



# Assessing the state of marine (benthic) biodiversity in the Northeast Atlantic

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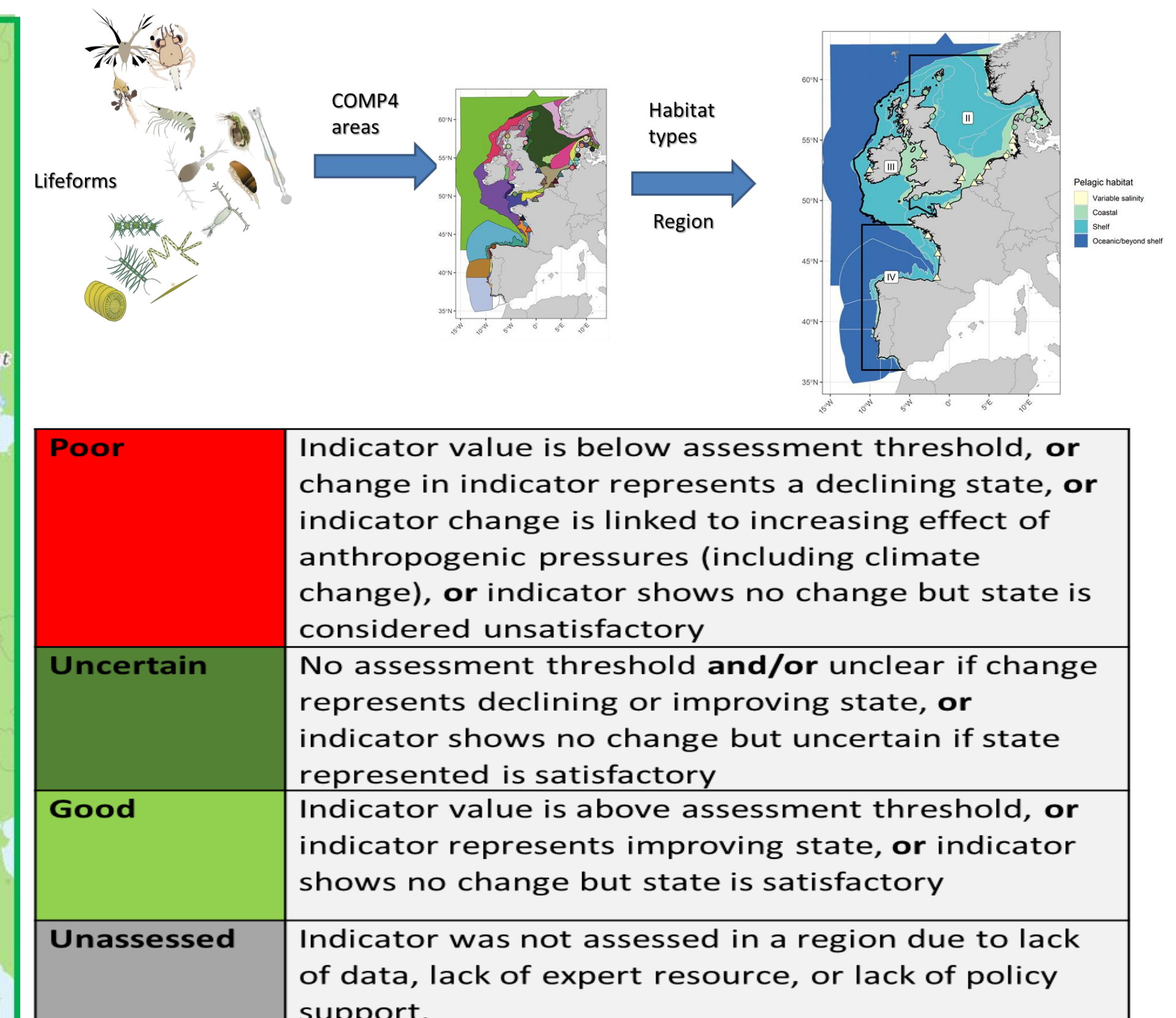
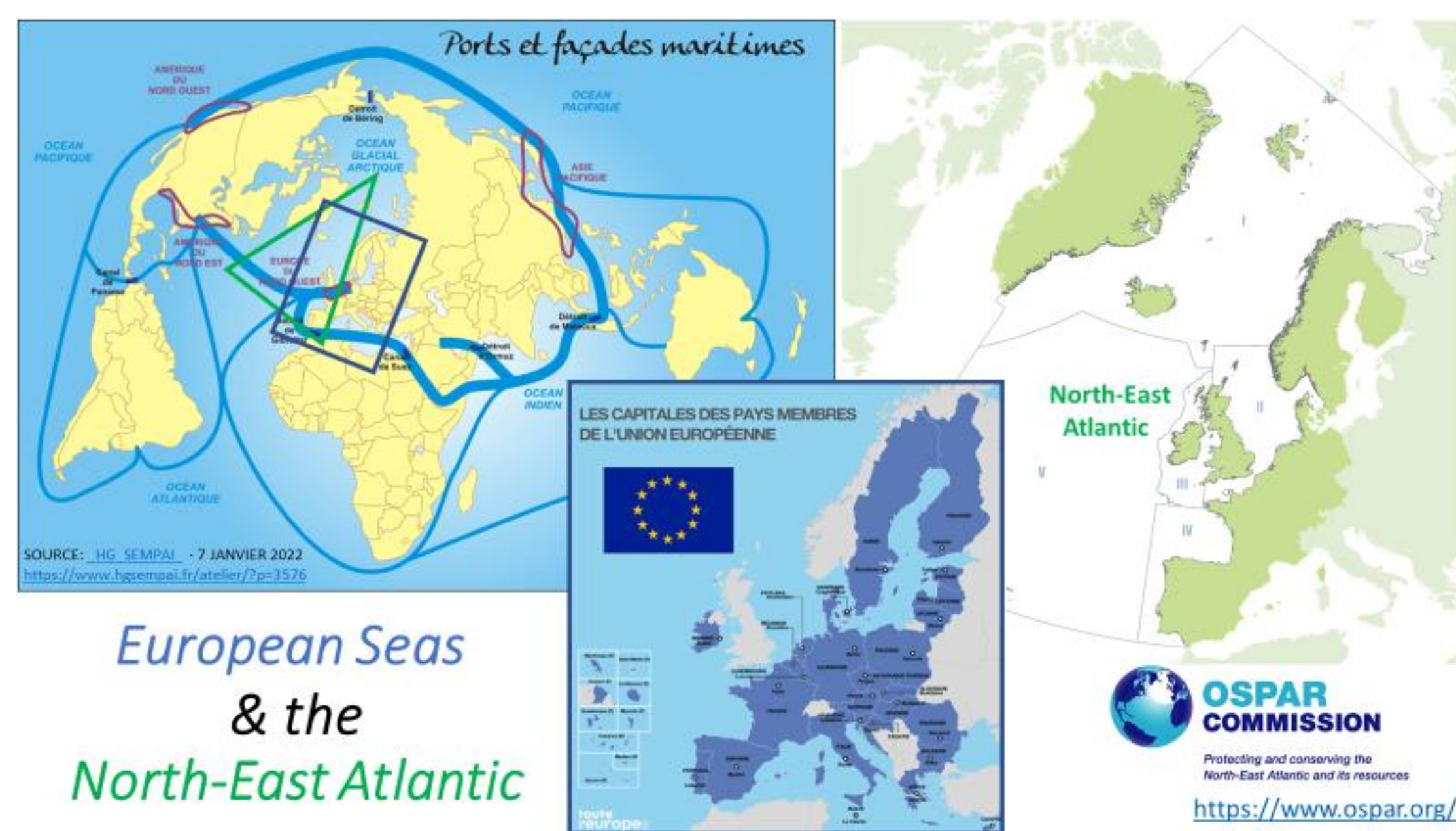
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See some other related aspects in the ITRS 2023 talk on Monday 09 January (11:15) by Guérin, Lizińska and Schmitt, Long term series & broad spatial scales session

## Assessment scales and methods

- Semi-quantitative method
- Thresholds used where available (i.e. some birds, some fish)
- Expert opinion/weight of evidence used in absence of thresholds



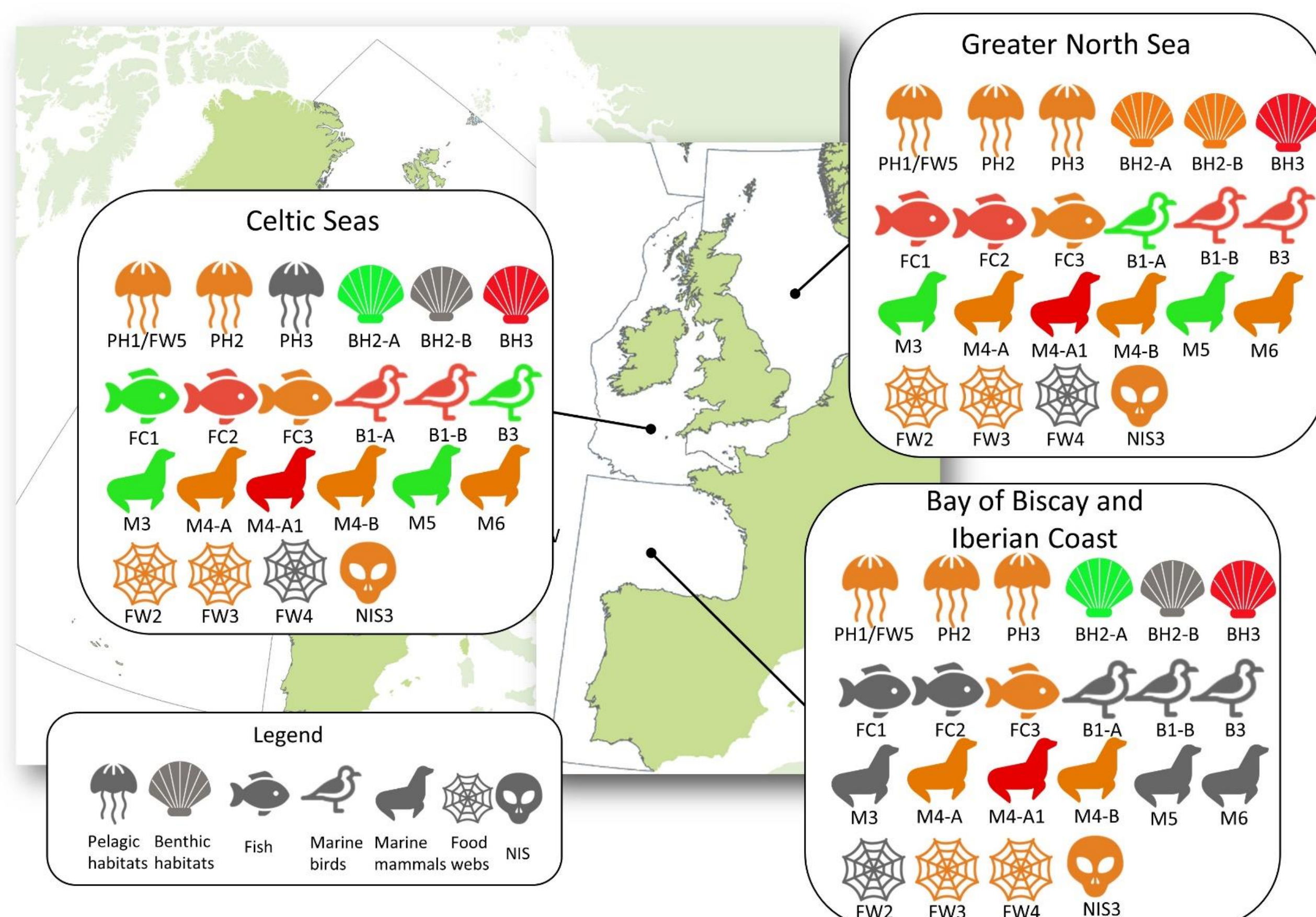
## Main results

The status of Northeast Atlantic marine biodiversity indicators varies between indicators, ecosystem components, and OSPAR regions. Indicator short codes are given – full indicator names and documents are detailed in McQuatters-Gollop et al (2022). Icons in red represent poor status, orange represent uncertain status, and green represent good status. Some indicators were not assessed in some regions (grey) due to lack of data, lack of expert resource, or lack of policy support. The Greater North Sea region had the most assessed indicators, and the Bay of Biscay and Iberian Coast the fewest. The Celtic Seas region had the most indicators categorised as in good status, but most of the assessed biodiversity indicators are uncertain or poor for any of the OSPAR regions.

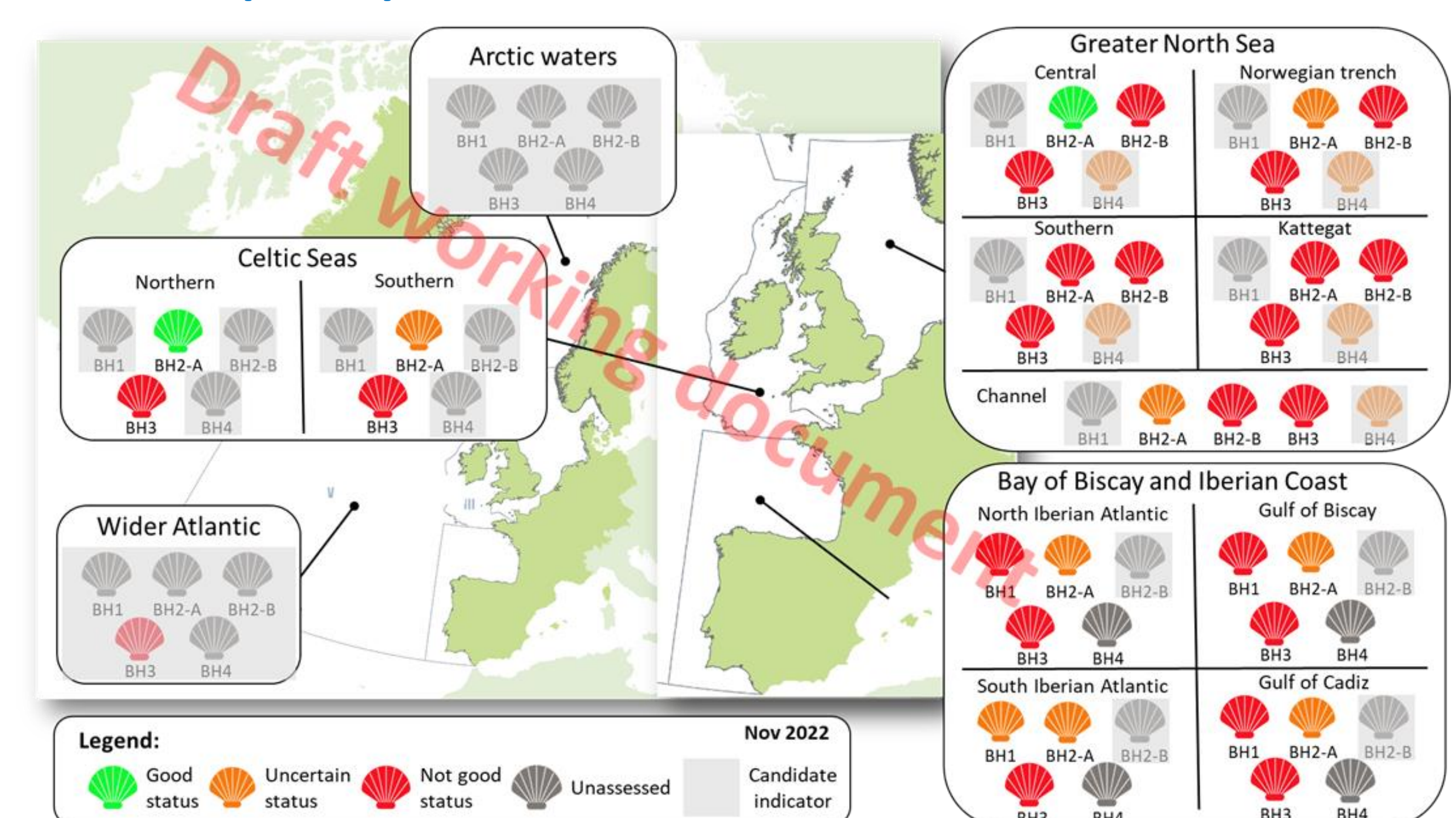
PH = Pelagic Habitats; BH = Benthic Habitats; FC = Fish & Cephalopods; B = Seabirds; M = Marine Mammals; FW = Food Webs; NIS = Non Indigenous Species

## OSPAR 2017 assessment

<https://oap.ospar.org/en/>



## 2023 (draft) assessment - benthic habitats

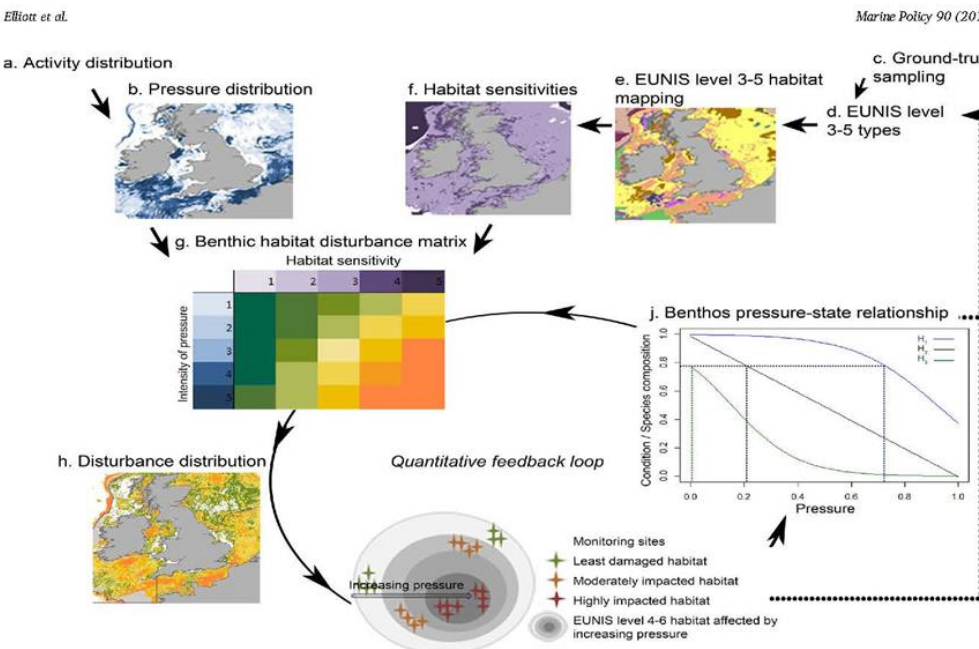


## Science perspectives

### Towards more integrated quantitative assessments

Overarching conceptual approach for an integrated assessment of benthic habitat indicators at a sub-regional scale, to highlight the feedback of information gathered across indicator assessment and to provide increased confidence in benthic indicator assessment. (Elliott et al, 2018)

<https://doi.org/10.1016/j.marpol.2018.01.003>



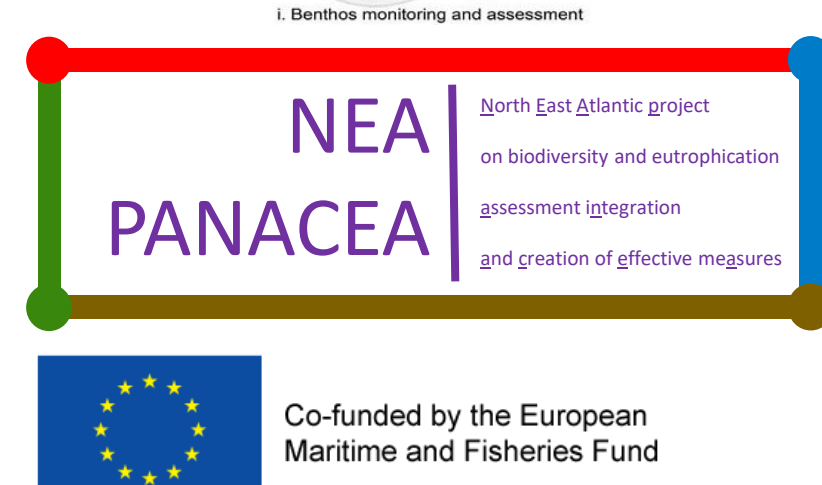
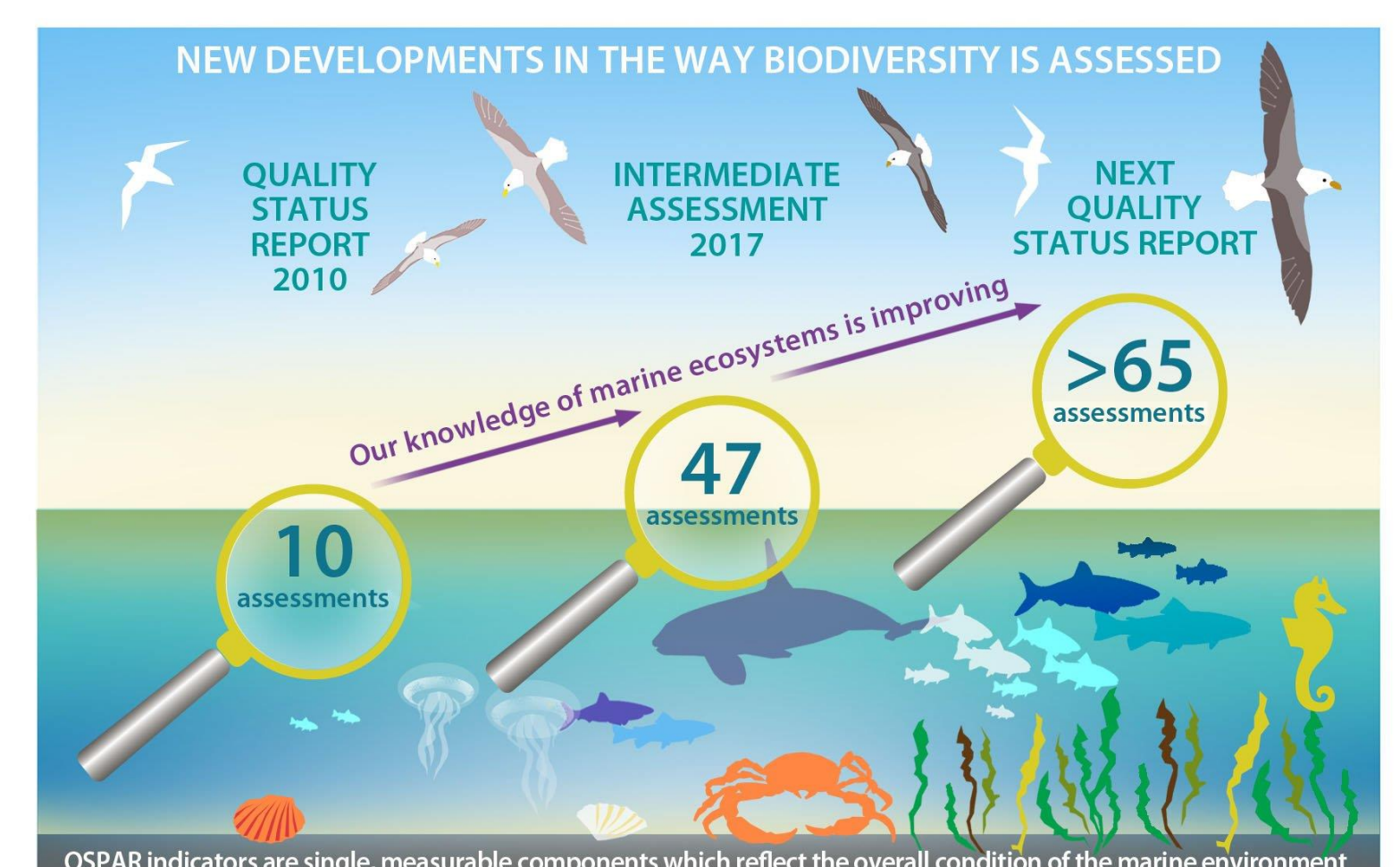
## Policy perspectives

### OSPAR Quality Status Report 2023

More data + more indicators = better evidence

Huge advances in knowledge since IA2017

Actually classing indicators as in GES or not is a big and still challenging science-policy step!



Coming soon (2023): future publications of these collective works & processes

• OSPAR 2023 Quality Status Report (including Benthic Habitat assessment)

<https://oap.ospar.org/en/>

• Science Journal articles: Guérin et al, in prep

(North-East Atlantic's benthic and biodiversity assessments & Science-policy processes)



<https://crisisrelief.un.org/t/ukraine>