



# Stakeholder Meeting #1

## An Introduction to the Blind Pass Inlet Management Study

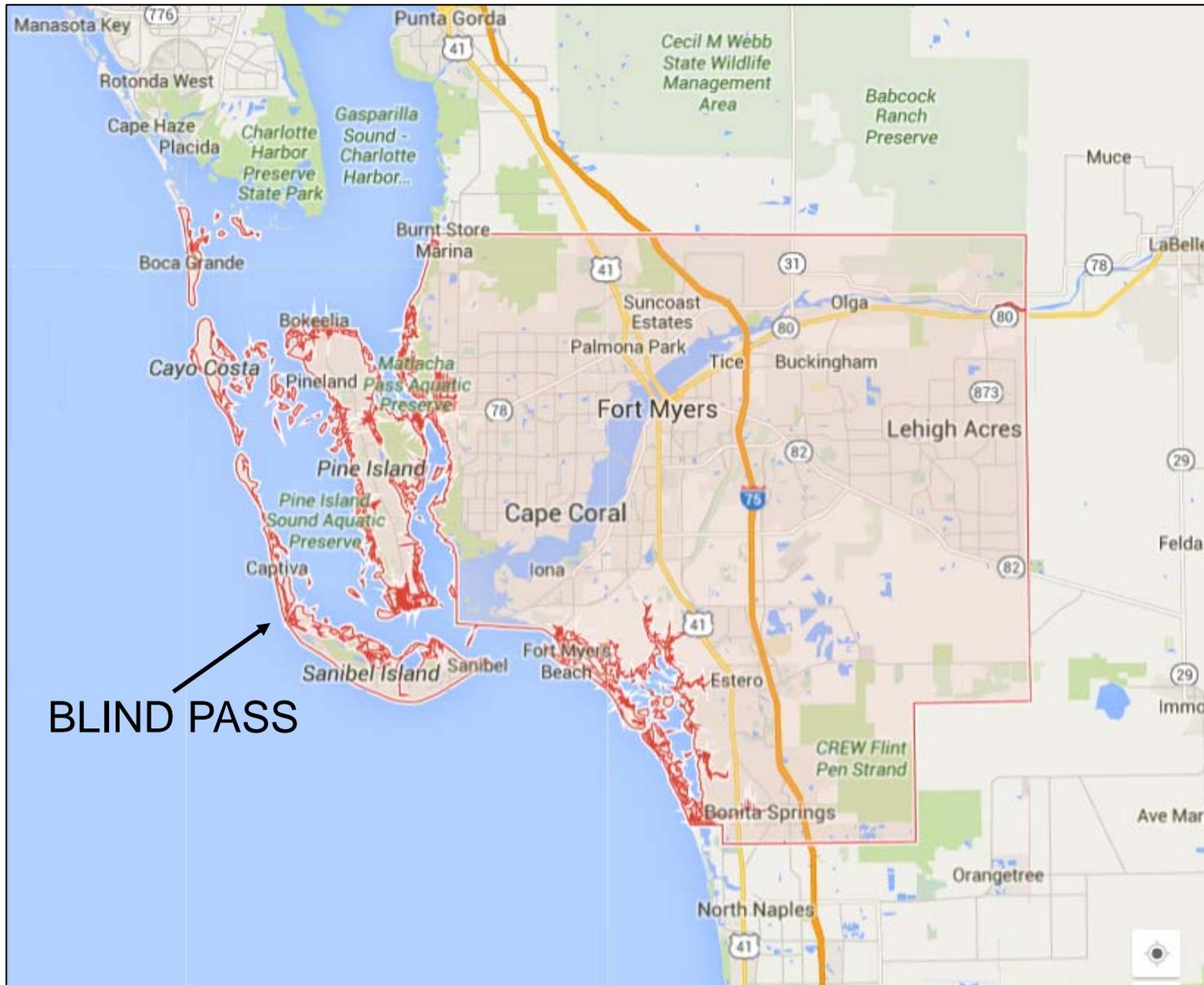
April 21, 2016

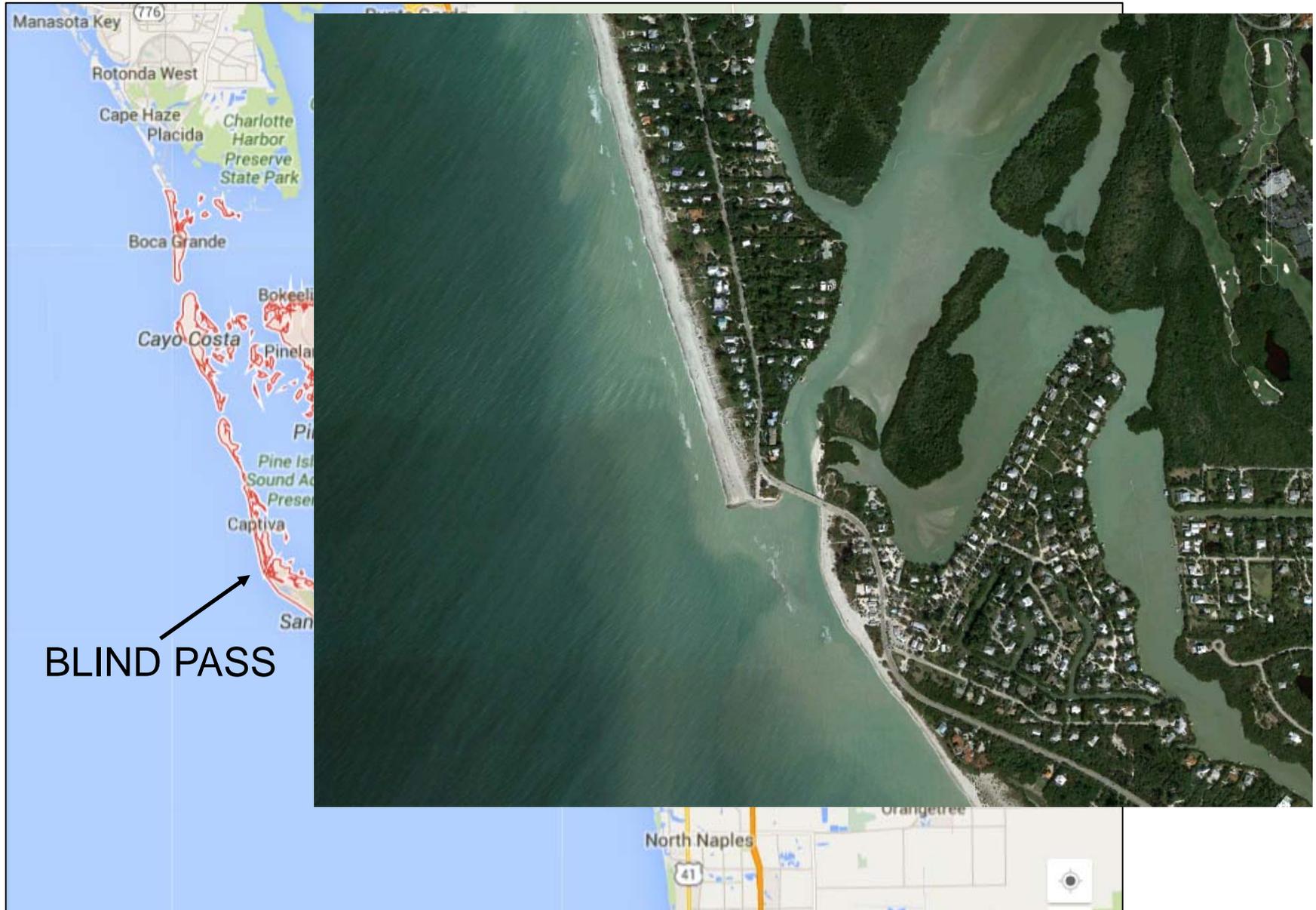
5:30 PM, The Sanctuary, Sanibel Island



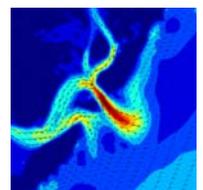
- Introductions
- Study Overview
- Study Status
- Discussion





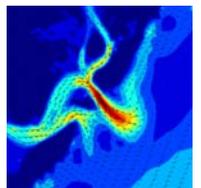


- Introductions
- Study Overview
  - What is an inlet management study?
  - Study Objectives
  - Study Scope
- Study Status
- Discussion



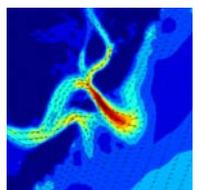
## An inlet management study...

- Evaluate changes and trends in the inlet, shoals and adjacent beaches
- Establish maintenance options
- Establish monitoring plan



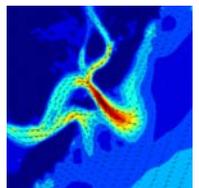
## Study Objectives

- Update 1995 Inlet Management Study
- Maintain Blind Pass in an open condition
- More effective dredging/nourishment
- Extend the life of related beach projects
- Protect the existing infrastructure
- Maintain existing level of recreation access and use
- Define potential impacts to navigation

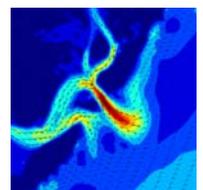


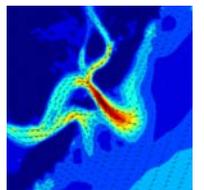
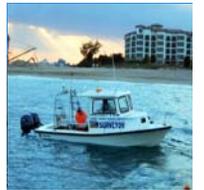
# Study Scope

- Inlet history
- Sediment budget
- Develop and test management strategies
- Management recommendations
- Study Report
- Stakeholder Input
- Technical Advisory Committee
- FDEP adoption of plan



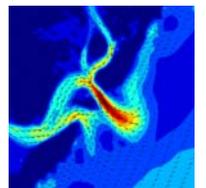
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  - Sediment Budget
  - Modeling
- Discussion

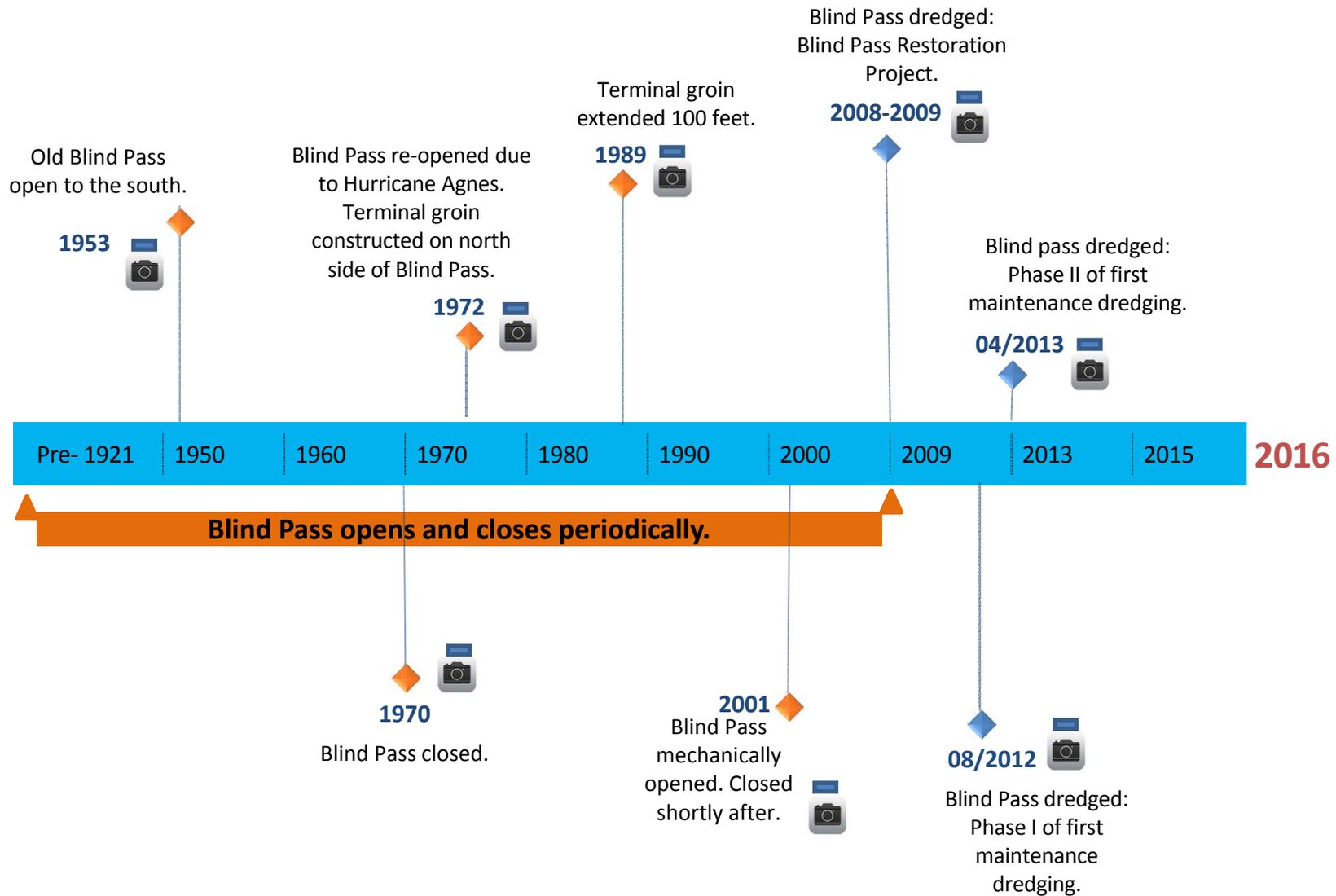




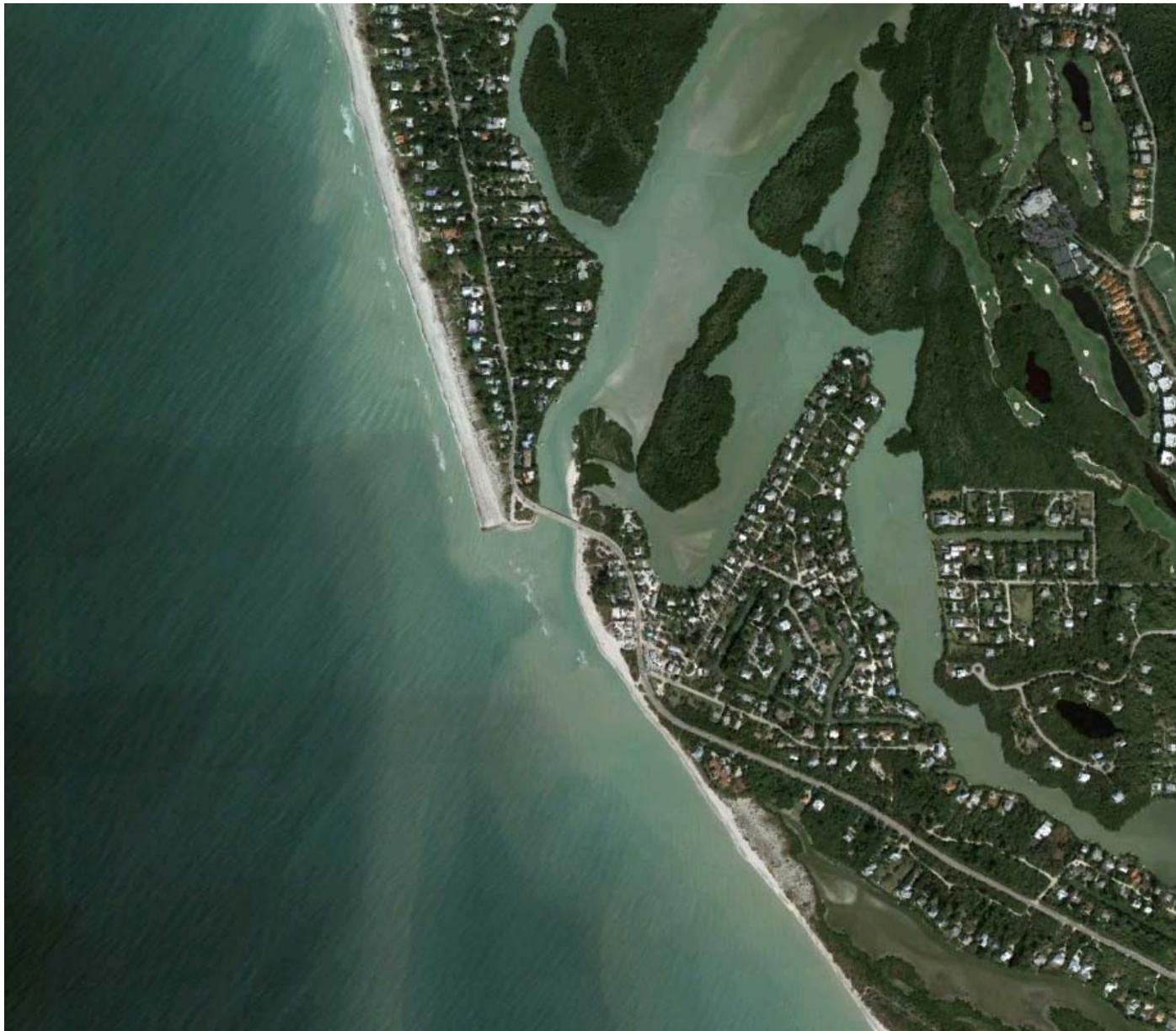
## Major historic events affecting Blind Pass

- Opening of Redfish Pass
- Hurricanes / Storms
- Opening and closing of Clam Bayou and Old Blind Pass
- Nourishment Projects
- Dredging of Blind Pass
- Jetty installation

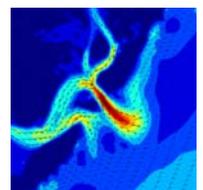






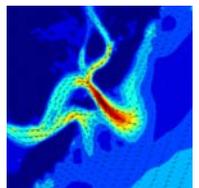


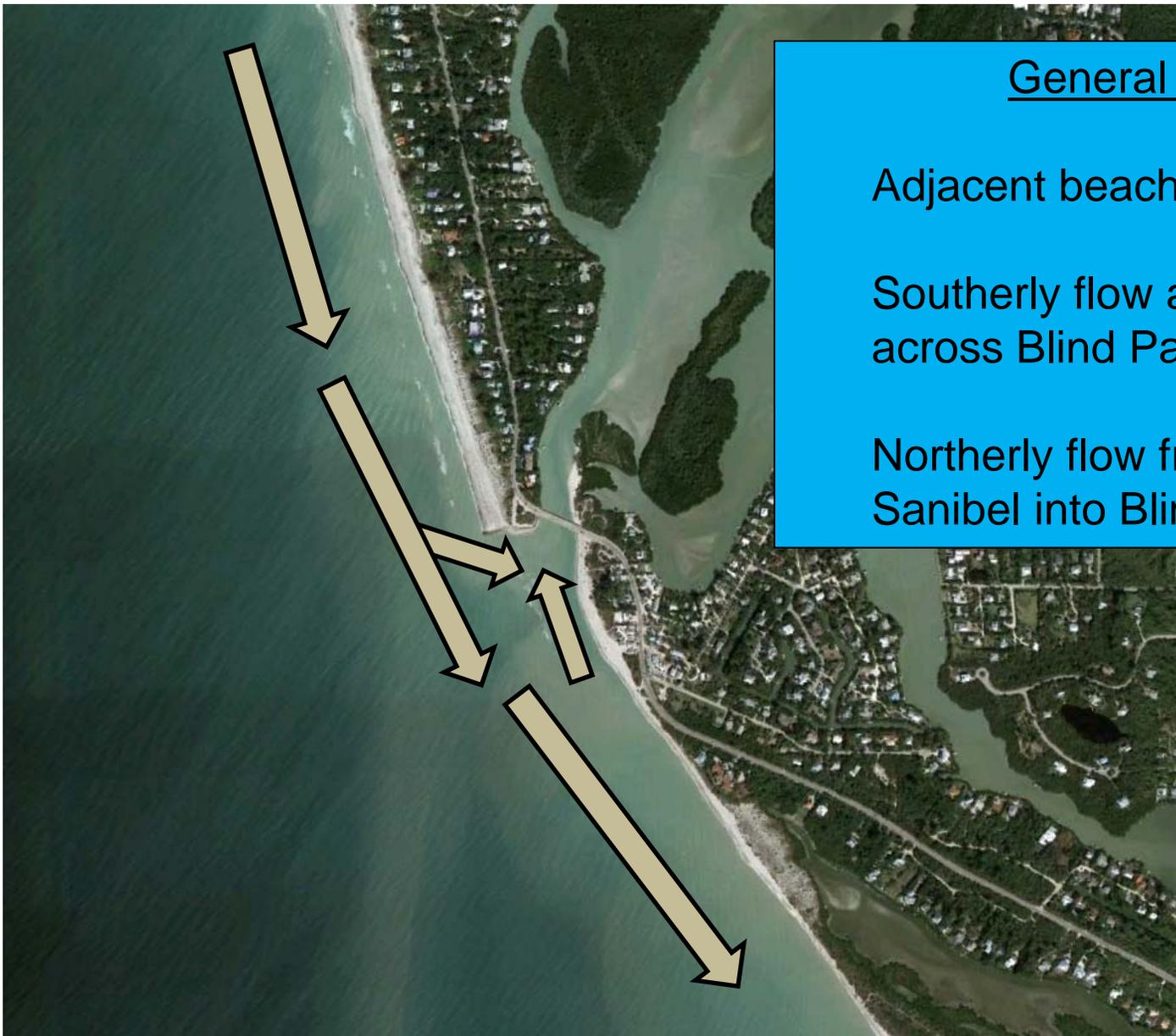
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Previous Study:  
1995 Blind Pass Inlet Management Plan

2016 Updated Study:  
Blind Pass Inlet Management Study: 2009-2015  
Open inlet condition





### General Findings

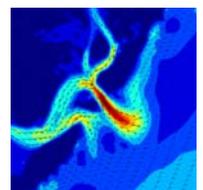
- Adjacent beaches are erosional
- Southerly flow along Captiva and across Blind Pass
- Northerly flow from north end of Sanibel into Blind Pass

## Trends Identified

- Jetty stabilizes Turner Beach
- Shoals form and migrate rapidly
- Meandering channel
- Erosional pressure on north end of Sanibel

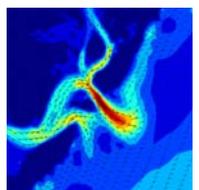
Factors that may be contributing are longshore transport, tidal prism, currents – which will be evaluated with the model.

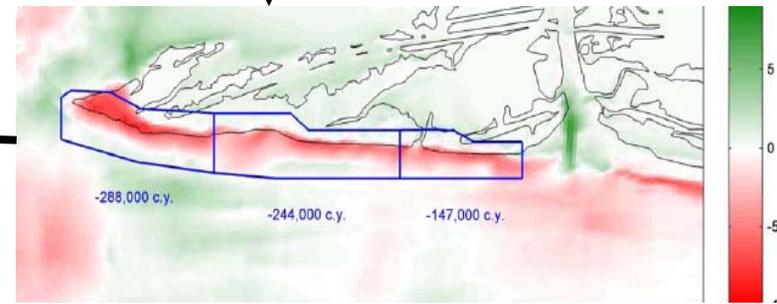
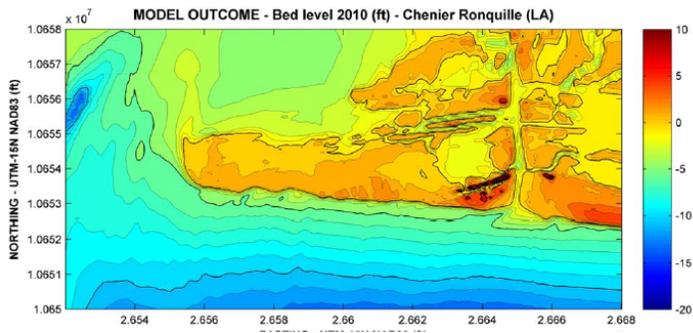
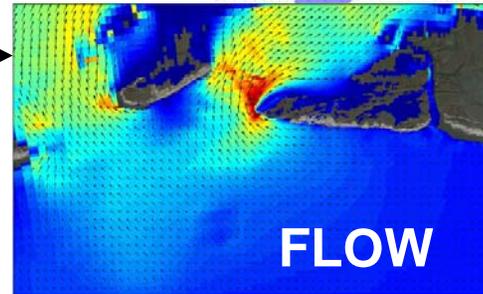
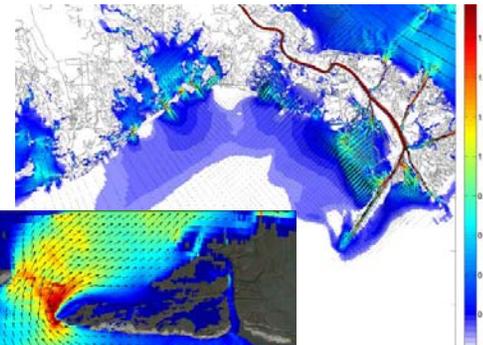
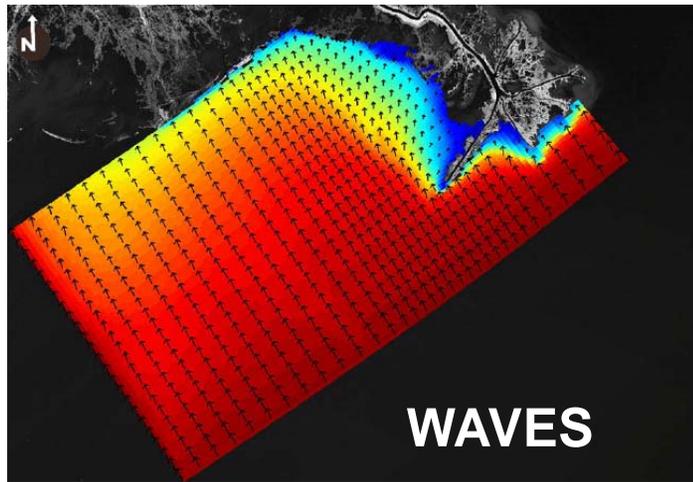
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## Numerical Modeling

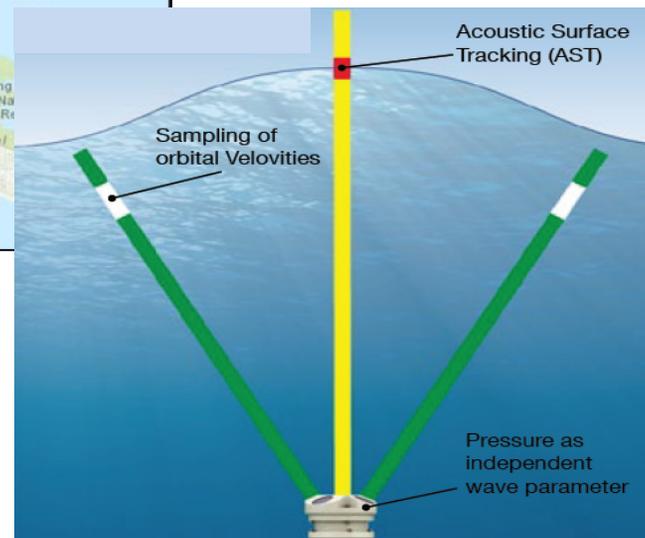
- Purpose: Used to simulate and compare outcomes of proposed management strategies and “no action” scenario
- Program: Delft3D
- How does it work?
  - Input data (bathymetry, waves, tides, currents, etc.)
  - Simulates “morphology”
  - Outputs final bathymetry

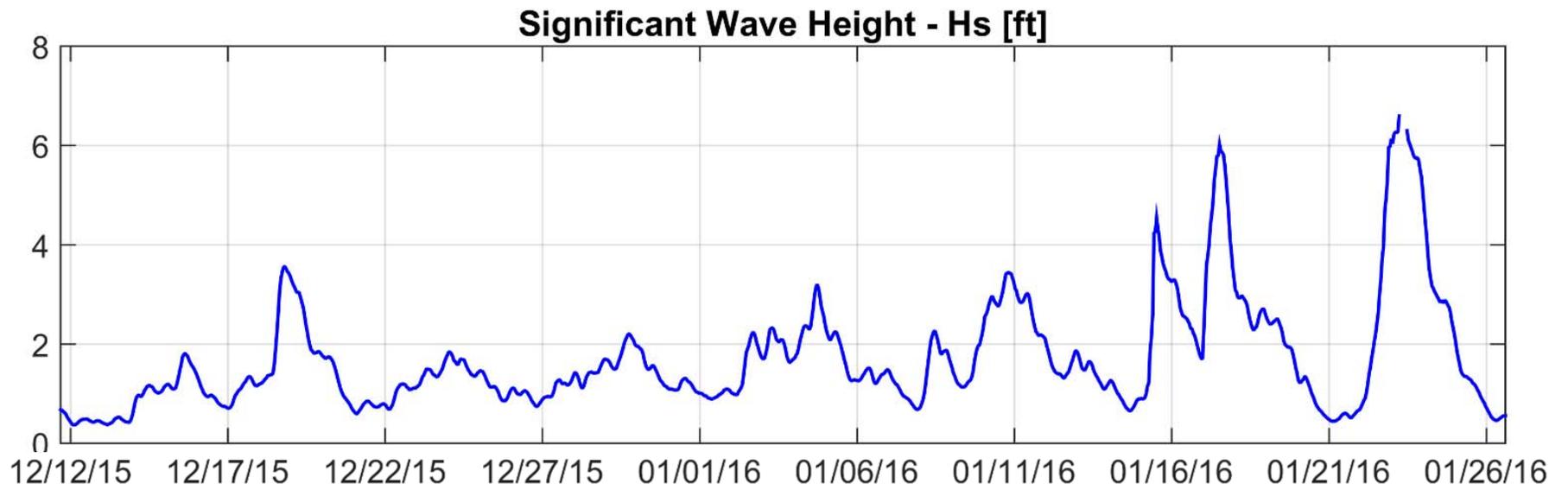


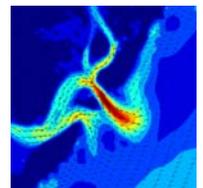
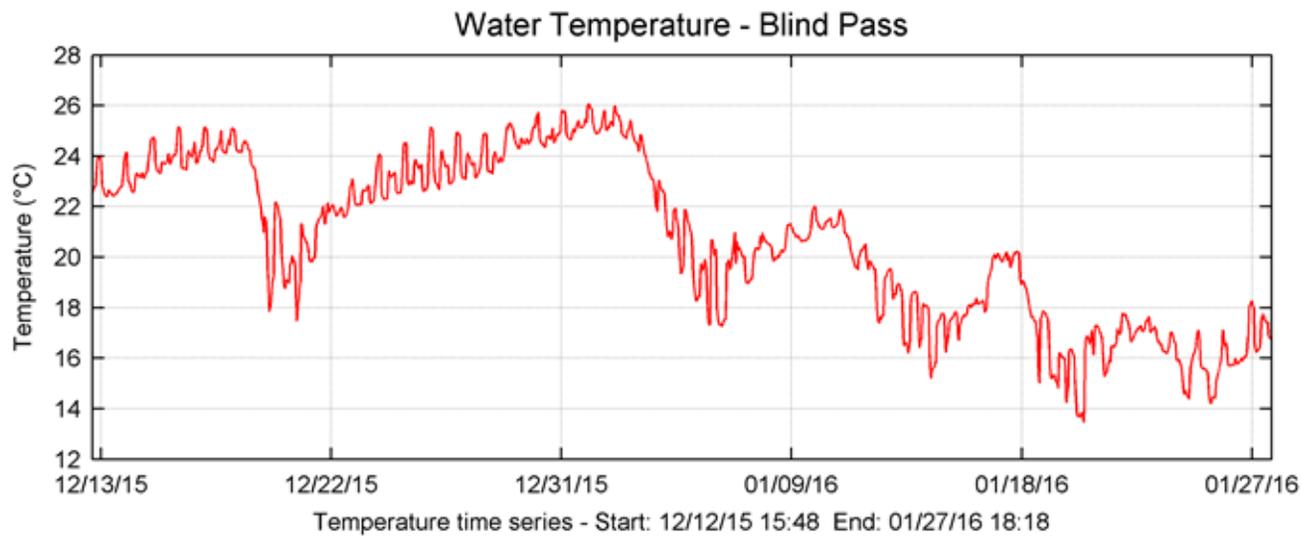
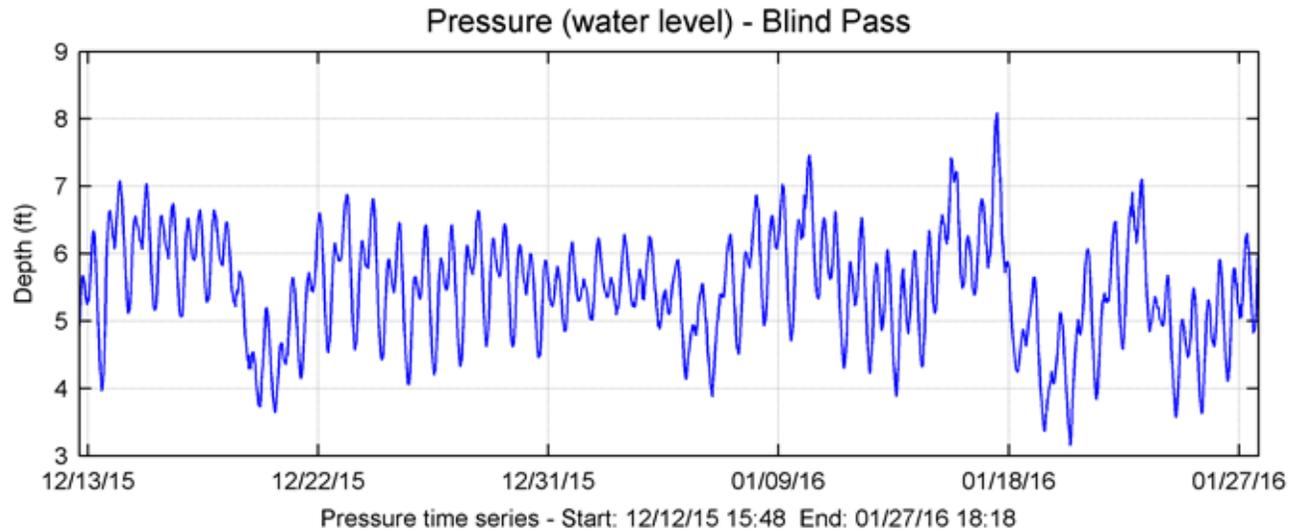


## Data Collected

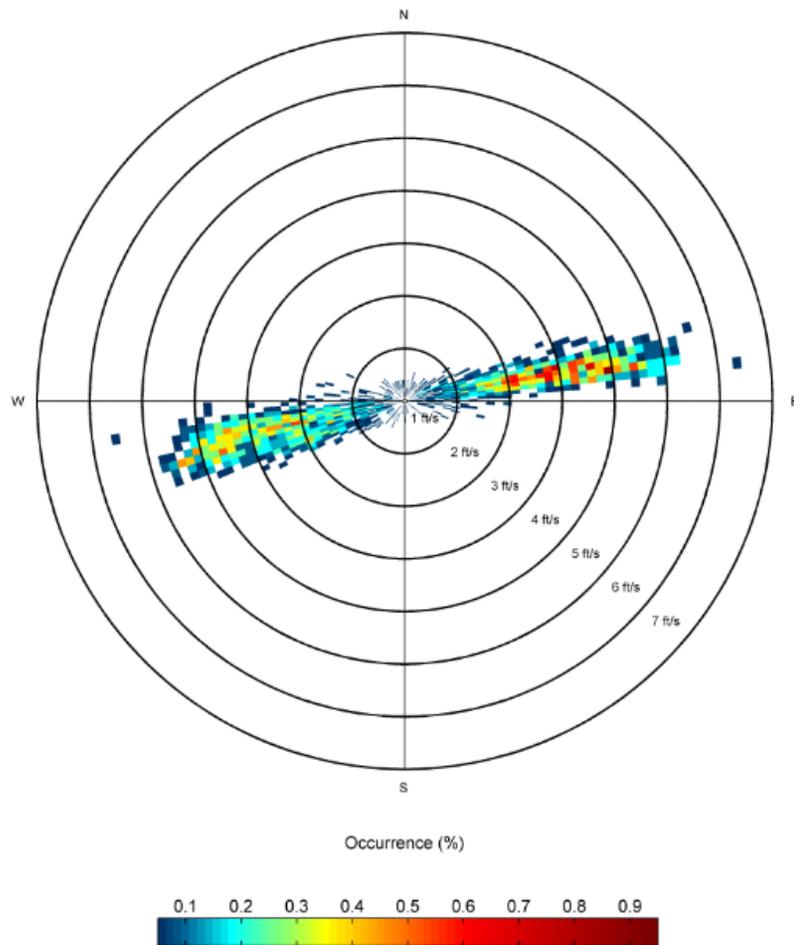
Bathymetry    Waves    Tides    Currents



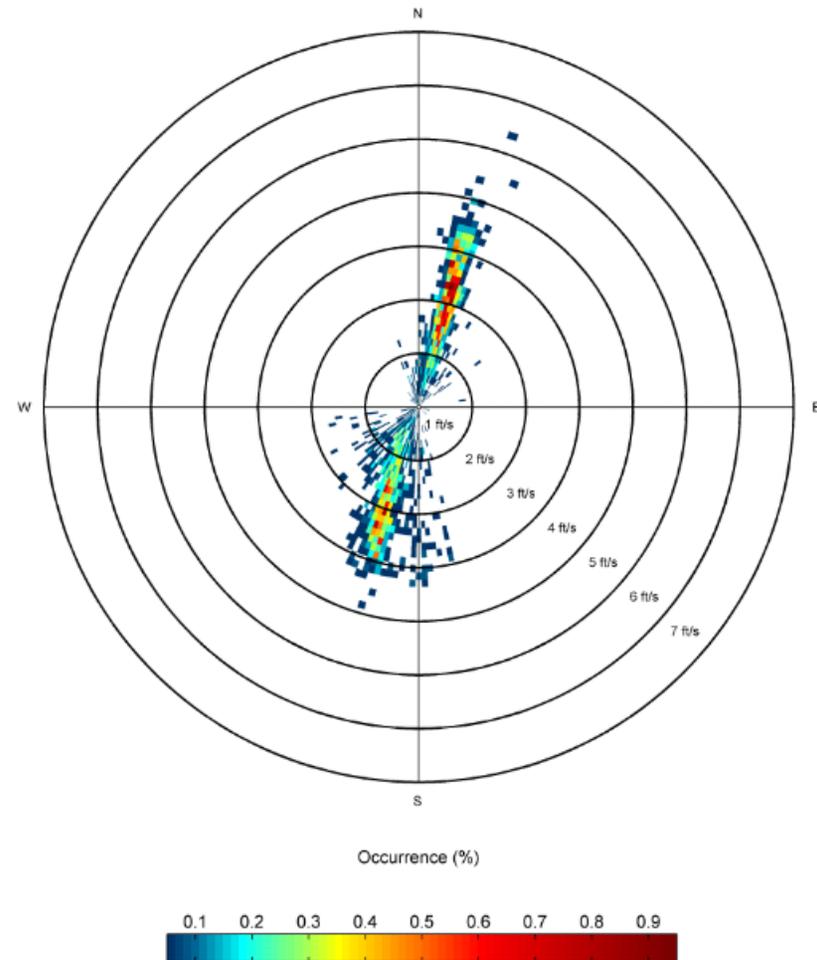




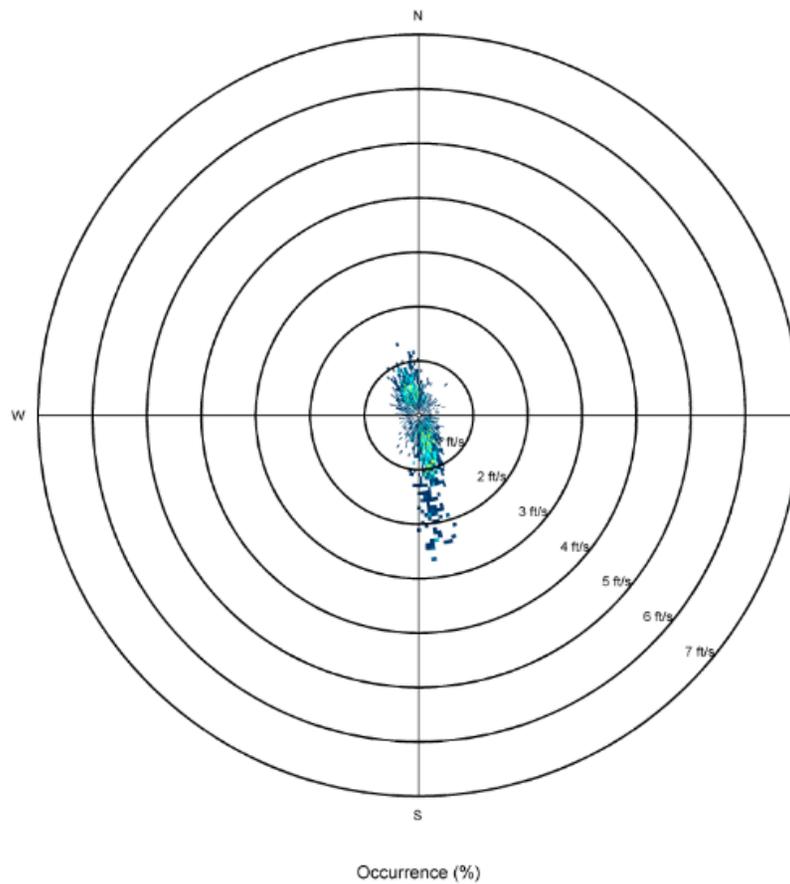
## Redfish Pass



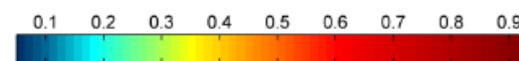
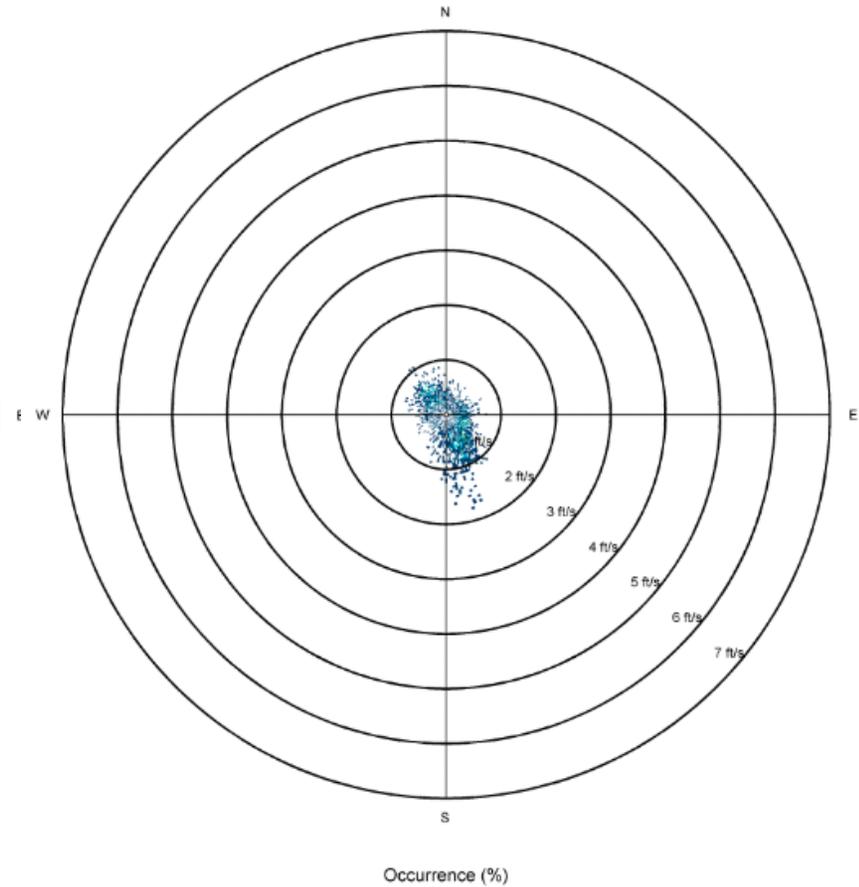
## Blind Pass



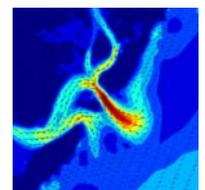
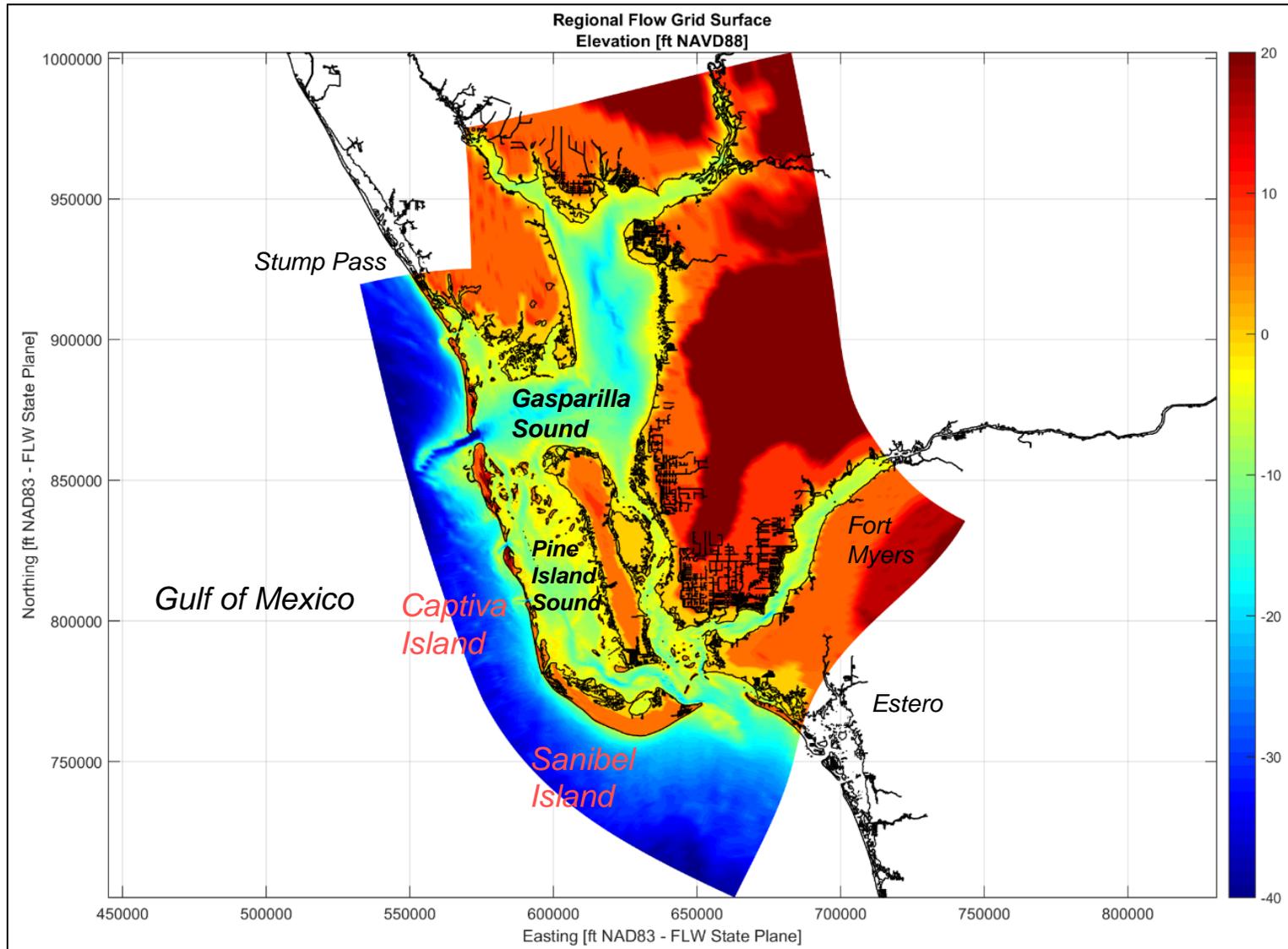
## Nearshore



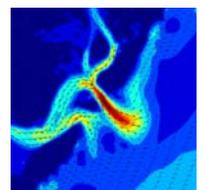
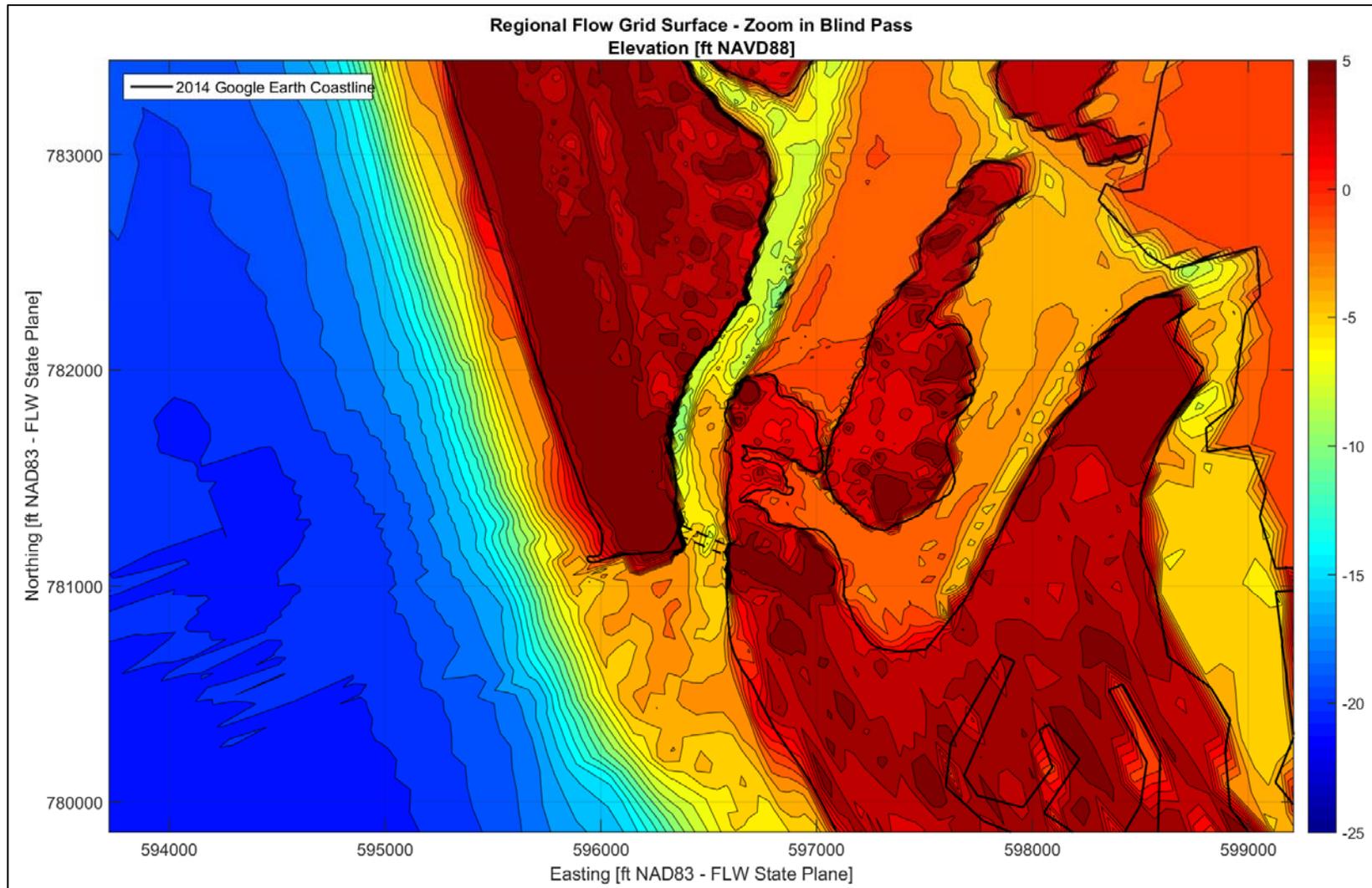
## Offshore

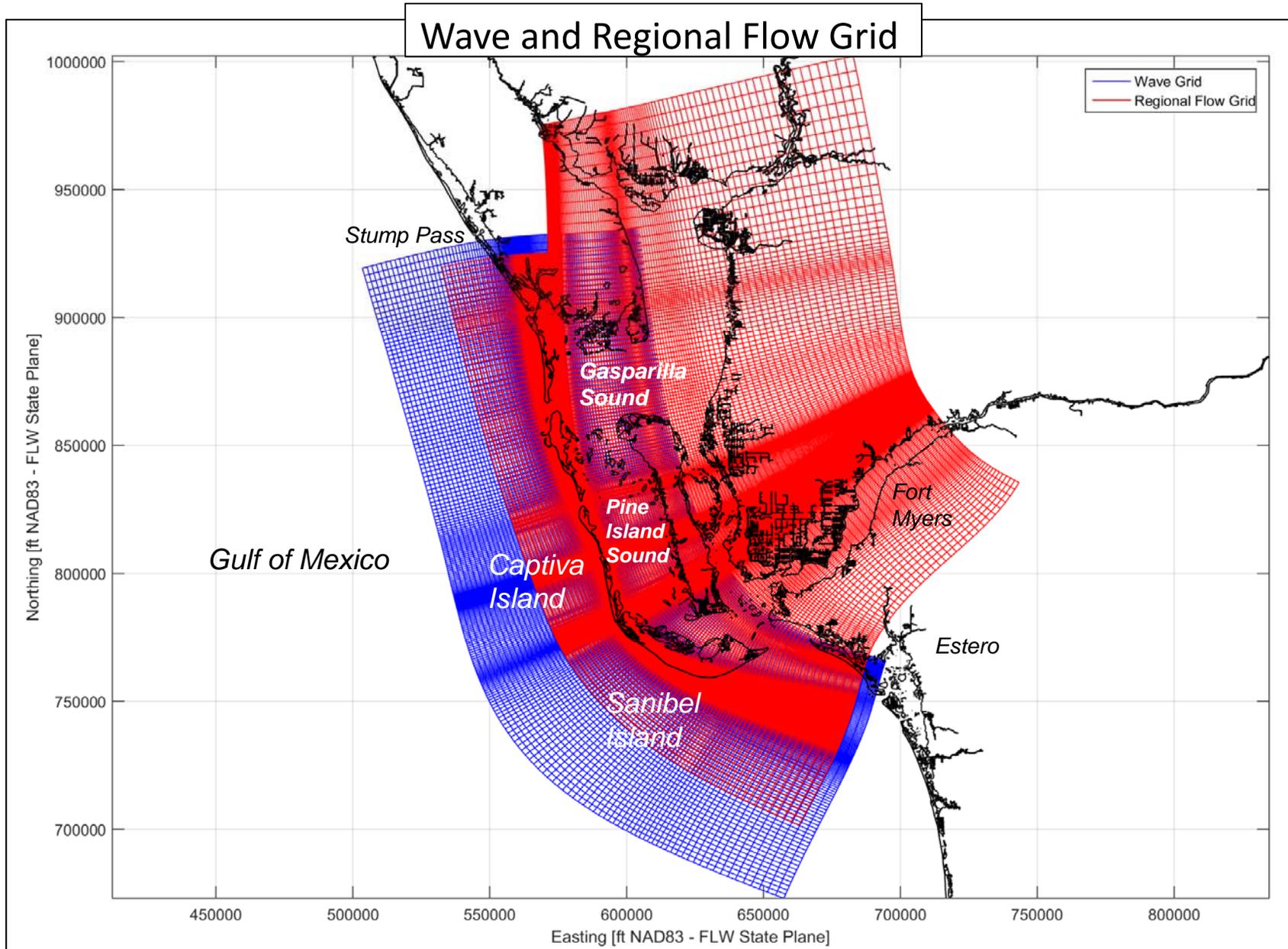


- Regional Flow Grid Bathymetry



- Regional Flow Grid Bathymetry – Blind Pass





## More to come ... Upcoming Stakeholder Meetings

#2: Model Calibration Results/Alternatives Development

#3: Results and Study Recommendations



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Thank you

