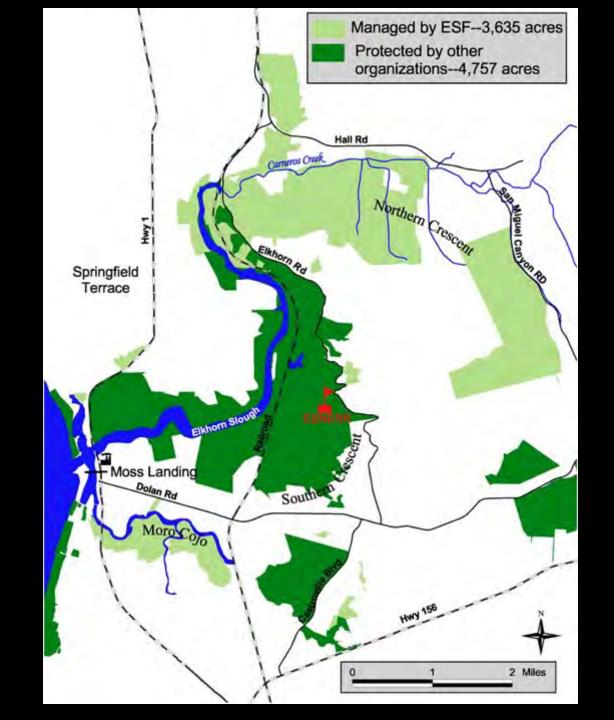




Elkhorn Slough National Estuarine Research Reserve







NATIONAL ESTUARINE RESEARCH RESERVE SYSTEM

Search

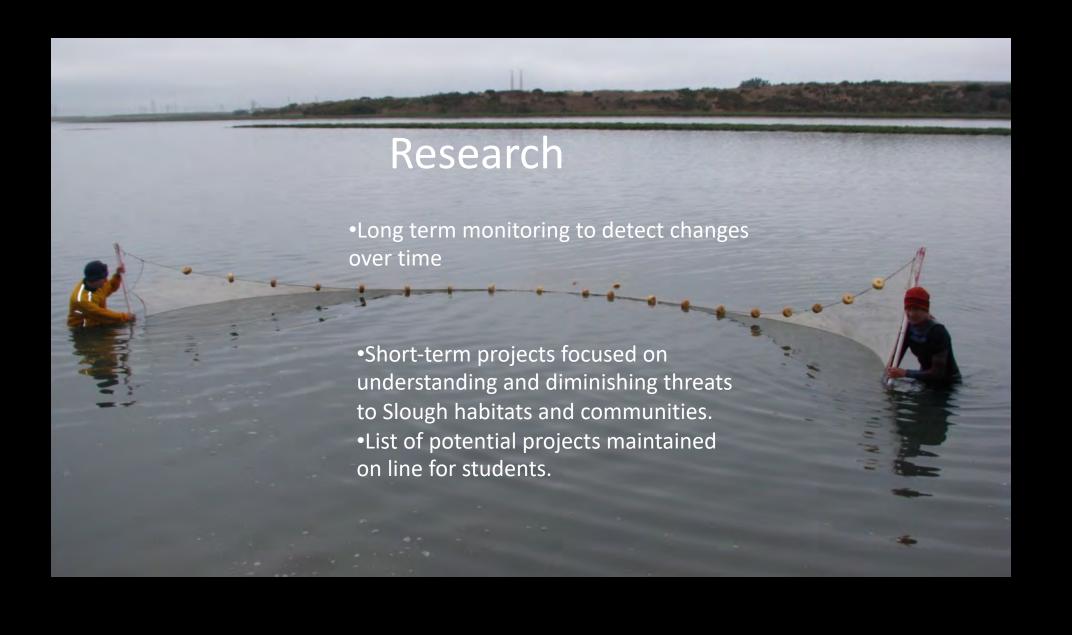
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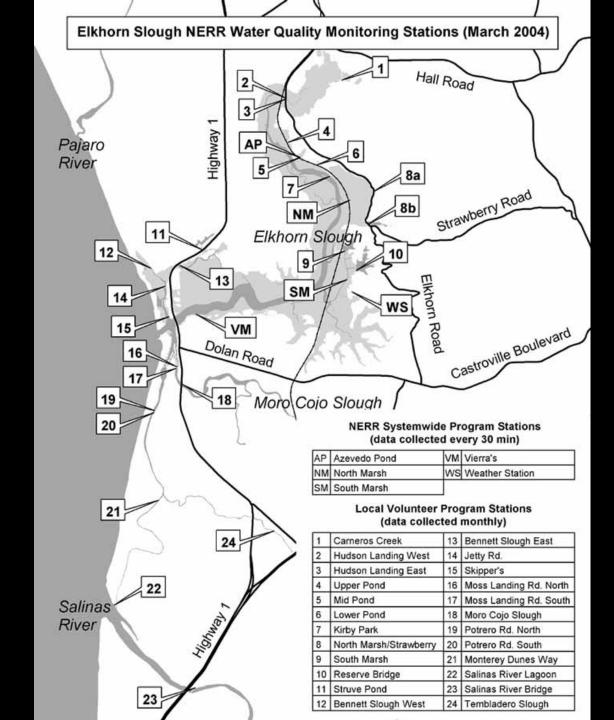


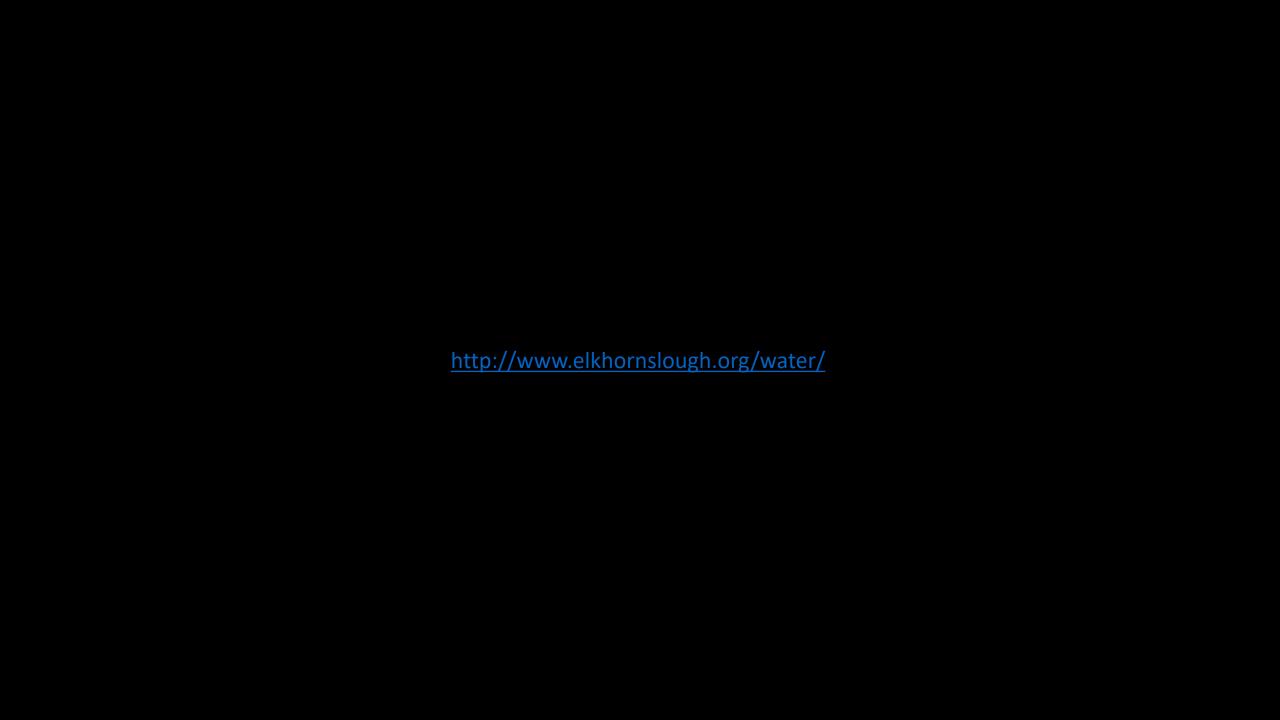




Water Quality Monitoring

- Volunteer Water Quality Monitoring
 - > Sampled monthly since 1988
 - be temperature, salinity, dissolved oxygen, pH, turbidity, nitrate, ammonium, and dissolved inorganic phosphate.







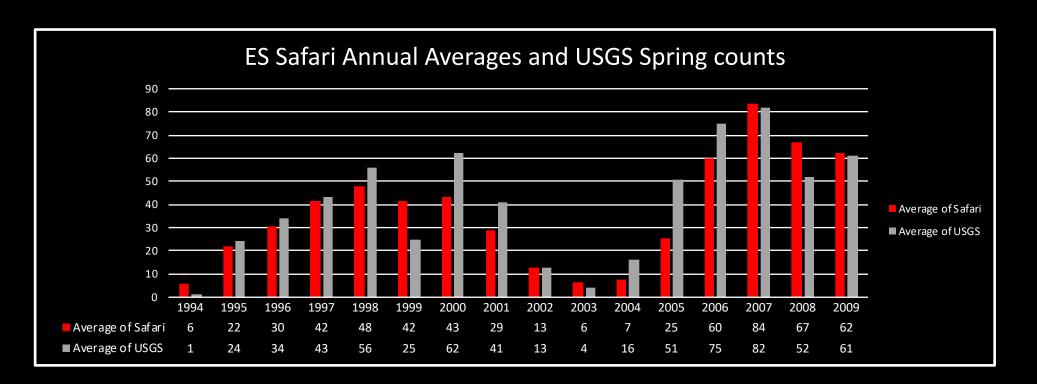


from overgrowing.

HOW SEA OTTERS HELP the Elkhorn Slough Ecosystem

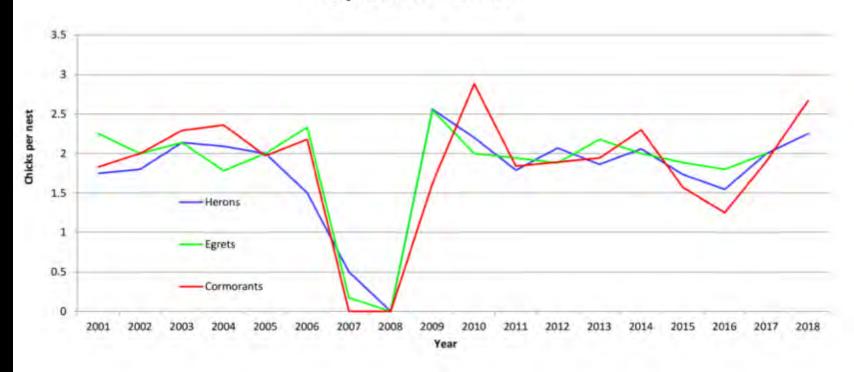
WITHOUT SEA OTTERS WITH SEA OTTERS 1. Without otters to eat crabs. the crab population rises. Sea otters eat a diet rich in crabs. This helps keep 2. Too many crabs burrowing in the mud banks of the slough causes erosion and loss of habitat for other burrow in the mud banks of the slough. With fewer sea creatures. providing structure and habitat for other animals When algae are in check, sunlight and oxygen 4. Without oxygen, eelgrass can't grow on the slough enrich the water. Fish floor so fish and other animals that need eelgrass for food and shelter suffer. and other animals can thrive in the eelgrass. 3. When crabs eat too many of 3. When the crab population the sea slugs and isopods is under control, slugs and that normally feed on algae, other algae eaters return to the algae grows out of control and sucks up lots of the slough and keep algae

oxygen. This makes it hard for other animals to survive.



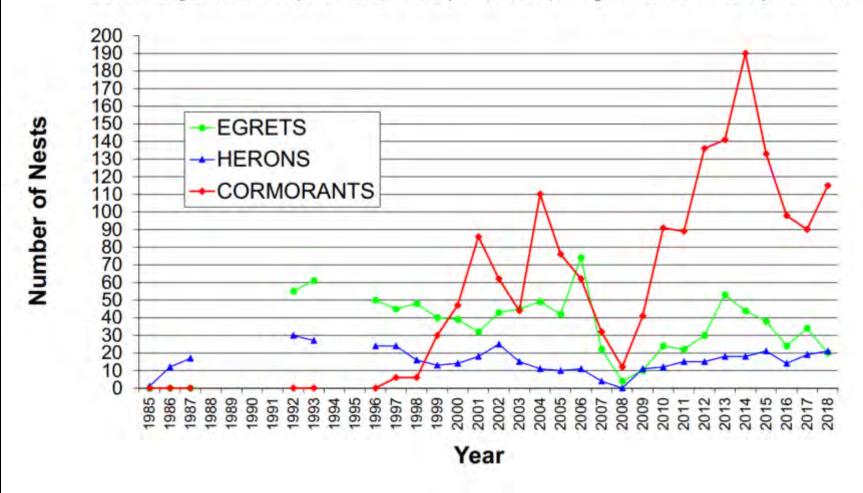
Elkhorn Slough
Safari counts
(averaged by
years)
and
USGS Annual
counts

Reproductive Success



ESNERR Rookery Populations Over Time

Note that nesting occurred in central part of ESNERR, in "Rookery" area, until 2008; nesting then moved to "Seal Bend" part of ESNERR.







Invasive Plant Control













Grazing Program





3 pastures3 controls







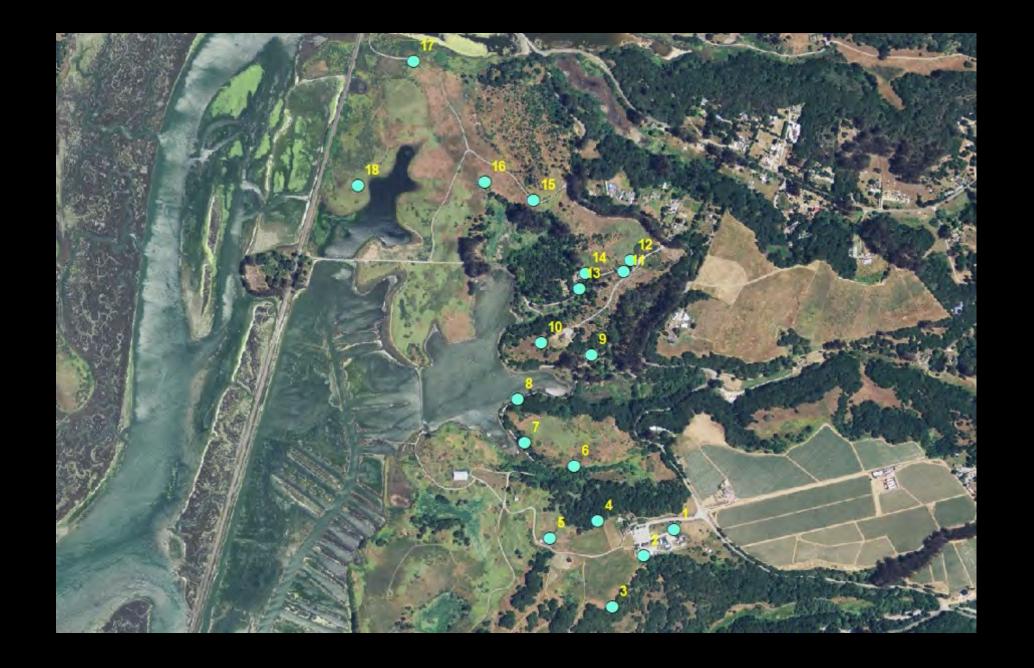














Success



Lower Cattail: Construction







A Freshwater Landscape









Santa Cruz Long-toed Salamander



California Tiger Salamander







Environmental DNA

Eucalyptus Tree Removal



Eucalyptus Tree Removal









Biochar



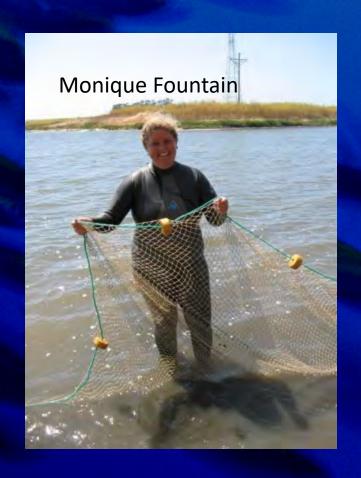






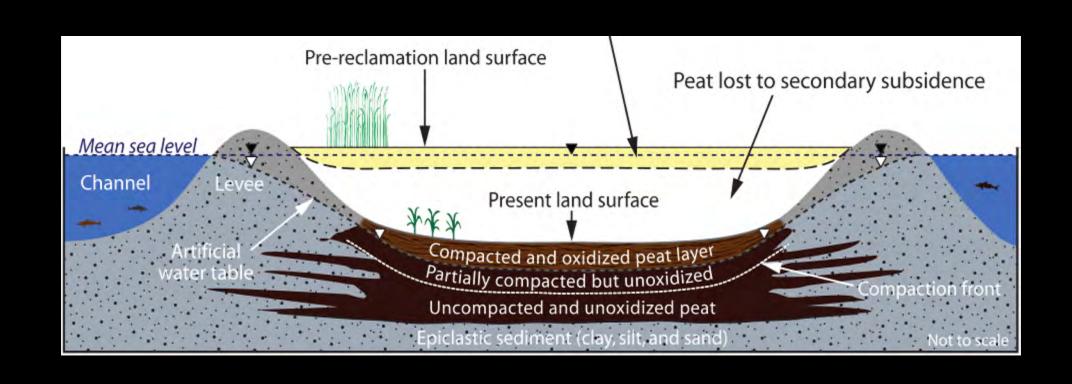


Tidal Wetlands Program



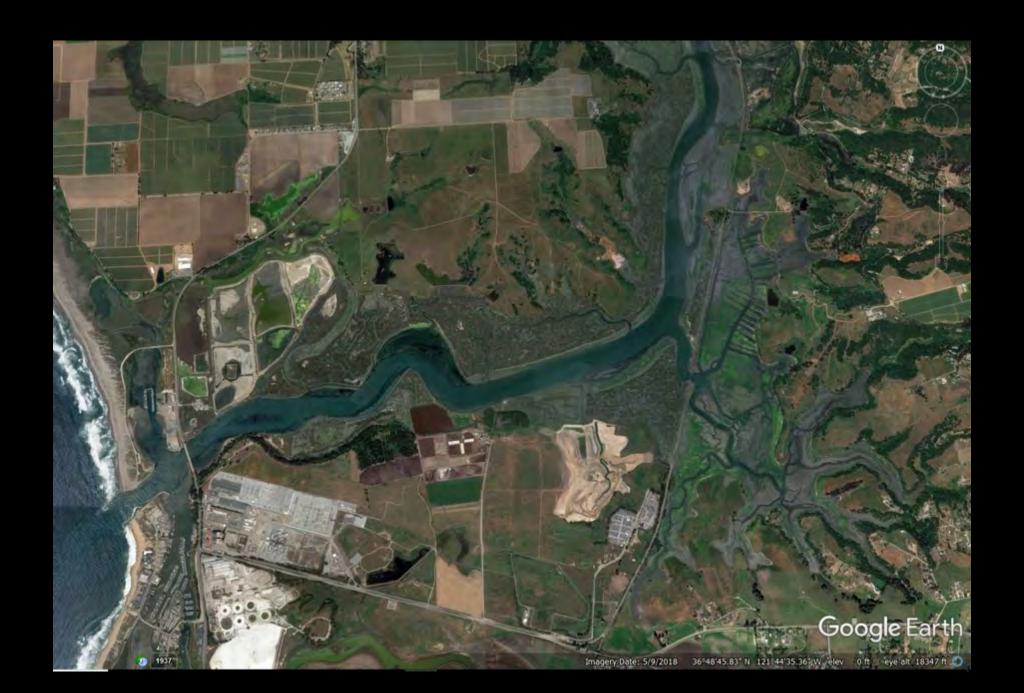
A collaboration to address the significant loss of salt marsh in the Elkhorn Slough. We have lost fifty percent, or 1,000 acres of our salt marshes over the past 150 years.



































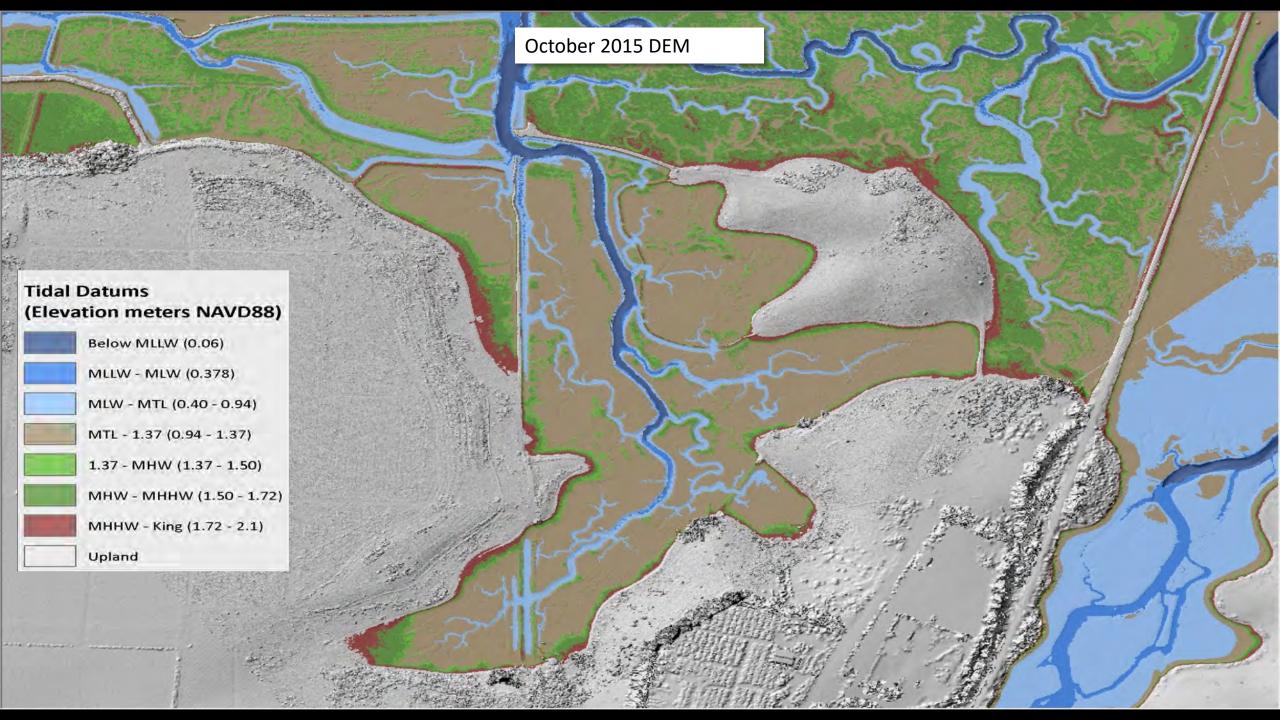


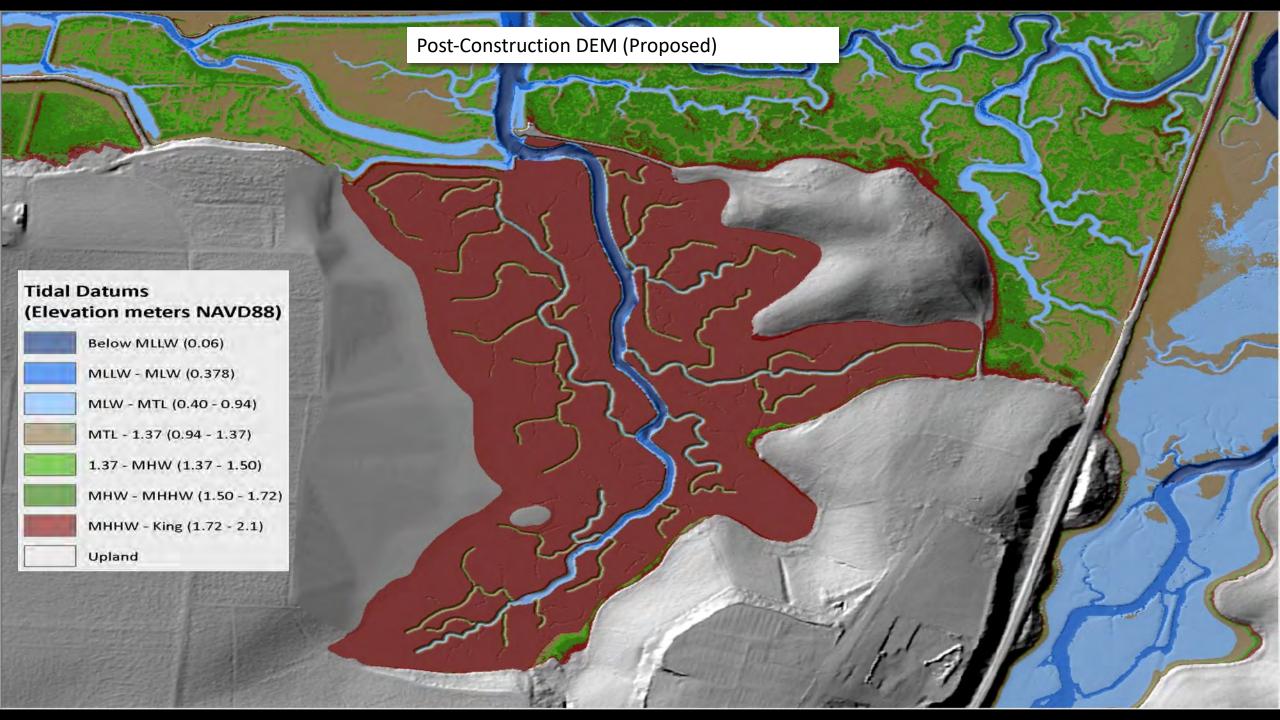


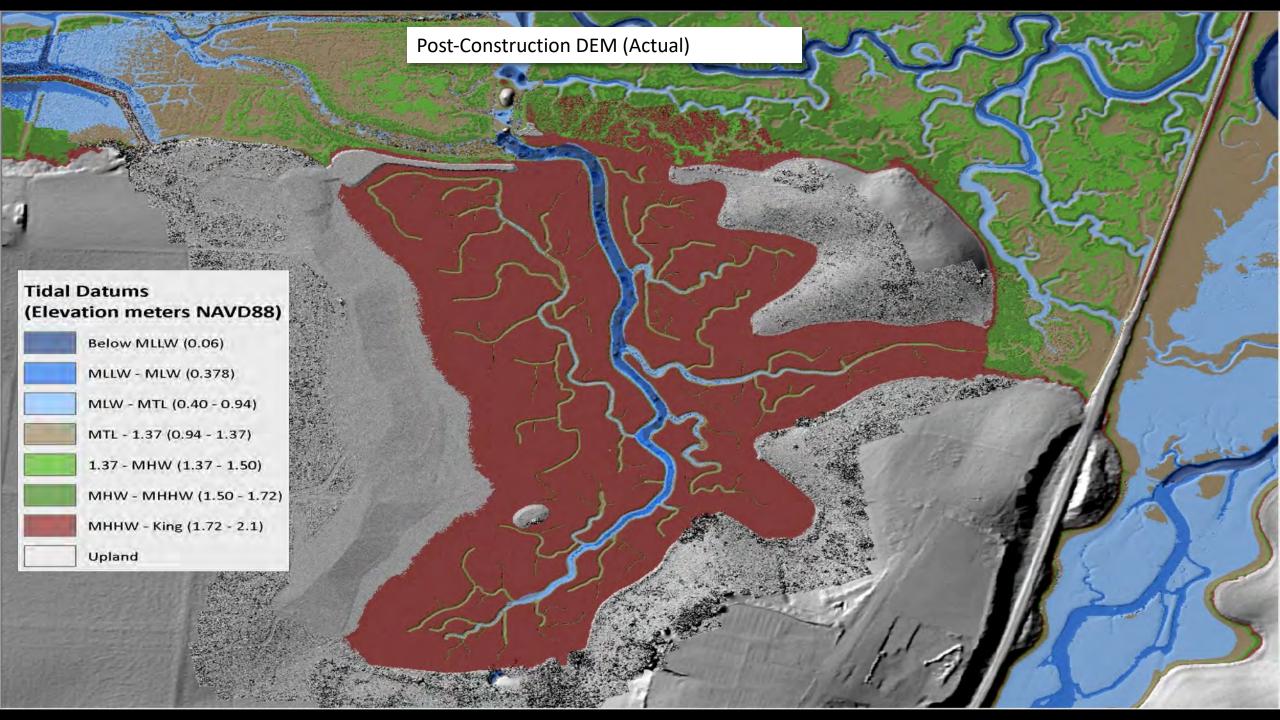


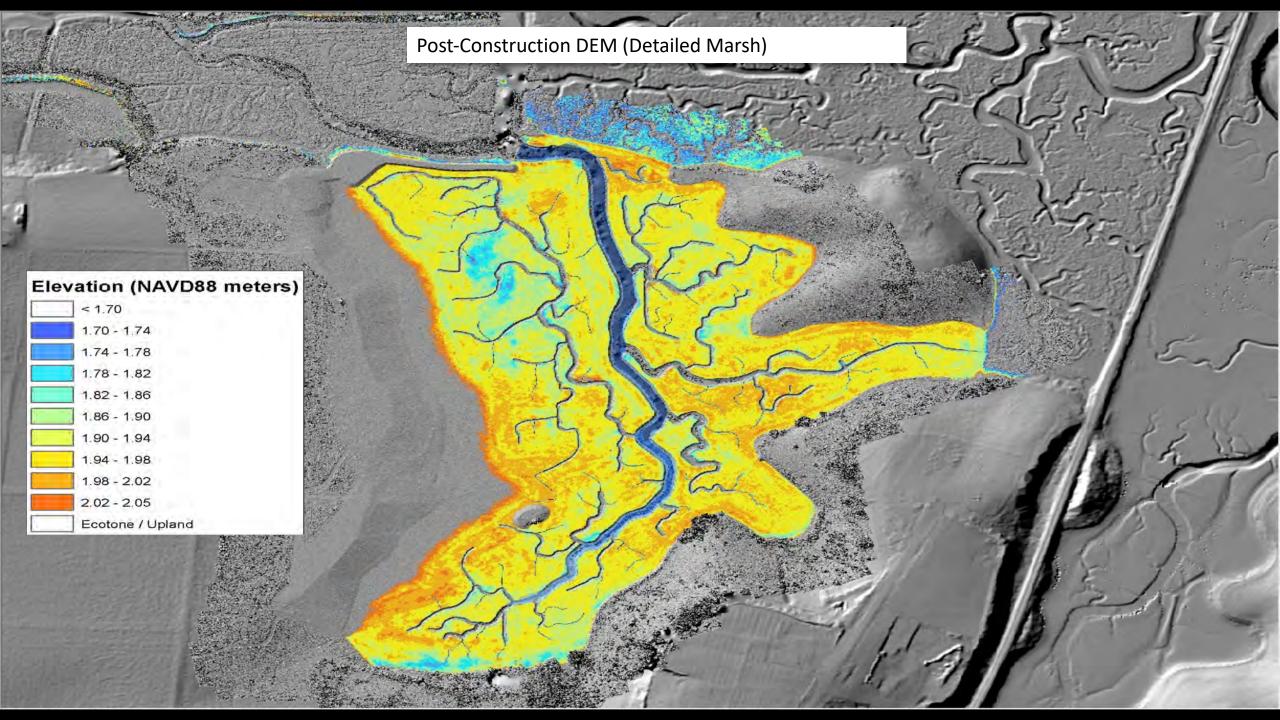


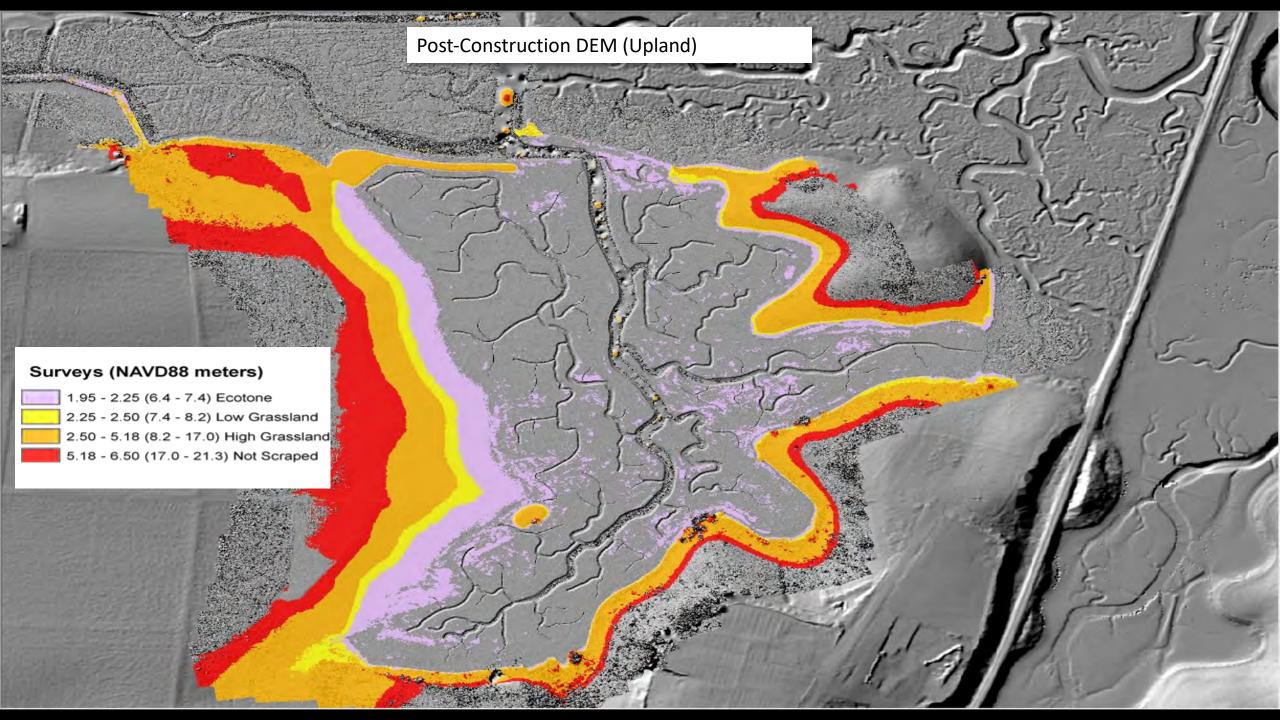


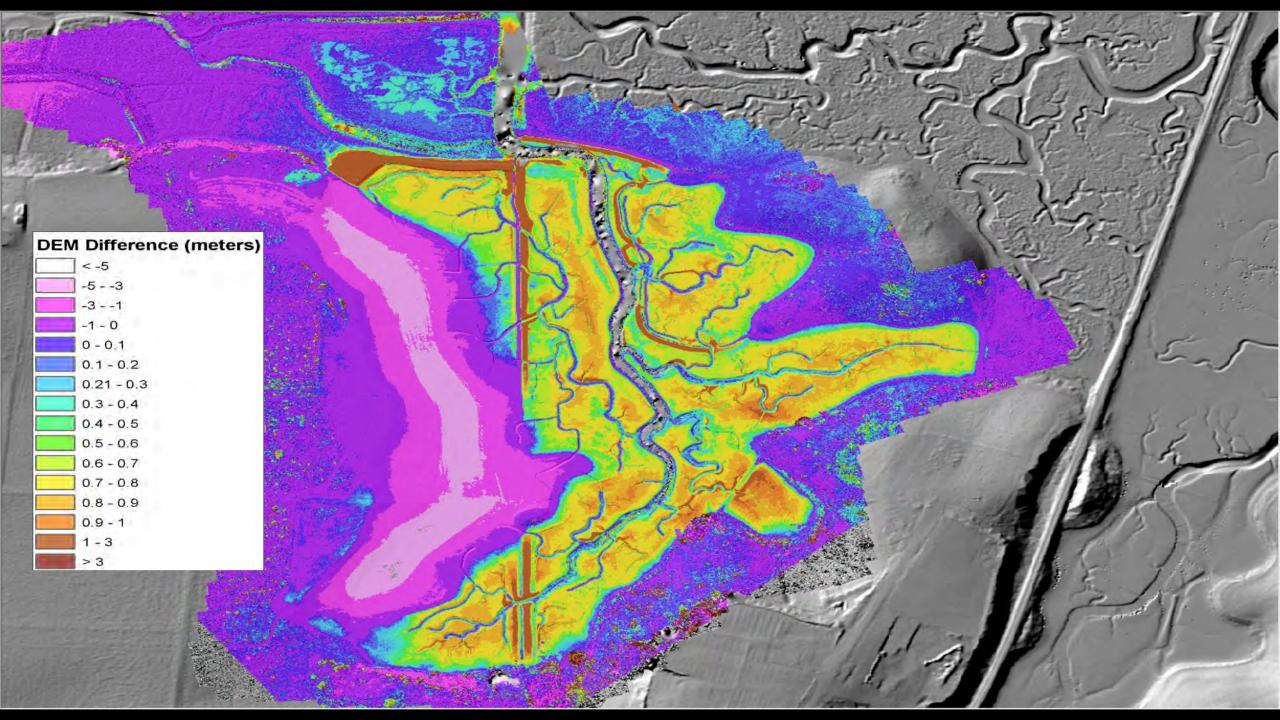


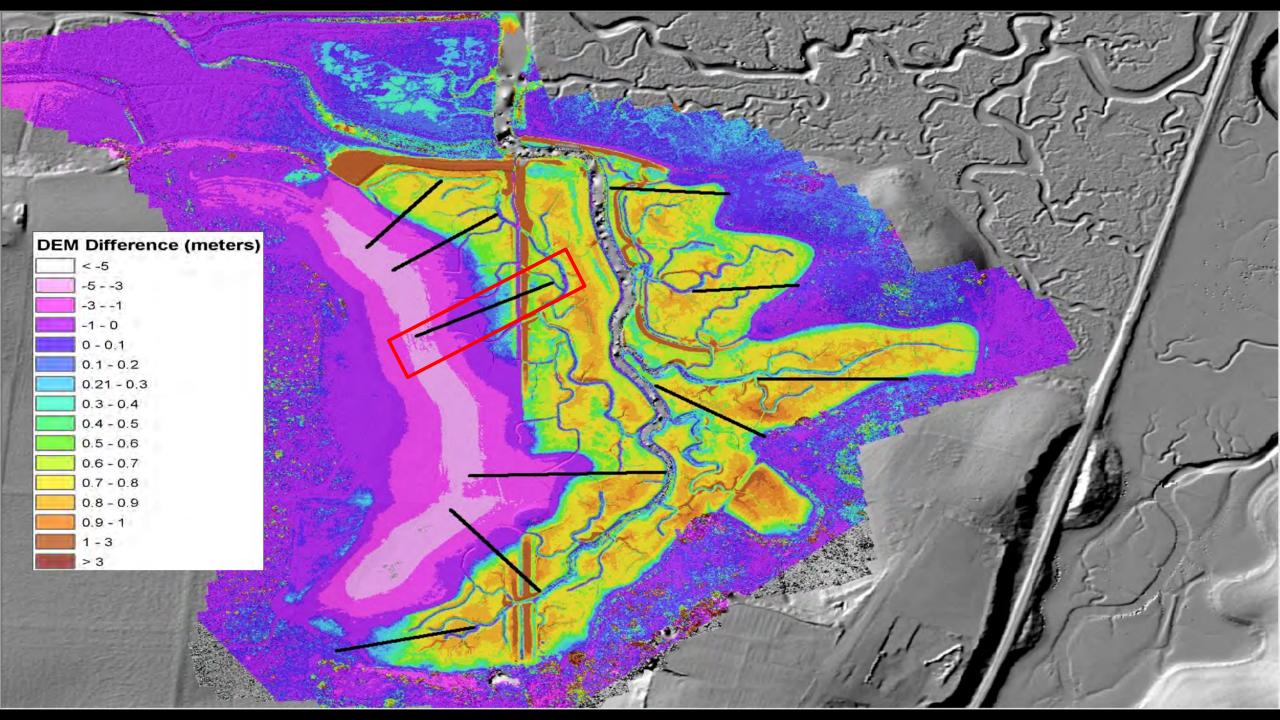




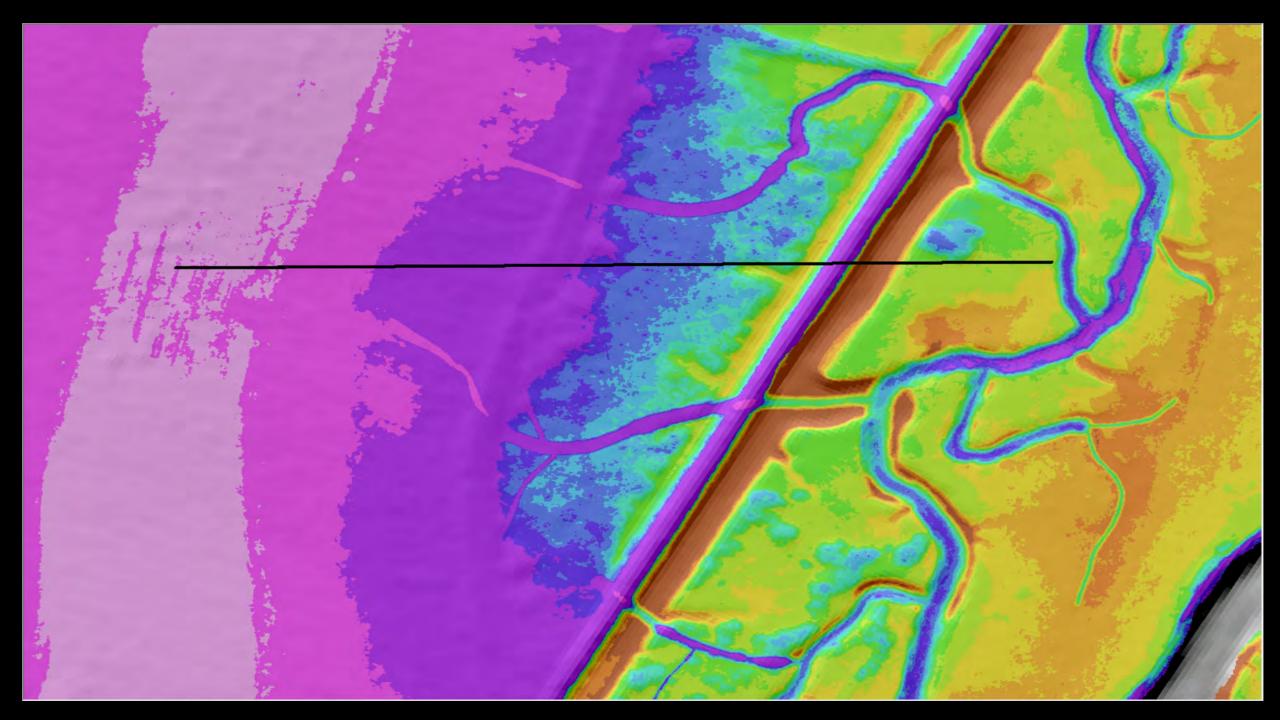


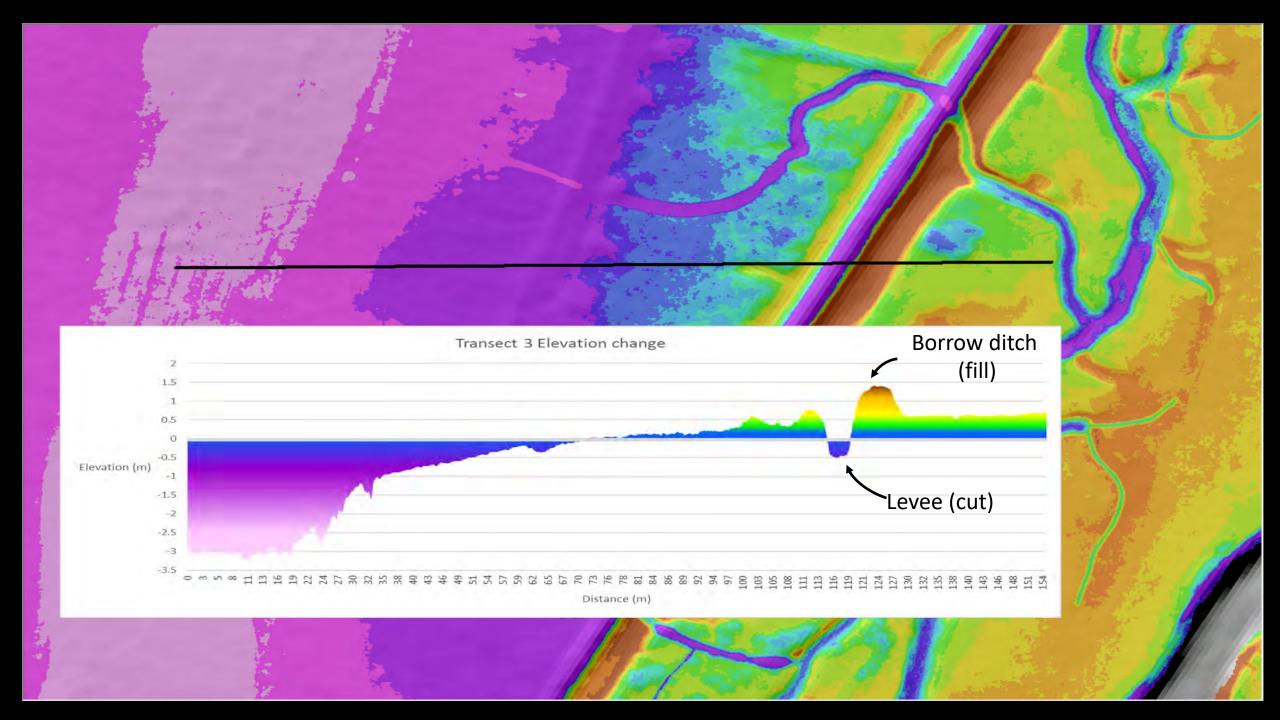












Facilities Maintenance



Mike Curthoys







Facility Improvements













- Focus on supporting and improving environmental stewardship by Coastal Decision-Makers (CDMs) * within the Central Coast region
- Compared to other NERR programs, more outward looking...
- Currently in strategic planning phase, and feedback about CDM needs and opportunities are welcome!







Education



Virginia Guhin

2016 Employee Excellence Award Recipient





Ariel Hunter











Estuary Explorers Club Elkhorn Elementary School





Estuary Explorers Club Elkhorn Elementary School



MONTEREY BAY AQUARIUM

Monterey Bay Aquarium WATCH



Agricultural Education











Environment For the Americas





"Wetland Of International Importance

