

NATIONAL COASTAL ECOSYSTEM PREDICTION SYSTEM

Co-developing science that informs the protection and resilience of coastal ecosystems and infrastructure



Our multi-agency collaboration is working to deliver a nationwide, user-informed framework for applying marsh models to gain a better understanding of marsh habitat change due to sea-level rise across the U.S.

3.8 MILLION

Acres of salt marsh in the United States.¹

80,000

Acres of coastal wetlands lost per year to development and sea-level rise.²



Knowing how coastal wetlands will change in the future can better inform today's actions to protect and restore these ecosystems.

¹Pew Charitable Trust ²NOAA Fisheries



3 TESTBED LOCATIONS

We will test our preliminary Data Input Library and Modeling Framework within Plum Island Estuary (MA) and Great Bay (NH), Grand Bay (MS), and San Francisco Bay (CA).

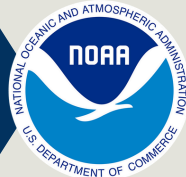
COMING SOON TO A MARSH NEAR YOU...

2.1 MILLION
Dollars (FY24-25)
Supporting

4 PROJECT TEAMS
Comprised of

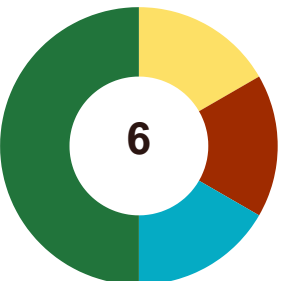
21 EXPERTS
Representing
Federal Agencies,
Academic Institutions,
NGOs & Consultants

FUNDING SUPPORT FROM

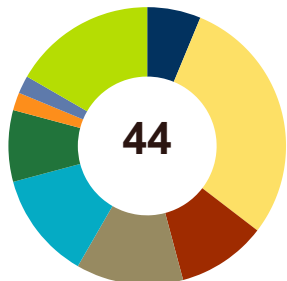


MARSH MODELING COMMUNITY OF PRACTICE

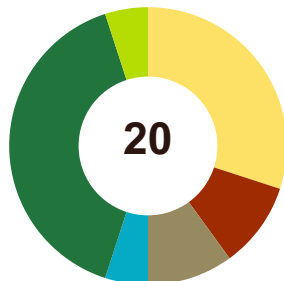
- Natural Resource Management
- Resilience Coordination
- Consulting
- Academic/ Research
- State/Local Government
- Coastal Decision-Making
- Coastal Technical Experts
- Federal Government
- Other



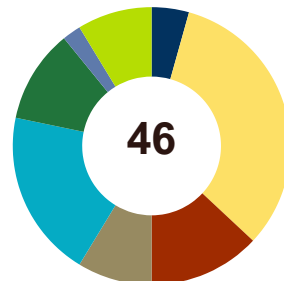
West Coast



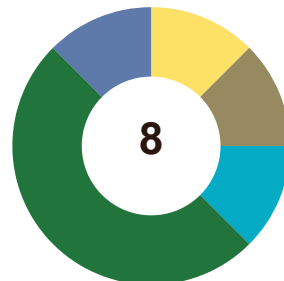
Gulf of Mexico



Southeast



Northeast



National/
International

PRODUCT DEVELOPMENT AND DELIVERABLES

We have identified...

40
AREAS



of existing marsh predictions.

This first generation dashboard is a mapping inventory, improving transparency and accessibility of marsh data already available.

We have compiled...

298 DATASETS
spanning **16 DATA TYPES**



ingested by marsh models.

We are sharing data across all partners via a scalable, inventoried, cloud-based **Data Library**.

We are building a platform containing predictions for...

3 SEA-LEVEL RISE SCENARIOS across **4** MARSH MODELS at **5** YEAR INTERVALS from 2020-2100.



Results will be shared via an interagency ecosystem change tool containing authoritative marsh migration data and cross-model comparisons.

STAKEHOLDER ENGAGEMENT

5 IN-PERSON MEETINGS & SITE VISITS

6 STAKEHOLDER WORKSHOPS



Scan here to visit our site!

LEADERSHIP TEAM

