Monitoring for a Changing Coast: Climate Resilient Monterey Bay Regional Monitoring Program

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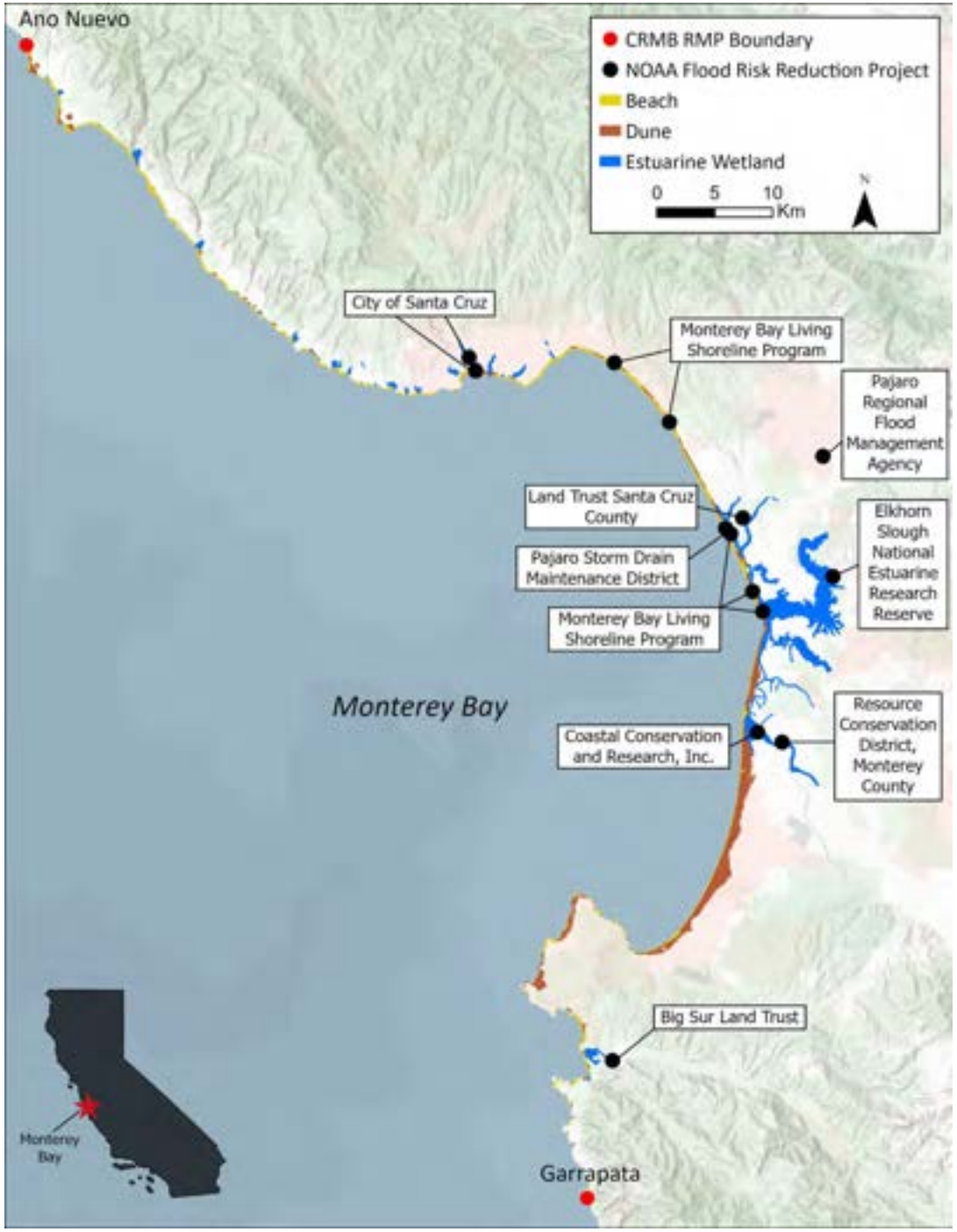
Monitoring in Monterey Bay

- Challenge: Monitoring efforts are disparate
- Opportunity: NOAA Climate Resilience Regional Challenge
  - $71M over 5 years
  - Climate Resilient Monterey Bay
  - Expand beyond this effort!

NOAA → California Marine Sanctuary Foundation → CLIMATE RESILIENT MONTEREY BAY



Climate Resilient Monterey Bay Regional Monitoring Program (CRMB RMP)

Coordinated monitoring effort designed to assess the extent, condition, resilience, and human dimensions of estuarine wetlands and dunes in the Monterey Bay region

Regional Monitoring Program (RMP) Components

MAP COASTAL WETLANDS & DUNES

MONITORING PLAN

DATA MANAGEMENT PLAN

IMPLEMENTATION GUIDELINES

CRMB RMP is currently under development!

Existing Monitoring Efforts

San Francisco Wetlands RMP

Southern California Wetland Recovery Project RMP

SOUTHERN CALIFORNIA
WETLANDS
RECOVERY
PROJECT

Estuary Marine Protected Area (EMPA) Monitoring Program

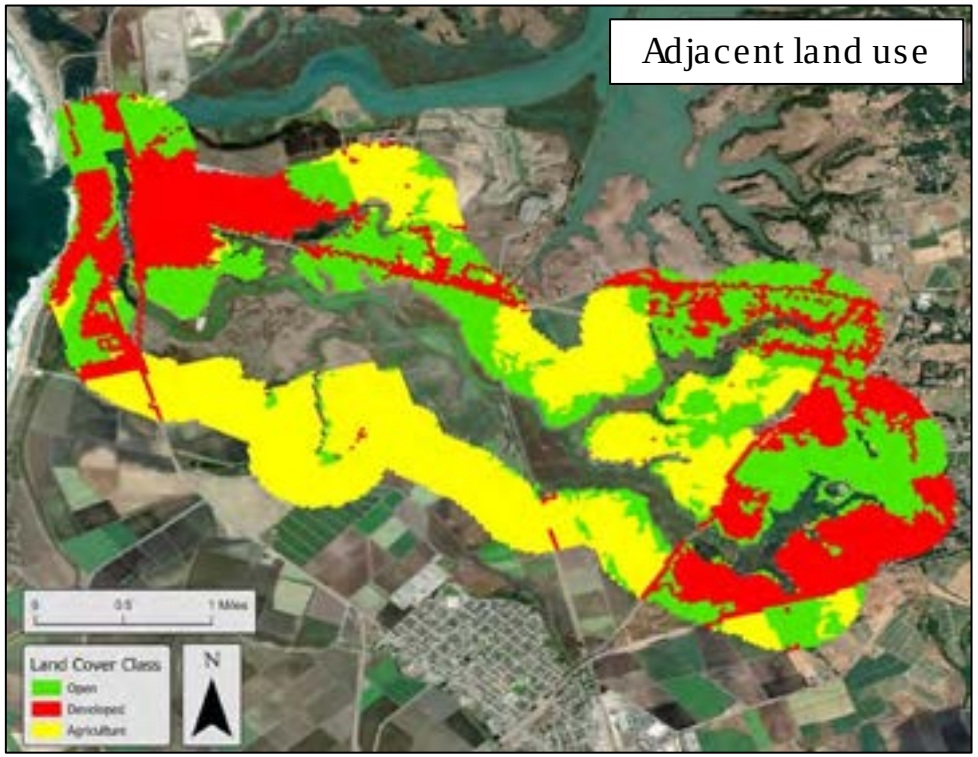
EMPA
Monitoring Program

These programs are the backbone of the CRMB RMP

US EPA Tiered Assessment Framework

Level 1– Landscape Assessment

- California Aquatic Resources Inventory (CARI)
- Satellite imagery
- Drones
- GIS tools



Level 2– Rapid Assessment

California Rapid Assessment Method (CRAM)

Well established

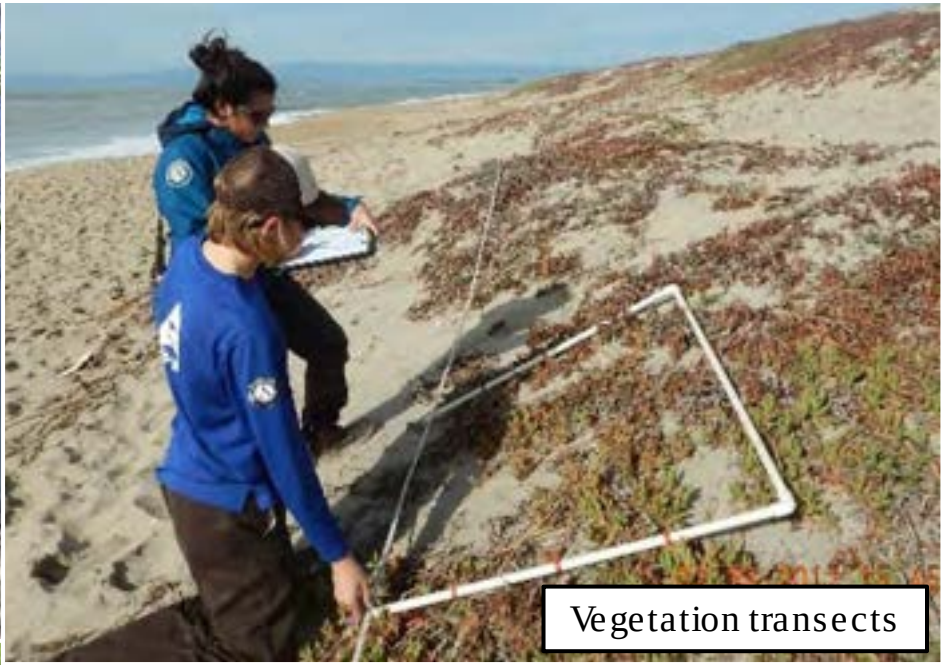
Dune Rapid Assessment Method (DuneRAM)

Currently under development

Level 3– Intensive Assessment

Crab traps

Benthic samples


Vegetation transects

Fish seines

Sediment accretion

Elevation

Thank you! Questions?

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