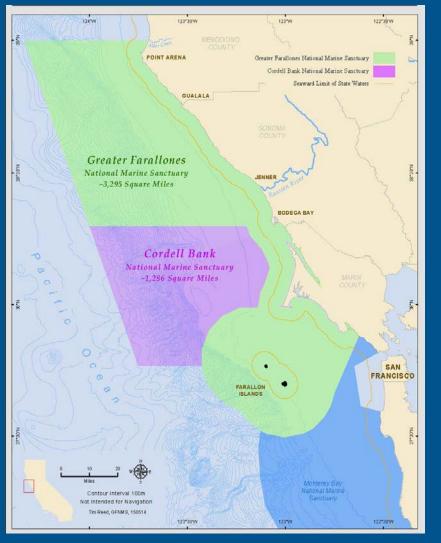


Taking a Habitat Focus to Address Climate Impacts to Greater Farallones National Marine Sanctuary

Sara Hutto Conservation and Climate Program Coordinator Greater Farallones Association



Greater Farallones National Marine Sanctuary



- Office of National Marine Sanctuaries (NOAA)
- Designated in 1981
- 3,295 square miles
- Open ocean, tidal flats, rocky intertidal, estuarine wetlands, subtidal reefs, and beaches
- Breeding/feeding grounds for:
 - 25 E&T species
 - 36 marine mammal species
 - > 1/4 million breeding seabirds
 - Significant white shark population

Two Big Questions...

1) How vulnerable to climate change are the resources that we manage?

2) What can we do to limit or reduce vulnerability?



Marine Sanctuaries Conservation Series ONMS-15-02

Climate Change Vulnerability Assessment for the North-central California Coast and Ocean



U.S. Department of Commerce National Oceanic and Atmospheric Administration National Ocean Service Office of National Marine Sanctuaries



May 2015

Back to our Objectives

1) How vulnerable to climate change are the resources that we manage?

2) What can we do to limit or reduce vulnerability?

Protect/Restore at the level of the habitat

Climate Adaptation Plan

GREATER FARALLONES NATIONAL MARINE SANCTUARY



Climate Adaptation Plan

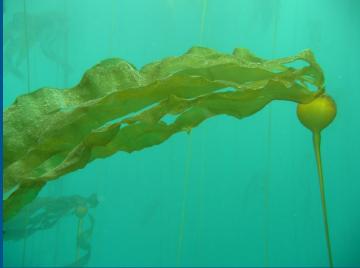
November 2016

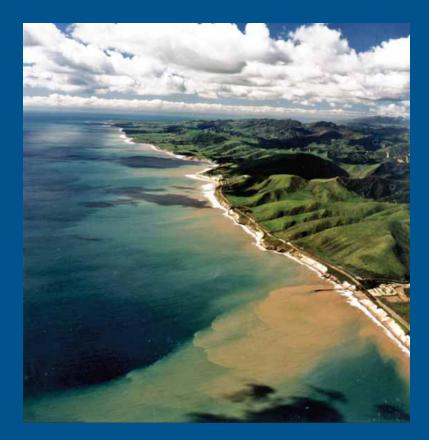
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE NATIONAL MARINE SANCTUARY PROGRAM



Climate Adaptation Priorities







Climate Program Storymap: outreach tool for partners, public, funders

Ocean Climate Program

From Learning about the Impacts to Implementing Actions

About

Action Areas

as Milestones

Capacity Building D.I.Y.

List of Action

Estero

Concept

Antonio Project Phase:

Concept

Community

Engagement

Duxbury Reef

Project Phase:

Concept

Community

Americano

Project Phase:

Community

Engagement

Estero de San

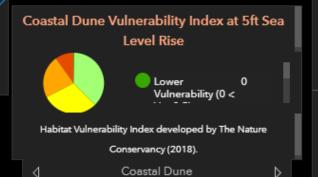
Engagement

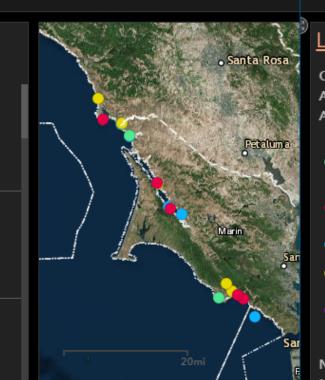
Areas

Action Areas: Impacts to Action

Map Details

The data presented in this map is a sampling of information used in determining where to focus climate adaptation efforts. Science-based, multi-year collaborative processes have informed the determination of action areas. In the <u>List of Action Areas</u>, click on each area to zoom the map to the specific location. A pop-up window with project details will display.





<u>Legend</u>

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Climate Adaptation Action Areas

> Communit Engageme Living Shoreline Research Restoratior

Sediment Manageme

National Marine

Thank you!

Contact: Sara.Hutto@noaa.gov 415-970-5253

http://farallones.noaa.gov/manage/climate

