

Interactive infographics in support of conservation and sustainable use of living resources in the sea

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MBON
Marine Biodiversity Observation Network

IOOS
Integrated Ocean Observing System

GEO BON

National Marine Sanctuaries

OBIS
Ocean Biodiversity Information System

IEA
Integrated Ecosystem Assessment

NASA

Marine Life 2030

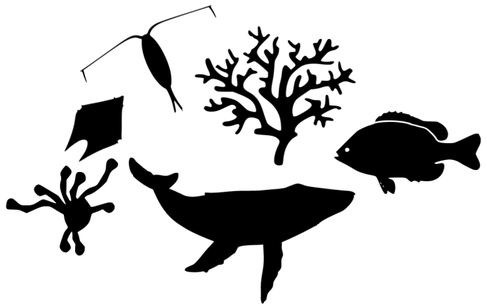
EcoQuants
quantitative analyses for the environment

Data-driven storytelling for broad communication with stakeholders

MBON
Marine Biodiversity Observation Network

GEO BON

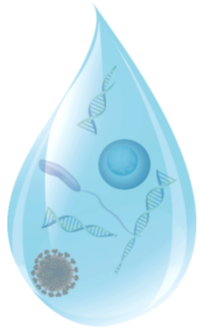
Diverse and complex biodiversity data streams



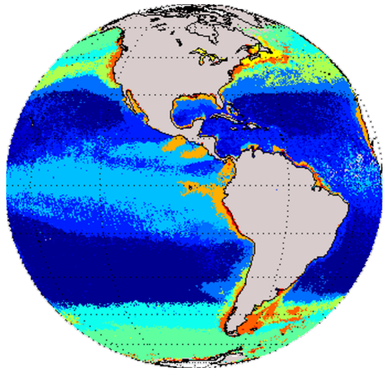
Visual surveys



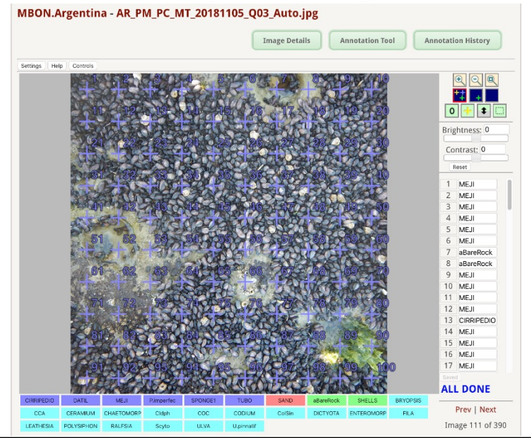
eDNA



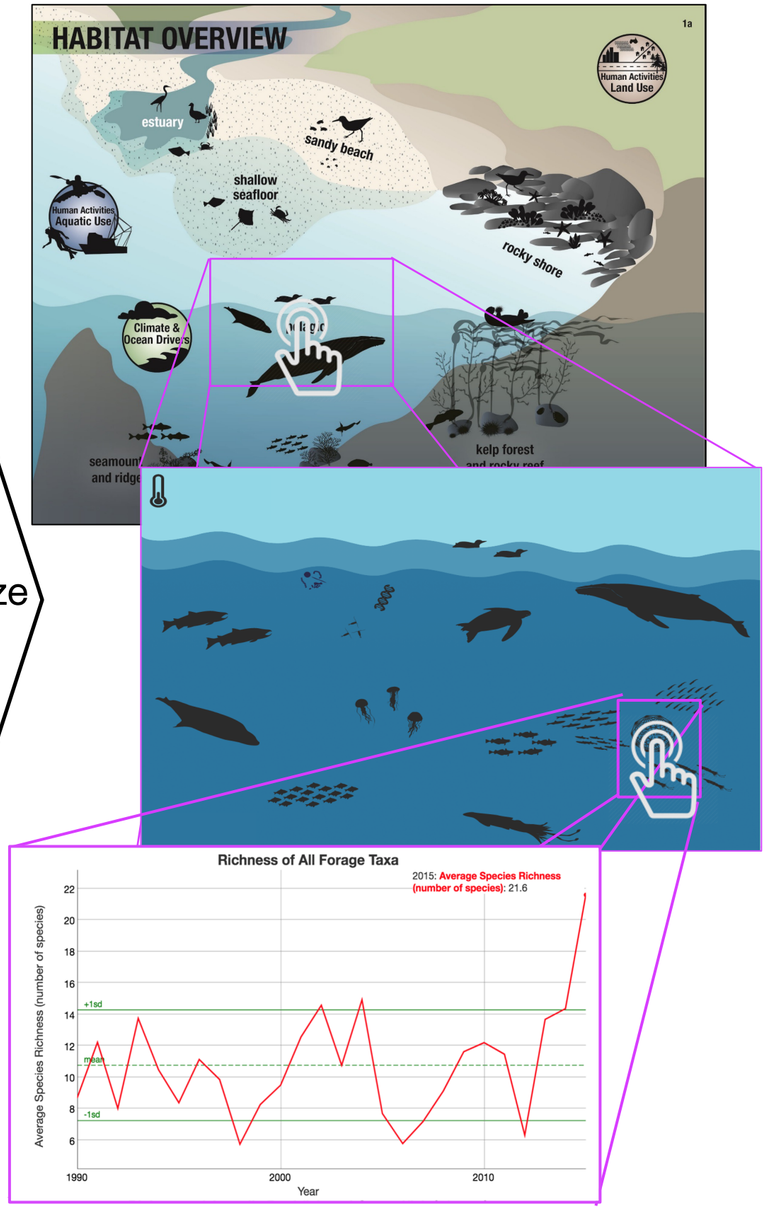
Satellite seascapes



Deep learning



Synthesize



Support





Ocean literacy



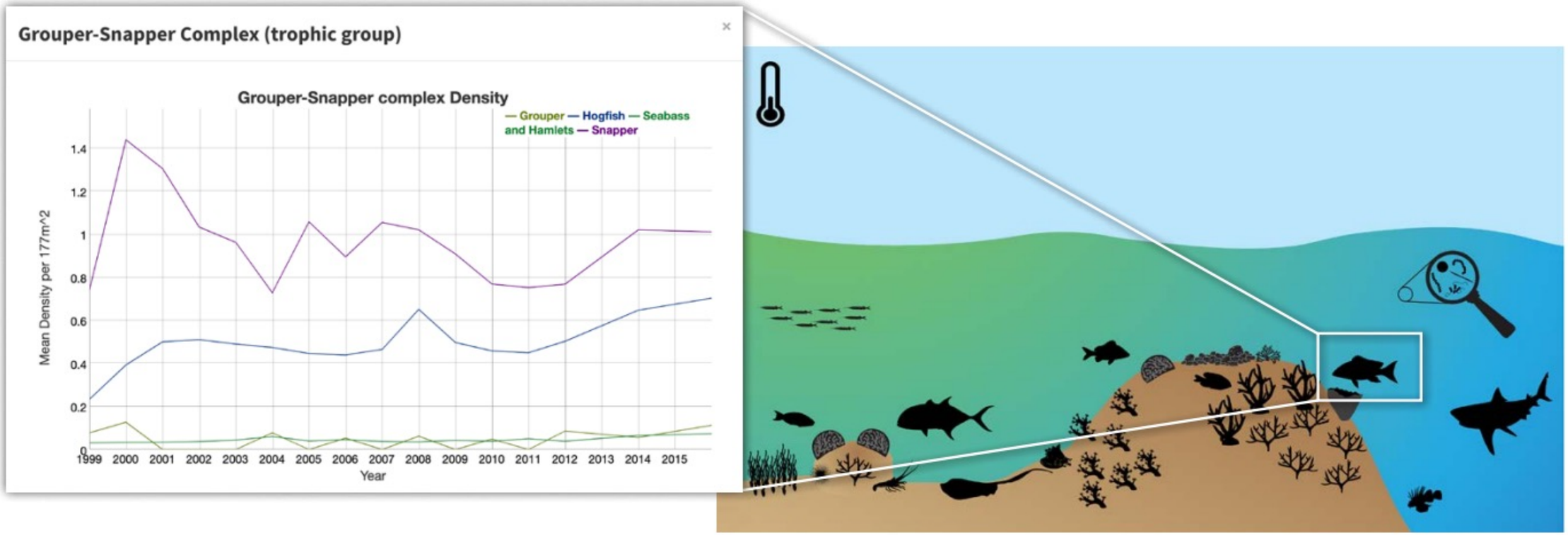




Data Management and Interactive Visualizations

MBON
Marine Biodiversity Observation Network

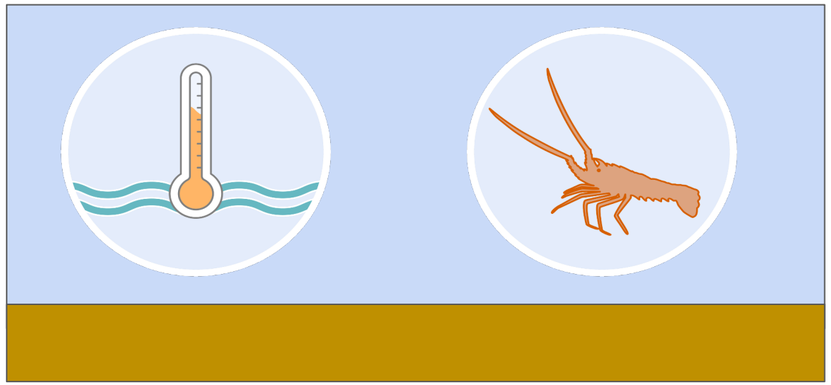




Benson, A. et al. 2021. Data management and interactive visualizations for the evolving Marine Biodiversity Observation Network (MBON). Oceanography 34(2), https://doi.org/10.5670/oceanog.2021.220.

Everything Needed to Build Infographics

Art: background + icons *(*.svg)*



infographiqJS

Table: link icons to modals *(*.csv)*

icon	modal
temperature	temperature.html
lobster	lobster.html

Content:

Data
e.g. time series

Year	Count
2020	25
2019	31

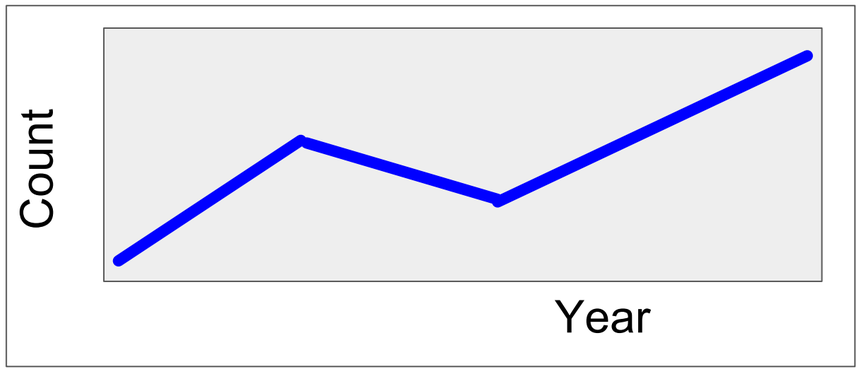
OR

Image
e.g. map



infographiqR,
plotJS-extra
...

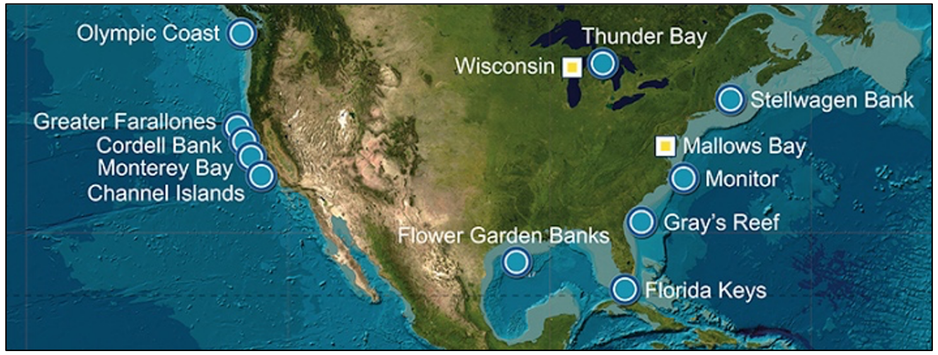
Modal: web page of figure(s)



https://marinebon.org/infographiq/

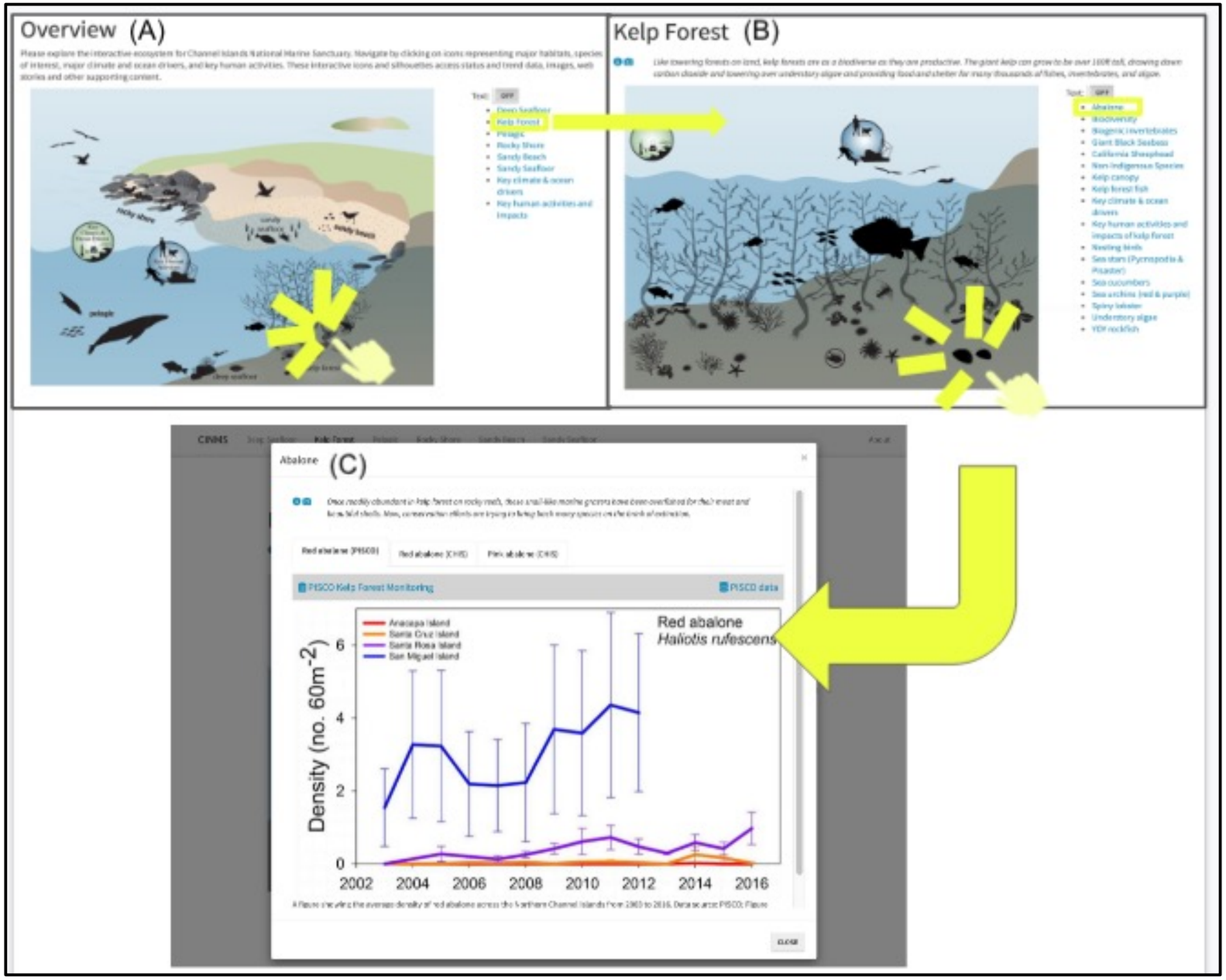
Infographic examples from the U.S. National Marine Sanctuaries

NATIONAL MARINE SANCTUARIES



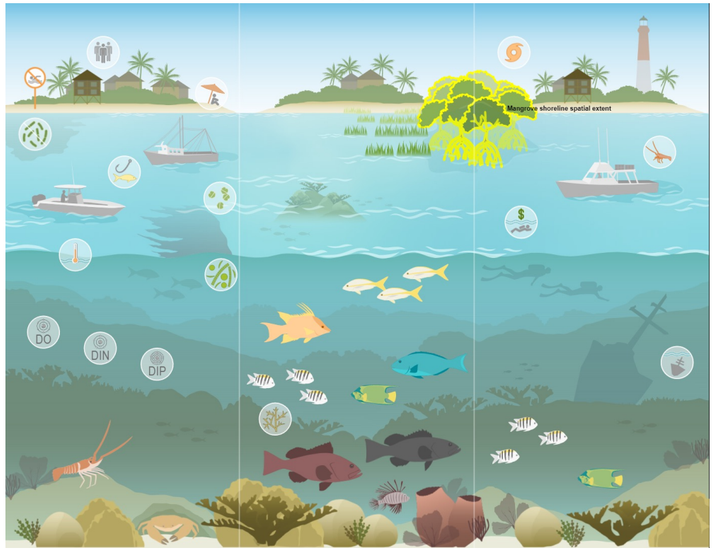
MBON
Marine Biodiversity Observation Network

INTEGRATED ECOSYSTEM ASSESSMENT

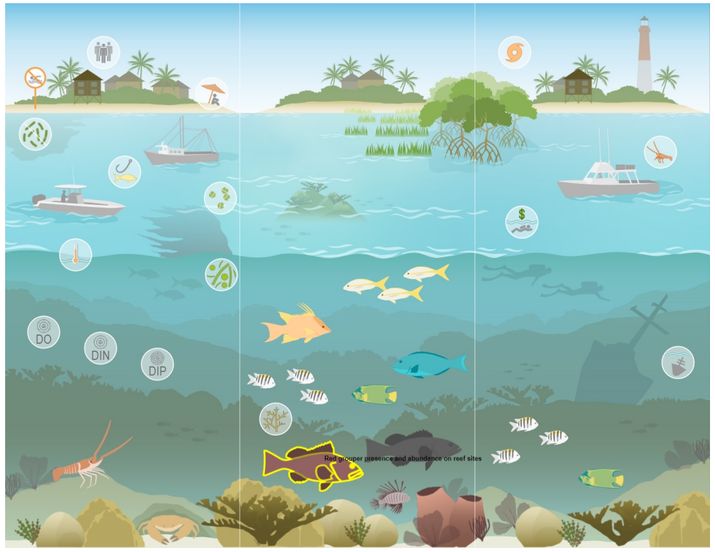


Infographic examples from the Integrated Ecosystem Assessment - Florida Keys National Marine Sanctuary

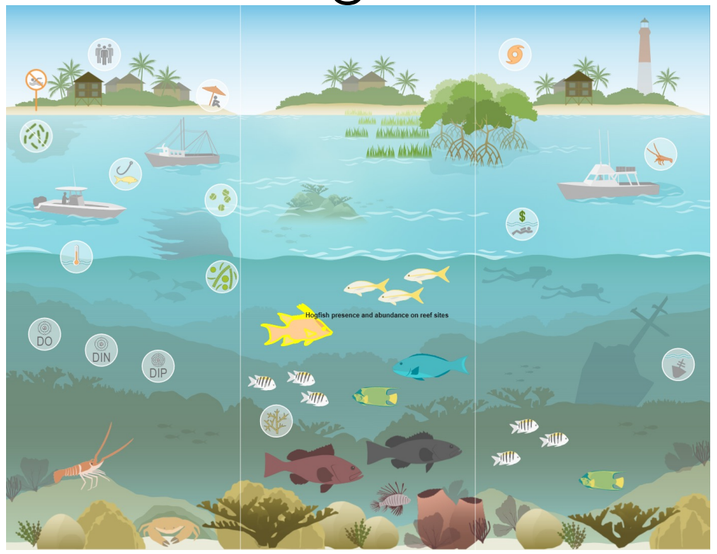
Mangrove



Red grouper



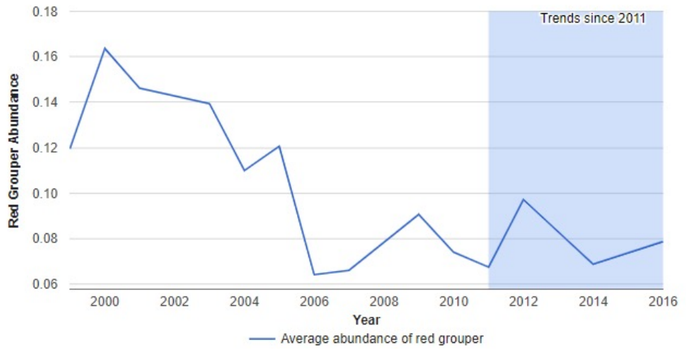
Hogfish



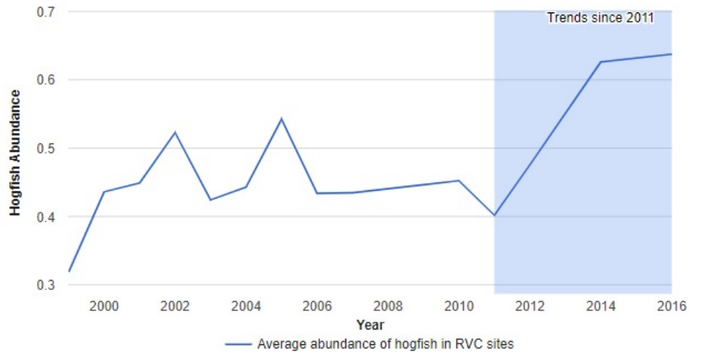
Mangrove shoreline spatial extent



Red grouper presence and abundance on reef sites



Hogfish presence and abundance on reef sites



https://noaa-iea.github.io/fk-esr-info/infographic.html

Data Management and Interactive Visualizations

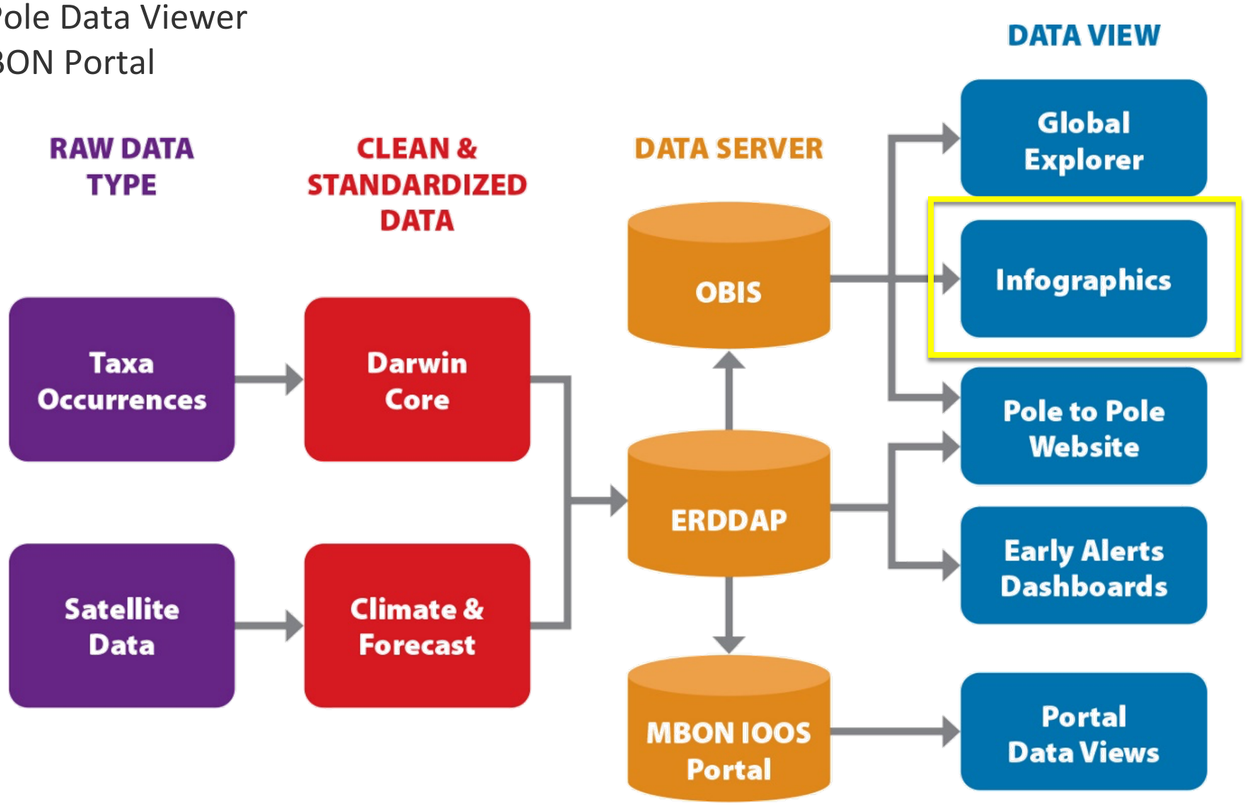
Output:

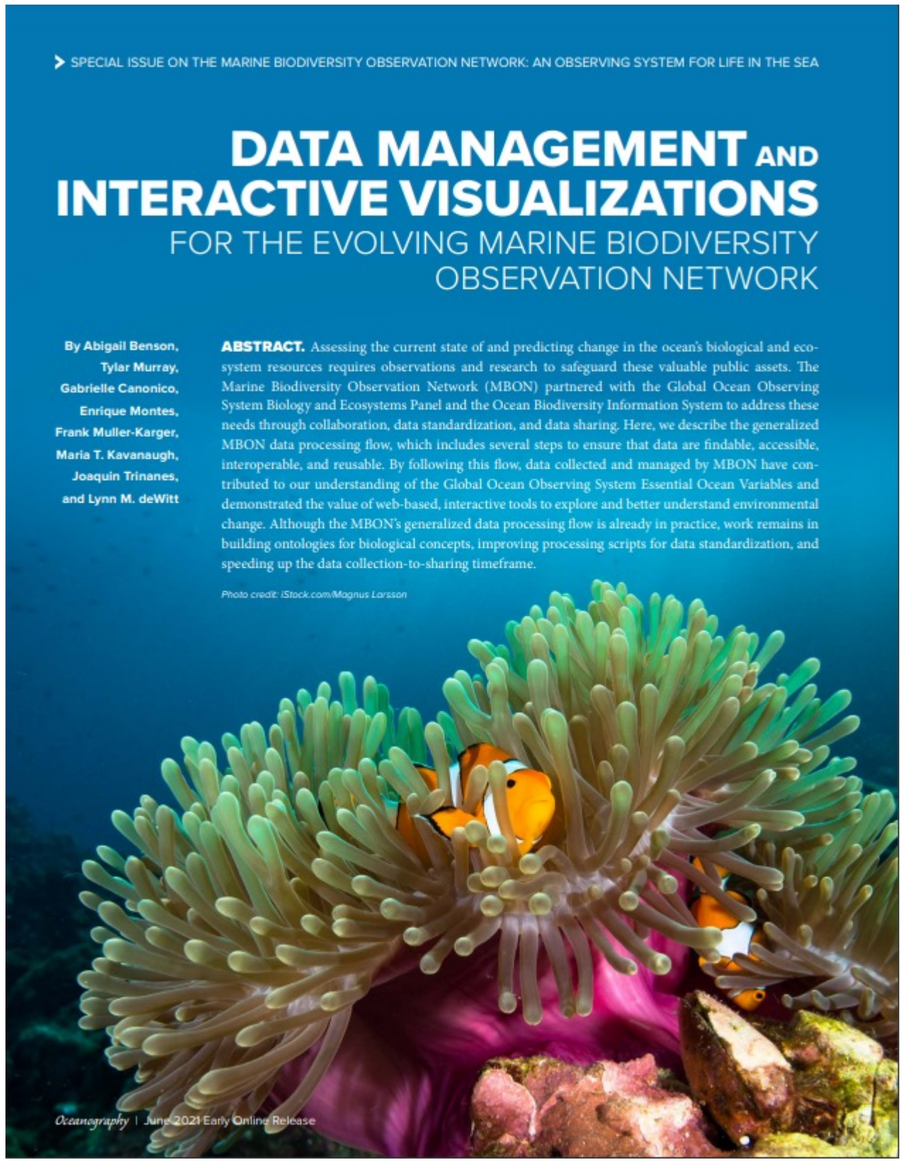
MBON and OBIS/GBIF collaboration

Mapping data flow: collection to publication

Examples:

- Rockfish (California/Pacific)
- Reef fish (Florida keys/Atlantic)
- Satellite data (early alert dashboards)
- Pole to Pole Data Viewer
- IOOS MBON Portal





Benson et al., 2021
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Thank You!

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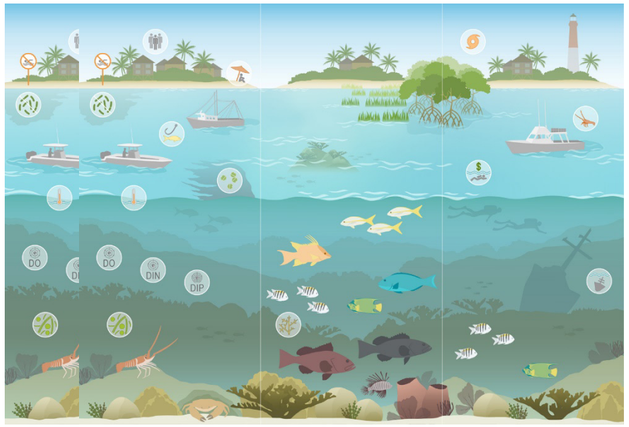
#MBON
http://marinebon.org/

Links

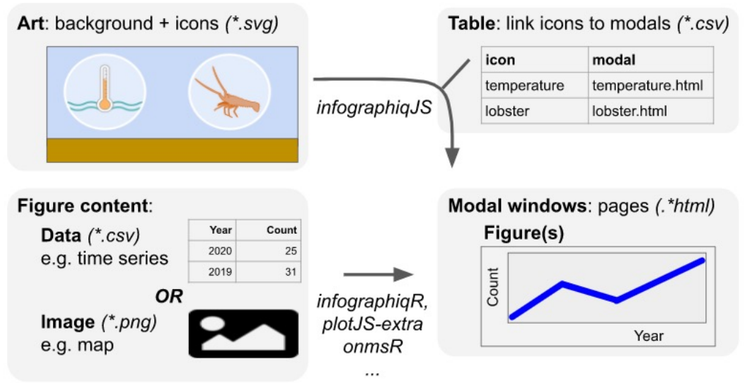
Benson, A. et al. 2021: https://doi.org/10.5670/oceanog.2021.220.



https://www.integratedecosystemassessment.noaa.gov/



https://noaa-iea.github.io/fk-esr-info/home.html



https://marinebon.org/infographiq/