

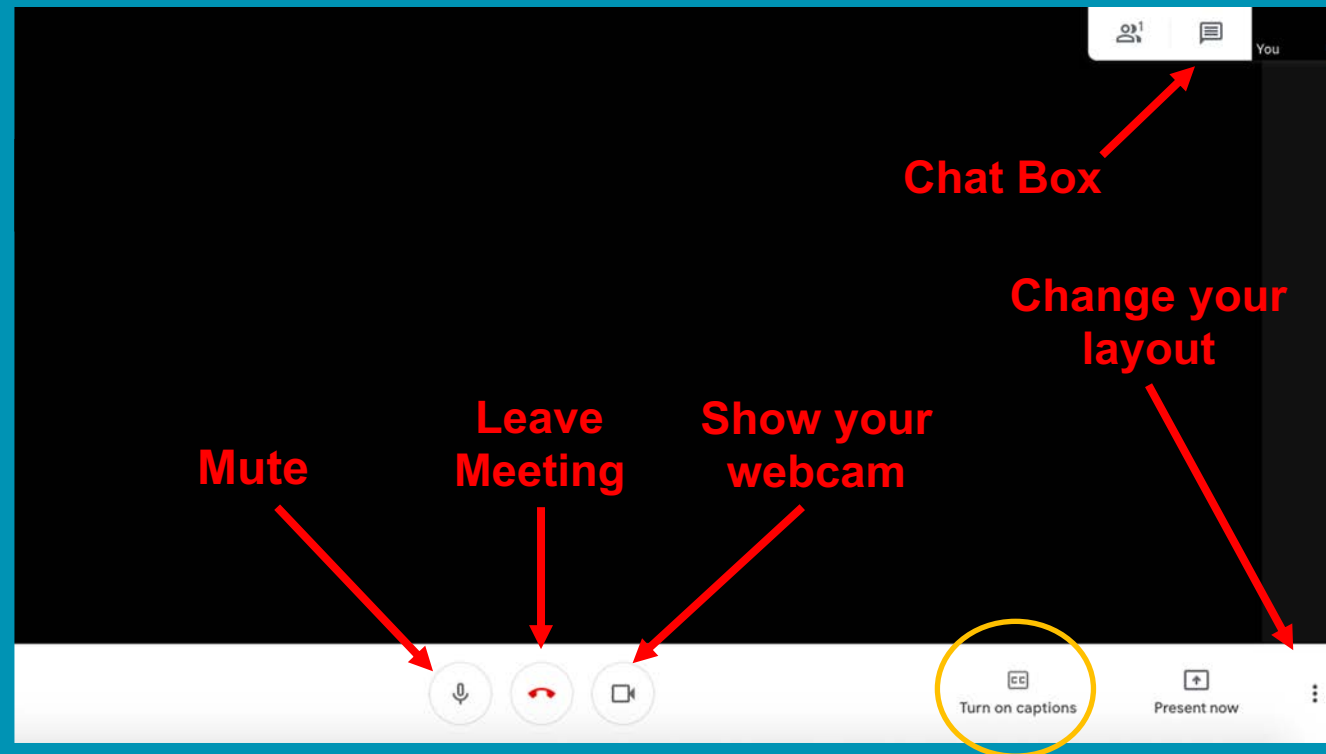
Welcome to the GFNMS Virtual SAC Meeting



**PLEASE MUTE
yourself to reduce
background noise.**

If you are using a
phone for audio:
Use *6 to mute and
unmute.

+1 219-706-2331
PIN: 193 444 396 #



Note the option to turn on captions

Roll Call



1. Dominique Richard (Chair), CAL Marin Primary
2. Abby Mohan (Vice Chair), Recreational Activities Primary
3. Barbara Emley (Secretary), Commercial Fishing Primary
4. Sarah Bates, Commercial Fishing Alternate
5. Joe Fitting, CAL SF/SM Primary
6. Kris Lannin Liang, CAL SF/SM Alternate
7. George Clyde, CAL Marin Alternate
8. Cea Higgins, CAL Sonoma/Mendocino Primary
9. Nancy Trissel, CAL Sonoma/Mendocino Alternate
10. Richard Charter, Conservation Primary
11. Bruce Bowser, Conservation Primary
12. Francesca Koe, Conservation Alternate
13. Kathi George, Conservation Alternate
14. Bibit Traut, Education Primary
15. John Berge, Maritime Activities Primary
16. Julian Rose, Maritime Activities Alternate
17. Joshua Russo, Recreational Activities Alternate
18. John Largier, Research Primary
19. Jaime Jahncke, Research Alternate
20. Ezra Bergson-Michelson, Youth Primary
21. Owen Youngquist, Youth Alternate

Government Members

22. Mark Gold, CA Natural Resources Primary
23. Michael Esgro, CA Natural Res. Alternate
24. Cicely Muldoon, NPS Primary
25. Ben Becker, NPS Alternate
26. LT Jacob Joseph, USCG Primary
27. LTJG Chris Bell, USCG Alternate
28. Chris Barr, USFWS Primary
29. Gerry McChesney, USFWS Alternate
30. Jennifer Boyce, NFMS Primary
31. Dawn Hayes, MBNMS Primary
32. Dan Howard, CBNMS Primary
33. Michael Carver, CBNMS Alternate
34. Chris Mobley, CINMS Primary
35. Michael Murray, CINMS Alternate



9:00-9:10	Welcome, Roll Call, Review Agenda	Maria Brown, GFNMS Superintendent Dominique Richard, SAC Chair
9:10-9:20	SAC Business <ul style="list-style-type: none"> - Approve November meeting highlights (Action Item) - New ship strike working group - Officer elections in May 	Alayne Chappell, SAC Coordinator
9:20-9:30	SAC Subcommittee Updates <ul style="list-style-type: none"> - Recreation and Tourism Subcommittee (5 min) - Diversity and Inclusion Subcommittee (5 min) 	Dominique Richard, Subcommittee Chair Abby Mohan, Subcommittee Chair
9:30-10:30	Charter Renewal (Action Item) <ul style="list-style-type: none"> - Review proposed changes - Discuss recommended changes from SAC members 	Alayne Chappell, SAC Coordinator Dominique Richard, SAC Chair
10:30-10:40	BREAK	
10:40-11:10	Greater Farallones National Marine Sanctuary Superintendent's Report <ul style="list-style-type: none"> - Permits - Covid-19 re-entry plans and field operations - Updates on sanctuary program activities - New Administration priorities 	Maria Brown, GFNMS Superintendent
11:10-11:20	Sanctuary Enforcement Update	Max Delaney, GFNMS Radford Dew, NOAA OLE Chris Bell, USCG
11:20-11:30	Monterey Bay National Marine Sanctuary Superintendent's Report	Dawn Hayes, MBNMS Acting Superintendent
11:30-11:40	Cordell Bank National Marine Sanctuary Superintendent's Report	Dan Howard, CBNMS Superintendent
11:40-11:50	PUBLIC COMMENT	
11:50-12:00	BREAK	
12:00-1:00	Presentation: GFNMS Condition Report	Kathy Broughton NOAA Office of National Marine Sanctuaries Jan Roletto, GFNMS
1:00-2:00	Member Reports	
2:00	WRAP UP & ADJOURN	

SAC Business



Approve November Meeting Highlights (Action Item)

- Any edits? Please indicate in the Chat Box
- Virtual vote by roll call



SAC Business



1. Officer elections in May (please submit your nominations)

1. Request for new ship strike working group



SAC Business

Request for new Ship Strike Working Group



Sanctuary Goal: Reduce the risk of lethal ship strikes to endangered and threatened blue, humpback, and fin whales by 50% in GFNMS/CBNMS

Need: Vessel strikes are a leading cause of death to endangered and threatened blue and humpback whales. With 95% cooperation GFNMS/CBNMS voluntary vessel speed reduction and incentive program is estimated to reduce the risk to target whale species by 25%.

Working Group Purpose: Provide input on 3 conceptual designs to reduce the risk of ship strikes beyond 25%

Timeline: 3 meetings from April 2021-September 2021. Present recommendations at November 2021 Advisory Council meeting

SAC Subcommittee Updates



Recreation and Tourism Subcommittee

Dominique Richard, Chair

Members: Dominique, Cea, Bruce, Francesca

Diversity and Inclusion Subcommittee

Abby Mohan. Chair

Members: Abby, Bibit, Francesca, Dominique, Kathi, Jake, Ezra, Owen

SAC Charter Renewal



ONMS SAC Handbook: Revising a Charter (pg. 55)

- ❖ GFNMS SAC Charter expires and must be renewed every 5 years (last renewed Feb 2016)

Process:

1. The sanctuary superintendent and council coordinator consult with staff to incorporate recommended or necessary changes
2. The SAC reviews the charter and these changes and **make any additional recommendations for changes (today)**
1. The recommended changes will be incorporated into a new draft and sent for final approval by the ONMS Director (**expect 2-6 weeks**)
1. A final version will be distributed to SAC and posted to the GFNMS website

SAC Charter Renewal



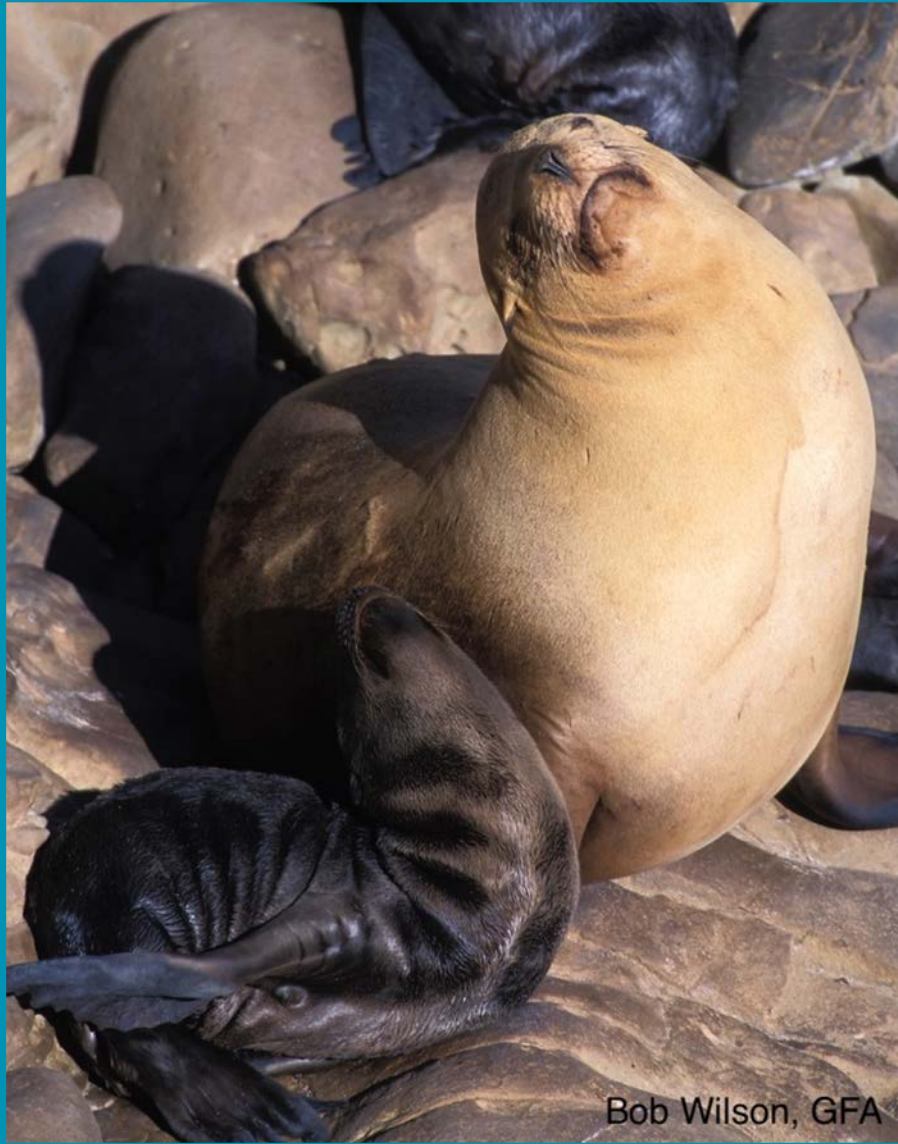
1. Review track changes (minor changes)
1. Recommended changes from SAC members
 - a. Alternates as officers:
 - i. 2 resolutions (George Clyde, Richard Charter)
 - ii. GFNMS Considerations

SAC Charter Renewal



1. ONMS SAC Handbook states that primary members will serve in officer roles
2. Concerns it will be more difficult to meet quorum
3. All other councils in the system have primaries serving as chair
4. Concerns if primary and alternate from one seat serve on the executive committee

10-min BREAK



Bob Wilson, GFA

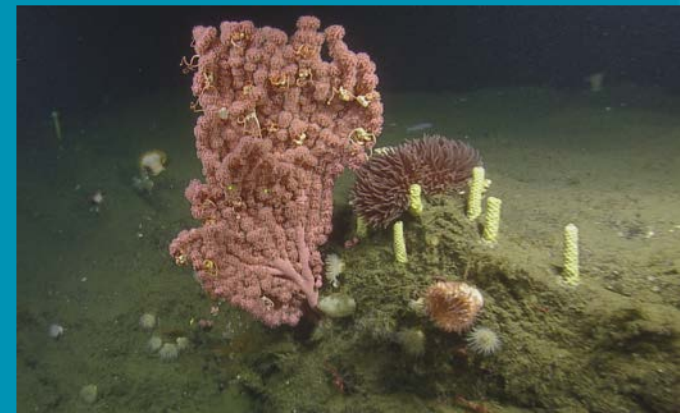
GFNMS Superintendent's Report

Maria Brown



Conservation Science

- Condition Report
- Beach Watch surveys back to single household, 65% coverage
- ACCESS cruise scheduled for April
- SAC is invited to join GFNMS staff for a virtual presentation on Oct. *Nautilus* cruise March 3
- LiMPETS contributes data to CA MPA network



GFNMS Superintendent's Report

Maria Brown



Operations

- Maximum telework until further notice. Facilities and Visitor Center remain closed to the public
- Continuing in Phase 0 of re-entry until further notice
- GFNMS celebrated 40th Anniversary



GFNMS Superintendent's Report

Maria Brown



Online Education

- Fall online school programs served 2,416 students, 70 classes
- Oceans After Schools providing online programming to 155 students (to primarily underserved students)
- Tidepool Adventure Family Workshop highlighting proper tidepool etiquette (38 participants)
- LiMPETS serving 1,044 students; held teacher focus group for feedback



GFNMS Superintendent's Report

Maria Brown



Ocean Climate Program

- New Administration's climate priorities
- Staff co-facilitated and participated in 3-day workshop on sanctuary climate data needs, opportunities
- Staff joined panel on climate change and marine life hosted by the American Cetacean Society
- North-central California Sediment Coordination Committee highlighted as model



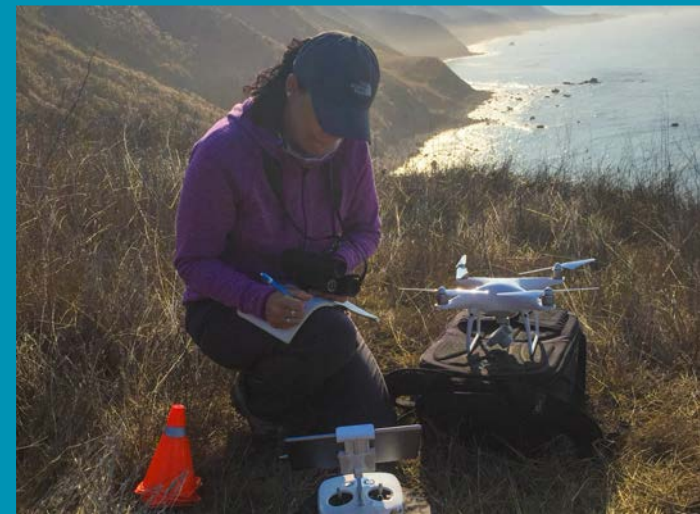
GFNMS Superintendent's Report

Maria Brown



Ecosystem Protection

- The Seabird Protection Network presented on fishing line recycling program at Wildlife Disturbance Symposium
- Kelp Program completed largest coastal UAV mapping project in CA to assess drones for restoration
- Vessel Speed Reduction season concludes with increased participation
- Marine debris and seabird disturbance behavioral change study webinar for SAC



Permit Type	Organization	Project	Effect. Date
Research	Norah Eddy (Nature Conservancy) and Rietta Hohman (Greater Farallones Association)	Unmanned Aerial System surveys of bull kelp canopy along Sonoma and Mendocino county coastline (At 11 sites within GFNMS NOAA Regulation Overflight Zones 1 and 2 along the Sonoma Coast)	Nov. 23, 2020 to Nov. 1, 2022
Research	Dr. Alexandra Boehm and Mr. Chris Francis (Stanford University)	The sandy beach microbiome: physical, chemical and biological controls on diversity and function (Within GFNMS, at one field site on Stinson Beach (at the end of Calle del Resaca)	Dec. 7, 2020 to Dec 31, 2023
Education	James Manistry (Plimsoll Productions)	Nature's Magical Kingdom (Within MBNMS, in the NOAA Regulated Overflight Zone at Año Nuevo)	Jan. 23, 2021 to Mar. 31, 2022
Research	Dr. Brent Hughes (Sonoma State University) and Dr. John Largier (UC Davis / Bodega Marine Lab)	A Framework for Condition Assessment and Monitoring of Estuary MPAs in California (Within GFNMS, at Bolinas Lagoon)	Feb. 1, 2021 to Dec 31, 2022
Under Review			
TBD	Brian Wells (NOAA Fisheries)	Salmon-oriented ecosystem monitoring in the California Current using autonomous survey technology (location TBD)	TBD



Recent Enforcement Activity

1) Starcraft motorboat grounding (south of Pinnacle Gulch)

Date of Incident: 12/6/20

Status: Vessel debris removed by Sonoma County Regional Parks, RP, and a local citizen. Incident referred to OLE who assisted with RP and agency communications. No further enforcement action recommended.

2) Chevron Long Wharf pipeline leak (OUTSIDE GFNMS in SF Bay)

Date of incident: 2/9/2021

Status: USCG, CDFW, RP, and other agencies responded. No oiled wildlife or tarballs detected within GFNMS.

USCG D11 Brief to the Sanctuary Superintendent

Greater Farallones National Marine Sanctuary SAC Meeting 18FEB21



Surface Patrol highlights (01OCT-15FEB):

- 104 WPB LMR patrol hours
 - Domestic Fisheries
- 02 Violations
 - USCGC SOCKEYE
 - USCGC PIKE
 - USCGC TERN



Aviation Patrol highlights (01OCT-15FEB):

- 16 C-27 Flights (Approx. 128 patrol hours)
 - 09 LMR Flights
 - 07 NMS Flights
- Approx. 224 rotary patrol hours
 - Domestic Fisheries

MBNMS Report



GFNMS Advisory Council meeting February 18, 2021

Report by: Dawn Hayes, Acting MBNMS Superintendent



MBNMS Report

Dawn Hayes, Acting Superintendent



Education

- **Whalefest Monterey Highlights MBNMS**
- **Docent Enrichment Webinars:**
 - ✓ The Northern Elephant Seal: Prehistory to the Modern Conservation Movement
 - ✓ Monterey Bay Commercial Fisheries
 - ✓ Ocean Acidification
- **Distance learning programs continue**
 - ✓ 463 students (Mid-Dec to present)
- **MBNMS Staff Film Outreach Video** with the Santa Cruz Warriors
- **ONMS Webinar Series: Bioluminescent Blooms in MBNMS**
- **Salmonscape Panel #4 completed**



MBNMS Report

Dawn Hayes, Acting Superintendent



Research

● Endangered Black Abalone Recovery Effort in Big Sur

- ✓ Massive debris flows buried hundreds
- ✓ Multi-agency effort, led by UCSC
- ✓ 88 recoveries
- ✓ Effort continues
- ✓ NMSF facilitating grant funding



● 2020 Ed Ricketts Memorial Award and Lecture awarded to Dr. Terrie M. Williams

- 338 attendees (including logins with multiple attendees), representing 26 states of the U.S. and six other countries (Argentina, Australia, Brazil, Canada, Columbia, and Mexico).

MBNMS Report

Dawn Hayes, Acting Superintendent



Resource Protection

- **Fibershed Webinar on Soil and Sea**
- **First Flush Monitoring Complete**
- **S/V Bobbie Ann goes aground in extreme weather**



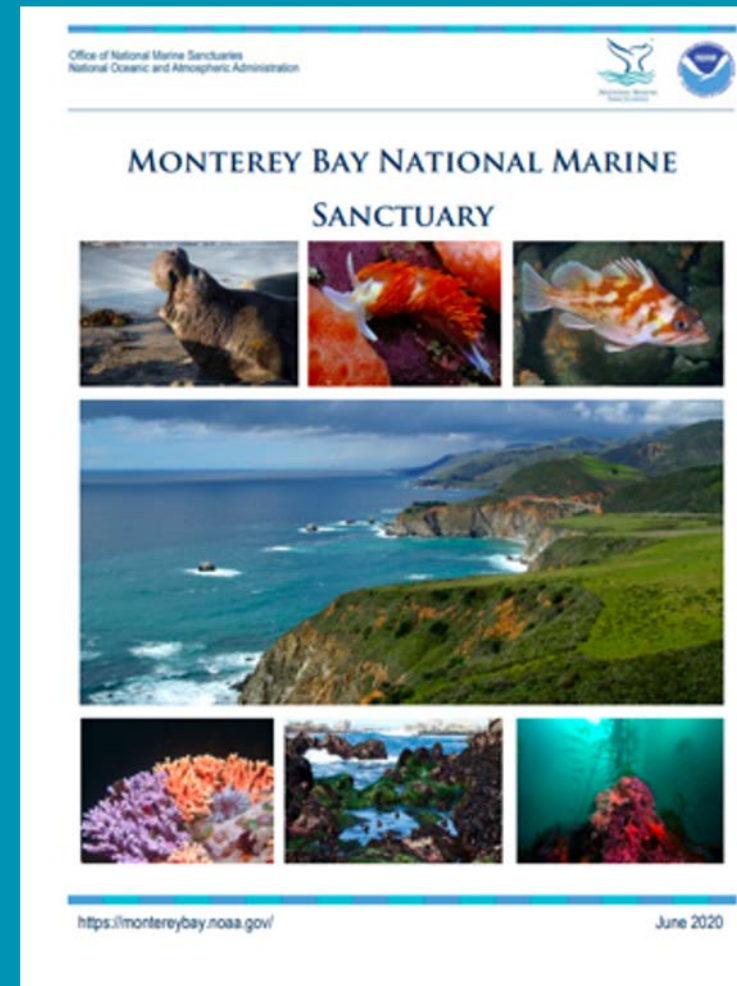
MBNMS Report

Dawn Hayes, Acting Superintendent



Operations and Administration

- **MPR Process Continues:**
 - All documents in first round of internal clearance
 - Conducting agency consultations
 - Making edits to the documents as review progresses





CBNMS Superintendent's Report

Dan Howard

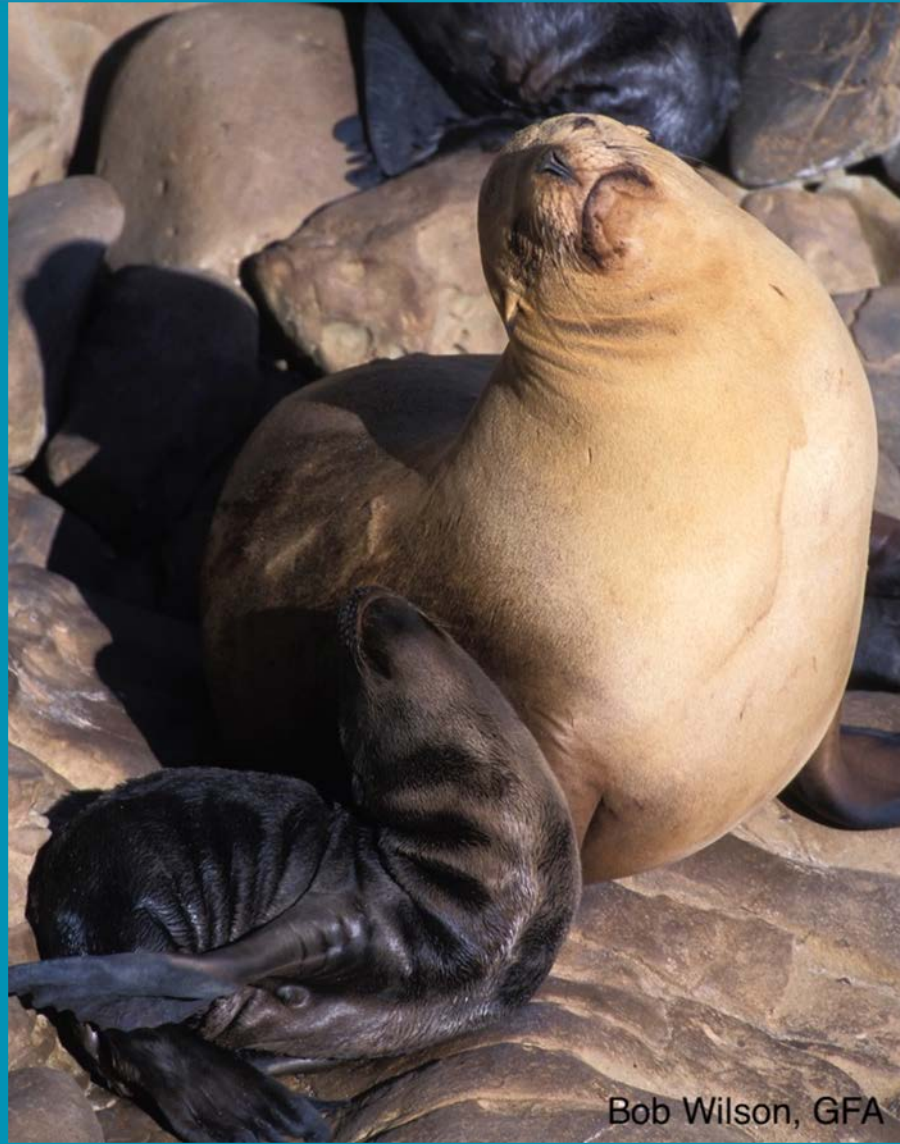
PUBLIC COMMENT 11:40-11:50am

Please unmute yourself when called on to provide your verbal comment.

If you are having trouble unmuting, please let us know in the Chat Box or text 415-531-3266

We are also accepting written comments until 2:00pm today. Email your comment to alayne.chappell@noaa.gov

10-min BREAK



Bob Wilson, GFA



Presentation: GFNMS Condition Report

Kathy Broughton

NOAA Office of National Marine Sanctuaries

Jan Roletto

GFNMS Research Coordinator



Condition Reports

An Overview

NOAA Office of National Marine Sanctuaries

Leaders in Protecting America's Natural and Cultural Heritage

The National Marine Sanctuary System



Condition Reports

Assessing the status and trends of sanctuary resources



Gulf of the Farallones NMS Condition Report: 2010

Office of National Marine Sanctuaries
National Oceanic and Atmospheric Administration

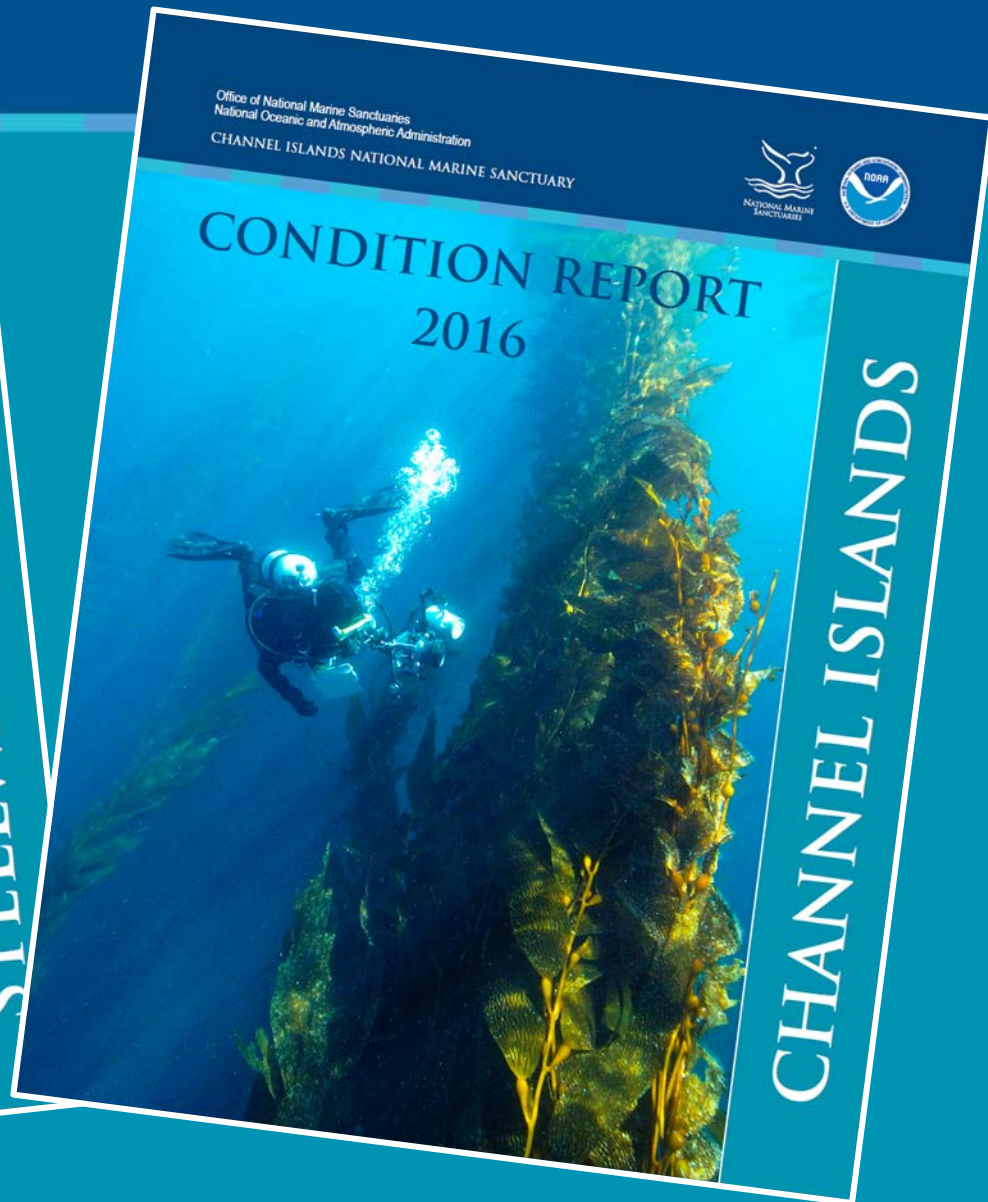


Gulf of the Farallones National Marine Sanctuary CONDITION REPORT 2010



August 2010

Next Generation of Condition Reports



Purpose and Audience

- Supporting Tool
 - Management plan reviews
- Inform & Educate
 - Community and regional partners, stakeholders, interested members of the public
- Reporting Mechanism
 - NOAA and Congress re: resource protection and improvement goals

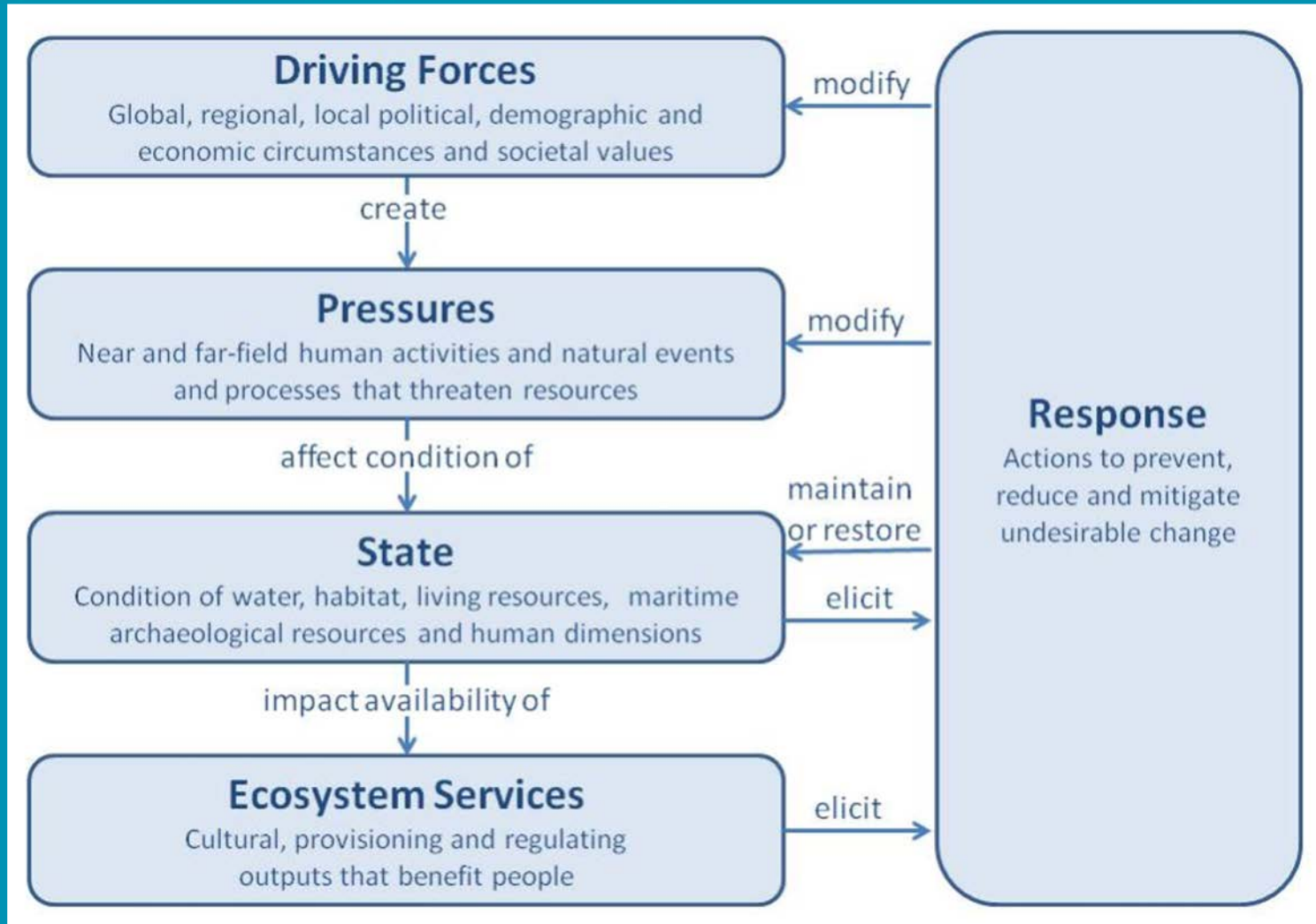


Framework

Driving Forces-Pressure-State-Ecosystem
Services-Response (DPSER)



DPSEER



State of Resources

15 Questions

- Human Dimensions
- Water Quality
- Habitat
- Living Resources
- Maritime Heritage Resources



▲ = Improving — = Not Changing ▼ = Worsening

? = Undetermined

N/A = Not Applicable

Human Dimensions

What are the levels of **human activities** that may adversely influence **water quality** and how are they changing?

What are the levels of **human activities** that may adversely influence **habitats** and how are they changing?

What are the levels of **human activities** that may adversely influence **living resource** quality and how are they changing?

What are the levels of **human activities** that may adversely influence **maritime heritage resource** quality and how are they changing?

Water Quality

What is the **eutrophic condition** of sanctuary waters and how is it changing?

Do sanctuary waters pose **risks to human health** and how are they changing?

Have recent changes in **climate** altered water conditions and how are they changing?

Are **other stressors**, individually or in combination, affecting water quality, and how are they changing?

Habitat

What is the **integrity of major habitat types** and how is it changing?

What are **contaminant concentrations** in sanctuary habitats and how are they changing?

Living Resources

What is the status of **keystone** and foundation species and how is it changing?

What is the status of **other focal species** and how is it changing?

What is the status of **non-indigenous species** and how is it changing?

What is the status of **biodiversity** and how is it changing?

Maritime Heritage Resources

What is the **condition of known maritime heritage resources** and how is it changing?

Rating System



▲ = Improving — = Not Changing ▼ = Worsening

? = Undetermined

N/A = Not Applicable

Description of Findings

Description of findings statement for a given status rating is specific to the question being asked



Good	Water quality does not appear to have the potential to negatively affect human health.
Good/Fair	One or more water quality indicators suggest the potential for human health impacts, but human health impacts have not been reported.
Fair	Water quality problems have caused measurable human impacts, but effects are localized and not widespread or persistent.
Fair/Poor	Water quality problems have caused severe impacts that are either widespread or persistent.
Poor	Water quality problems have caused severe, persistent, and widespread human impacts.

Good	Habitats are in near-pristine condition.
Good/Fair	Selected habitat loss or alteration is suspected and may degrade some attributes of ecological integrity, but has not yet caused measurable degradation.
Fair	Selected habitat loss or alteration has caused measurable, but not severe degradation in some attributes of ecological integrity.
Fair/Poor	Selected habitat loss or alteration has caused severe degradation in some, but not all attributes of ecological integrity.
Poor	Selected habitat loss or alteration has caused severe degradation in most, if not all attributes of ecological integrity.

The customized statements are available here:
<https://sanctuaries.noaa.gov/science/condition/rating.html>

Ecosystem Services

Cultural (*non-material benefits*)

- Sense of place
- Non-consumptive recreation
- Consumptive recreation
- Science
- Education
- Heritage

Regulating (*buffers to change*)

- Coastal Protection

Provisioning (*material benefits*)

- Biotechnology
- Ornamentals
- Commercial Harvest
- Subsistence Harvest
- Water
- Energy

Rating System for Ecosystem Services

Good	The capacity to provide the ecosystem service has remained unaffected or has been restored.
Good/Fair	The capacity to provide the ecosystem service is compromised, but performance is acceptable.
Fair	The capacity to provide the ecosystem service is compromised, and existing management would require enhancement to enable acceptable performance.
Fair/Poor	The capacity to provide the ecosystem service is compromised, and substantial new or enhanced management is required to restore it.
Poor	The capacity to provide the ecosystem service is compromised, and it is doubtful that new or enhanced management would restore it.

Confidence Scores

Evidence + Agreement = Confidence

Step 1: Rate Evidence

Consider three categories of evidence typically used to make status or trend ratings: (1.) data,(2.) published information and(3.) personal experience.

Evidence Scores		
Limited	Medium	Robust
Limited data or published information, and little or no substantive personal experience.	Data available, some peer reviewed published information, or direct personal experience.	Considerable data, extensive record of publication, or extensive personal experience.

Step 2: Rate Agreement

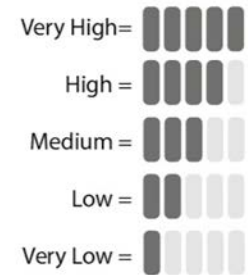
Rate agreement among those participating in determining the status and trend rating, or if possible, within the broader scientific community. Levels of agreement can be characterized as "low," "medium" or "high."

Step 3: Rate Confidence

Using the matrix below, combine ratings for both evidence and agreement to identify a level of confidence. Levels of confidence can be characterized as "very low," "low," "medium," "high" or "very high."

	<p><i>"Medium"</i> High agreement Limited evidence</p>	<p><i>"High"</i> High agreement Medium evidence</p>	<p><i>"Very High"</i> High agreement Robust evidence</p>
Agreement ↑	<p><i>"Low"</i> Medium Agreement Limited evidence</p>	<p><i>"Medium"</i> Medium agreement Medium evidence</p>	<p><i>"High"</i> Medium agreement Robust evidence</p>
	<p><i>"Very Low"</i> Low agreement Limited evidence</p>	<p><i>"Low"</i> Low agreement Medium evidence</p>	<p><i>"Medium"</i> Low agreement Robust evidence</p>
	Evidence (type, amount, quality, consistency) →		

Confidence Scale:



EXAMPLE:

This symbol indicates the condition was rated "fair" with "medium confidence" and a "worsening" trend with "very high confidence."



Process: Major Milestones and Approximate Timing

Year	Season	Milestone
2021	Winter	Kick off
2021	Winter – Fall	Indicator development, data compilation
2021	Fall	*Potential* indicator vetting workshop
2021 - 22	Winter - Spring	Preparation of indicators & data
2022	Spring	Status & Trends Workshop
2022	Spring - Fall	Report drafting
2022 - 23	Fall – Spring	2 Review Periods
2023	Summer	Finalize and release report

Process: Consultation With Experts



Fall 2021: Indicator &
Data Development

Spring 2022:
Status and Trends
Workshop



Process: Two Reviews

1. Expert Review
- ~~2. Invited Review~~
3. Peer Review

https://sanctuaries.noaa.gov/science/condition

The screenshot shows a web browser window with the URL <https://sanctuaries.noaa.gov/science/condition/>. The browser's address bar and tabs are visible at the top. Below the browser window, a teal banner contains an information icon and the text: "National marine sanctuary offices and visitor centers closed to the public; waters remain open. NOAA's national marine sanctuary offices and visitor centers are closed to the public while the waters remain open for responsible use in accordance with CDC guidance and local regulations. More information on the response from NOAA's Office of National Marine Sanctuaries can be found on sanctuaries.noaa.gov/coronavirus/." Below this banner is the NOAA National Marine Sanctuaries logo and a search bar. A navigation menu includes links for Visit, News, Explore, Learn, Get Involved, Multimedia, About, Contact, and Español. The main content area features a breadcrumb trail: HOME / EXPLORE / SCIENCE / CONDITION REPORTS, followed by the heading "Condition Reports". A large image displays a collection of report covers, including the "National Marine Sanctuary System Condition Report 2013" and individual reports for various sanctuaries such as Monticello, Gray's, Flower Banks, Olympic, Papahāna, Cordell, Muellers, Cham, Hawaii Hump, Gulf of Florida, and Thunder Bay. Below the image, a paragraph explains that the reports provide a summary of resources, pressures, current conditions, and management responses. Three blue buttons are provided for further information: "Frequently Asked Questions", "Rating Scheme for System-Wide Monitoring Questions", and "Ecosystem Services and Methods to Determine Ratings". At the bottom, a partial view of the "NATIONAL MARINE SANCTUARY SYSTEM 2013 CONDITION REPORT" is shown, featuring a satellite image of Earth and introductory text about the report's content.

Science | Condition Reports | NOAA

sanctuaries.noaa.gov/science/condition/

Apps Bookmarks Email Gmail Facebook YouTube SoundCloud Twitter LinkedIn Instagram Pinterest RSS ONMS Maps Shutterfly NOAA Directory hcpss.me HT Accounts BCBS Darebee HCPSS Connect

i National marine sanctuary offices and visitor centers closed to the public; waters remain open
NOAA's national marine sanctuary offices and visitor centers are closed to the public while the waters remain open for responsible use in accordance with CDC guidance and local regulations. More information on the response from NOAA's Office of National Marine Sanctuaries can be found on sanctuaries.noaa.gov/coronavirus/.

NATIONAL MARINE SANCTUARIES

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HOME / EXPLORE / SCIENCE / CONDITION REPORTS

Condition Reports

The Office of National Marine Sanctuary Condition Reports provide a summary of resources in each sanctuary, pressures on those resources, the current condition and trends, and management responses to the pressures that threaten the integrity of the marine environment. Specifically, the reports include information on the status and trends of water quality, habitat, living resources and maritime archaeological resources and the human activities that affect them.

Links are provided below to access the National Condition Report and each sanctuary's condition report.

[Frequently Asked Questions](#) [Rating Scheme for System-Wide Monitoring Questions](#) [Ecosystem Services and Methods to Determine Ratings](#)

NATIONAL MARINE SANCTUARY SYSTEM 2013 CONDITION REPORT

In the National Marine Sanctuary System Condition Report the status and trends of resource condition are evaluated across the system. Among the many pressures on the natural and archaeological resources in the system, a number stand out: marine debris entanglement, trapping and ingestion, loss of biodiversity, wildlife disturbance, ship strikes and water quality, to name a few. In the face of these pressures, sanctuaries are

Questions?

Kathy.Broughton@noaa.gov

Jan.Roletto@noaa.gov

National Marine Sanctuaries
National Oceanic and Atmospheric Administration



NATIONAL MARINE
SANCTUARIES

<http://sanctuaries.noaa.gov>

Member Reports