



Council on Ocean Resources Meeting

July 1, 2021

Agenda

Welcome and Introductions

Mary Alice Evans, Director, Hawai'i Office of Planning (OP)

General ORMP Updates

Justine Nihipali, Planning Program Manager, Hawai'i Coastal Zone Management (CZM) Program

The Ocean Resources Management Plan (ORMP)

Implementation Updates
Full Council Discussion

2050 Sustainability Plan Overview

Yusraa Tadj, Project Analyst, OP-CZM Melanie Lander, Community Planning and Design Extension Agent, UH Sea Grant Keelan Barcina, Project Analyst, OP-CZM

Danielle Bass, State Sustainability Coordinator, Hawai'i Office of Planning (OP)

Next Steps

Justine Nihipali

Welcome & Introductions Department of Agriculture STATE OF HAWAII OF BINASI. ECONOCI GENERALIS CONCENTRATION & SOLIEN ASSESSMENT OF BINASI. ECONOCI GENERALIS CONCENTRATION OF BIN







































ORMP Updates

- Silver Jackets
- CZM Internal Strategic Planning Process
- Updated ORMP StoryMap

Updated ORMP StoryMap

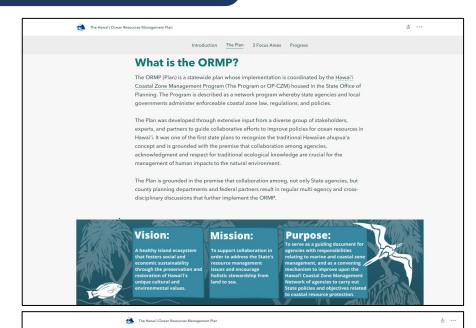


Aloha kākou! Welcome!

This Story Map is intended to give you a brief overview of Hawai'i's Ocean Resources Management Plan (ORMP).

The ORMP is aimed at preserving, restoring, and protecting our State's natural and cultural coastal and ocean resources. Check out the ORMP webpage and find the full version here.





Focus Area 1: Development & Coastal Hazards

GOAL: Develop a statewide integrated shoreline management strategy to address the compounding impacts to Hawai'i's shorelines from coastal development, climate change and sea level rise, erosion, and other chronic coastal hazards.

When the ocean interacts with the built environment, coastal processes can become coastal hazards that threaten coastal structures and community safety. Because much of the urbanization in Hawai'i has occurred in close proximity to the shoreline, management in our island state cannot address development and coastal hazards separately.

Challenges such as beach erosion, wetland loss, sinkhole formation, and structural damage have already changed the character of Hawai'i's shorelines, and many management gaps related to Development and Coastal Hazards remain to be addressed in the age of climate change.





ORMP Focus Area Implementation

Focus Area #1: Development & Coastal Hazards

Yusraa Tadj, Project Analyst, OP-CZM

Focus Area #2: Land-Based Pollution

Melanie Lander, Community Planning and Design Extension Agent, UH Sea Grant

Focus Area #3: Marine Ecosystems

Keelan Barcina, Project Analyst, OP-CZM

Full Council Discussion

Please be prepared to share:

- Thoughts and feedback on the implementation projects
- Specific tools, resources, staff, studies, etc. that might support projects
- Potential areas of overlap between your agency initiatives and implementation projects

Focus Area I: Development & Coastal Hazards

Goal: Develop a statewide integrated shoreline management strategy to address the compounding impacts to Hawai'i's shorelines of coastal development, climate change and sea level rise, erosion, and other chronic coastal hazards

Regional Shoreline Scoping Study

Current shoreline management: parcel-by-parcel process

HRS 226-109 Climate Change Adaptation Priority Guidelines

Act 45, SLH 2020 OP responsibilities includes sea level adaptation coordination



Varied Shoreline Management Approaches









Land-use and Infrastructure

Watershed Approach

Littoral Cells

Coastal Master Plan

Design

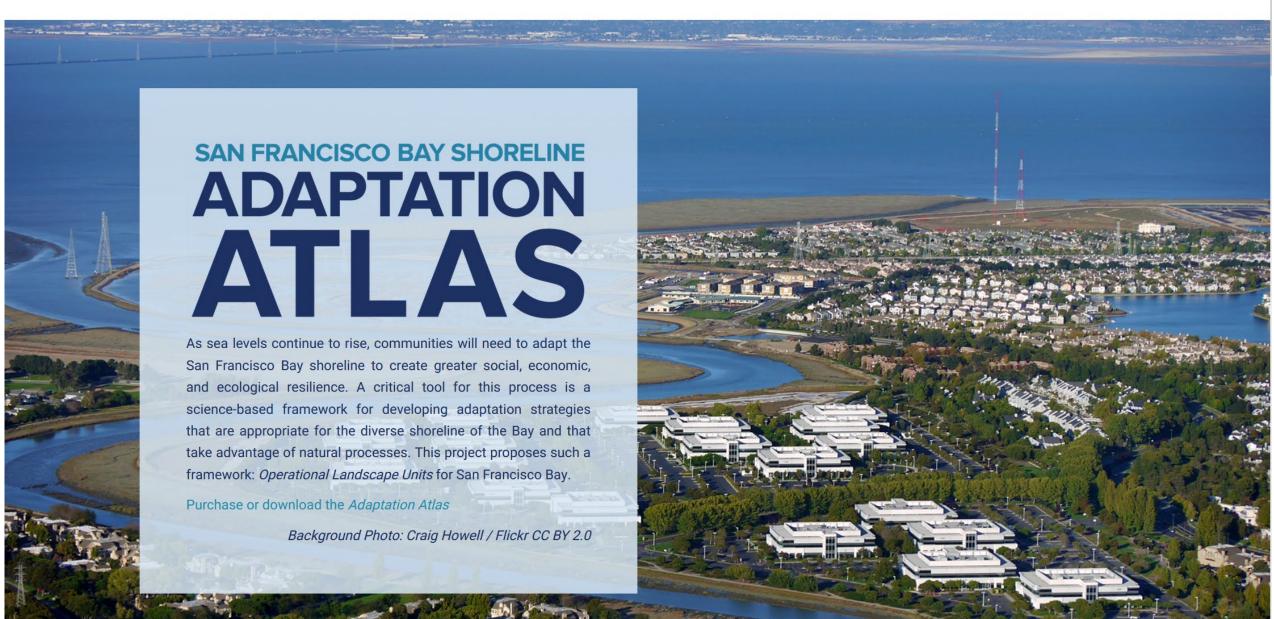
Planning

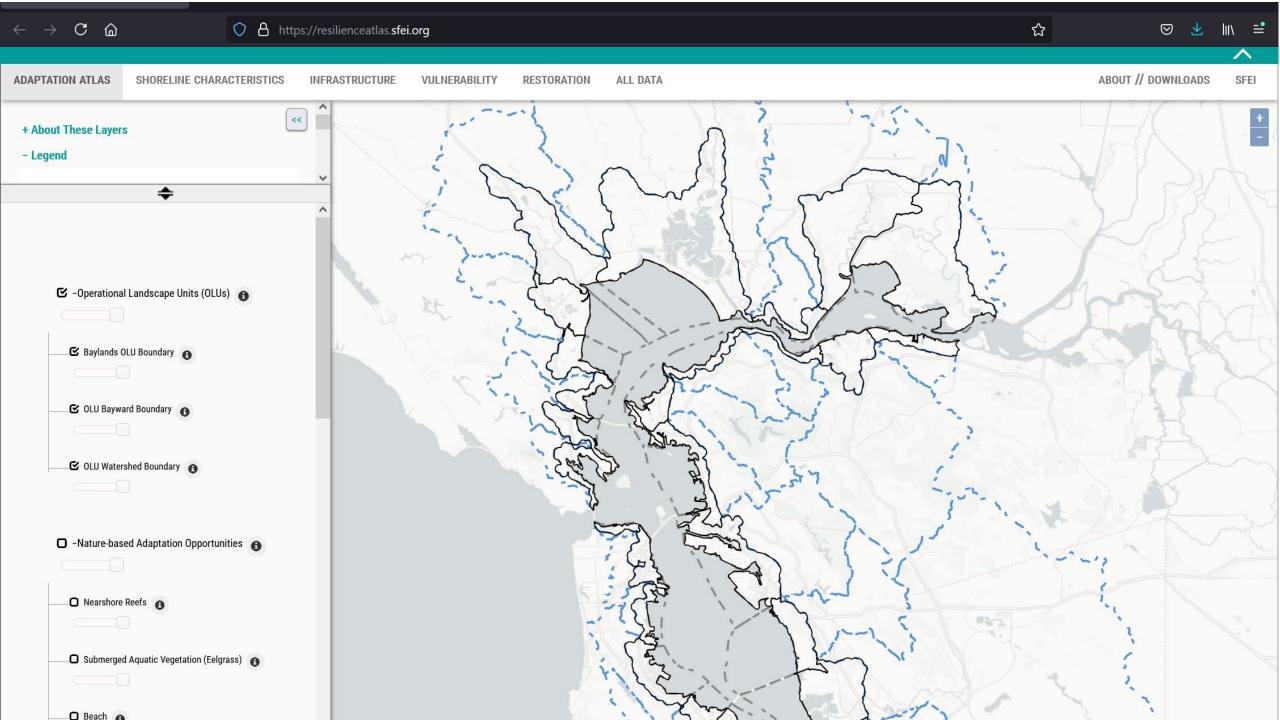
Systems / Sciencebased Approach

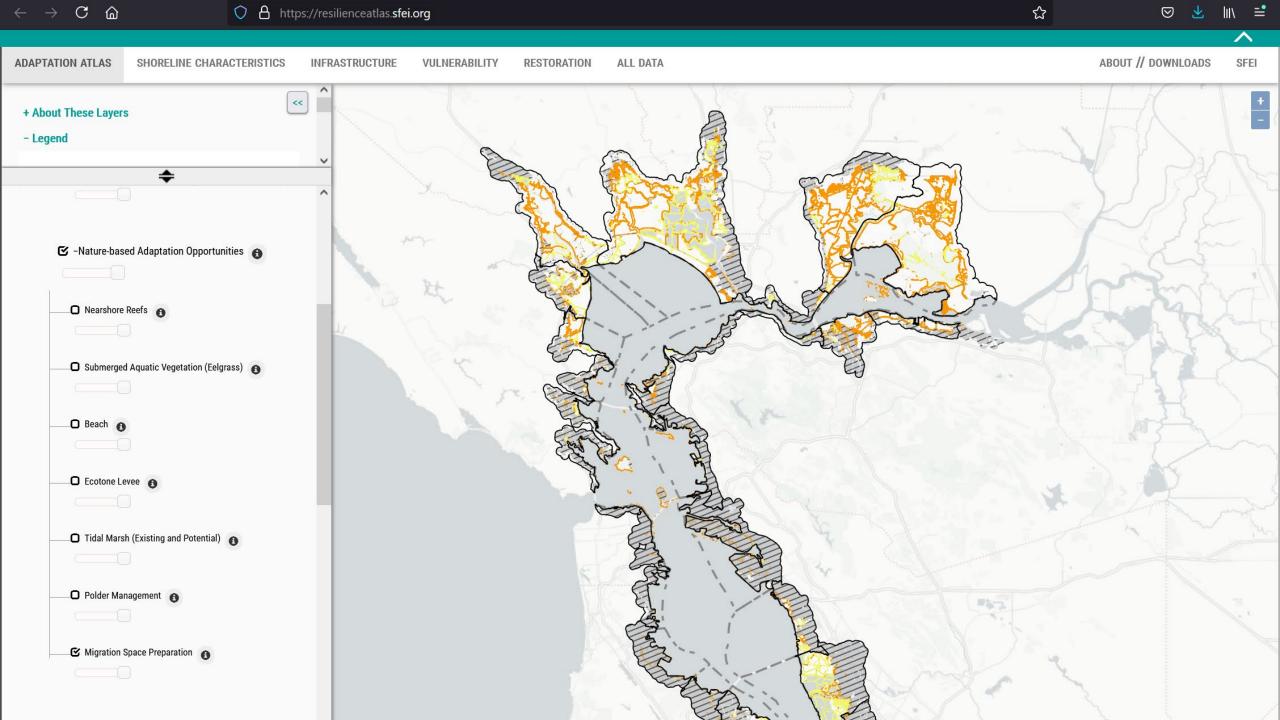
Scenario-based Planning

Codified Zoning













See Figure V-7 1) See Figure V-3 Lake Merced

Ocean Beach Master Plan Key Moves:

- KEY MOVE 1: Reroute the Great Highway behind the zoo via Sloat and Skyline Boulevards
- 2 KEY MOVE 2: Introduce a multipurpose coastal protection/ restoration/access system
- 3 KEY MOVE 3: Reduce the width of the Great Highway to provide amenities and facilitate managed retreat
- 4 KEY MOVE 4: Restore the dunes along the middle reach
- 5 KEY MOVE 5: Create a better connection between Golden Gate Park and Ocean Beach
- 6 KEY MOVE 6: Introduce bicycle and pedestrian improvements north of Balboa Street



Real Property

RICHMOND

Preliminary Phasing

Phase I (1-3 years)

- Develop detailed roadway configuration options
- Conduct traffic modeling
- > Implement striped bike lanes
- > Work with San Francisco Zoo to develop access plan

Phase II (4-10 years)

- Complete project EIR
- > Initiate capital planning
- > Reduce the Great Highway to two lanes south of Sloat
- Remove the Sloat parking lot but retain the restroom
- Provide temporary coastal access parking and trail in former southbound lanes
- > Begin zoo access reconfiguration

Phase III (10-20 years)

- Reconstruct and signalize Sloat Boulevard
- Complete zoo access reconfiguration and replacement parking
- Close and demolish the Great Highway south of Sloat
- Construct a new coastal access point at Sloat and Great Highway, including restroom
- > Construct a coastal trail

Benefits

- Creates a spectacular new coastal trail and continuous pedestrian connection
- Enables significant retreat from coastal erosion and more flexible infrastructure protection
- Results in major improvements to Sloat Boulevard design, with green infrastructure elements

Constraints

- Some traffic impacts, likely minor
- Requires reconfiguring zoo access
- Cost of roadway and intersection improvements

Outstanding questions

- > What is the nature of the traffic impacts?
- > What is the optimal configuration of Sloat Boulevard and adjacent intersections?

Next Steps

Conduct interagency circulation and access study, to include:

- Development of detailed roadway configuration options
- Detailed traffic analysis, to provide the basis for environmental review

Lead Agency: San Francisco Municipal Transportation Authority (SFMTA)

Partners: San Francisco Planning Department, San Francisco Recreation and Parks Department (SFRPD), San Francisco Department of Public Works (SFDPW)

Status: This study has been funded.

An interagency circulation and access study has been funded to confirm the anticipated minor traffic impacts of Key Move 1.

The main benefits of this proposal include the creation of spectacular new coastal amenities and the significant retreat it enables from coastal erosion.

The Golden Gate Littoral Cell Diagram

Legend

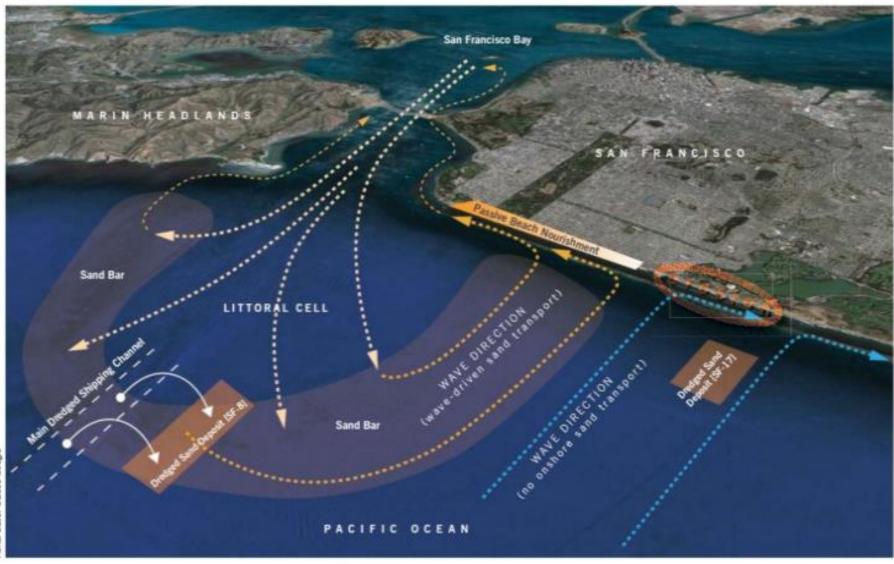
Maritime channel

Sand bar

Dredge material desposit.

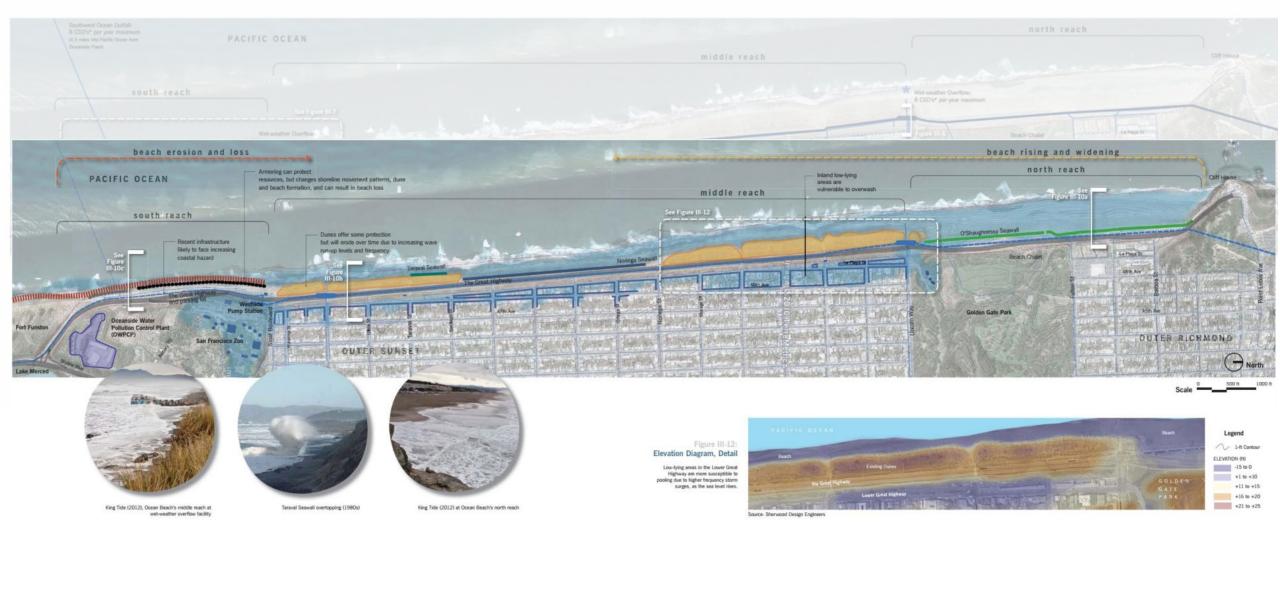
---> Wave direction with sand transport

Wave direction, no sand transport



Aerial Base: @2010 Goodle





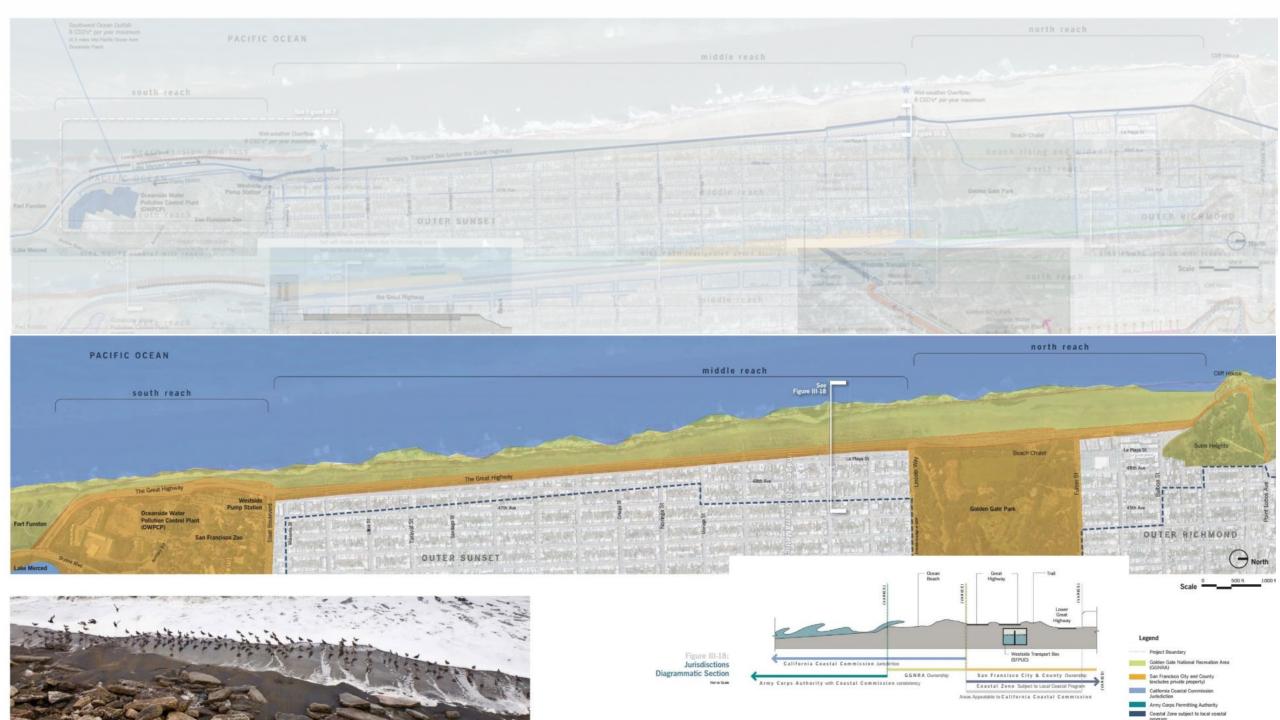


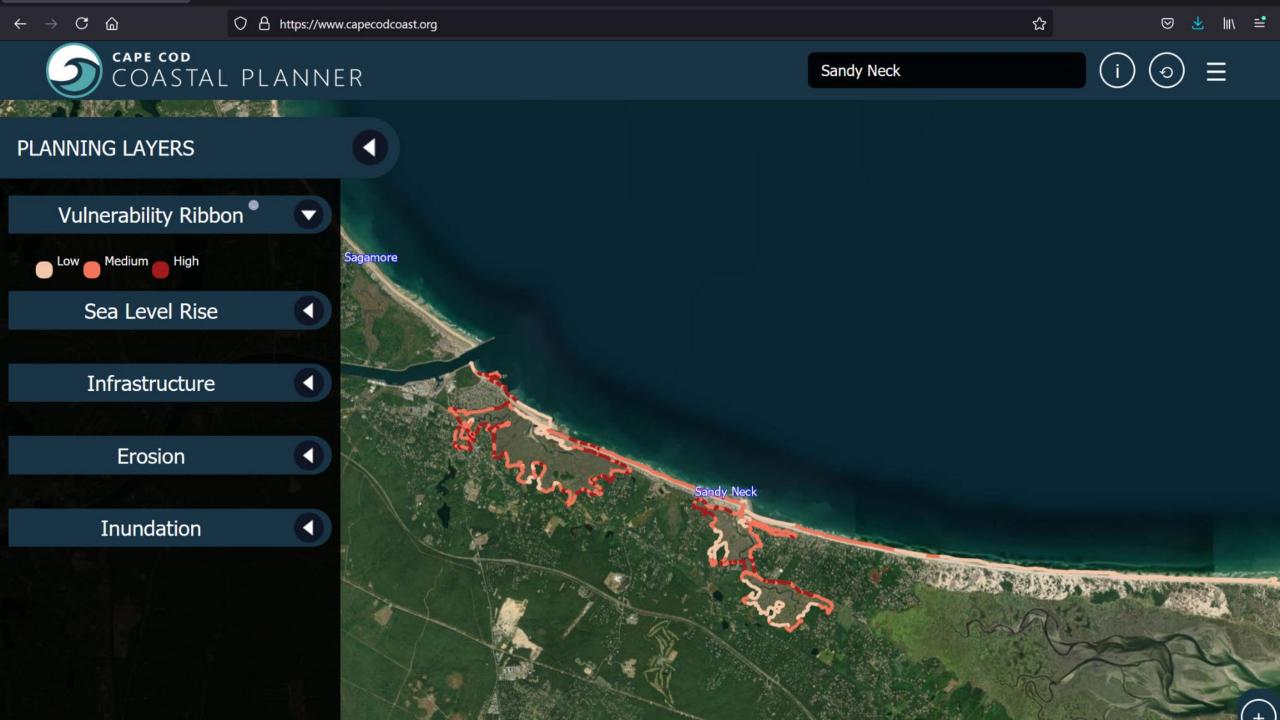
Existing Parking Spaces

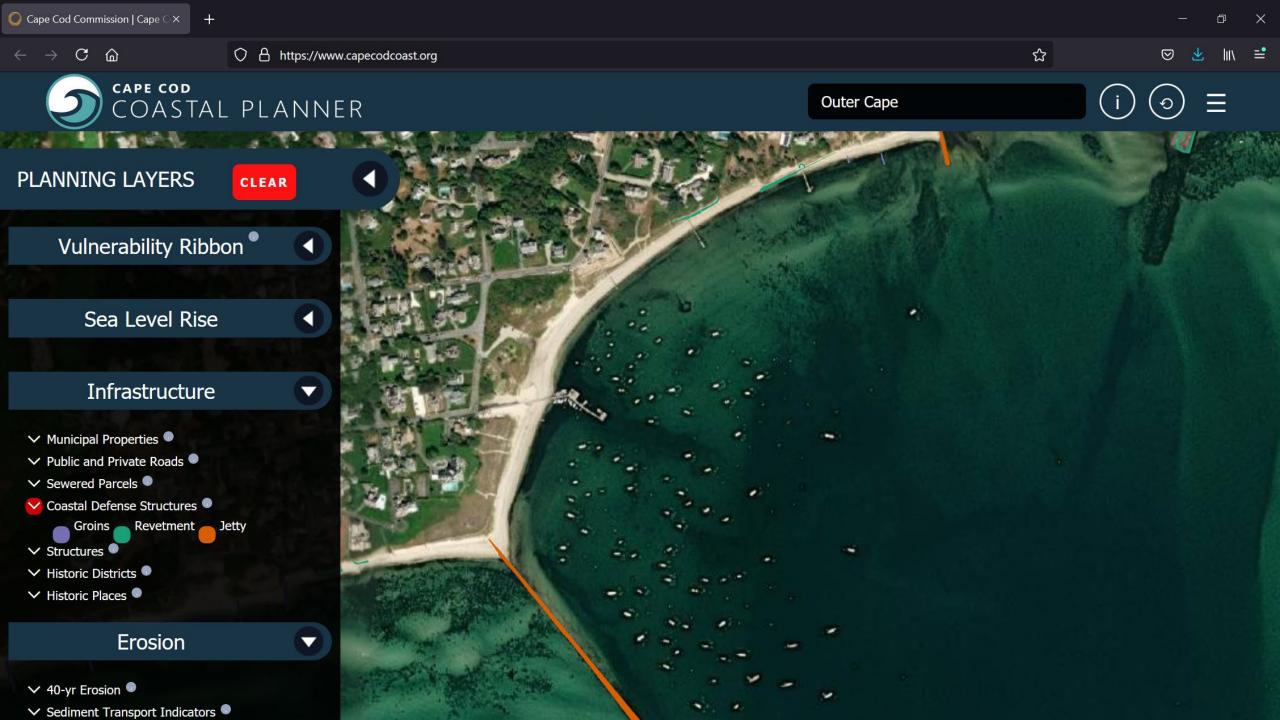
LOCATION	AMOUNT	TOTAL
OWPCP Parking	135	
Great Highway Parking Lot 1	55	
Great Highway Parking Lot 2	55	
Street Parking on Sloat Boulevard	369	
San Francisco Zoo Parking Lot	459	1,679
Golden Gate Park Parking Lot	125	1,679
O'Shaughanessy Promenade Lot	166	
Street Parking at Cliff House	125	
Land's End Parking Lot	134	
Point Lobos Avenue Parking Lot	56	













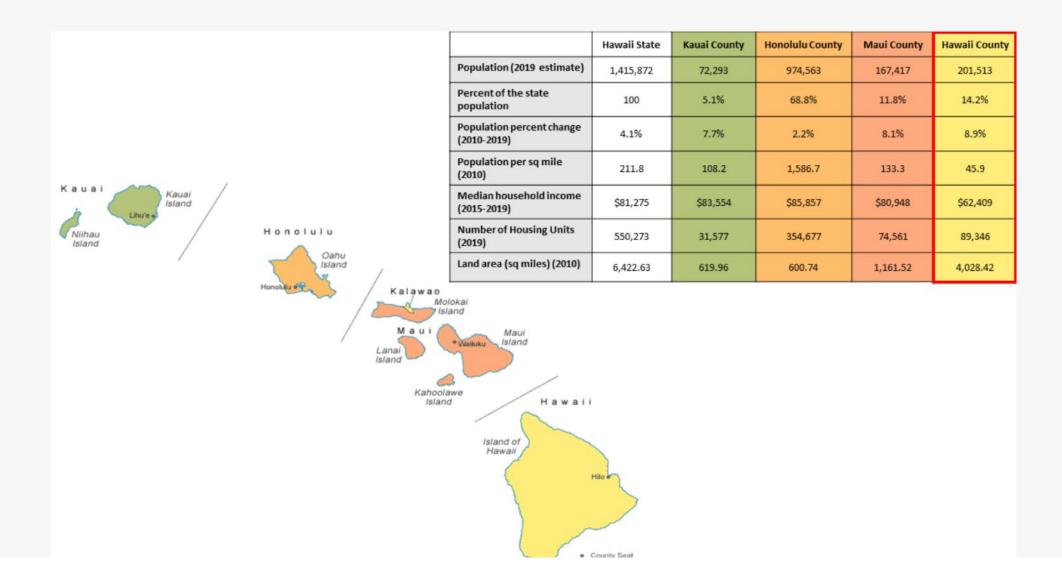
Overview

City & County of Honolulu

Maui County

Hawai'i County

Demographic Statistics:





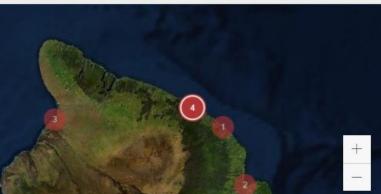
Moloka'i Island

The island of Moloka'i has about 142 km of shoreline, and was formed by two different shield volcanoes. These two shields, which make up the eastern and western sides of the island, vary dramatically in their climates and topography.

The **north coast of Central Moloka'i** is characterized by dry sandy shorelines near Mo'omomi, and rough waters and sea cliffs along the Ho'olehua coast.

Kalaupapa Peninsula, on the **North Coast**, is a broad coastal plain with sandy shores on the western side and sea cliffs on the eastern side. East of the peninsula, lush, steep sea cliffs and coastal ridges and valleys extend to Hālawa. (Note: Kalawao County, which encompasses Kalaupapa Peninsula, is a non-self-governing county.)

Past Hālawa, the **East End** is comprised of rocky shoreline. As the coast becomes more south-facing, it transitions into sandy beaches interspersed with large sections of wetlands and mudflats. This region,



Shoreline and Riparian Setback Analysis

As the youngest Hawaiian island, and with active volcanoes, the coastline of Hawai'i Island is both unique and constantly changing. Unlike the other islands, Hawai'i Island does not have a comparative, foundational erosion study. To fill this gap, the County Planning Department is conducting a study to quantify historic shoreline change rates and determine typology-specific hazard assessments. These findings will contribute to science-based shoreline and riparian setbacks to minimize impacts to and from development.

Funding for this project was provided by OP-CZM pursuant to National Oceanic and Atmospheric Administration Award No. NA18NOS4190082.



HB 243

Identify existing & planned facilities vulnerable to SLR, flooding impacts and natural hazards

Assess a range of options to mitigate SLR impacts to those facilities

Submit annual reports to the Governor, Legislature and HI Climate Commission regarding vulnerability & adaptation assessments, and the progress made in implementing SLR adaptation in future plans, programs and capital improvement needs and decisions

Focus Area 2: Land-based Pollution

Focus Area 3: Marine Ecosystems

Discussion Prompts

- Related studies, resources, tools, etc.
- Existing efforts or initiatives with potential nexus
- Staff contacts with related experience or knowledge
- Considerations as we implement projects

	Focus Area 1: Development & Coastal Hazards	Focus Area 2: Land-Based Pollution	Focus Area 3: Marine Ecosystems
Current OP projects	Regional Shoreline Management Scoping Study	Framework for land- based pollution in Hawaii	Supporting DAR's 30x30 Initiative
MACZAC feedback	Increased communication and outreach on coastal hazards & risk	Clarity on jurisdictional responsibilities and connectivity; Identify leads for ORMP projects	Inclusion of muliwai; Partnerships with land-based entities
Specific requests for support/feedback	Within your department's jurisdiction, what scale do you use for managing resources?	How would you describe your agency's role in the management of land-based pollution?	General feedback

Hawai'i 2050 Sustainability Plan: Charting a Course for the Decade of Action (2020-2030)

Mahalo!

http://planning.hawaii.gov/czm

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