MONTEREY BAY
LIVING SHORELINE PROGRAM

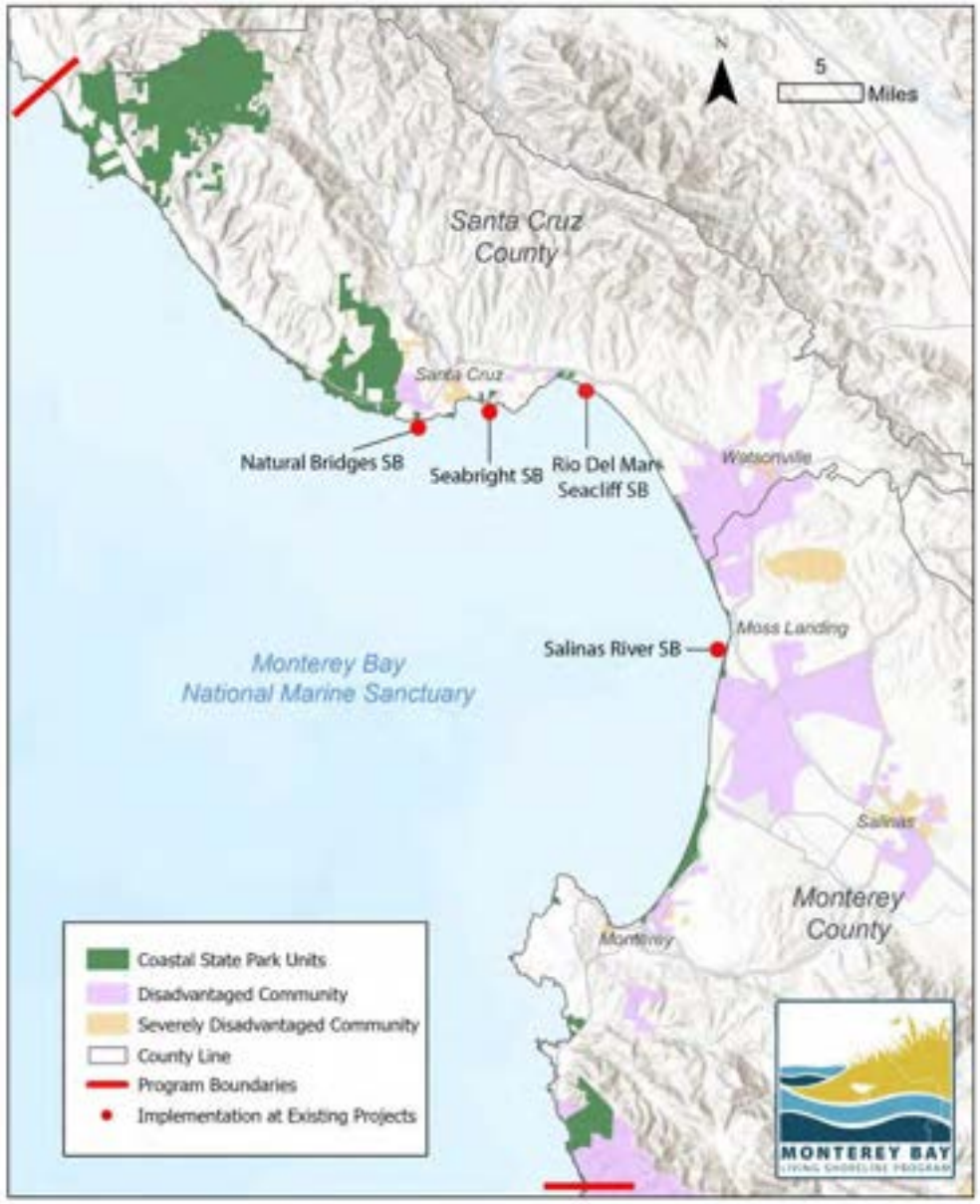
Growing Nature at Scale: A Regional Approach to Living Shorelines along Monterey Bay

CALIFORNIA STATE PARKS SINCE 1864

CCWG Central Coast Wetlands Group

groundswell coastal ecology

CMSF



The Monterey Bay Living Shorelines Program works to increase the pace and scale of nature-based solutions that enhance coastal resilience and biodiversity along the Monterey Bay shoreline.

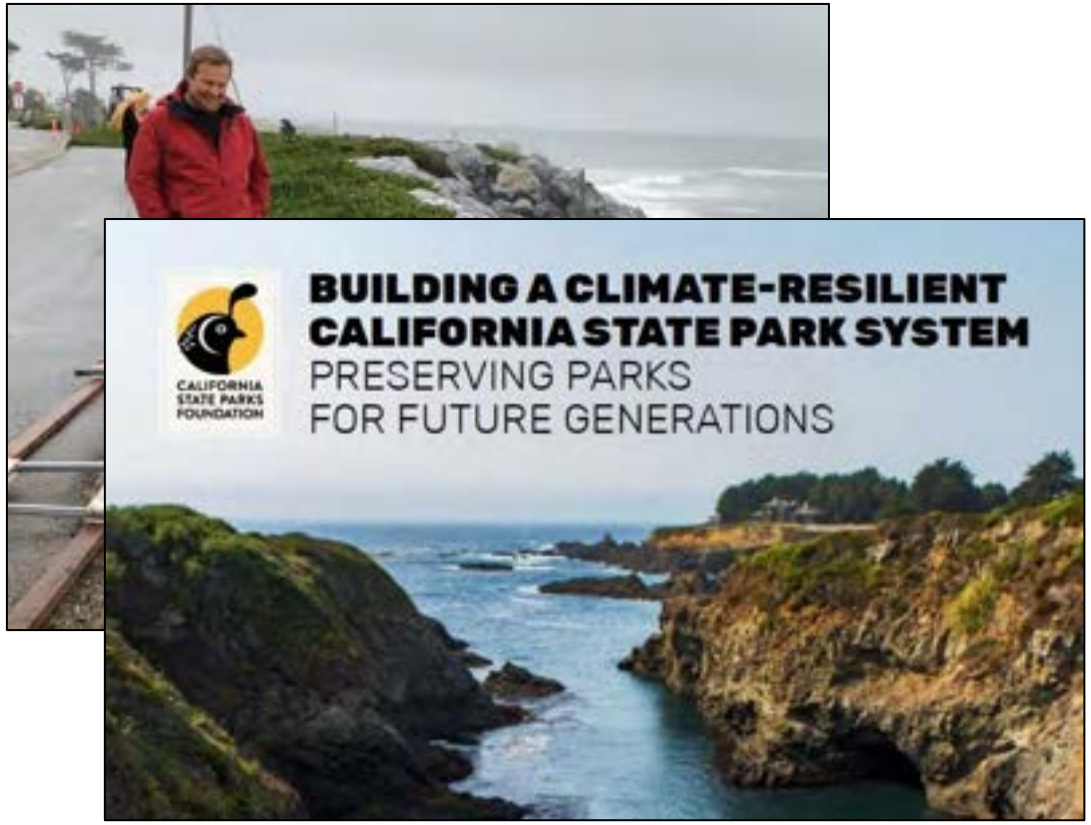
History

2019 – Collaboration

History

2019 – Began Collaboration

2022 – Develop Framework



History

2019 – Began Collaboration

2022 – Develop Framework

2023 – Phase I

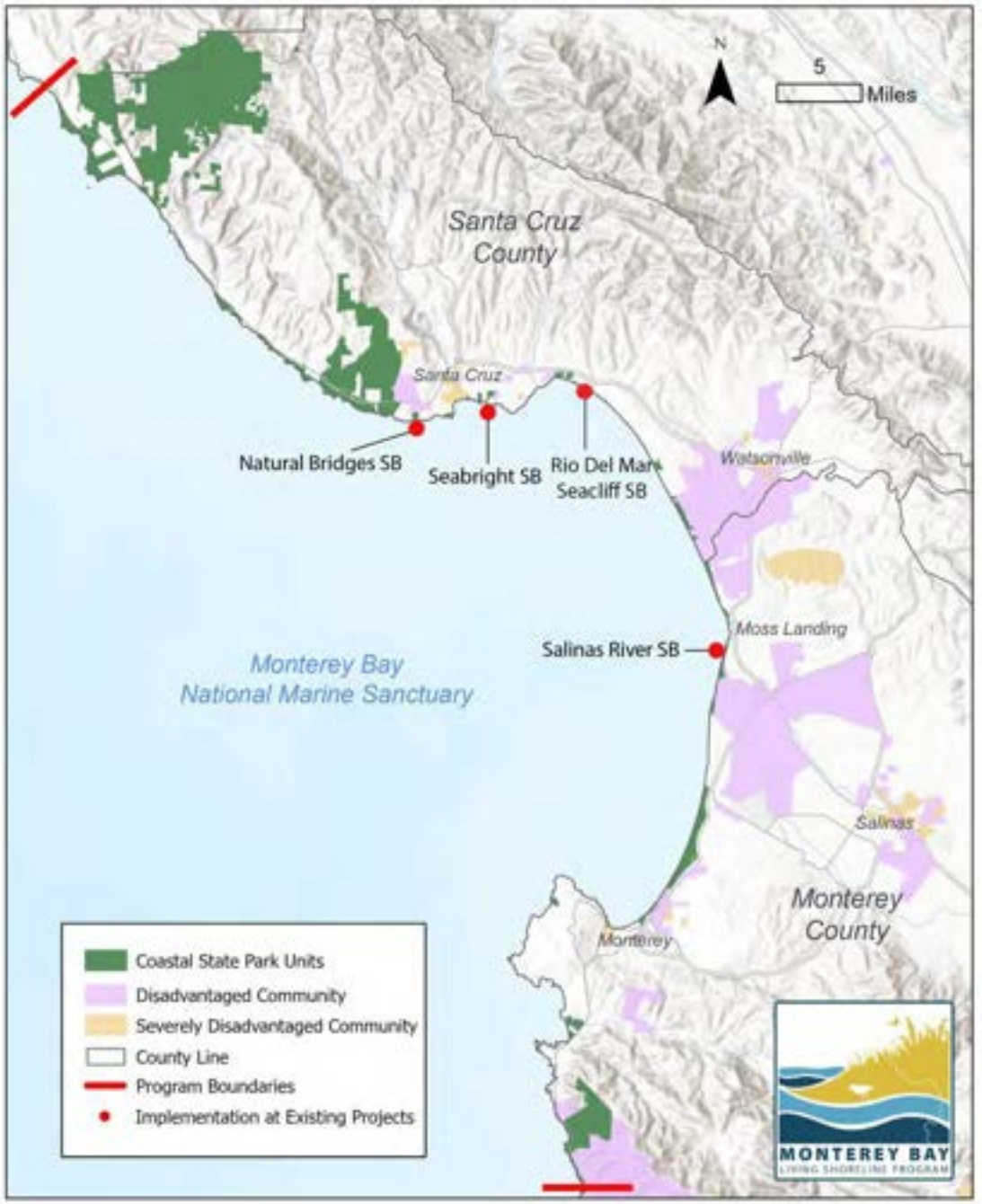
Coastal Conservancy

CALIFORNIA STATE PARKS FOUNDATION

Approach

Phase I
- Implement at Existing Sites
- Prioritization
- Outreach
- Monitoring
- Design

Phase II
- Design/Permitting
- Implementation
- Monitoring



Phase I – Implementation

Natural Bridges State Beach

- Decrease erosion/dune transgression
- Dune & strand restoration
- Biodiversity enhancement
- Stewardship

Phase I – Implementation

Seabright, Twin Lakes State Beach

- Dune restoration
  - Excess large woody debris (LWD)
  - LWD palisades

Phase I – Implementation

Seabright, Twin Lakes State Beach

- Concerns re space for beach goers
- Pivot → address bluff erosion
- Biodiversity/invasive species

Phase I – Implementation

Salinas River State Beach

- Reduce dune erosion
- Slow aeolian transgression
- Blowout migration
- Enhance biodiversity
- Stewardship

Phase I – Implementation

Rio Del Mar, Seacliff State Beach

Stop foredune scarping and recession

- 2018 – planting
- 2022 – LWD palisade
- 2023/2024 – LWD FEMA
- 2025 – dune planting

Phase I – Implementation

Rio Del Mar, Seacliff State Beach

2025 – 2026 Winter

Nov 6

Dec 17

Jan 6

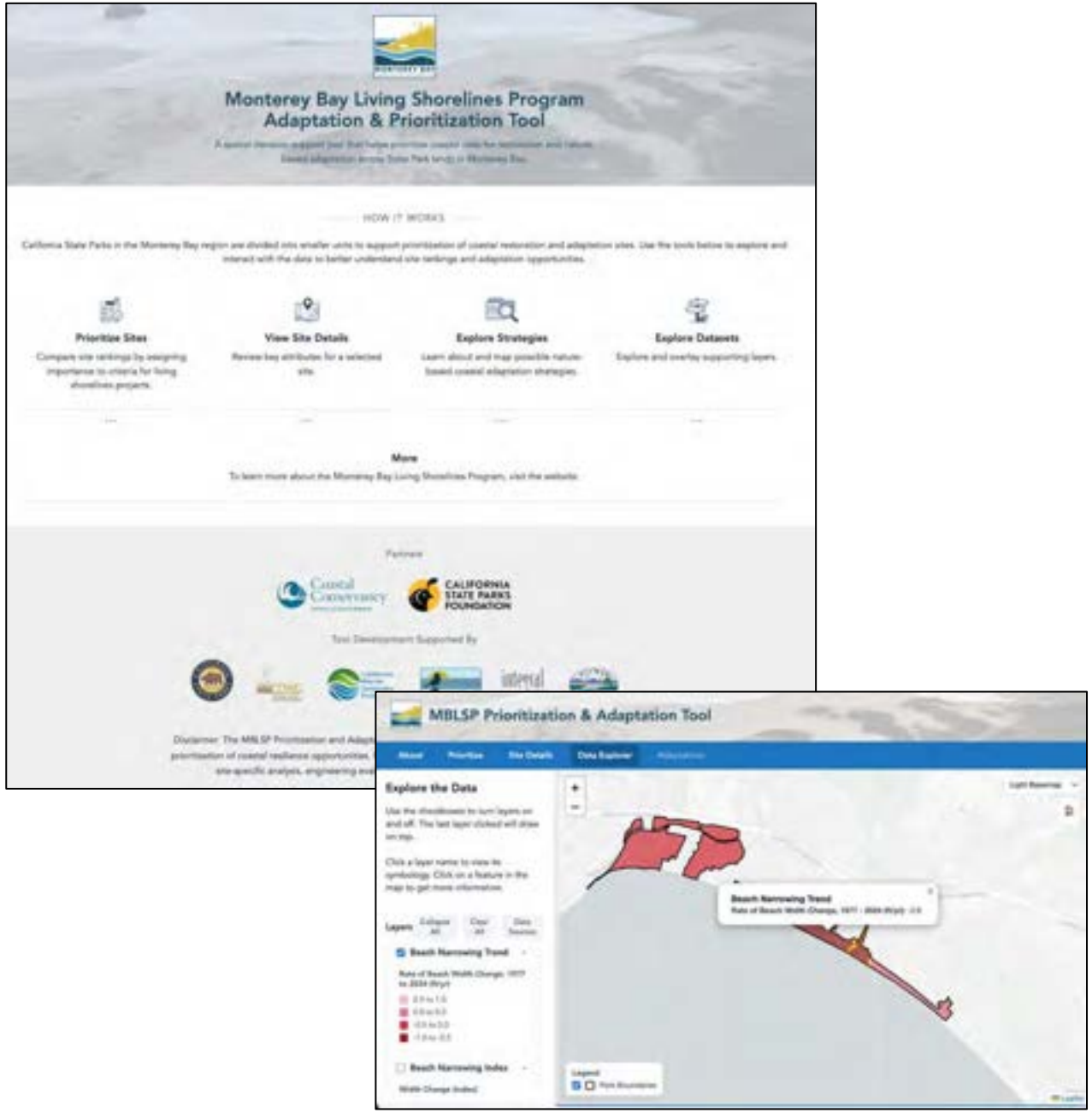
North Dune

South Dune

Phase I

Prioritization

- Catalog Assets
- Vulnerability assessment
- Prioritize
  - Themes:
    - Persistence/Resilience
    - Ecological Integrity
    - Access for all
    - Restoration Opportunity



Phase I

Outreach

- Survey (532 Responses)

Visitor Priorities

1.Access to nature
2.Availability of recreation opportunities
3.Availability of facilities (Bathrooms, parking, picnic area)
4.ADA Accessibility

Visitor Priorities: Importance of Activities

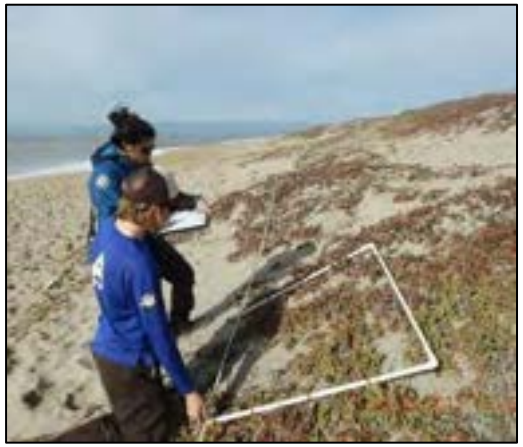
1.Connecting with nature
2.Wildlife watching (Bird, whale, etc.
3.Walking / hiking/ running
4.Seeking solitude and/or tranquility

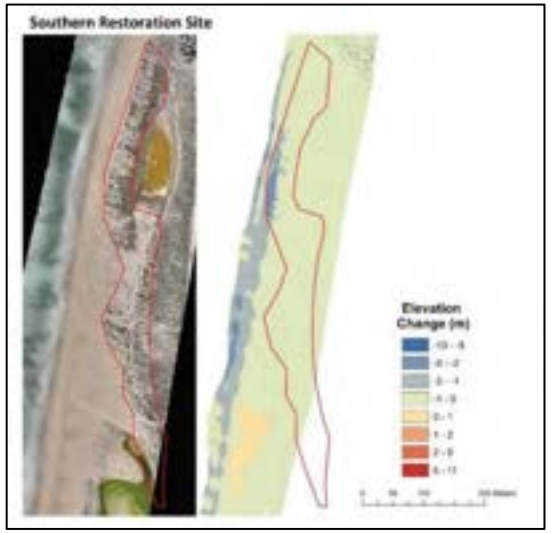
- Stewardship days
- Public workshops @ sites

Phase I

Monitoring

- Dune Rapid Assessment Method
  - Camille Coriell's Poster this evening
- CRMB Monitoring Program
  - Paige Siegel's Lightning talk tomorrow





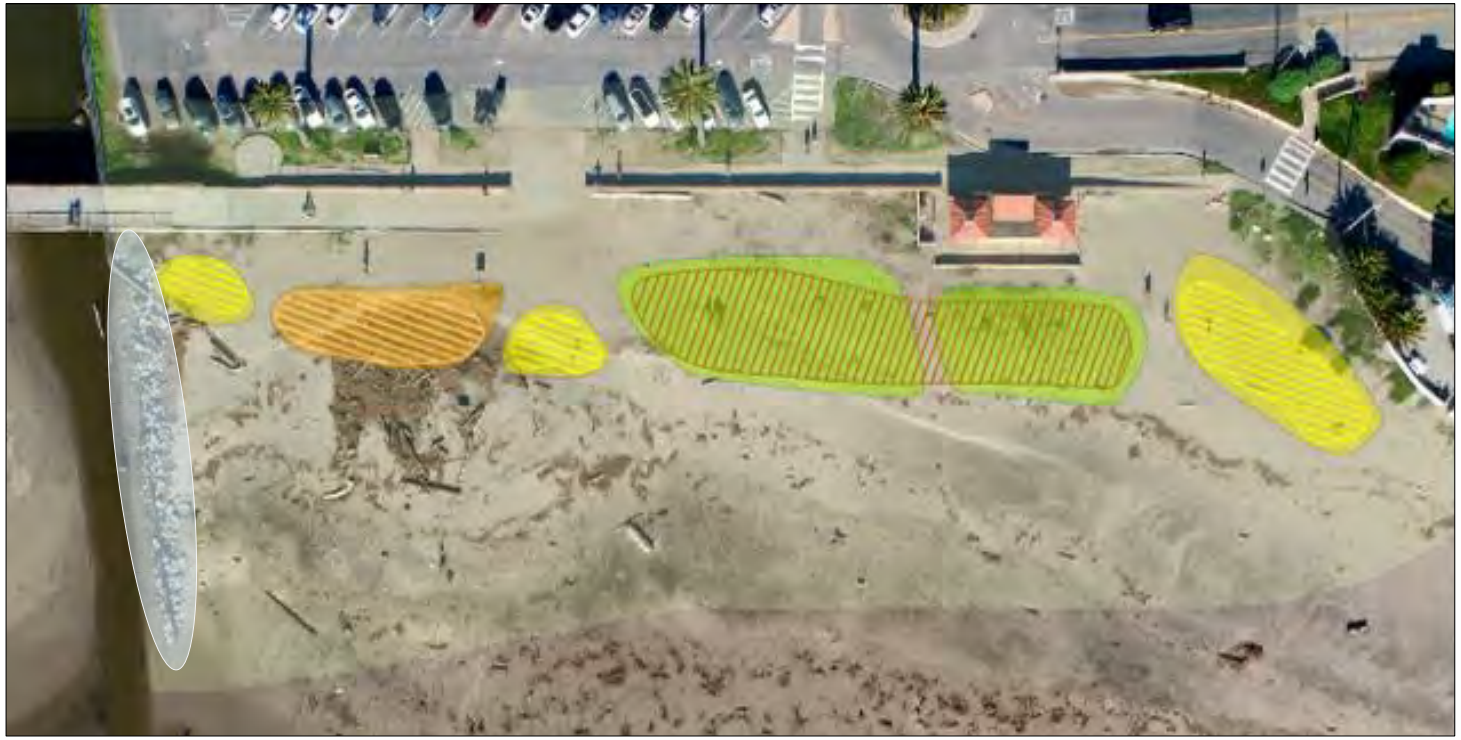
Climate Resilient Monterey Bay Regional Monitoring Program

Phase I

Design (30%)

Rio Del Mar, Seacliff SB

- LWD palisade
- Cobble?
- Outlet training wall – timber crib jetty maintenance?



Phase I

Design (30%)

Main Manresa SB

- LWD palisade
- Embedded log mat road
- Bluff layback

Phase I

Design (30%)

Palm SB

- Invasives – European dune grass/iceplant
- Trail realignment
- Dune Restoration
- LWD

Phase I

Design (30%)

Zmudowski SB

- Historical disturbance
- Aeolian transgression and blowout migration
- Sand redistribution stabilization (LWD, sand fencing, path realignment, restoration)

Phase I

Design (30%)

North Jetty – Moss Landing State Beach

- Access compromised
- Address stormwater runoff
- Timber crib wall(s)
- Dune recontour and wetland restoration
- Dredge spoil reuse

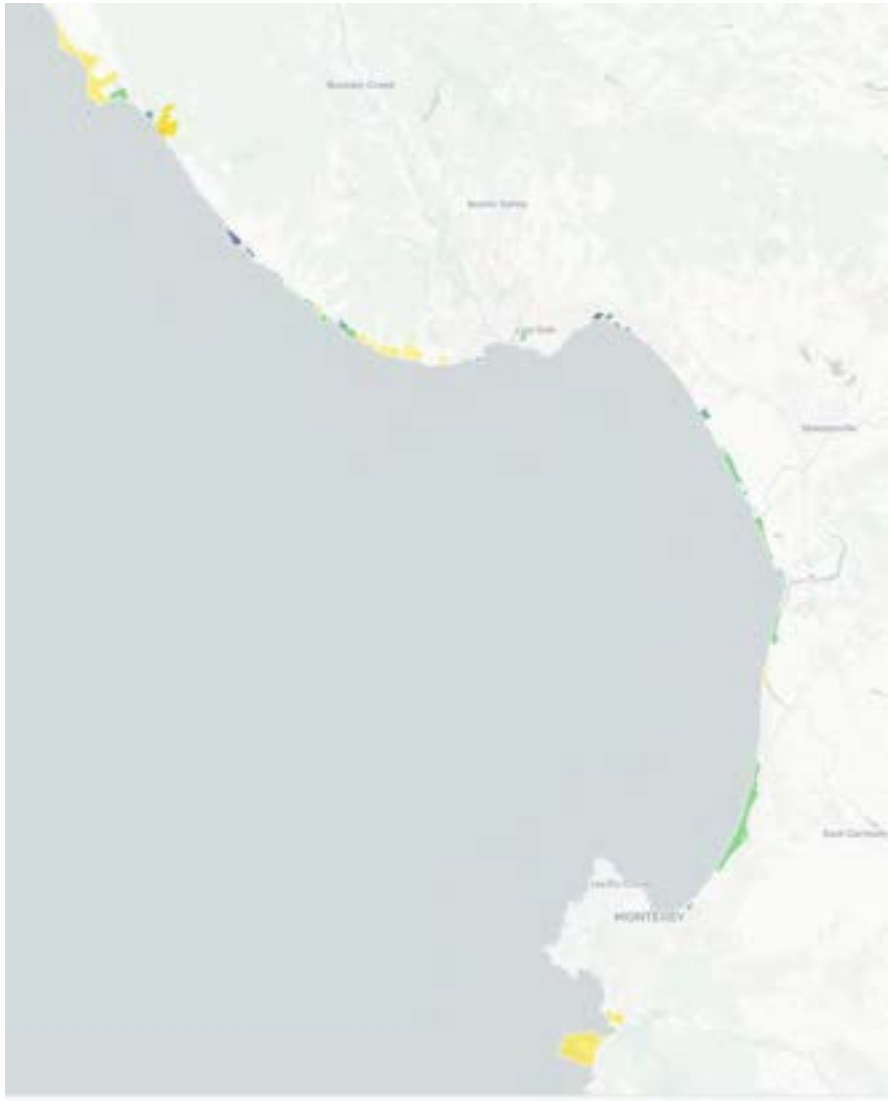
Phase II

NOAA CRMB - Climate Resilient Monterey Bay

- 100% Design/Permitting
- Implementation
- Monitoring

Next Steps & Scaling the Program

- Fill in the Gaps - Counties & Municipalities
- Vision: Model for Regional Implementation of NbS scaling in California



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LIVING SHORELINE PROGRAM

CALIFORNIA STATE PARKS SINCE 1864

CCWG central coast wetlands group

groundswell coastal ecology

CMSF

integral consulting inc.

Coastal Conservation & Research, Inc.

integrated ecology biodiversity in practice

SCCWRP Established 1969

NOAA

CLIMATE RESILIENT MONTEREY BAY

Coastal Conservancy

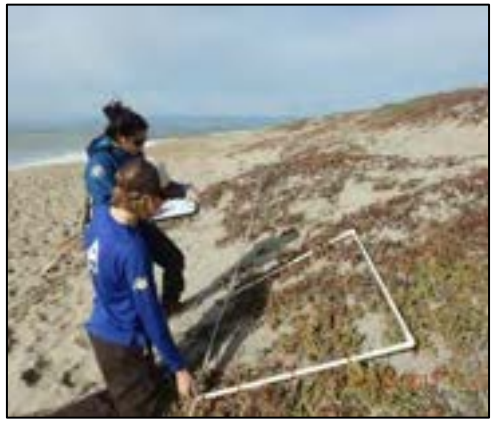
CALIFORNIA STATE PARKS FOUNDATION

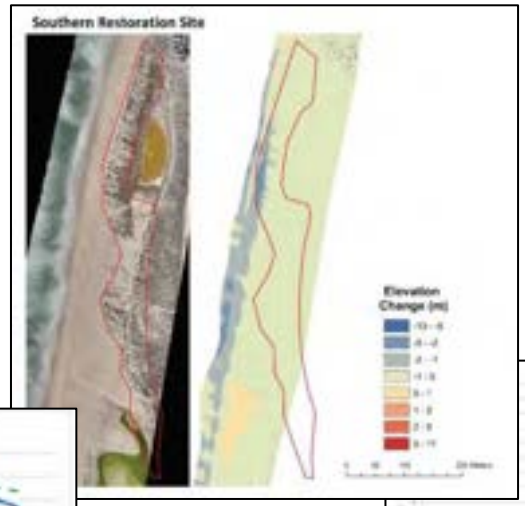
ADDITIONAL SLIDES

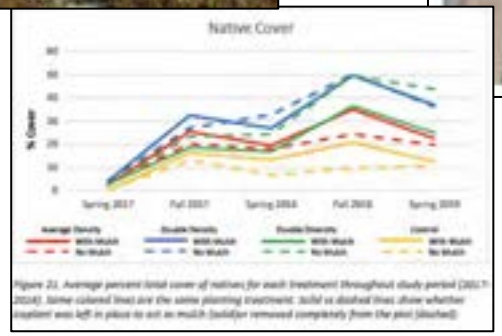
History

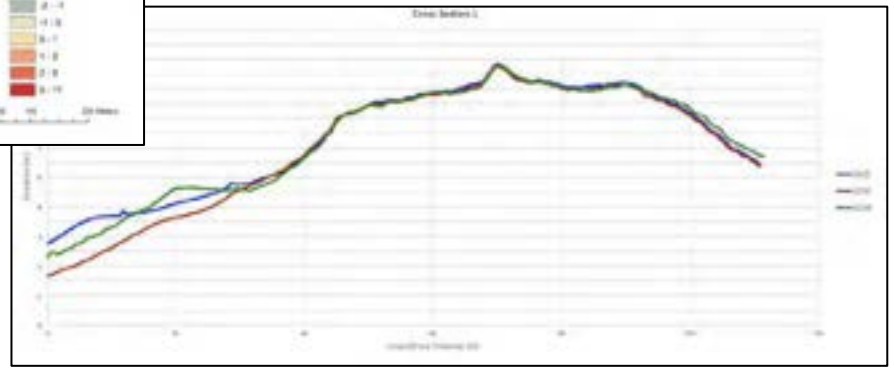
2015 – 2020 – Salinas River SB, Morro

Coho, Estuaries Statewide



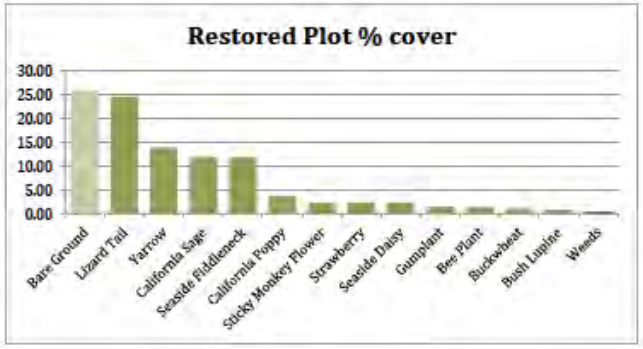


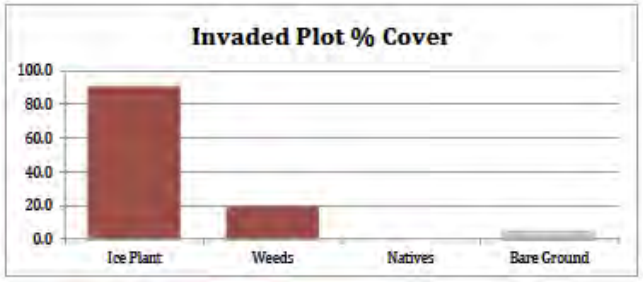


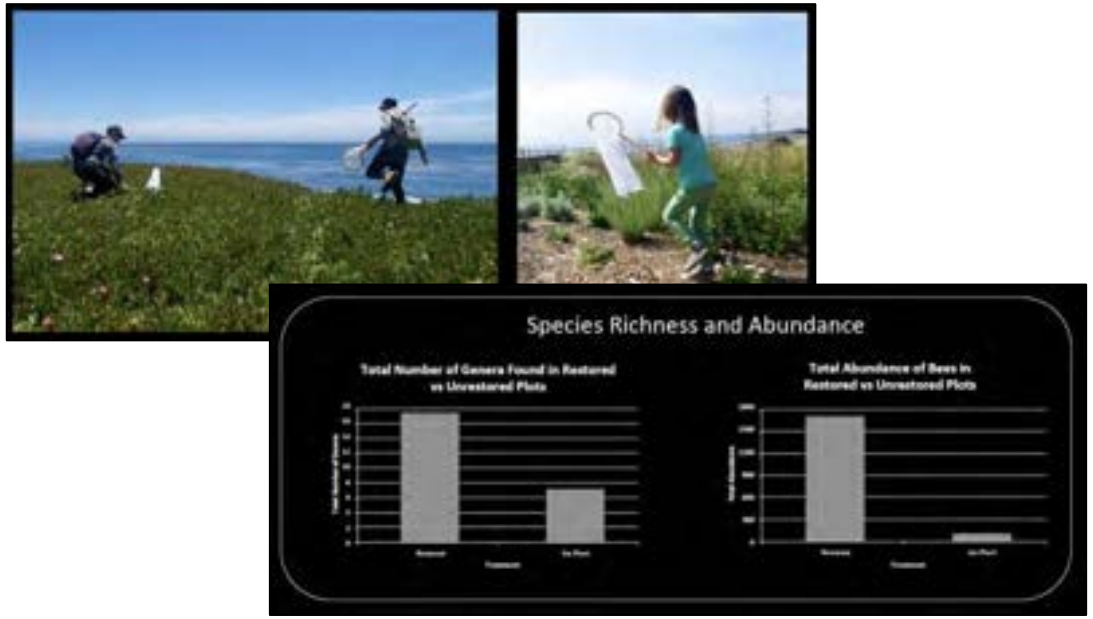


History

2015 – 2020 – Twin Lakes SB, Natural Bridges SB, Wilder Ranch SP, Lighthouse Field SB, Seacliff



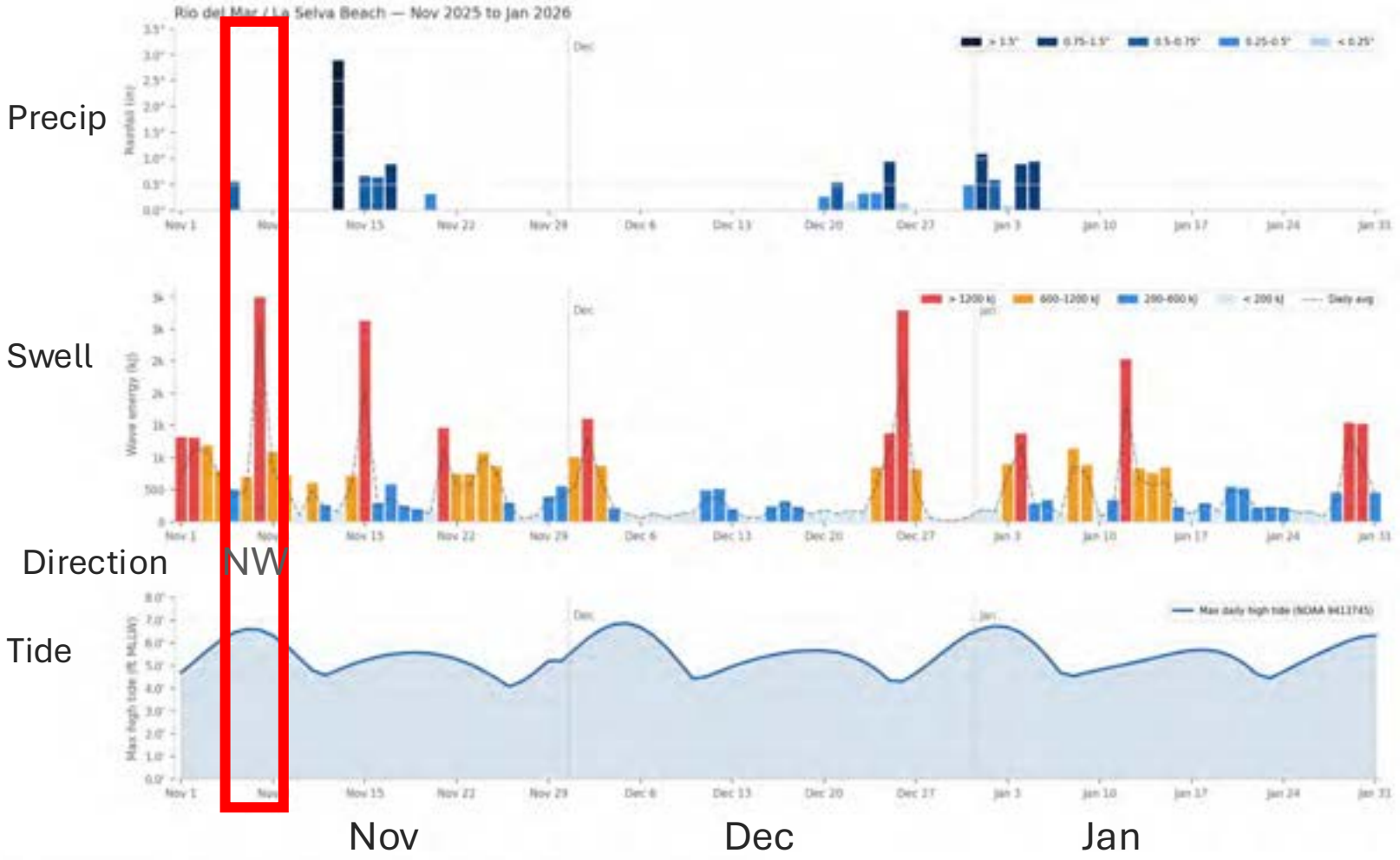




Phase I – Implementation

Rio Del Mar, Seacliff State Beach

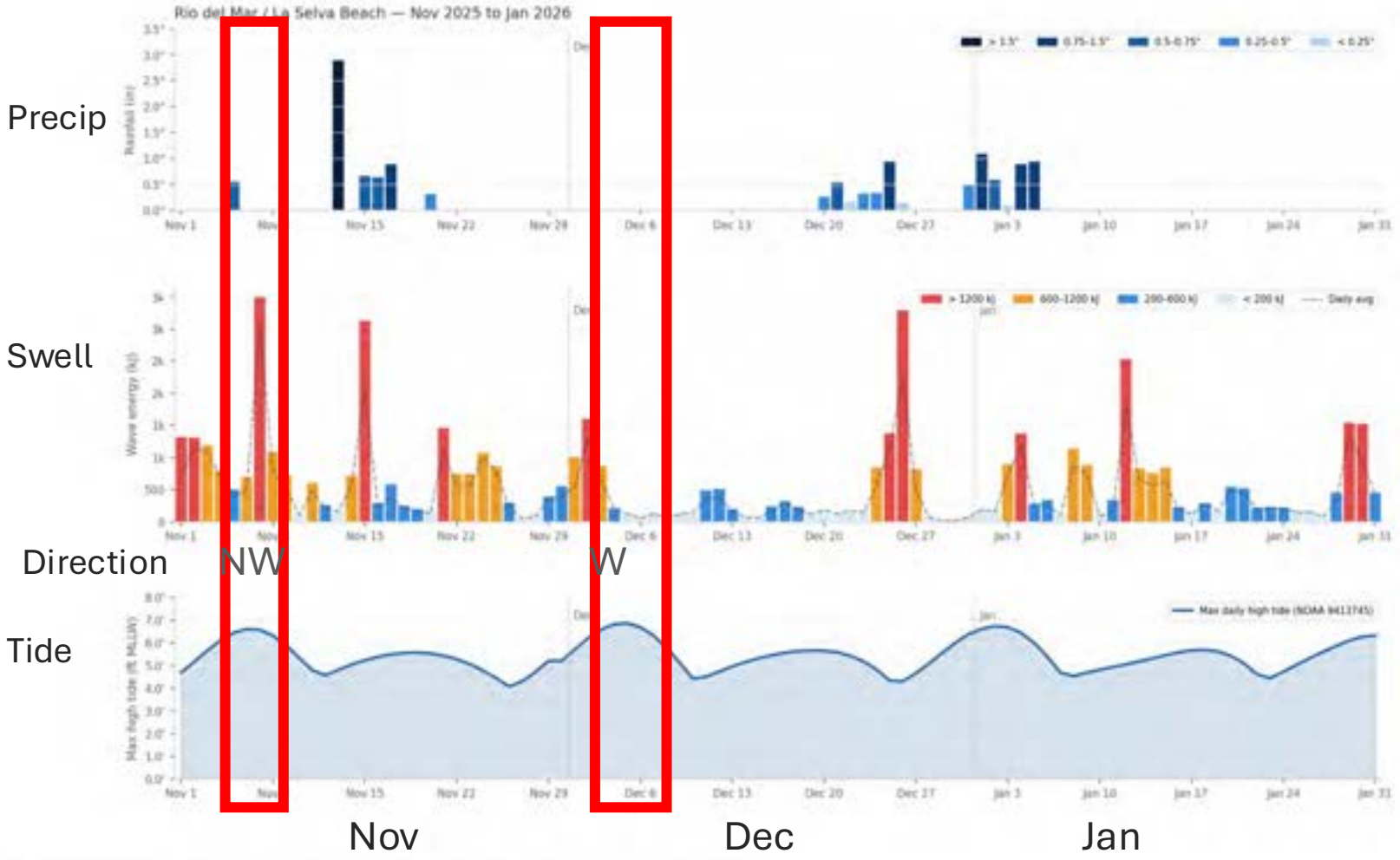
2025 – 2026 Winter



Phase I – Implementation

Rio Del Mar, Seacliff State Beach

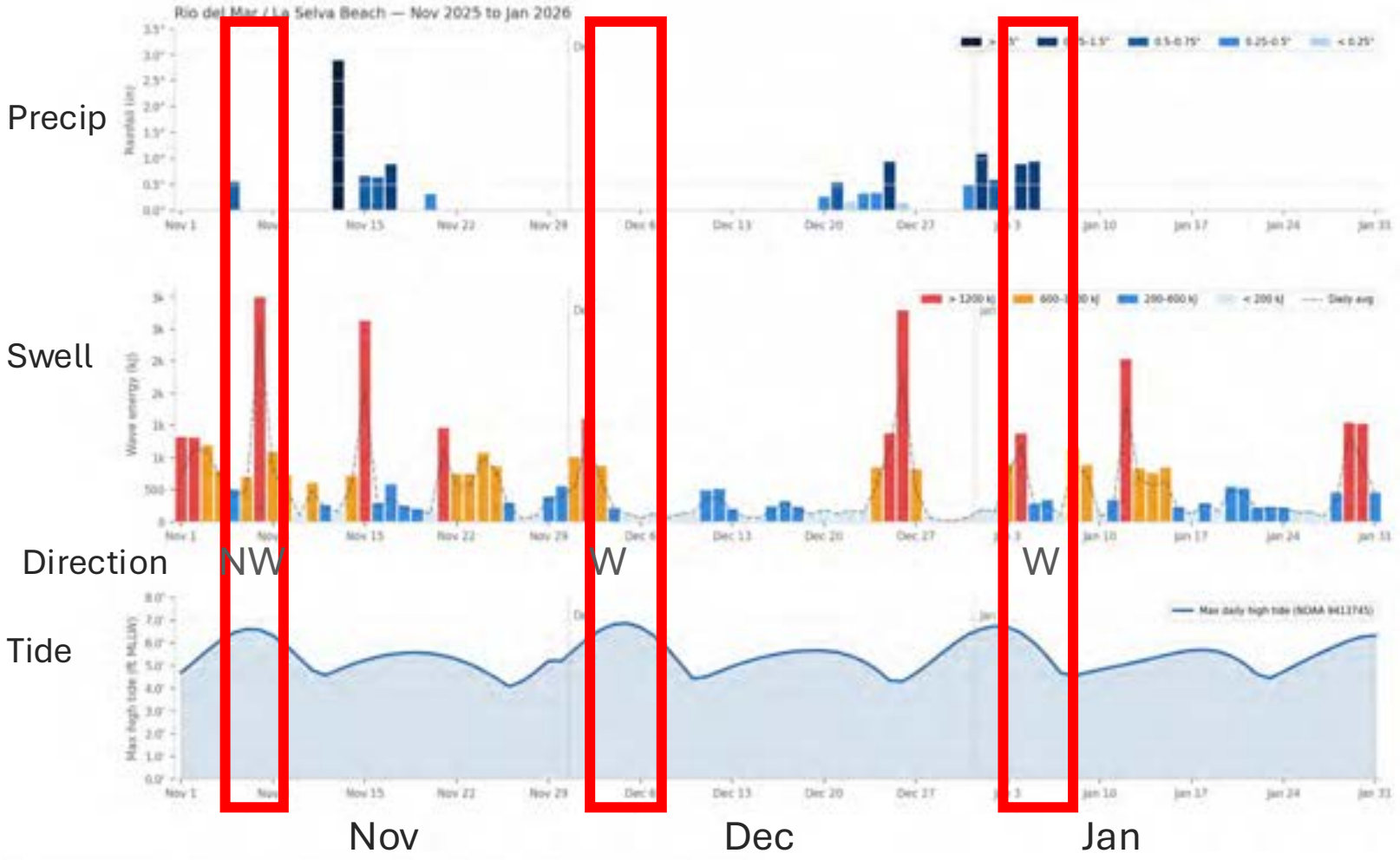
2025 – 2026 Winter



Phase I – Implementation

Rio Del Mar, Seacliff State Beach

2025 – 2026 Winter



Phase I – Implementation

Natural Bridges State Beach

- Dune migration