Working towards sustainable fishing in the Adriatic: nurseries and spawning grounds of Solea solea



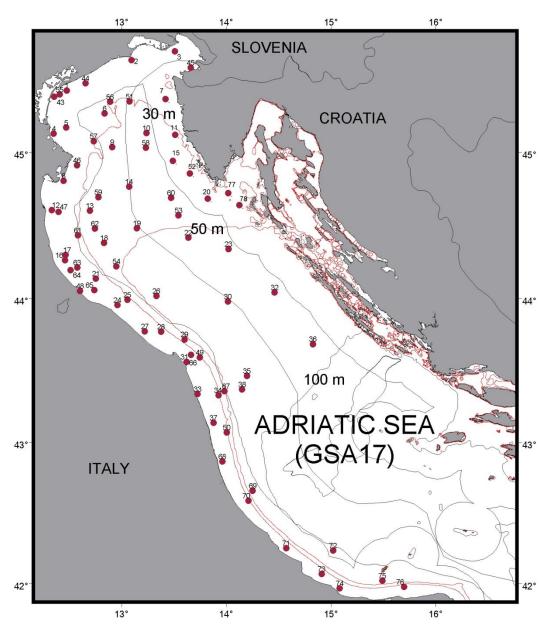
Fabio Grati* & Giuseppe Scarcella

National Research Council

Institute for Biological Resources and Marine Biotechnologies

Ancona (Italy)

SOLEMON Survey

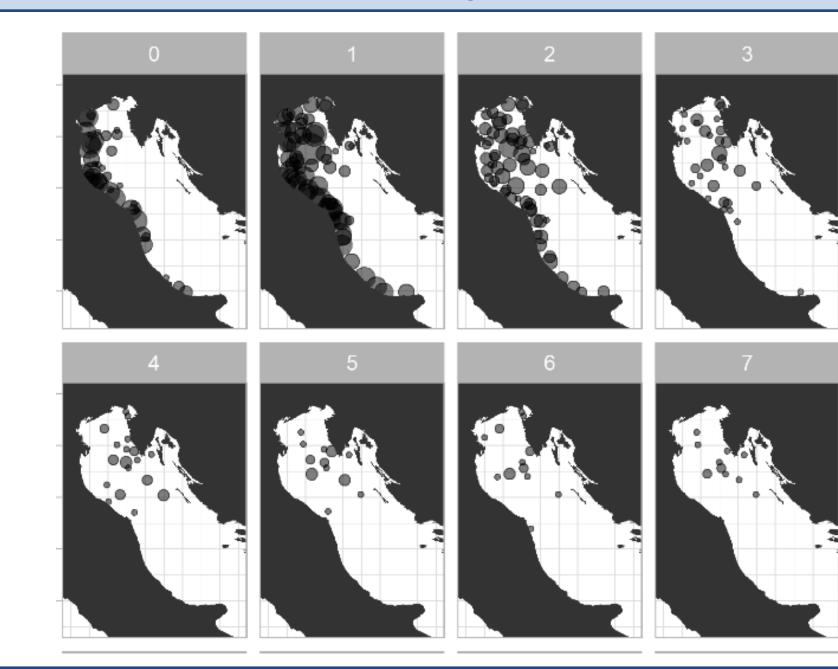




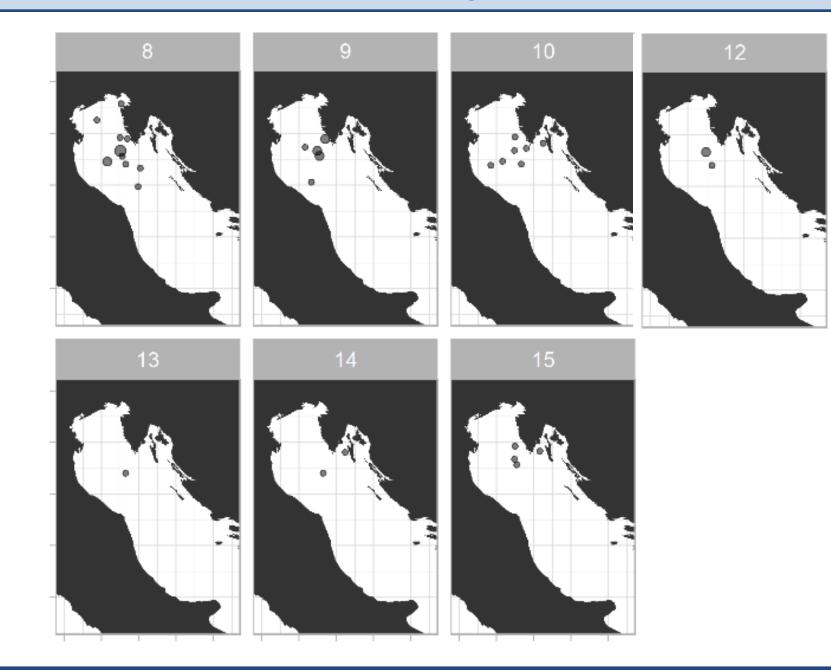
CNR-IRBIM, Italy ISPRA, Italy IOF, Croatia FRIS, Slovenia

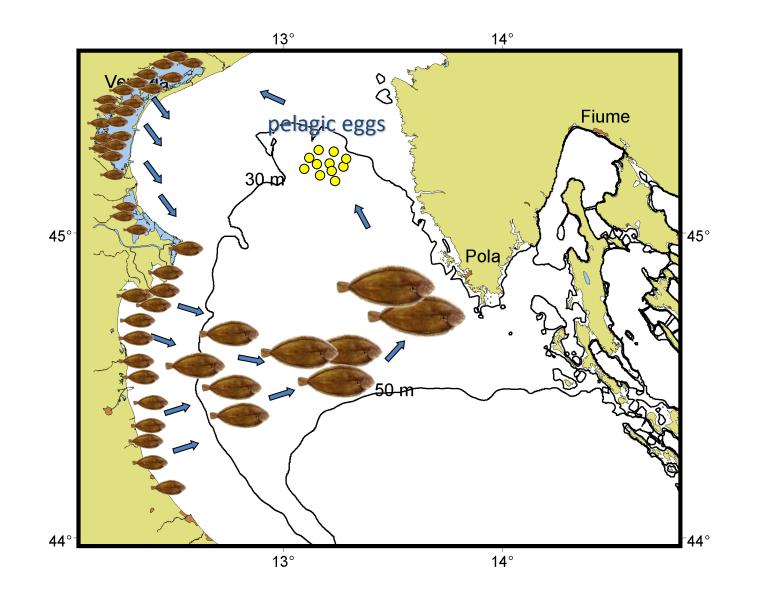


SOLEMON Survey (2014-2018 otolith reading)

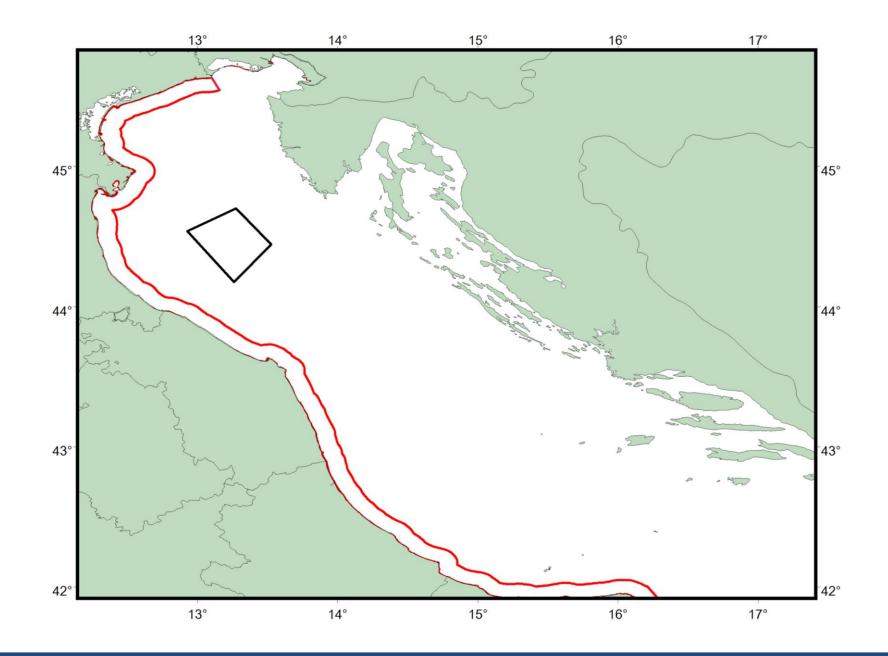


SOLEMON Survey (2014-2018 otolith reading)

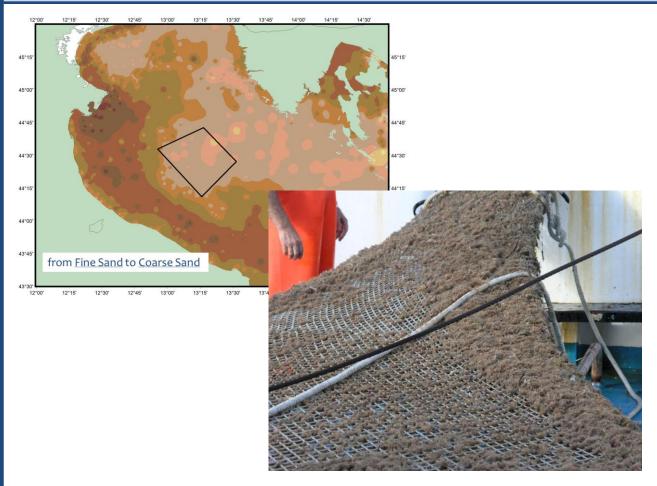




6 mn and Sole Sanctuary



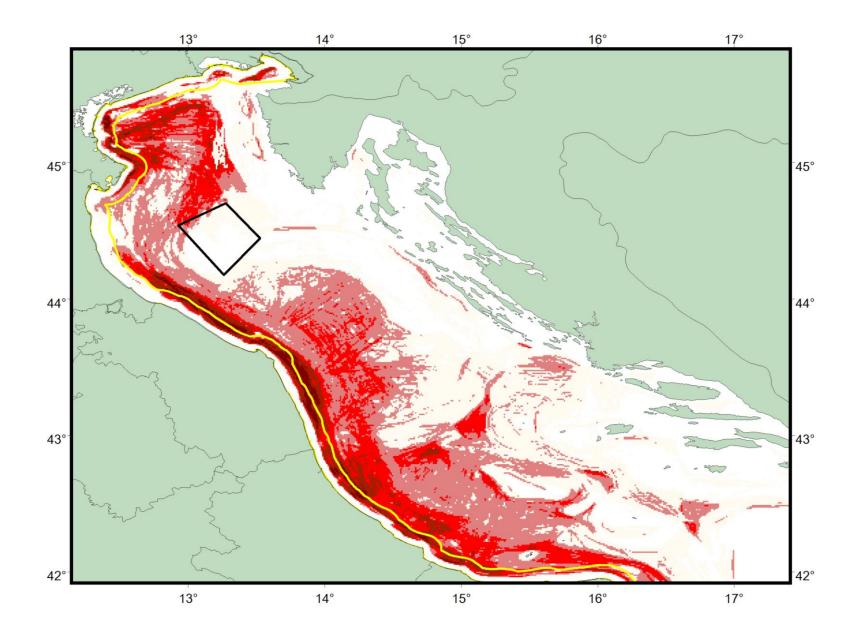
Sole Sanctuary



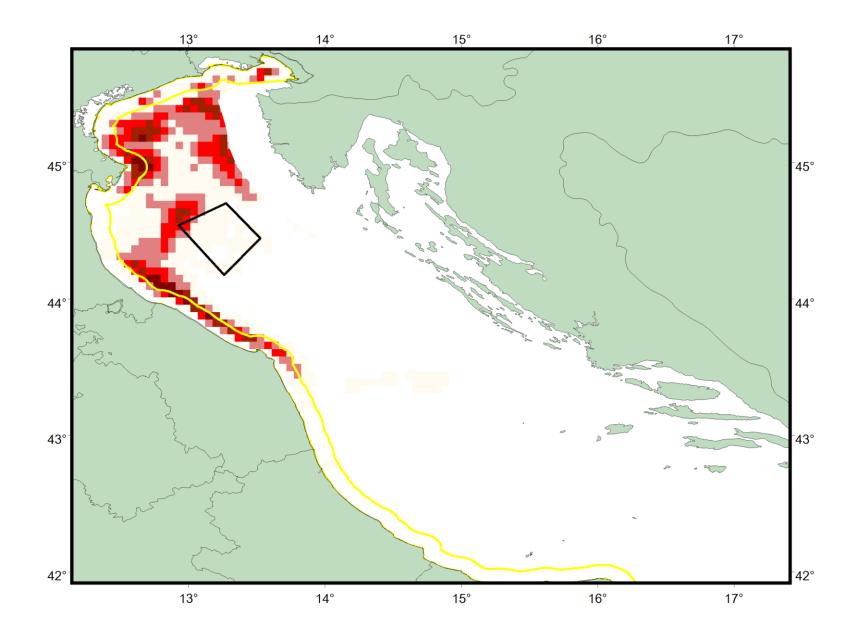
Peculiar megazoobenthic assemblage which strongly reduces the efficiency of towed gears (A. *semiconvoluta*) and damages the catch (evisceration of holoturians)



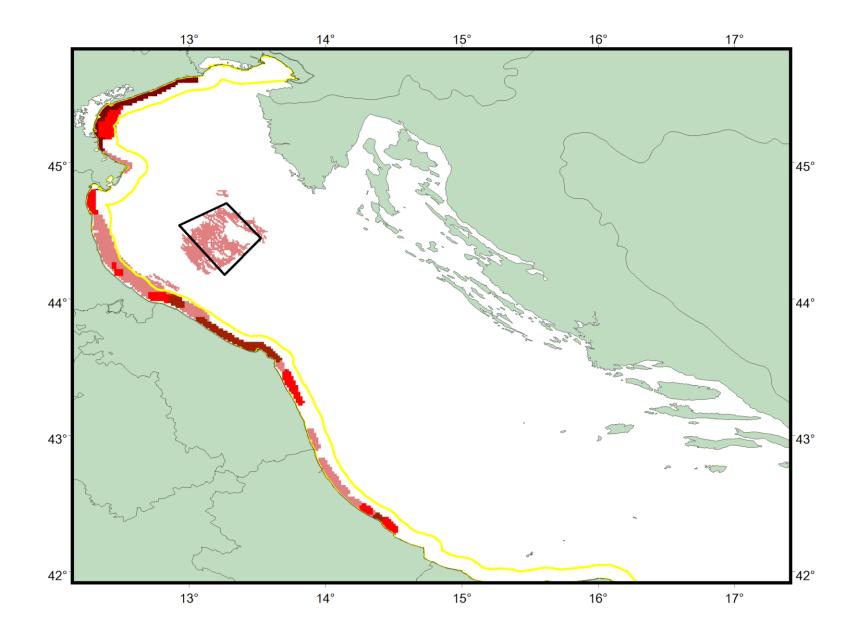
Fishing activities – Otter trawling



Fishing activities – Rapido trawling



Fishing activities – Set nets



Bio-economic model - DISPLACE



A spatial model of fisheries to help maritime spatial planning





JRC SCIENCE FOR POLICY REPORT

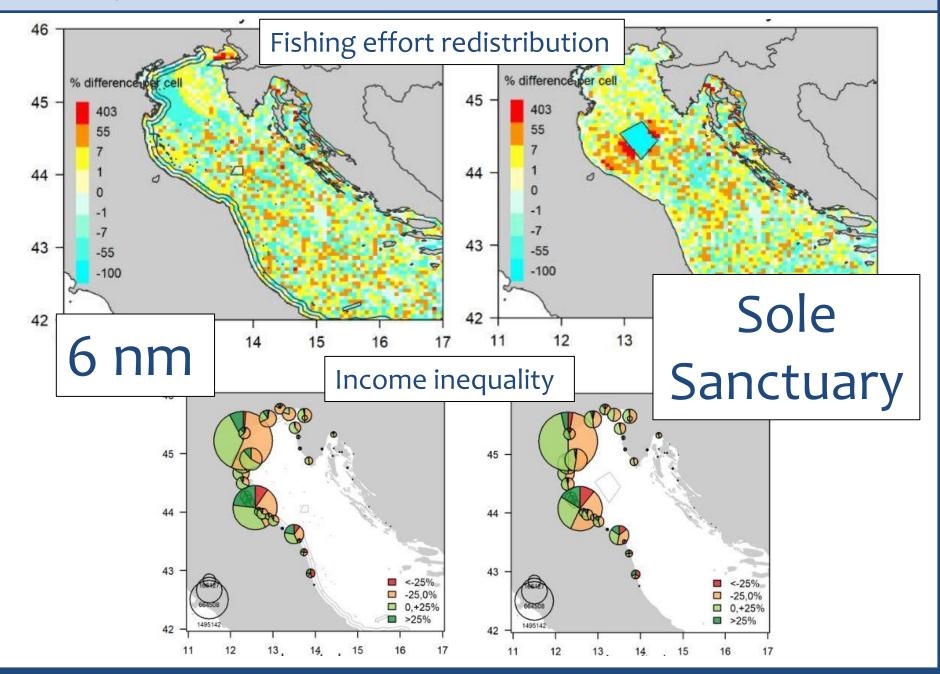
Scientific, Technical and Economic Committee for Fisheries (STECF)

Multiannual Plan for the fisheries exploiting demersal stocks in the Adriatic Sea (STECF-19-02)

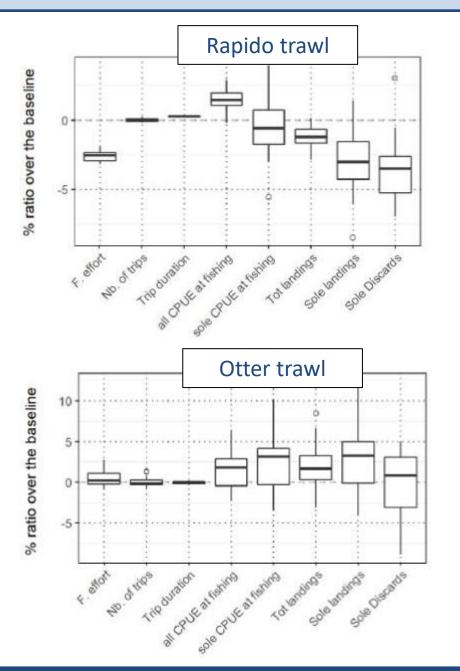
Tested scenarios:

- ➢ 6 nm − ban for rapido and otter trawl all year
- Sole Sanctuary ban for rapido and otter trawl all year, and set nets from December to February

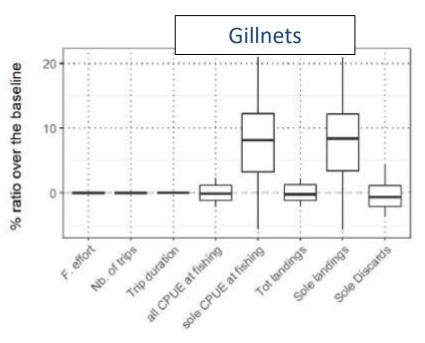
DORY Project simulations



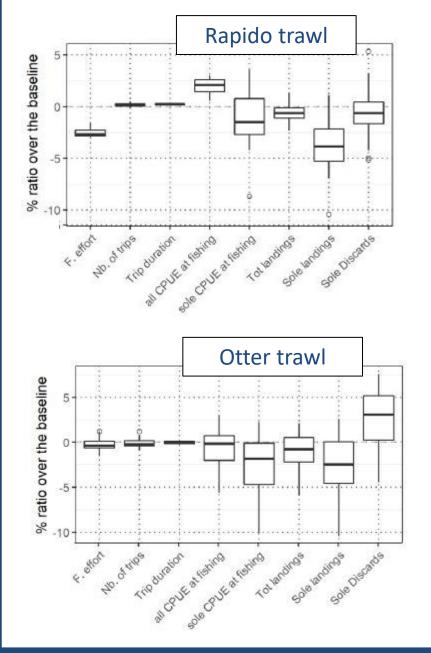
STECF EWG 19-02 simulations



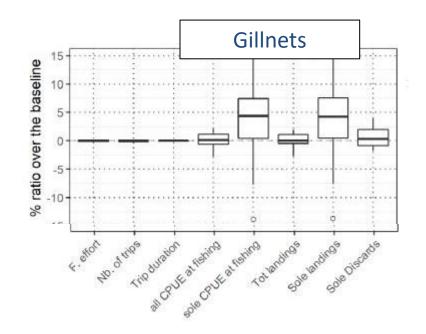
Results refer to a cumulative effect of the <u>6 nm</u> ban over a period of 6 years



STECF EWG 19-02 simulations



Results refer to a cumulative effect of the <u>Sole Sanctuary</u> ban over a period of 6 years



- 6-nm closure: results show an increase of sole landings in the medium-term for set netters;
- Sole Sanctuary closure: results show little effect on the fishery sectors, because this area is currently exploited only by a few set netters (i.e., the closure scenario is very similar to the baseline); The protection of the Sanctuary could be considered as a precautionary measure in order to a) protect spawners in case innovation on gear technology would allow the exploitation of these «untrawlable» grounds; b) prevent the potential exploitation of holothurians (e.g., Asian markets)

Thanks for your attention

Any questions?