# Sanctuaries infographics partnerships

### Jennifer Brown

jennifer.brown@noaa.gov

## ECOS Consulting

with Channel Islands & Monterey Bay
National Marine Sanctuaries



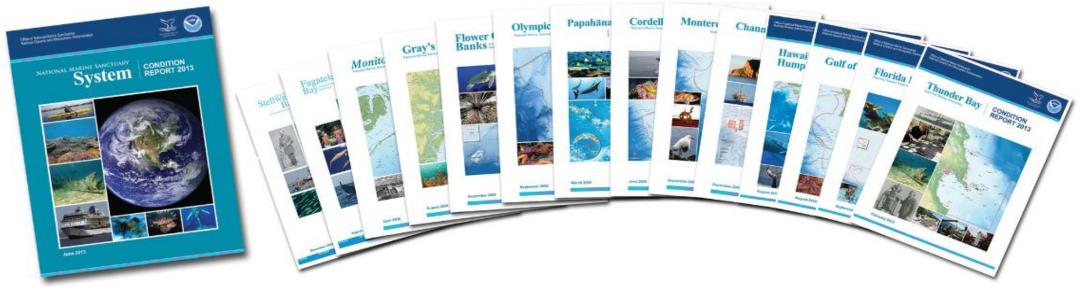






# **ONMS Condition Reports**







Habitat



**Human Pressures** 



Water Quality



**Living Resources** 

Conditions are assessed using available Status and Trend data for a suite of indicators

# Partnership Motivation

#### Motivation, goal:

- Maximize utility of existing observing data
- Ensure observing and monitoring data are readily available to resource managers in an easily digestible way
- Create web-based, interactive tools to explore and understand impacts of change on ecosystems and marine life
- Leverage expertise and resources

#### Major partners







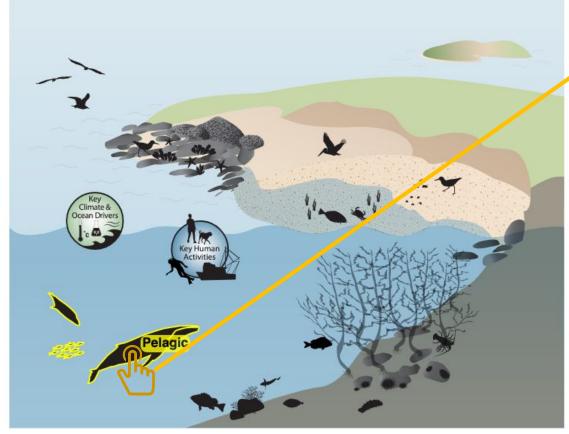


# Interactive Infographics AKA 'Clickable' Sanctuary Ecosystem Trends

CINMS Deep Seafloor Kelp Forest Pelagic Rocky Shore Sandy Beach Sandy Seafloor About

#### Overview

Please explore the interactive ecosystem for Channel Islands National Marine Sanctuary. Navigate by clicking on icons representing major habitats, species of interest, major climate and ocean drivers, and key human activities. These interactive icons and silhouettes access status and trend data, images, web stories and other supporting content.



Text in image: Jff

- Jeep Seafloor
- Kelp Forest
- Key climate & ocean drivers
- Key human activities and impacts
- Pelagic
- Rocky Shore
- Sandy Beach
- Sandy Seafloor

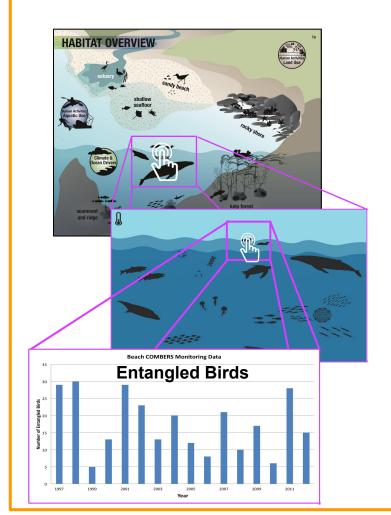
Forage Fish Forage Fish Forage fish, also called fish or bait fish, are small fish which are important food for larger predators including larger fish, hales. Forage fish, such as anchovies, sardines, feed near the base of the food chain on plankton. **CINMS Region B** CalCOFI Monitoring Program CalCOFI data **Anchovy - CINMS Region** 0.25 A figure showing the relative abundance of northern anchovy (Engraulis mordax) collected during the spring around the Northern Channel Islands from 1978 to 2018. The bar at the bottom of the figure can be used to zoom in to specific dates, using the small slider buttons or

https://noaa-onms.github.io/cinms/

# Tiers of data products targeting different users

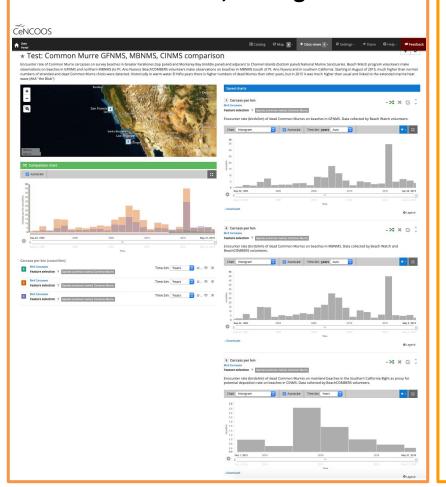
### **Infographics**

**Audience: Public, managers, educators** 



### **Curated Data Views**

Audience: Advisory groups, researchers, managers

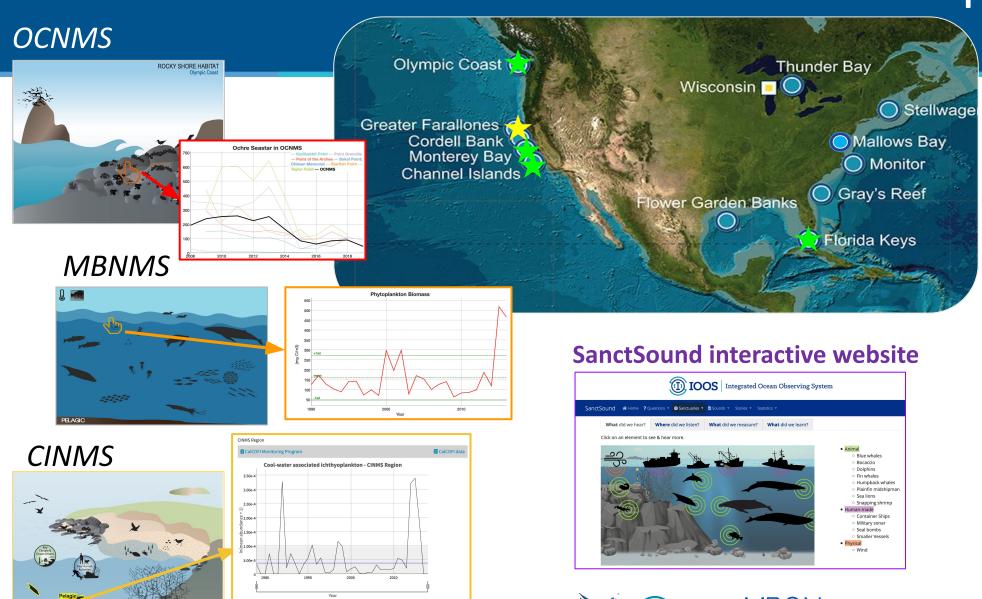


### **Data portals**

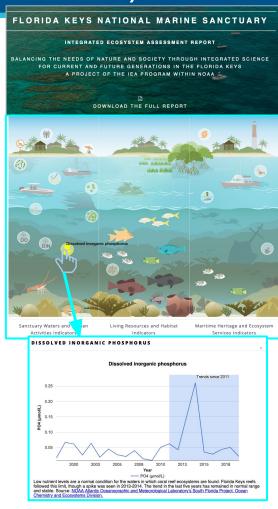
**Audience: technical experts** 



# Current Status and Next Steps



#### FKNMS/GoM IEA



\*need to ingest, synthesize and serve human use indicator data in a compatible manner

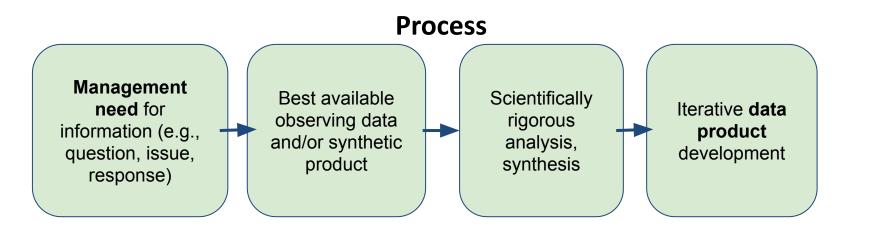
### **Lessons Learned**

Start with the needs, identify the user, build and resource the team

Translation of data from observers and scientists to managers and the public is not automatic, requires focus and resources

#### **Team**

- manager (e.g., science, policy, resource protection, education)
- data-specific technical expert
- data product and web developer
- science translation, application, interpretation



Need:
Condition tracking and assessment,

User:

User:

public, managers, educators

public product type:
interactive infographics

Need:
Data exploration and analysis

User:
advisory groups, issue-based teams

Example product type:
Dashboards



# Outcomes and Impact

- Enabling timely response by managers to questions about sanctuary status and recent change
- Generating new interest and product requests; defining needed team and expertise to bring data to managers
- Through IOOS web services, providing direct access to external data making Condition Reports living information access points
- Ensuring data availability for Condition Reports, Environmental Impact Statements, Education & Outreach
- Leveraging strengths of NOAA programs and partners to build synergies