MARE 2014/27 GSA07 – demersals



Main demersal stocks: HKE (Merluccius merluccius); MUT (Mullus barbatus)

Main fleets: OTB (Bottom otter trawl) (France and Spain); GNS (Gillnet) (France); LLS (longline) (Spain)

Data source: STECF SGMED EWG 14-12; EWG 15-11; DCF 2015

State of exploitation (ratio Fcurr/Fmsy)



GS06 - demersal

Fishing effort (Nb trips by fleet)



Historical series of landings



Historical series of SSB



Fishing mortality



Simulation scenarios

Case Study	demersals in GSA 7
Scenario 1	Status quo to 2020
Scenario 2	Linear reduction towards upper Fmsy of the most heavily exploited species in 2018 applied on both activity and capacity. Application to capacity can be differentiated by fleet.
Scenario 3	Linear reduction towards a weighted average Fmsy for a mix of species (using <u>value</u> of landings as weighting factor) in 2018 applied on both activity and capacity. Application to capacity can be differentiated by fleet.
Scenario 4	Adaptive reduction towards upper Fmsy of the most heavily exploited species in 2020 applied on both activity and capacity. Application to capacity can be differentiated by fleet.
Scenario 5	Adaptive reduction towards a weighted average Fmsy for a mix of species (using <u>value</u> of landings for weighting) in 2020 applied on both activity and capacity. Application to capacity can be differentiated by fleet
Scenario 6	Improving selectivity accounting for the survivability issue (in case of gear selectivity).

Forecast Landings



Forecast SSB



Forecast Income

GSA07 demersal



Forecast Labour costs (salaries)

GSA07 demersal



Summary of results (2021)

	Labour		Employ				
Scenarios 2021	costs	Revenues	ment	HKE.catch	MUT.catch	HKE.SSB	MUT.SSB
Scenario 1	13	2474	1293	2020	452	994	1427
Scenario 2	17	3233	123	3140	105	12564	2724
Scenario 3	19	3107	163	3299	303	10320	2256
Scenario 4	11	2053	123	1954	95	7160	2493
Scenario 5	11	2523	163	2256	291	6409	2054
Scenario 6	17	3202	1293	2722	470	2319	1841

- Under status quo conditions, SSB of HKE would be kept at historically low levels, with a high probability of stock falling below the reference value;

- In addition, under status quo conditions, overall income would remain at a low level and net profits would continue to be negative.

Summary of results (2021)

- Considering the traffic lights table, reducing the present high fishing mortality rates by 2018 (Scenarios 2 and 3) would allow increasing catches and revenues, wages, as well as SSB, at the price of a significant loss of employment and fishing units;

- Delaying the reduction of fishing mortality to 2020 would result in worse values of these indicators than at present (Scenarios 4 and 5), except for SSB that would be kept at a high level;

- Scenario 6 allows to obtain moderate increases in all indicators, allowing to keep employment and vessels, at the price of not complying with F_{msv} targets.