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# Raccoon Island Restoration Engineering & Design (TE-0163)

**Louisiana Coastal Protection and Restoration  
Authority Board Meeting**

**March 19, 2025**

# Outline

1. NOAA Restoration Center
2. Project Authority
3. Project Team
4. Reconnaissance Phase
5. Advanced Engineering & Design Phase

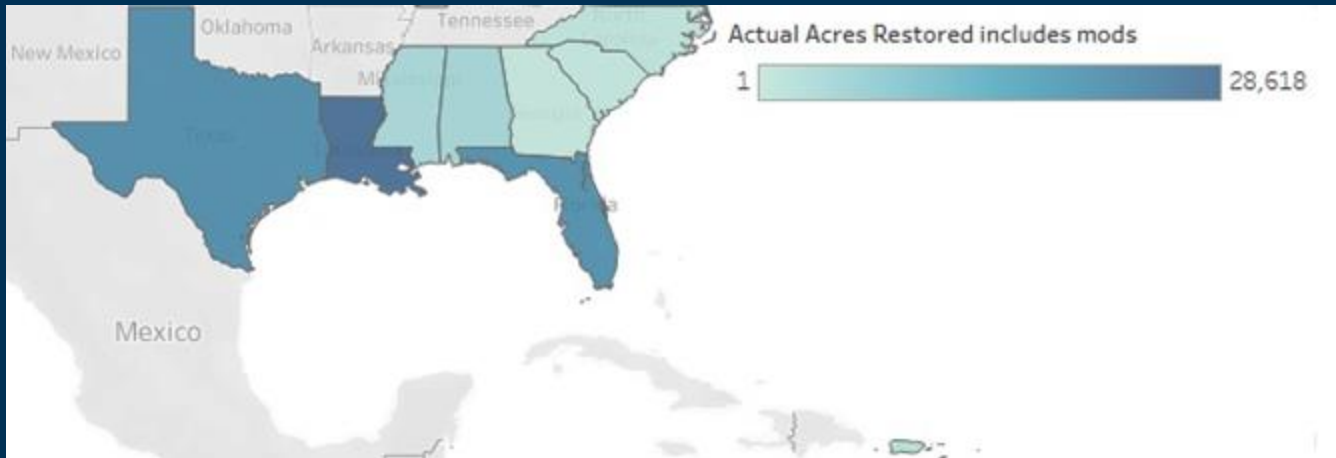
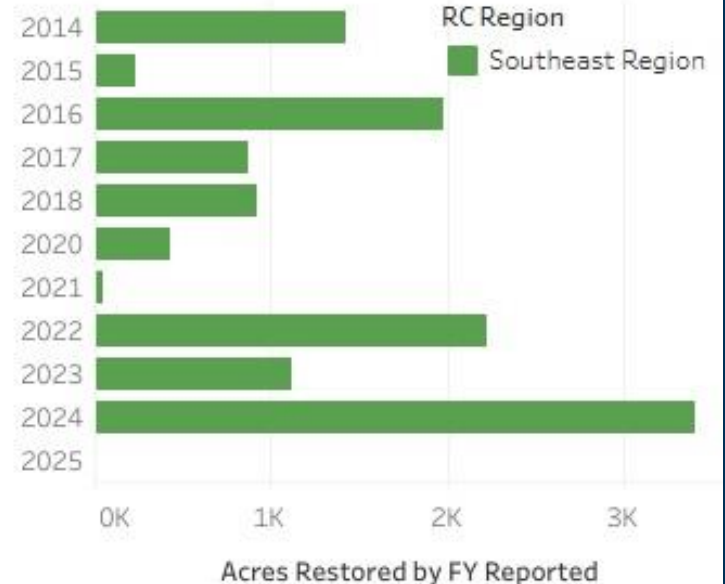


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# NOAA Restoration Center



RC Acres Restored since 1991





# Project Authority

## Deepwater Horizon Oil Spill

### Louisiana Trustee Implementation Group Final Restoration Plan/Environmental Assessment #8: Restore and Conserve Wetlands, Coastal and Nearshore Habitats

August, 2022

Resolution # LA-2022-039 last signed on November 29, 2022





# Project Team





e Pontchartrain



Ship Shoal



# Raccoon Island Barrier Island Restoration



2007



2014



2020



February 17, 2025



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# Reconnaissance Phase

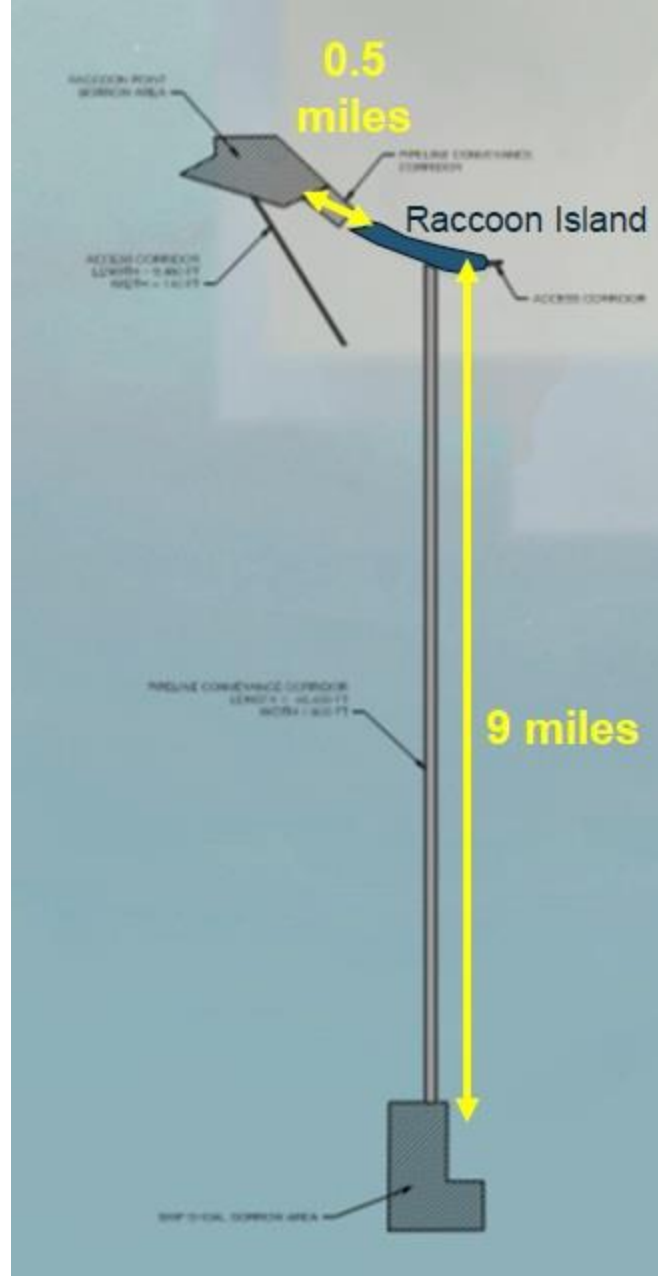
## Why Raccoon Point Shoal?

Sufficient volume of sandy material; similar to on-island

Minimal impact on wave climate

Preferred borrow by CPRA and consistent with LA Sediment Management Plan

\$32M - \$34M less expensive than Ship Shoal





# Reconnaissance Phase

## Restoration Alternatives

Alternative 1 – No Action

Alternative 2 – Sand fill + repair existing gulfside breakwater

Alternative 3 – Alt 2 + bayside living shoreline

Alternative 4 – Alt 2 + bayside shoreline protection

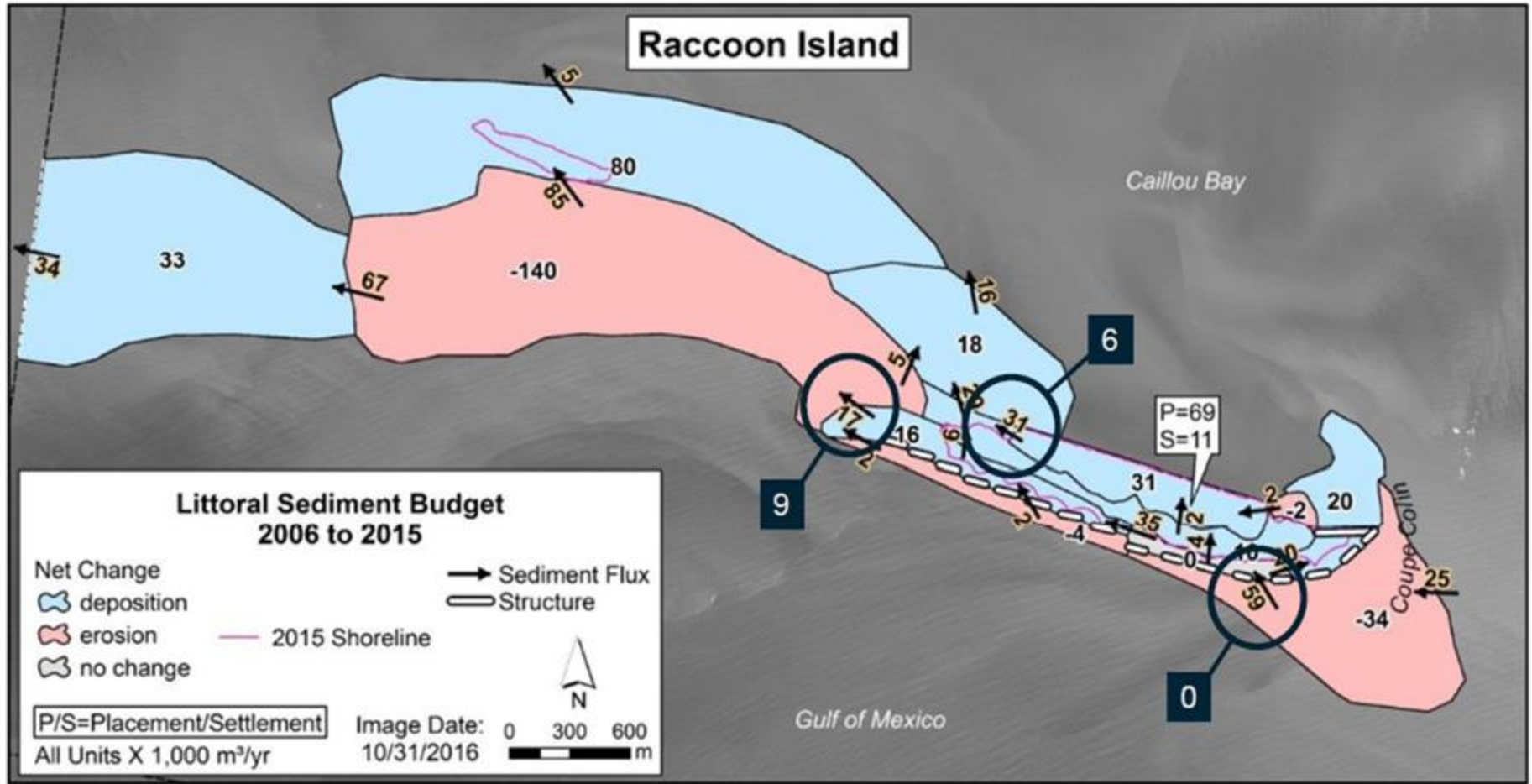
Alternative 5 – Beach and marsh + existing breakwater repair + 4 new gulf breakwaters + bayside shoreline protection

Sand fill includes beach, dune, backbarrier marsh and mounds

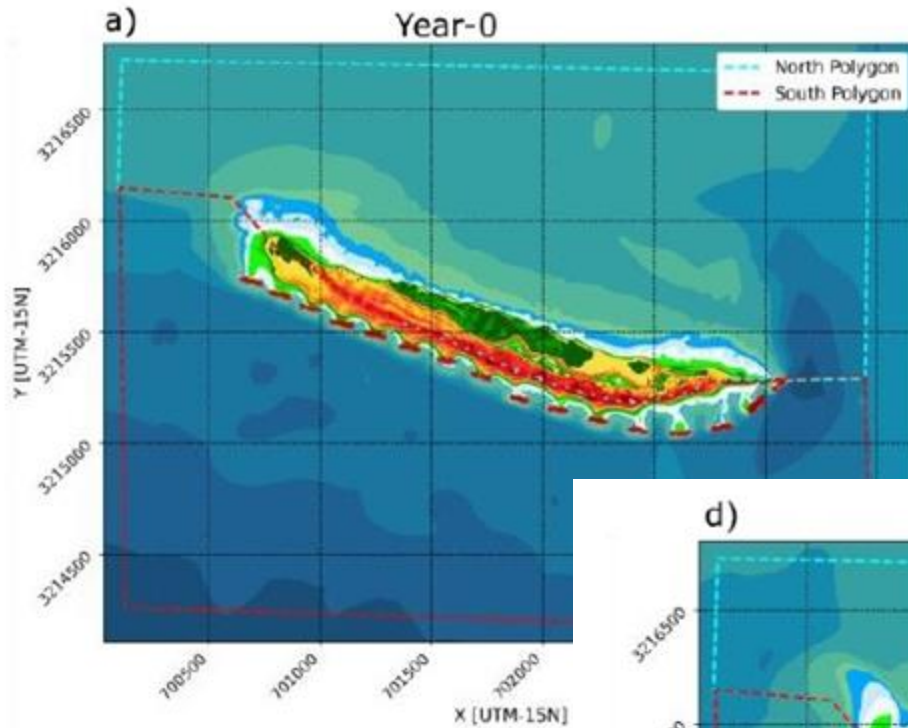


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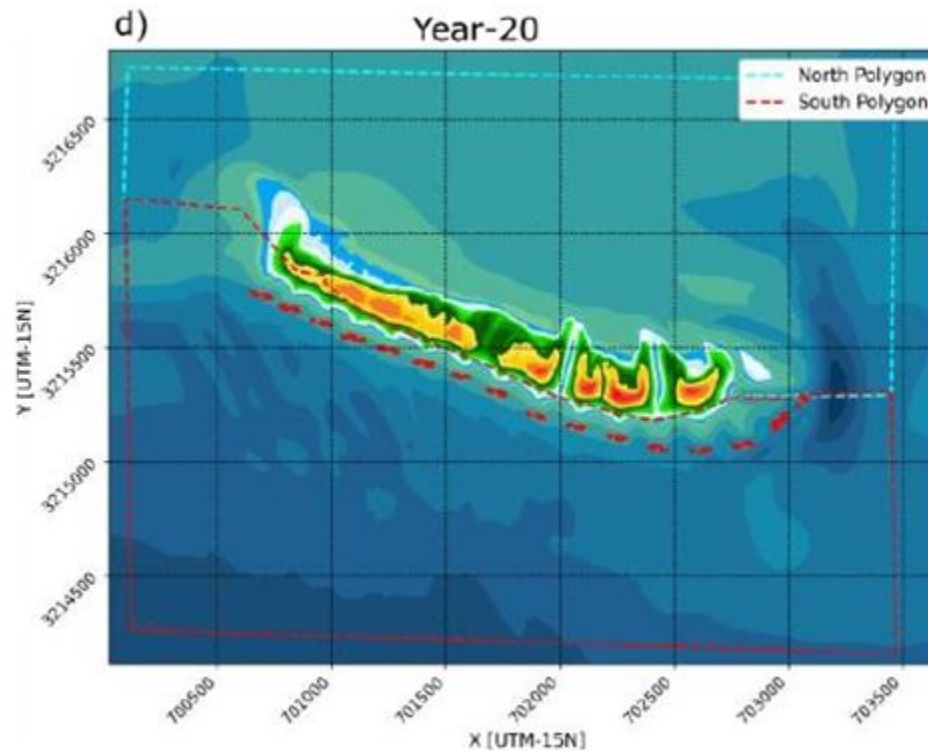
# Reconnaissance Phase



# Raccoon Island Barrier Island Restoration



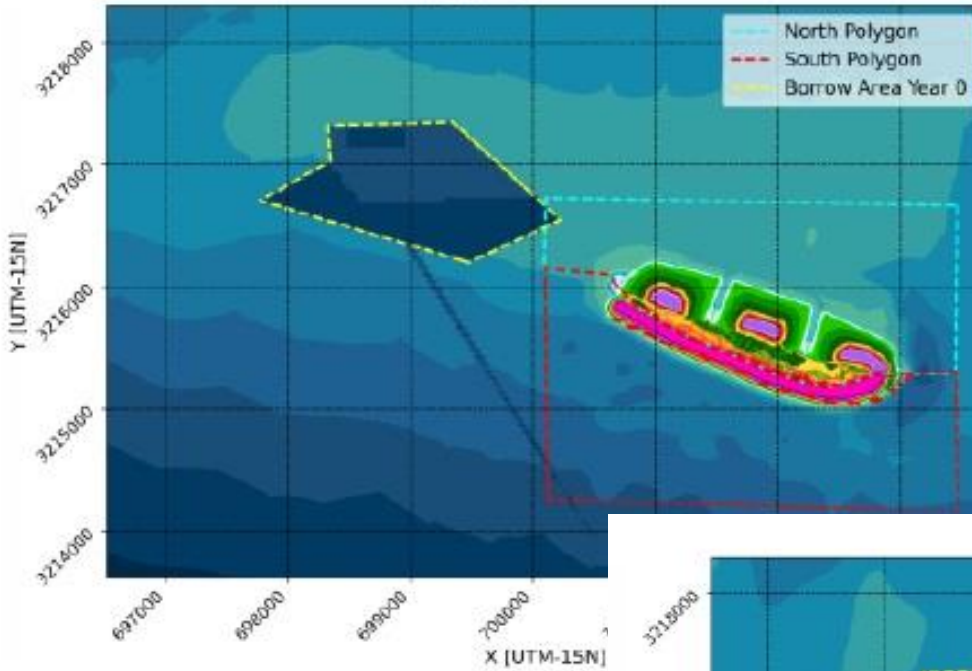
Reconnaissance Phase  
Future Without Project



# Raccoon Island Barrier Island Restoration

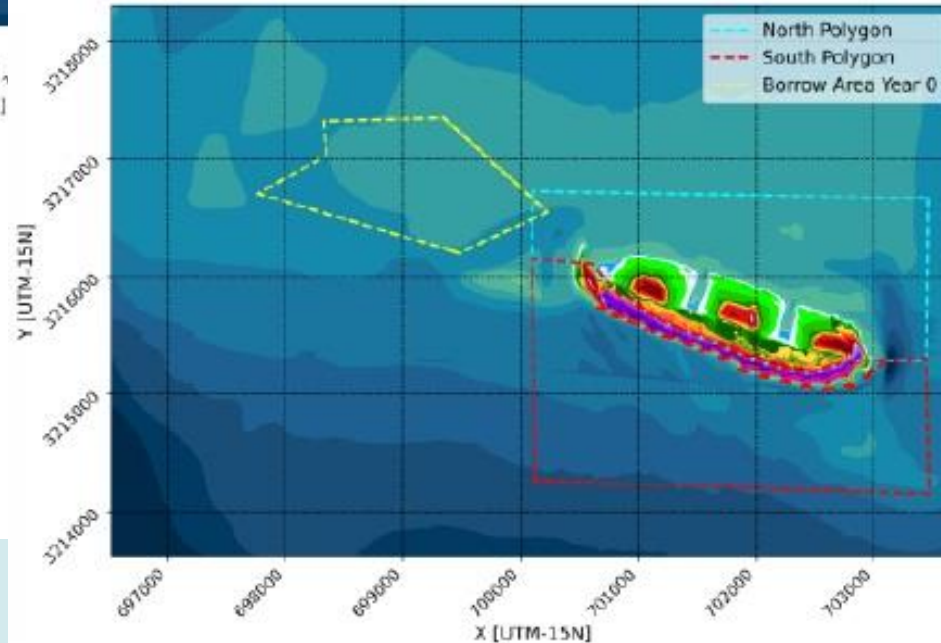


Year-1



Reconnaissance Phase  
Future With Project  
Alternative 2

Year-20



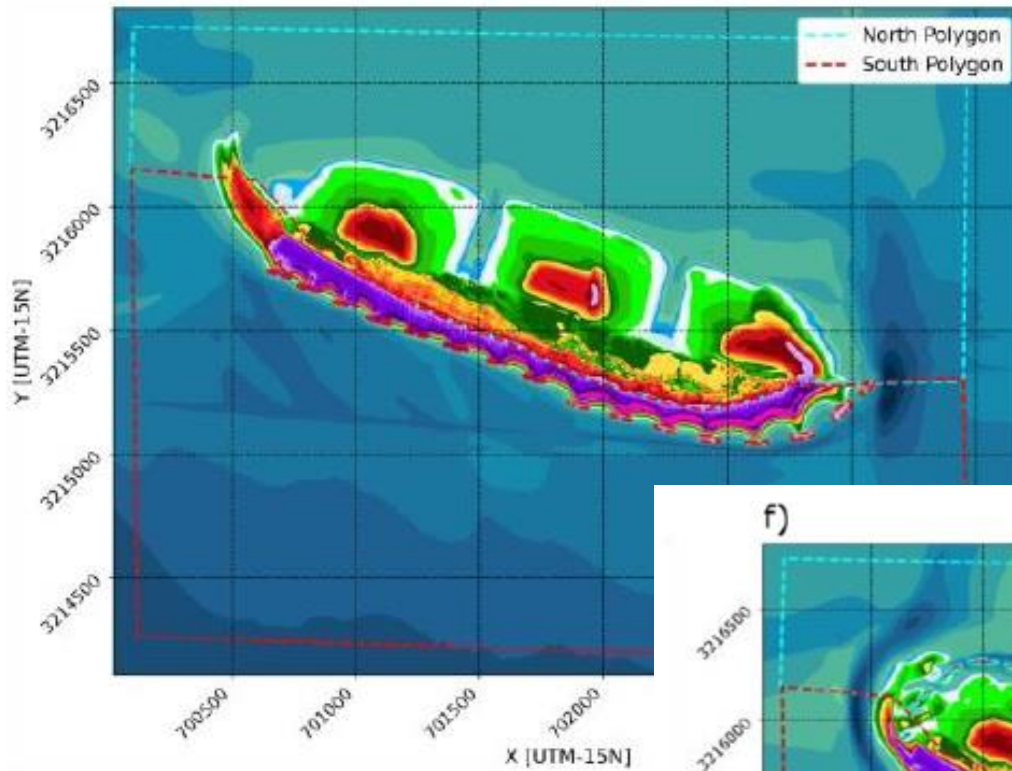
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# Raccoon Island Barrier Island Restoration



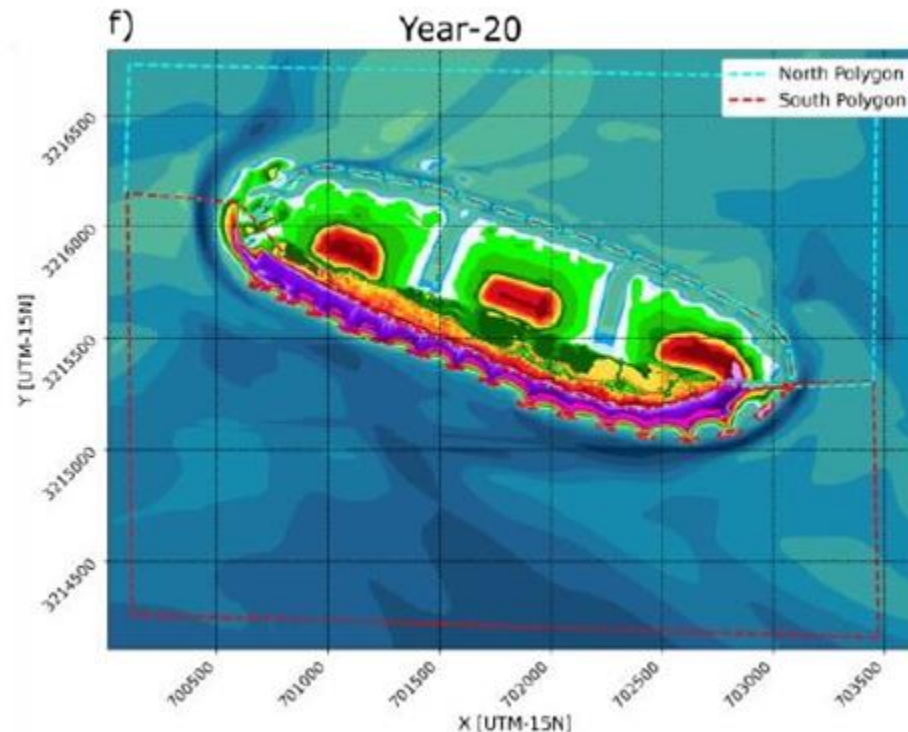
Year-20



Reconnaissance Phase  
Future With Project

Alternative 2  
(Without bayside rock)

Alternative 4  
(With bayside rock)



# Reconnaissance Phase Summary

- Either borrow area contains sufficient volume of sand
- Relative construction costs for the Alts is less than ~\$126M
- Use of Ship Shoal increases the cost by ~ \$32M to ~\$34M
- Alt 4 (with bayside living shoreline) is ~\$25M more than Alt 2
- Alt 5 (with bayside shoreline protection) is ~\$34M more than Alt 2
- All FWP Alts prevent island breaching
- All FWP Alts have TY20 FWP acreage > TY1 FWOP
- TY20 FWP 50% to 60% increase in beach, dune, and gulfside intertidal vs TY0
- TY20 280% to 300% increase in backbarrier habitat vs TY0

Alt = Alternative

FWP = Future With Project

FWOP = Future Without Project

TY = Target Year



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# 30% Design Phase

## Restoration Alternatives

Alternative 1 – No Action

Alternative 2 – Sand fill + repair existing gulfside breakwater

Alternative 3 – Alt 2 + bayside rock rubble-mound living shoreline

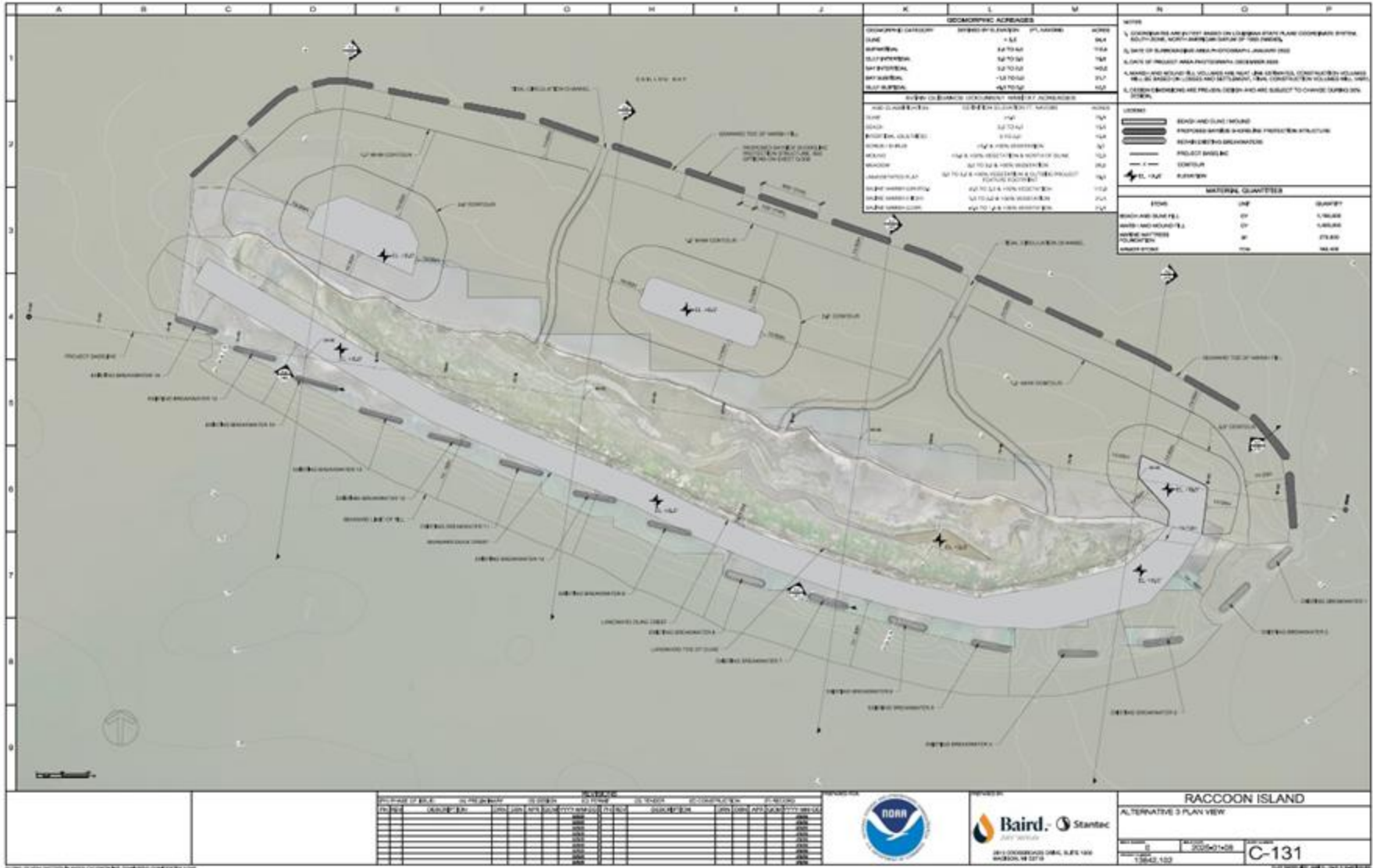
Alternative 4 – Alt 2 + bayside shoreline protection

Sand fill includes beach, dune, backbarrier marsh and mounds



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# 30% Design Phase – Alt 3





# Project Schedule



- **Complete 30% Design Data Acquisition – March 2025**
- **30% Design Report and Review Meeting – 2025**
- **60% Design Report - 2025**