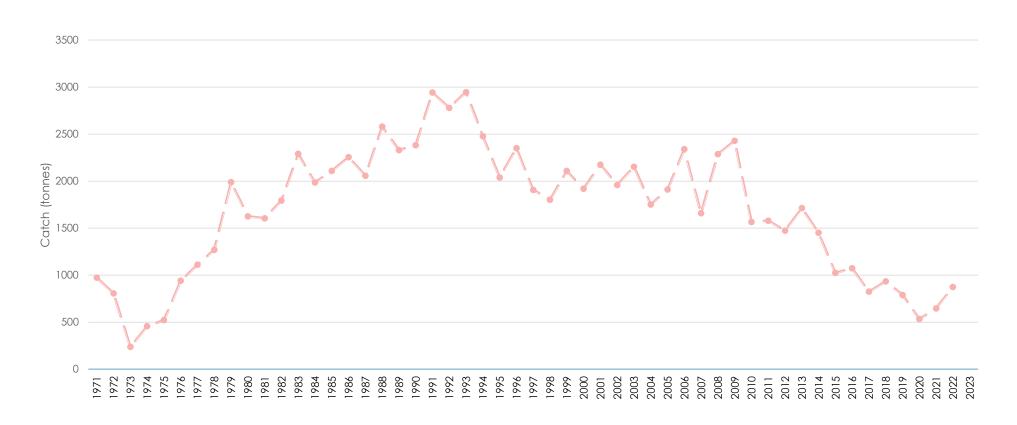
Stock assessment







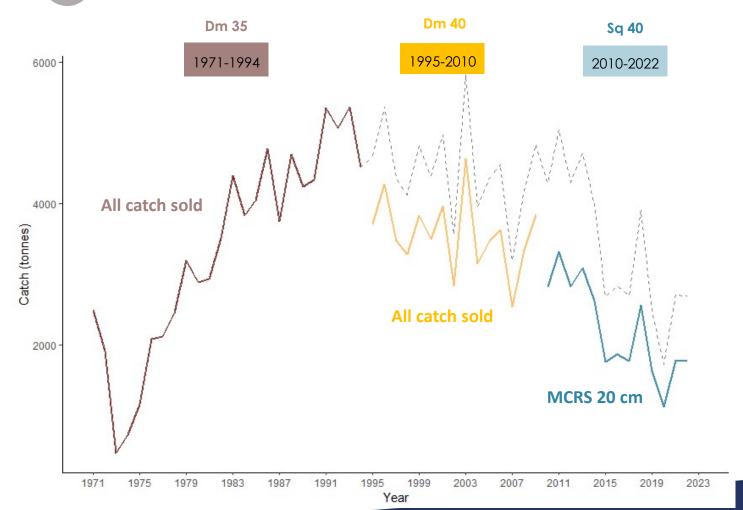
Decrease in catches in the time series GSA 6

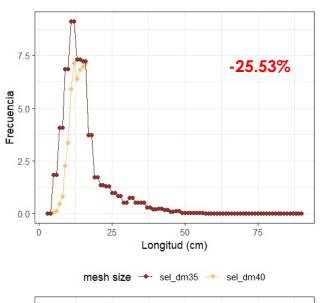


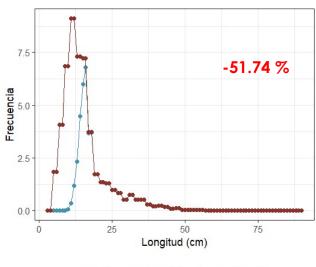




1 Selectivity changes through time GSA 6





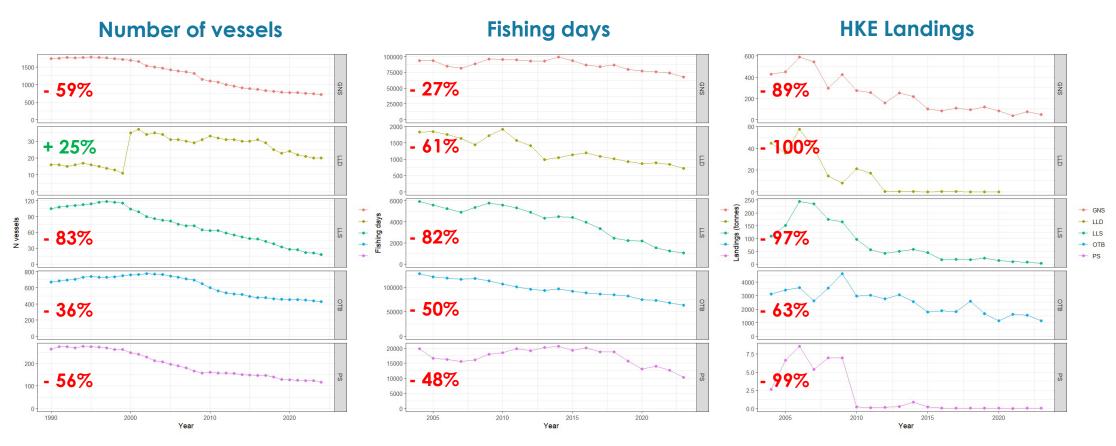


mesh size - sel_dm35 - sel_sq40





Reduction of **fishing effort** GSA 6 (1990 – 2023)

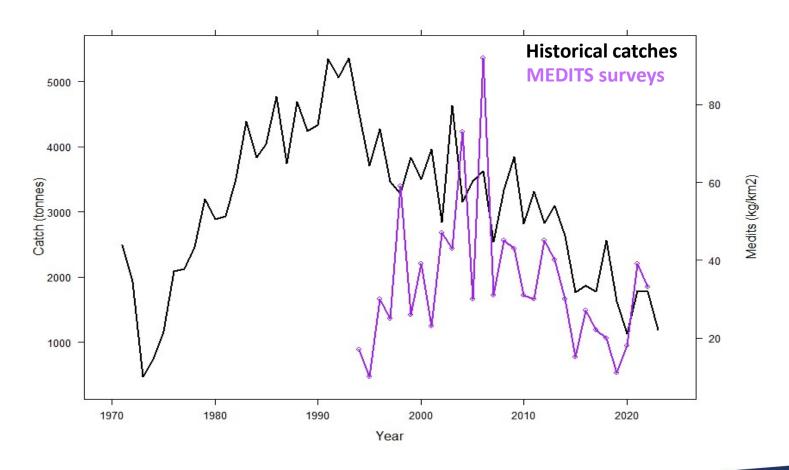






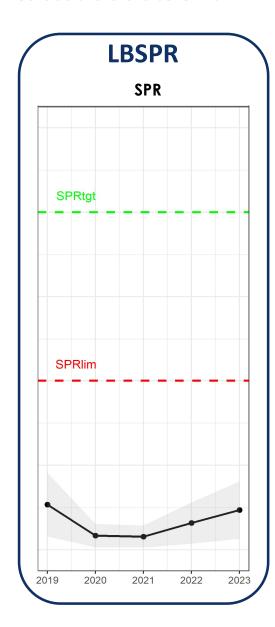
3

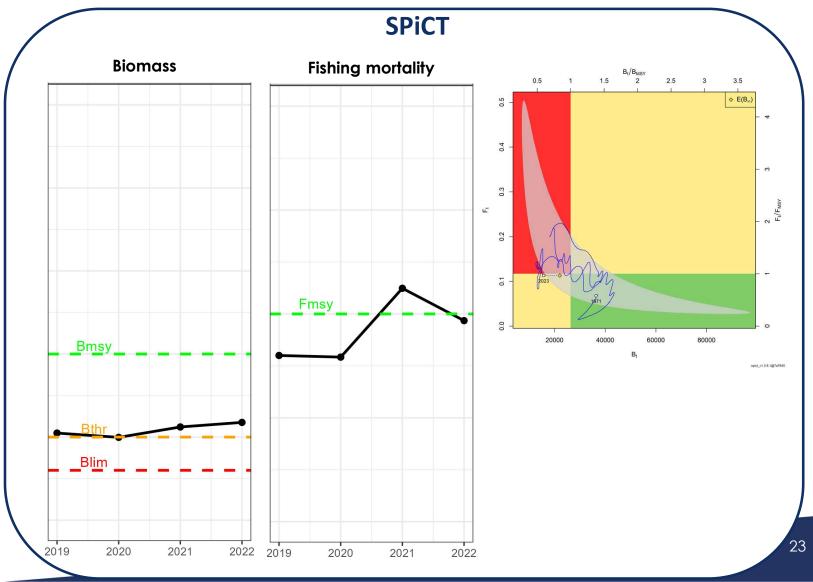
Biomass at sea shows no clear trend (MEDITS) GSA 6











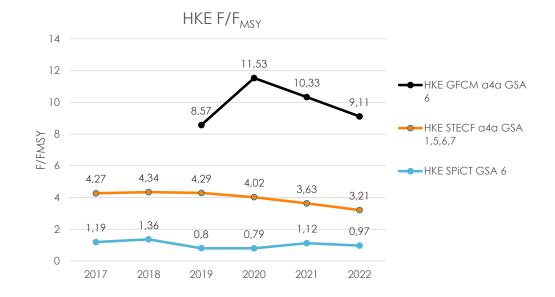


Need for benchmark

Last benchmark for HKE GSA1,5,6,7 in 2019

Good practices in stock assessment

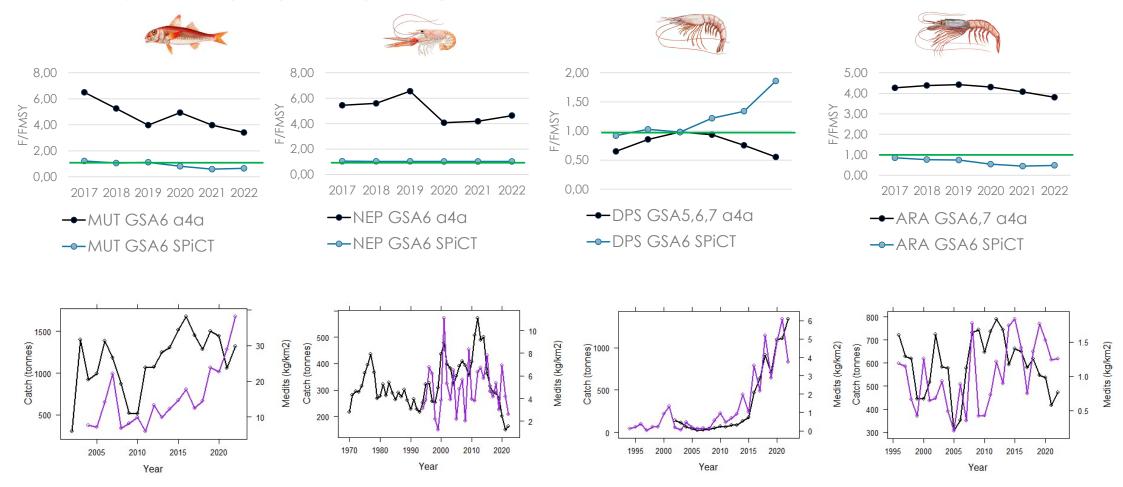
- Alternative models
- Use of historical time series which include
 - Changes in selectivity
 - Changes in fleet
- Updated biological parameters
- Complementary data





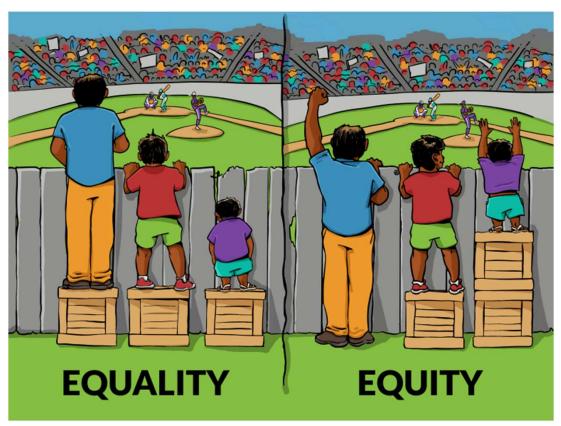
Considerations for a benchmark

Results comparison: a4a (STECF) vs. SPICT (ICATMAR)



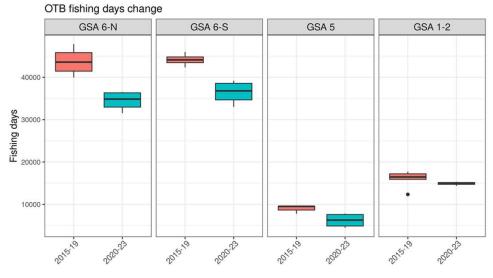


Is it time to consider smaller management areas?





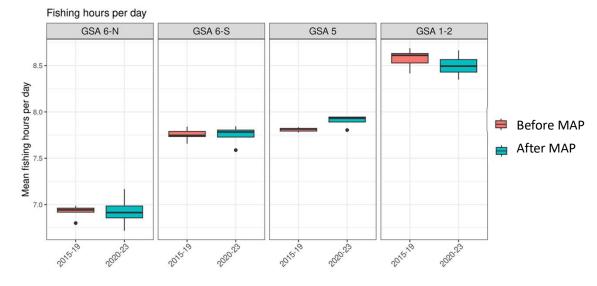
Fishing days vs fishing hours: Spanish Mediterranean GSAs



% reduction fishing days				
GSA 6-N	-21.2			
GSA 6-S	-17.4			
GSA 5	-31.0			
GSA 1-2	-6.4			

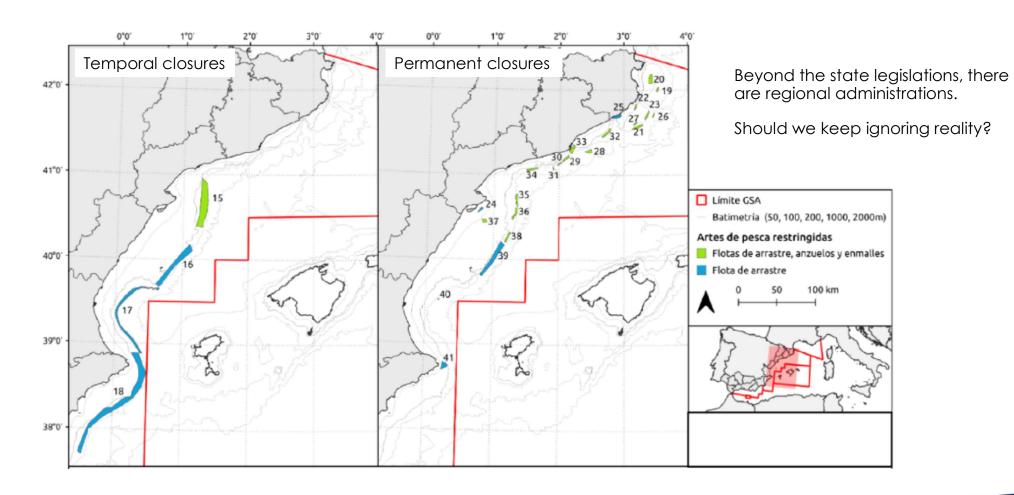
■ Before MAP

After MAP



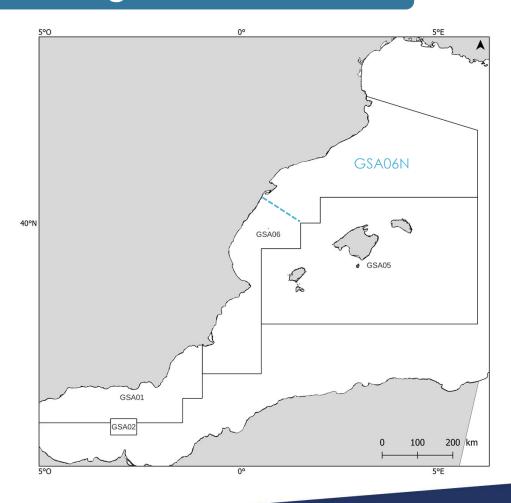


Permanent vs temporal closure areas: GSA 6





Need for regionalization



It would allow to:

- Resize the GSA 6 to a more easily management size
- Acknowledge the geopolitical reality of the GSA



Proposed management measures for the Northern GSA 6

Baseline measures

Bringing **job security** to the sector

- Rollover of fishing opportunities (days)
- 2. No further licenses during a specific period of the plan

Measures beyond reduction of fishing days

Applying effective measures for **population and ecosystem protection** compatible with socioeconomic sustainability

Population recovery

- 1. More selective gear (45 and 50 mm square)
- 2. 2.5-month closure for all small-scale vessels catching over 20% hake during proposed period

Ecosystem recovery

- 3. Low-contact offer boards
- 4. Increase MPAs (from 3% to 5% fishable area)



@icatmar1 https://icatmar.cat



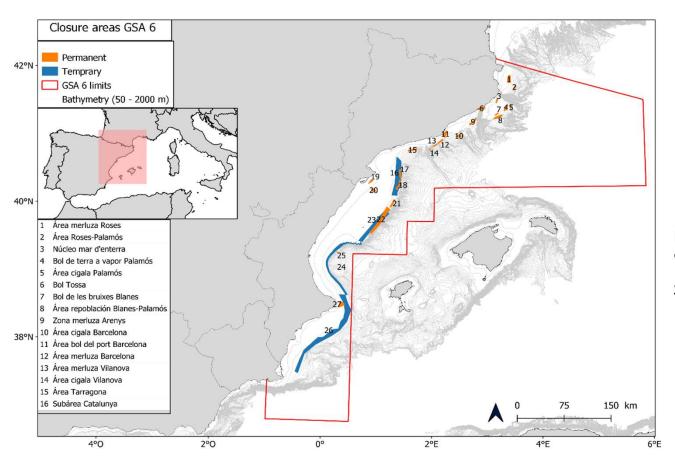








Permanent vs temporal closure areas: GSA 6



Beyond the state legislations, there are regional administrations.

Should we keep ignoring reality?

