

Is a discard ban good for the ecosystem?

WP1 – Marie Savina-Rolland

Discarding and fishing mortality



Discarding => solve the by-catch issue

Death due to:

- fishing process
- time on deck
- predation
- incapacity to reach a suitable habitat once released

=> Increase the fishing mortality



Discarding and fishing mortality

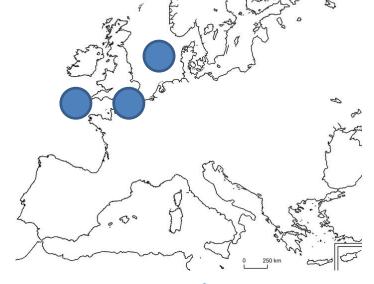








	Plaice	Dab	Whiting
North Sea	42%	93%	35%
Eastern Channel	32%	53%	47%
Celtic Sea	73%		43%









Effects of the LO on stocks

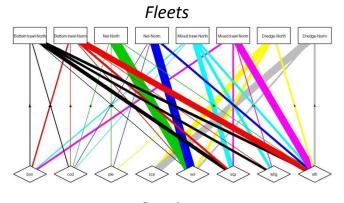
Sole, Plaice, Red Mullet, Scallops, Squid, Cuttlefish, Cod and Whiting



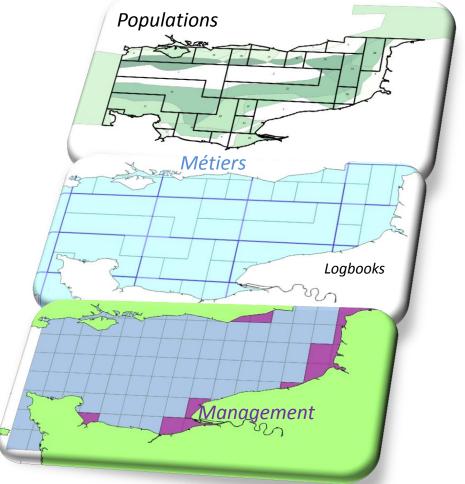
French trawlers, dredgers, netters, and others



Technical interactions between species

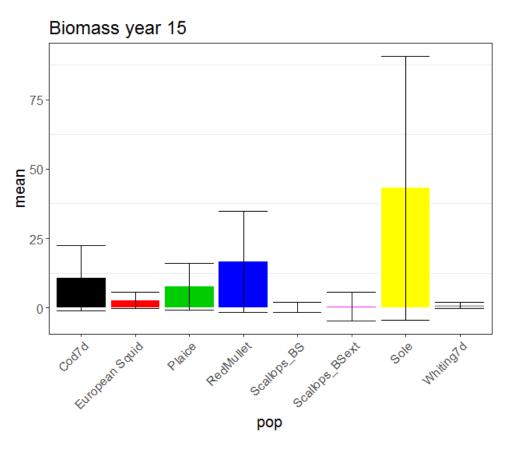


Species



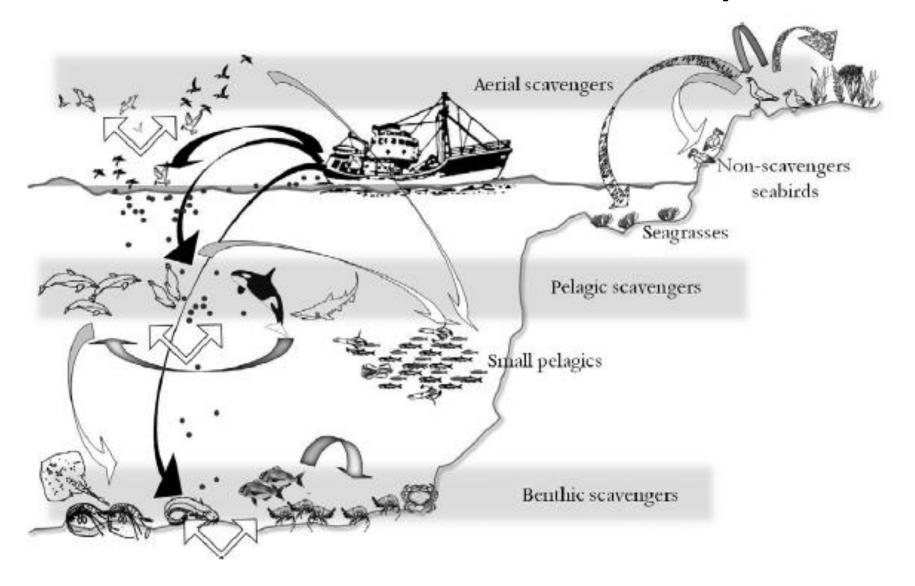
Effects of the LO on stocks





- Due to the decrease in catch
- A decrease in the catch in excess of MSY level is beneficial for stocks, whatever happens to it

Fate of discards in the ecosystem



Aerial scavengers





Fishing patterns => scavenging seabirds => seabirds communities

Reduced discards => altered seabirds communities, with direct effects on scavengers population and indirect through increased competition for live prey, and predation on other seabirds

Benthic scavengers







Benthic scavengers such as starfish, whelks, crabs, amphipods are known to consume discards



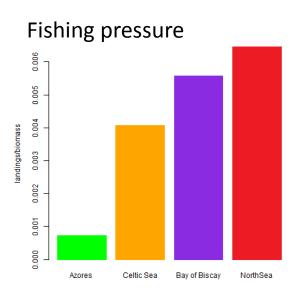
Contribution of discards to their requirements remain unclear

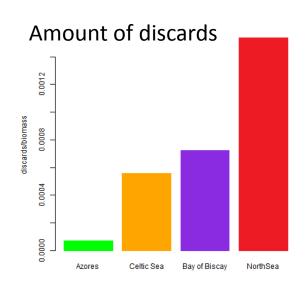


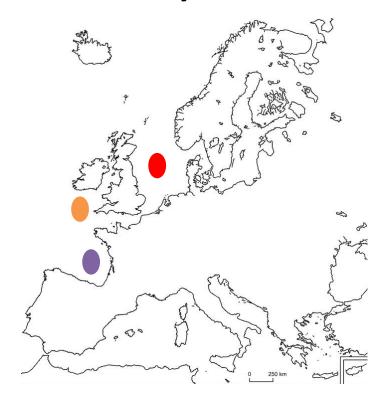
Possibility of population enhancement at a local level are mentioned

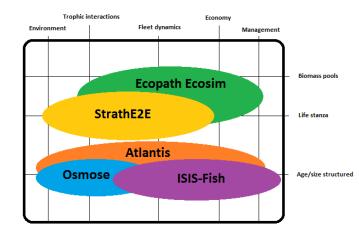
Recent work on comparing benthic scavengers and discards distribution in the North Sea show no links

Effect of the LO on various ecosytems









Landing Obligation vs Discards As Usual

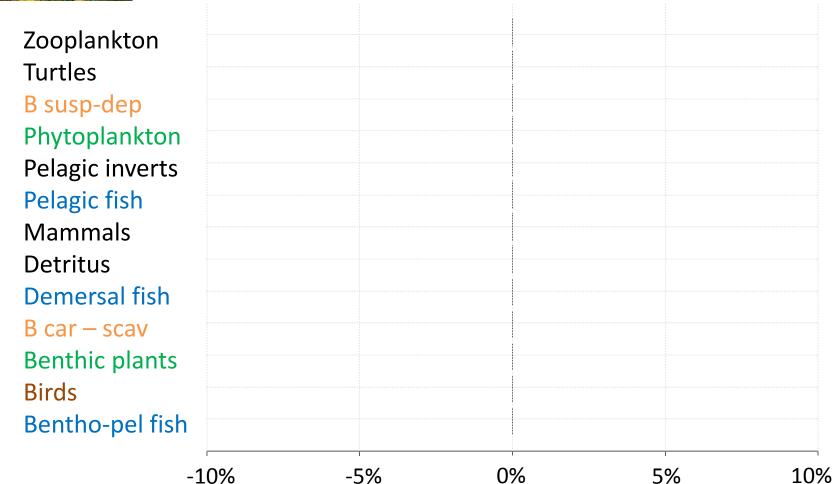


EWE

F same - Q Discards = 0

The Azores

Changes in biomass

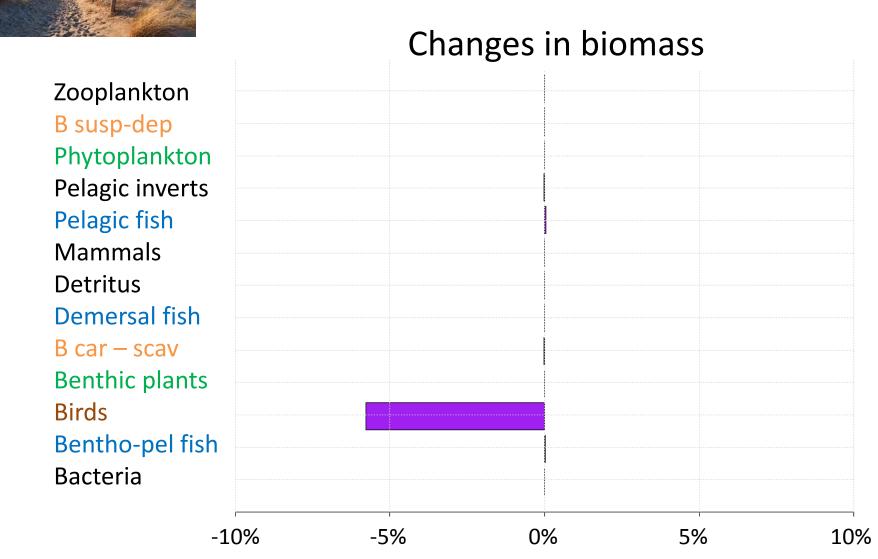


Landing Obligation vs Discards As Usual

The Bay of Biscay

EWE

F same - Q Discards = 0



Landing Obligation vs Discards As Usual



The North Sea

F same - Q Discards = 0

