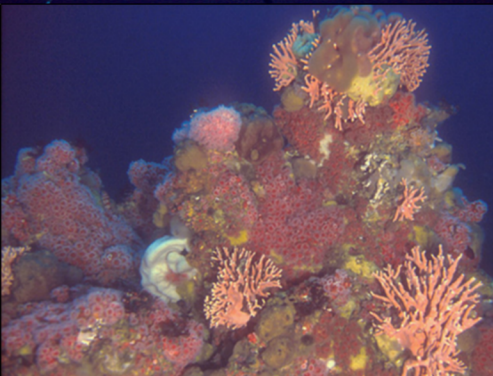


# GLOBAL LEADER IN MARINE STEWARDSHIP

PROTECTING ONE OF THE MOST VALUABLE ECOSYSTEMS ON THE

PLANET

2028 Vision



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# MISSION

WE PROTECT  
TREASURED  
PLACES IN THE  
OCEAN

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# VISION

A  
THRIVING  
SANCTUARY  
SUPPORTS  
A THRIVING  
COMMUNITY

# ENSURE A THRIVING SANCTUARY

## GOAL 1: RESTORE SANCTUARY HABITATS

*Spearhead restoration of Bolinas Lagoon, Tomales Bay, coastal beaches, and kelp forests*



# ENSURE A THRIVING SANCTUARY

## GOAL 1: RESTORE SANCTUARY HABITATS

*Spearhead restoration of Bolinas Lagoon, Tomales Bay, coastal beaches, and kelp forests*

### 2020 ACCOMPLISHMENTS

Restoring Tomales Bay eelgrass through implementing mooring program (SAC recommendation)

Bull kelp recovery assessment surveys to identify and establish baseline kelp cover for potential restoration sites (SAC recommendation)

Tomales Bay native oyster restoration draft feasibility working group by Marin County (SAC recommendation)

Established Sonoma County rocky intertidal LiMPETS monitoring sites through GFNMS-GFA partnership

# RESTORE SANCTUARY HABITATS

*Spearhead restoration of Bolinas Lagoon, Tomales Bay, coastal beaches, and kelp forests*

## 2021 Planned Activities

- Pilot Surfer's Beach restoration by Pillar Point Harbor District (SAC recommendation)
- Bolinas Lagoon South End wetlands restoration design funded by GFA (SAC recommendation)
- Continue passive eelgrass restoration in Tomales Bay (SAC recommendation)
- Begin active bull kelp restoration in partnership with GFA (SAC recommendation)
- Native oyster restoration feasibility plan by Marin County (SAC recommendation)
- Dune restoration feasibility plan by Marin County (SAC recommendation)

## 2028 Vision

- Surfer's Beach restored (SAC recommendation)
- Bolinas Lagoon North and South End wetlands restored (SAC recommendation)
- Kent Island restored (SAC recommendation)
- Eelgrass in Tomales Bay restored (SAC recommendation)
- Bull kelp forests recovering (SAC recommendation)
- Native oysters in Tomales Bay increasing (SAC recommendation)
- Stinson beach dunes restored (SAC recommendation)

# ENSURE A THRIVING SANCTUARY

GOAL 2: KEEP OUR OCEAN WATERS HEALTHY  
*Monitor the health and respond to violations and emergencies*



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## GOAL 2: KEEP OUR OCEAN WATERS HEALTHY

*Monitor the health and respond to violations and emergencies*

### 2020 ACCOMPLISHMENTS

60 beaches and 211 miles of coastline surveyed pre-COVID in partnership with the Association; added Crissy beach in the Bay in partnership with NPS

21 LiMPETS and Sanctuary intertidal sites monitored pre-COVID in partnership with the Association

4 kelp cover assessment sites surveyed in partnership with the Association and partners (SAC recommendation)

Conducted shotgun wad marine debris behavioral change study in partnership with the Association

Responded to 11 incidents, successfully removed 1 grounded vessel, and pursuing 4 active enforcement cases

Ensured permitted activities benefited the protection of the sanctuary



# ENSURE A THRIVING SANCTUARY

## GOAL 2: KEEP OUR OCEAN WATERS HEALTHY

*Monitor the health and respond to violations and emergencies*

### 2021 Planned Activities

- Expand Beach Watch to additional San Francisco Bay beaches
- Expand LiMPETS rocky intertidal monitoring along the Sonoma Coast to inform kelp ecosystem recovery
- Monitor and assess the health of rocky intertidal habitat at the Farallon Islands
- Monitor and assess the recovery of sea stars through LiMPETS
- Monitor and assess the recovery of bull kelp
- Document changing ocean conditions
- Successfully settle 4 pending enforcement cases and develop restoration plans for affected habitat
- Increase communication and partnership on enforcing sanctuary regulations
- Ensure permitted activities benefit the resources of the sanctuary

### 2028 VISION

- 330 volunteers annually contributing 10,560 hours
- Law enforcement partners responding to emergencies and enforcement cases leading to beneficial sanctuary outcomes serving as a national model for emergency response, damage assessment, and restoration
- 25 rocky intertidal monitoring sites assessing the health of the sanctuary
- 65 sandy beach monitoring sites assessing the health of the sanctuary
- 4 kelp ecosystem monitoring sites assessing the health of the sanctuary (SAC recommendation)

# ENSURE A THRIVING SANCTUARY

GOAL 3: BRING BACK WILDLIFE  
*Restore wildlife populations*



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## GOAL 3: BRING BACK WILDLIFE

*Restore wildlife populations*

### 2020 ACCOMPLISHMENTS

58% vessel cooperation with voluntary speed reduction to reduce lethal ship strikes to endangered blue and threatened humpback whales during 2019 season (SAC recommendation)

Expanded voluntary speed reduction zone to protect threatened humpback whales (SAC recommendation)

In partnership with the Association coordinated Northern and Southern California vessel speed reduction program

# ENSURE A THRIVING SANCTUARY

## GOAL 3: BRING BACK WILDLIFE

*Restore wildlife populations*

### 2021 Planned Activities

70% vessel cooperation with voluntary speed reduction to reduce lethal ship strikes to endangered blue and threatened humpback whales (SAC recommendation)

Expanded program to recycle used fishing line on charter vessels to reduce seabird entanglement

Assess effectiveness of the Seabird Protection Network's efforts to reduce disturbance to seabirds from aircraft and vessels

### 2028 VISION

Reduction of the risk of lethal vessel ships to endangered and threatened whales by 50%

Recycled fishing line project on all charter vessels

90% reduction in disturbance to seabirds from aircraft (SAC recommendation)

90% reduction in disturbance to seabirds from boats

# ENSURE A THRIVING SANCTUARY

## GOAL 4: INCREASE COAST AND OCEAN RESILIENCE

*Lead the Office Of National Marine Sanctuaries  
Center For Collaboration On Ocean Climate Change*



# ENSURE A THRIVING SANCTUARY

## GOAL 4: INCREASE COAST AND OCEAN RESILIENCE

*Lead the Office Of National Marine Sanctuaries*

*Center For Collaboration On Ocean Climate Change*

### 2020 ACCOMPLISHMENTS

Per capita emissions have continued to decline since 2008 (SAC recommendation)

Integrating actions to increase resilience to climate change across all sanctuary program areas (SAC recommendation)

Established North-central California Coast Sediment Coordination Committee to implement Sanctuary Advisory Council sediment recommendations (SAC recommendation)

Leading West Coast Region efforts to integrate planning for climate change into site operations and programs

# ENSURE A THRIVING SANCTUARY

## GOAL 4: INCREASE COAST AND OCEAN RESILIENCE

Lead the *Office Of National Marine Sanctuaries*  
*Center For Collaboration On Ocean Climate Change*

### **2021 Planned Activities**

In partnership with the Association map blue carbon and vulnerable habitats and link to restoration plans

Build agency support for projects in the most vulnerable habitats

Further decrease site carbon emissions (SAC recommendation)

Recommend a carbon neutral policy for the Office of National Marine Sanctuaries

### **2028 VISION**

GFNMS operations are carbon neutral

Sanctuary Blue Carbon habitat fully protected

Climate change adaptation strategies implemented in all national marine sanctuaries

Green operation plans implemented at all national marine sanctuary facilities

# ENSURE A THRIVING SANCTUARY

## GOAL 5: SHARE OUR MARITIME HISTORY AND CULTURE

*Understand and learn from our cultural landscape*





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*Understand and learn from our cultural landscape*

### 2020 Accomplishments

Sanctuary Advisory Council Diversity and Inclusion subcommittee established

# ENSURE A THRIVING SANCTUARY

## GOAL 5: SHARE OUR MARITIME HISTORY AND CULTURE

*Understand and learn from our cultural landscape*

### **2021 Planned Activities**

Sanctuary Advisory Council recommendations on diversity and inclusion

Initiate a cultural landscape of the North-central California marine sanctuaries

Identify and engage diverse cultures and perspectives in sanctuary programs

Continue to engage and collaborate with the tribes along the sanctuary's shore

### **2028 VISION**

The Sanctuary Advisory Council reflects the diversity of the sanctuary community

GFNMS maritime heritage program reflects the history of the diverse cultures engaged in the sanctuary's environment

Education programs incorporate the maritime history as well as cultures of the sanctuary to increase public understanding of past, present, and future human component of the ecosystem

The diverse cultures of the communities bordering the sanctuary experience and are engaged in sanctuary programs

# SAFEGUARD MORE UNDERWATER TREASURES

## GOAL 6: PROTECT OUR COAST

*Complete protection of the Farallones Upwelling current*



# ENSURE A THRIVING SANCTUARY SAFEGUARD MORE UNDERWATER TREASURES

## GOAL 6: PROTECT OUR COAST

*Complete protection of the Farallones Upwelling current*

### 2020 ACCOMPLISHMENTS

Sanctuary Advisory Council San Francisco-Pacifica Exclusion Area  
Subcommittee established

# SAFEGUARD MORE UNDERWATER TREASURES

## GOAL 6: PROTECT OUR COAST

*Complete protection of the Farallones Upwelling current*

### **2021 Planned Activities**

Sanctuary Advisory Council  
recommendations on the San  
Francisco-Pacifica exclusion area

### **2028 VISION**

Greater Farallones Upwelling Cell  
supports a healthy sanctuary  
ecosystem

# INCREASE SUPPORT FOR SANCTUARIES

## GOAL 7: TRAIN THE NEXT GENERATION OF MARINE STEWARDS

*Establish the sanctuary campus as an iconic location for marine education and expand recognition of national marine sanctuaries*



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### 2020 ACCOMPLISHMENTS

4,230 students experienced the Sanctuary through virtual visitor center field trips and education programs in partnership with the Association

Successfully launched online sanctuary naturalist training, adding 24 new sanctuary naturalist (49 total naturalists) to deliver sanctuary messages and programs

Trained 24 new Sanctuary-Association volunteers to monitor sanctuary beaches (220 total volunteer citizen scientists)

2 Nancy Foster Graduate School Fellowships; 2 San Francisco State University (SF State) EOS graduate student interns; 1 University of San Francisco (USF) graduate school intern; 1 Monterey School of International Studies (MIS) graduate student intern

2 high school Sanctuary Advisory Council members

# INCREASE SUPPORT FOR SANCTUARIES

## GOAL 7: TRAIN THE NEXT GENERATION OF MARINE STEWARDS

*Establish the sanctuary campus as an iconic location for marine education and expand recognition of national marine sanctuaries*

### **2021 Planned Activities**

Complete Pier Classroom renovations

Engage 2 high school Sanctuary Advisory Council members

Recruit 2 Hollings undergraduate scholars

Recruit Nancy Foster graduate student scholars

Recruit USF graduate student intern

Host 2 SF State EOS graduate student interns

Host MIIS graduate student intern

### **2028 VISION**

World class education facility doubling the number of students and adults that reflect the diversity of the Bay Area community educated and trained to become stewards of the sanctuary and marine environment



# INCREASE SUPPORT FOR SANCTUARIES

GOAL 8: EDUCATE OUR COMMUNITY  
*Engage Adults, Youth and Their Families*



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## ACCOMPLISHMENTS

4,000 people participated in Sanctuary-Association public education programs

22 people graduated as Sanctuary Naturalists

2,229 shark enthusiasts learned about the sanctuary's top predators during the annual Sharktoberfest in partnership with Shark Stewards and the Association

# INCREASE SUPPORT FOR SANCTUARIES

## GOAL 8: EDUCATE OUR COMMUNITY

*Engage Adults, Youth and Their Families*

### **2021 Planned Activities**

Sanctuary virtual education programs are made available to every public elementary school in the San Francisco Unified School District

Sanctuary virtual education programs are taught in all the expansion area community schools

Continue to offer virtual community education programs

### **2028 VISION**

Sanctuary education is in every school along the North-central California coast

All sanctuary education programs rank in the 90th percentile for satisfaction

Increased community awareness about and understanding of the importance of the sanctuary

# DEEPEN OUR UNDERSTANDING OF SANCTUARIES

## GOAL 9: EXPLORE THE SANCTUARY

*Discover new species and protect deep sea corals and sponges*



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## GOAL 9: EXPLORE THE SANCTUARY

*Discover new species and protect deep sea corals and sponges*

### **2020 ACCOMPLISHMENTS**

1 new sponge species discovered

Continued mapping priority benthic habitat locations

GOAL 9: EXPLORE THE SANCTUARY

*Discover new species and protect deep sea corals and sponges*

**2021 Planned Activities**

Continue mapping priority benthic habitats

Publish benthic habitat technical report in the ONMS Conservation Science Series

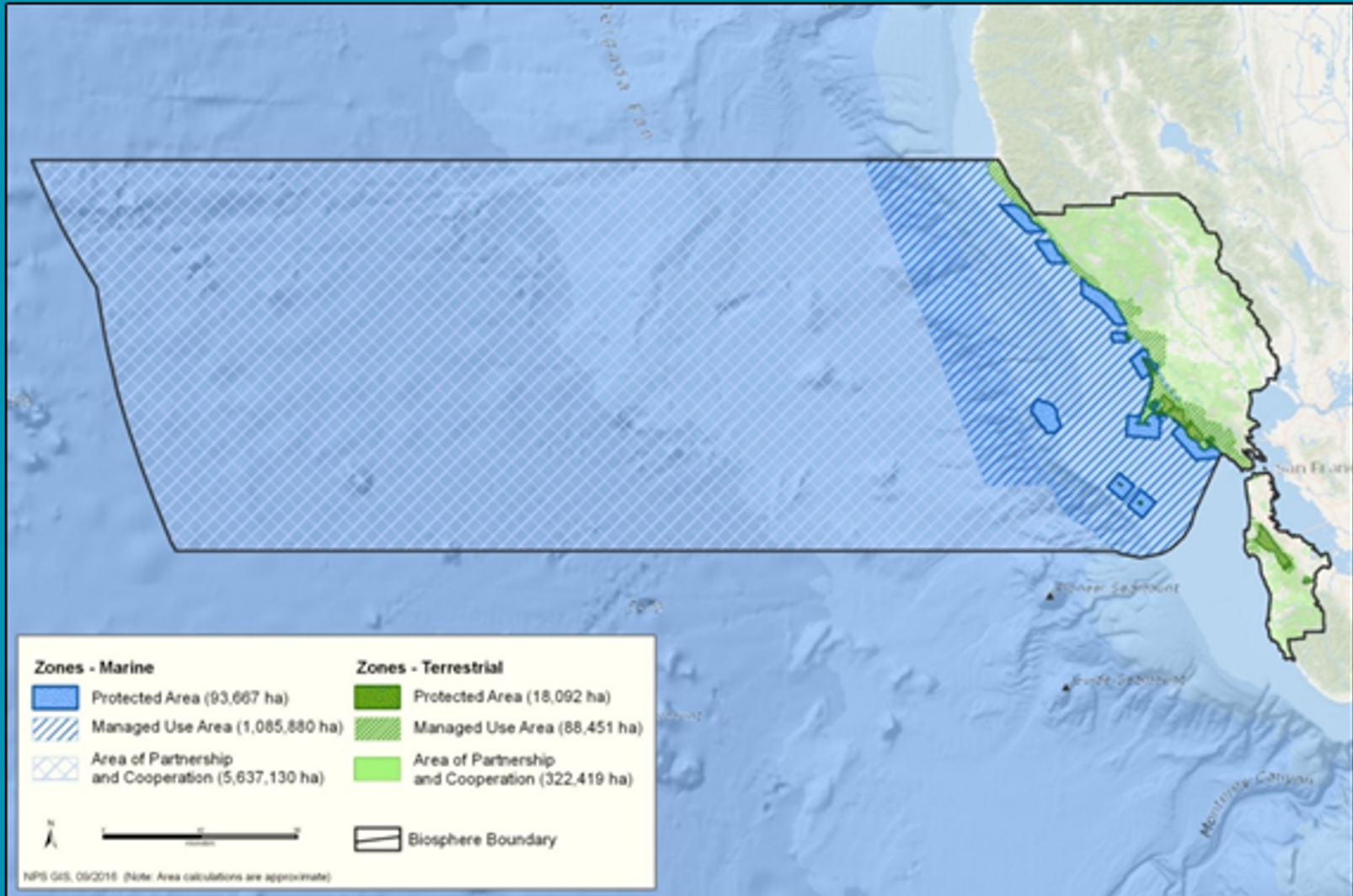
Produce educational materials on the importance of sanctuary benthic habitat

**2028 VISION**

Representative sanctuary benthic habitat is protected

# ENSURE THRIVING SANCTUARIES AND OTHER OCEAN PARKS

GOAL 10: SERVE AS AN INTERNATIONAL MODEL OF MARINE STEWARDSHIP  
*Lead and partner internationally*



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*Lead and partner internationally*

### 2020 ACCOMPLISHMENTS

Presented sanctuary climate change initiative to marine protected areas (MPA) managers internationally at COP25

Advising MPA managers in Chile on sanctuary management strategies

Member of international MPA managers and climate change working group to share lessons learned and promote MPAs as climate adaptation and mitigation tools

Hosted North American MPA Network virtual workshop



# ENSURE THRIVING SANCTUARIES AND OTHER OCEAN PARKS

## GOAL 10: SERVE AS AN INTERNATIONAL MODEL OF MARINE STEWARDSHIP

*Lead and partner internationally*

### **2021 Planned Activities**

Develop international recommendations for creation of MPAs to meet United Nations biodiversity and climate change goals

### **2028 VISION**

MPA are incorporated into the United States and Worldwide as a strategy to meet biodiversity and climate change goals

The Golden Gate Biosphere serves as an international model of a sustainable coastal community

# 2020 MAJOR ACCOMPLISHMENTS

1. 250 volunteers contribute 7,705 hours to the sanctuary
2. International recognition of the sanctuary's climate change program at COP25
3. In 2019, in partnership with the Association served 100 school, 304 teachers, with 304 education programs
4. In 2019, in partnership with the Association reached 7,317 students of which 6,443 were from public schools, 798 from private schools, and 76 from other educational learning environments (e.g. home schooling)
5. In 2019, 26% of the students served identified as Asian, 22% as LatinX, and 31% as white
6. In 2019, 43% of the schools identified as serving low income communities
7. In partnership with the Association, successfully modified sanctuary visitor center field trip programs to an online format
8. In partnership with the Association, successfully modified sanctuary summer camps to an online format
9. Led our first virtual Get into Your Sanctuary event with more than 350 participants.
10. Discovered a new sponge species!

*The Greater Farallones National Marine Sanctuary serves as an international example demonstrating that thriving coastal communities depend on thriving marine environments.*