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

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Data-driven storytelling for broad communication with stakeholders

Diverse and complex biodiversity data streams

Visual surveys

eDNA

Satellite seascapes

Deep learning

Synthesize

Support

Ocean literacy
Data Management and Interactive Visualizations

Everything Needed to Build Infographics

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

![Art Example](image)

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

<table>
<thead>
<tr>
<th>icon</th>
<th>modal</th>
</tr>
</thead>
<tbody>
<tr>
<td>temperature</td>
<td>temperature.html</td>
</tr>
<tr>
<td>lobster</td>
<td>lobster.html</td>
</tr>
</tbody>
</table>

**Modal:** web page of figure(s)

```
infographiqJS
```

**Content:**

- **Data**
  - e.g. time series

```
<table>
<thead>
<tr>
<th>Year</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>25</td>
</tr>
<tr>
<td>2019</td>
<td>31</td>
</tr>
</tbody>
</table>
```

- **Image**
  - e.g. map

```
https://marinebon.org/infographiq/
```
Infographic examples from the U.S. National Marine Sanctuaries

Overview (A)

Please explore the interactive version of Channel Islands National Marine Sanctuary by clicking on icons representing major habitats, species of marine life, historical data on the island, and key human activities. These interactions and animations explore cities and islands, images, text, sound, and other supporting content.

Kelp Forest (B)

Kelp forest food web includes a food chain on this page production. The plant begins with the sun's photosynthesis. Carbon dioxide and water and energy underlies algae, providing food and shelter for many thousands of animals, intertidals, and algae.

Abalone (C)

Abalone habitat is a good example of a food web on this page production. Abalone are food for many thousands of animals, intertidals, and algae.
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

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
Thank You!

Contact us

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#MBON
http://marinebon.org/

Links


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

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

https://marinebon.org/infographiq/