Florida Department of Environmental Protection



Division of Water Resource Management

Beach Nourishment & Nearshore Hardbottom

Danielle H. Irwin, Deputy Director 58th Annual FSBPA Conference September 26, 2014





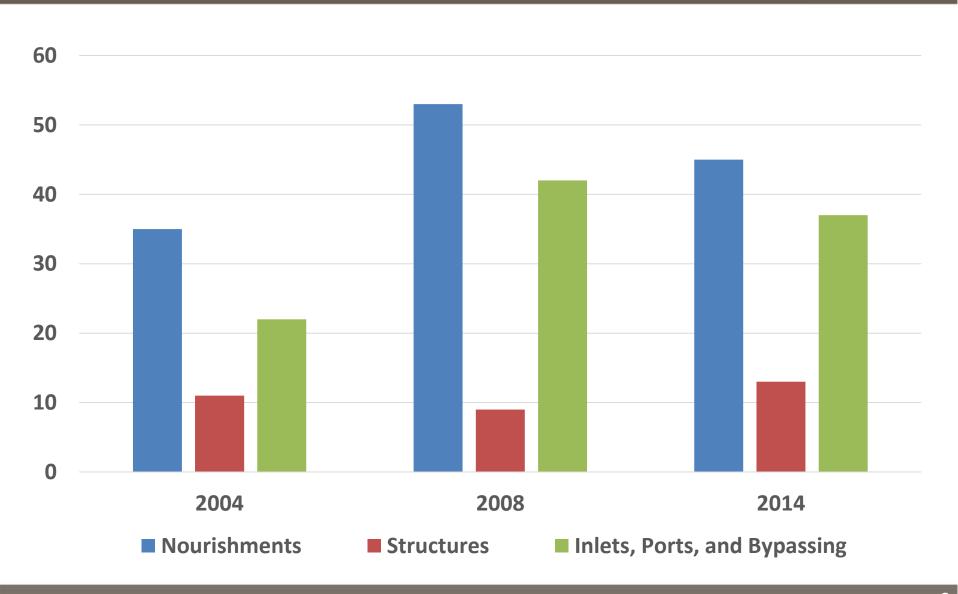






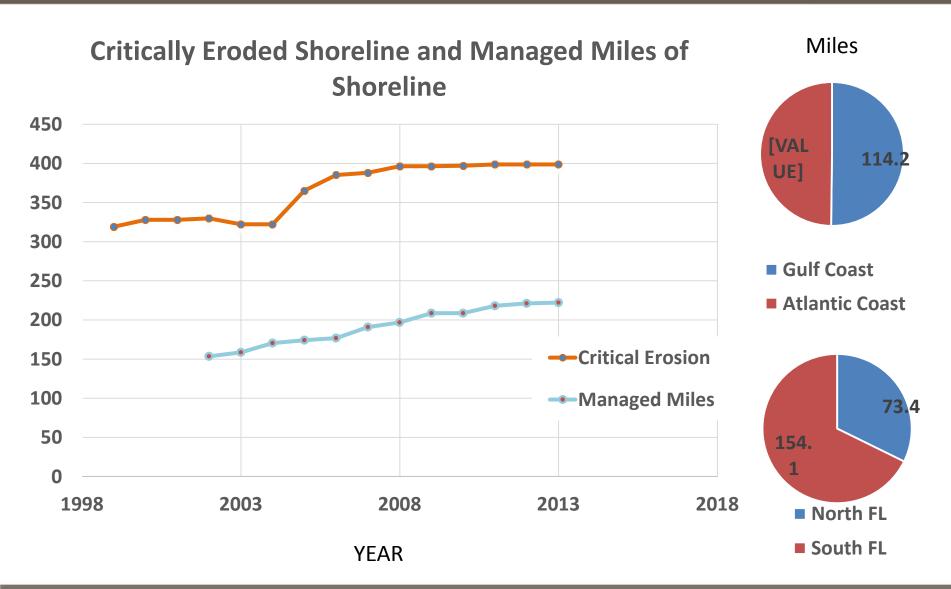


Active Permits by Type



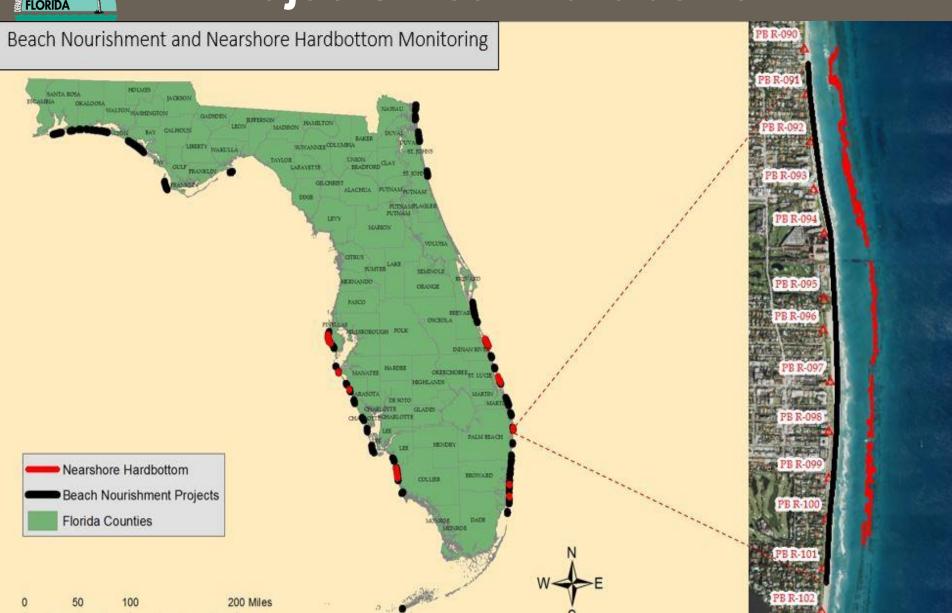


Beach Nourishments





Projects Near Hardbottom





Managing Hardbottom

- Pre-project Assessment
- Estimate Resource Impact
 - Direct
 - Secondary
- Mitigation to offset predicted impacts
- Monitor adjacent resources
- Mitigate if necessary for unanticipated impacts

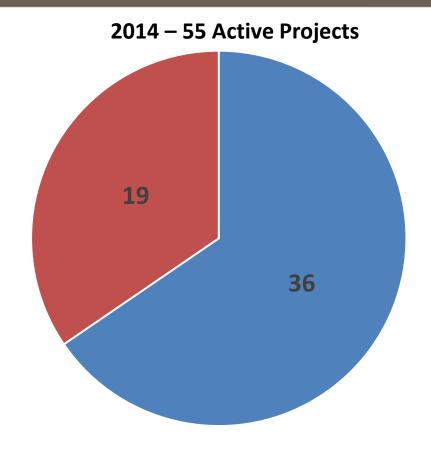




Nourishment Projects with HB

Historically...

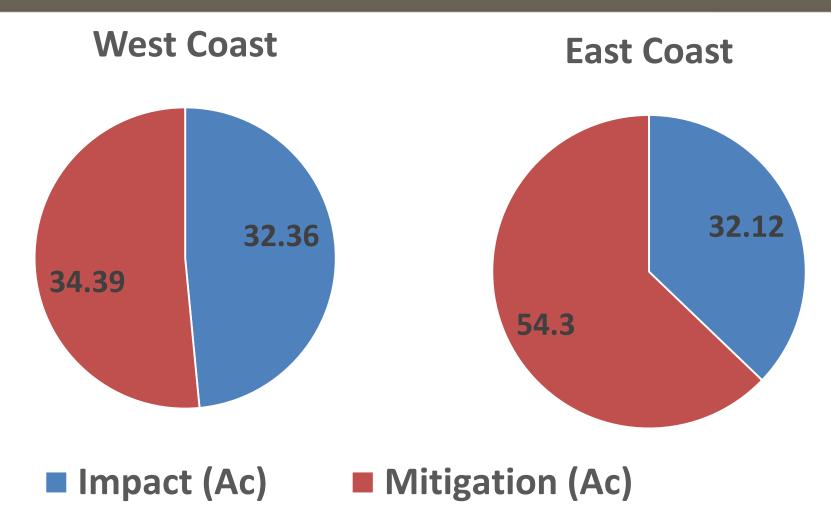
- 68 nourishment projects
- 41 projects had HB monitoring requirements (excl. ports)



- Projects without HB monitoring
- Projects with HB monitoring



HB Impact / Mitigation Summary



Hardbottom Mitigation = Various Types of Artificial Reefs



What is our review team doing?

- New Review Team
 - 3 Ph.D.s
 - Expertise coral, sponge, seagrass
- Training permit reviewers
- Reviewing monitoring reports
- Consistent analysis procedure
 - GIS Analysis tools, SOPs



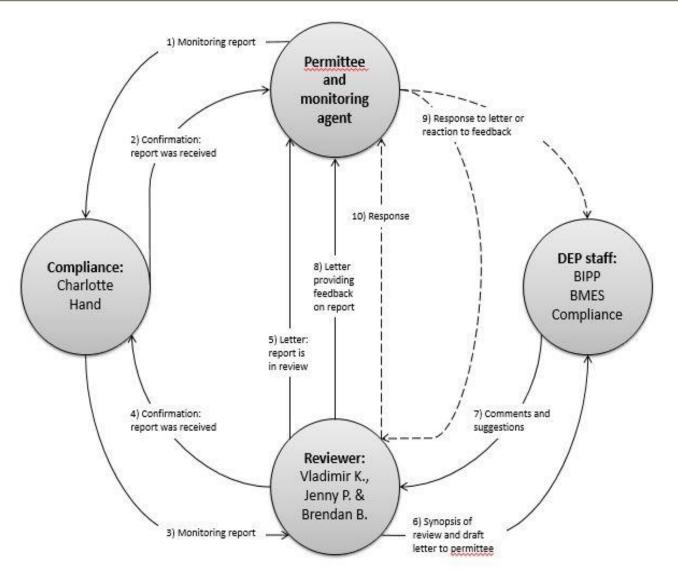








Resource Review – Feedback Loop



<u>Target Timeframe</u>

Receive report

30 Days

Letter to Permittee / Monitoring Agent

90 Days

Report Review &
Feedback to Permittee /
Monitoring Agent



Hardbottom Monitoring SOP

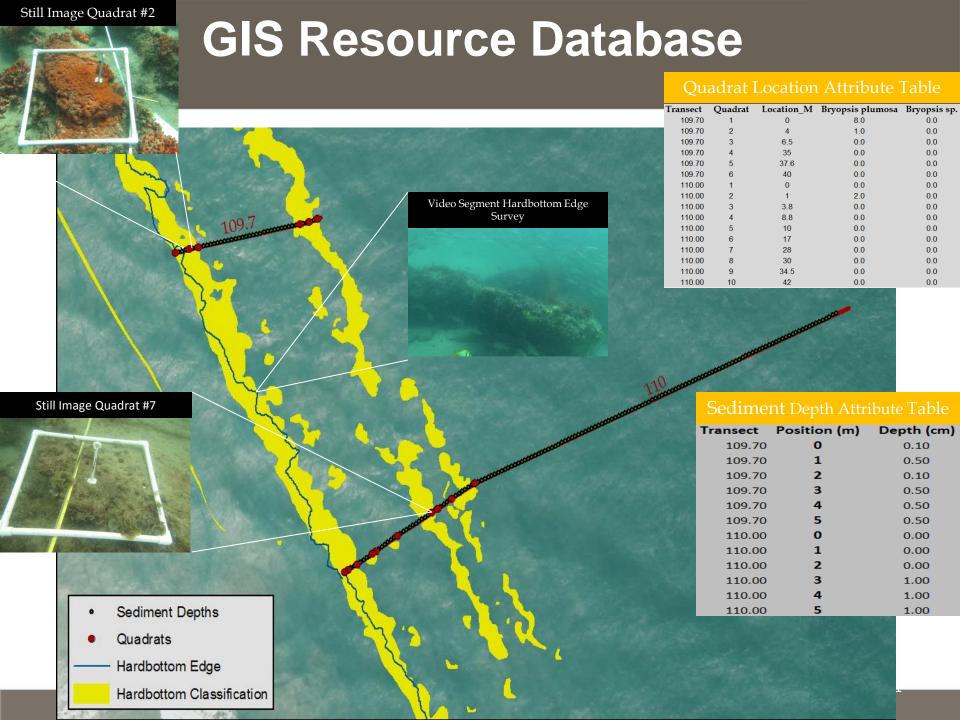
- Details of field protocol methodology
- Standardized monitoring techniques
 - Map and classify hardbottom
 - Conduct HB edge surveys
 - Establish and sample transects
 - Conduct video surveys
 - Conduct sediment monitoring
 - Sample quadrats
- More consistent data from all firms













Questions?

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