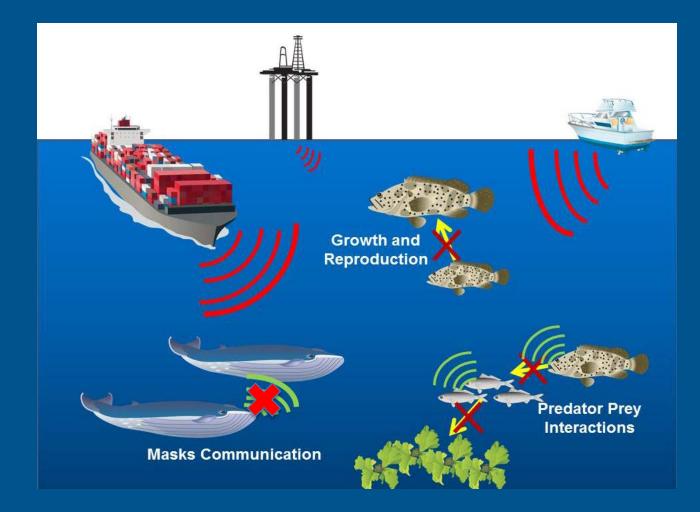
Ocean Noise impacts marine organisms in many ways



NOAA Ocean Noise Strategy

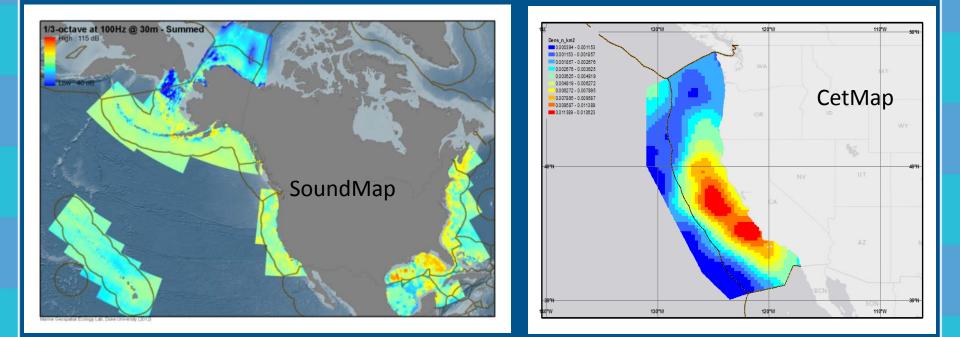


The goal is to articulate NOAA's vision for addressing ocean noise impacts over the next 10 years and guide science and management actions towards that vision.

- Phase I: "CetSound"
 - Cetacean and Underwater sound field mapping cetsound.noaa.gov
- Phase II
 - NOAA Ocean Noise Strategy
 - NOAA Noise Reference Stations

Ocean Noise Strategy Phase I (2010-2012)

• "CetSound": Cetacean and Underwater Sound Field Mapping throughout US EEZ (cetsound.noaa.gov)



Ocean Noise Strategy Phase II (2013-Present)

<u>Timeline</u>

- Kickoff meeting Feb. 2013
- Draft Sent to ONS team Nov. 2014
- Briefing for ONS team Dec. 9, 2014
- Team members to circulate & compile comments by late Feb 2015

Outcomes of 2013 Kickoff mtg:

- Emergent Theme: NOAA's management of ocean noise must be expanded to address the conservation of acoustic habitat
- Ocean Noise Strategy Framework Outline and writing teams

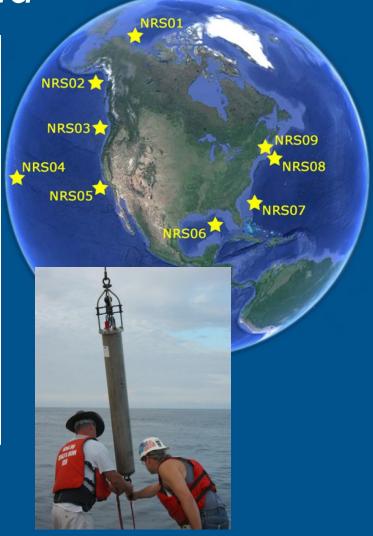
<u>Content</u>

- Executive Summary
- Chapter 1- The NOAA Ocean Noise Strategy and *Managed Species*
- Chapter 2- Acoustic Habitat and NOAA's Ocean Noise Strategy
- Chapter 3- Enhancing NOAA' s Ability to Characterize Aquatic Soundscapes
- Chapter 4- NOAA Ocean Noise Strategy Implementation *Case Studies*
- Appendices

Ocean Noise Strategy in the field

NOAA Noise Reference Stations

- Establishment of NOAA 'branded' long-term, standardized listening capacity across the agency
- 9 stations for 8 NOAA managed regions
- 3 in NMS (OC, CI, and SBNMS)
- Potential for more in NMS (CB, MB, FGB, and GRNMS)
- 2 year low frequency recordings
- Deep water and shallow water instrumentation



Noise and the ONMS Policy, Planning, and Conservation Science

Office of National Marine Sanctuaries National Oceanic and Atmospheric Administration



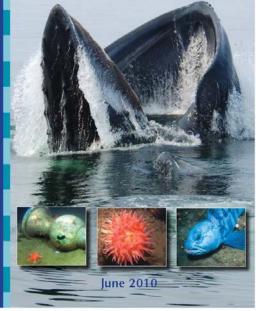
CON REP

NATIONAL MARINE SANCTUARY



STELLWAGEN BANK

Final MANAGEMENT PLAN and Environmental Assessment



L MARINE SANCTUARY

sues: Acoustic (Noise) Impacts

Science Needs Assessments

istic (Noise) Impacts | How are the Sanctuaries Involved? | More Information

y human activities can effect on marine life. mented behavioral tening opportunities es in wildlife due to opogenic (humanpurces of underwater commercial shipping tainer ships, freighters s: smaller recreational essels; sonars used in oile drivers and narine construction; seismic sources used i : sonars and other urces used in research ial sources such as

rtant for the five West , including Monterey ne Sanctuary (MBNMS)

es Sanctuary (MBNNS) ast of North America is (IAN :Integration & Application Network—University of Maryland) container-shipping routes in the world, and the Port of Oakiland in San Francisco Bay is



Condition Reports

Management Plans

ONMS Noise Team

- Technical lead
 - Dr. Leila Hatch (SBNMS)
- ONMS Conservation Science Division, Headquarters
 - Mitchell Tartt
 - Maya Walton
 - Kathy Broughton
- Video
 - Paul Chetirkin
- Social Media/Outreach
 - Matt Dozier

- Site Representation (Regional Reps)
 - Becky Shortland (GRNMS)
 - Dani Lipski (CBNMS)
 - Karen Grimmer (MBNMS)
 - Jon Martinez (HIHWNMS)