

Evaluation of Long Term Project Alternatives; Boca Raton FL

National Conference on Beach Preservation

Technology

February 8, 2012



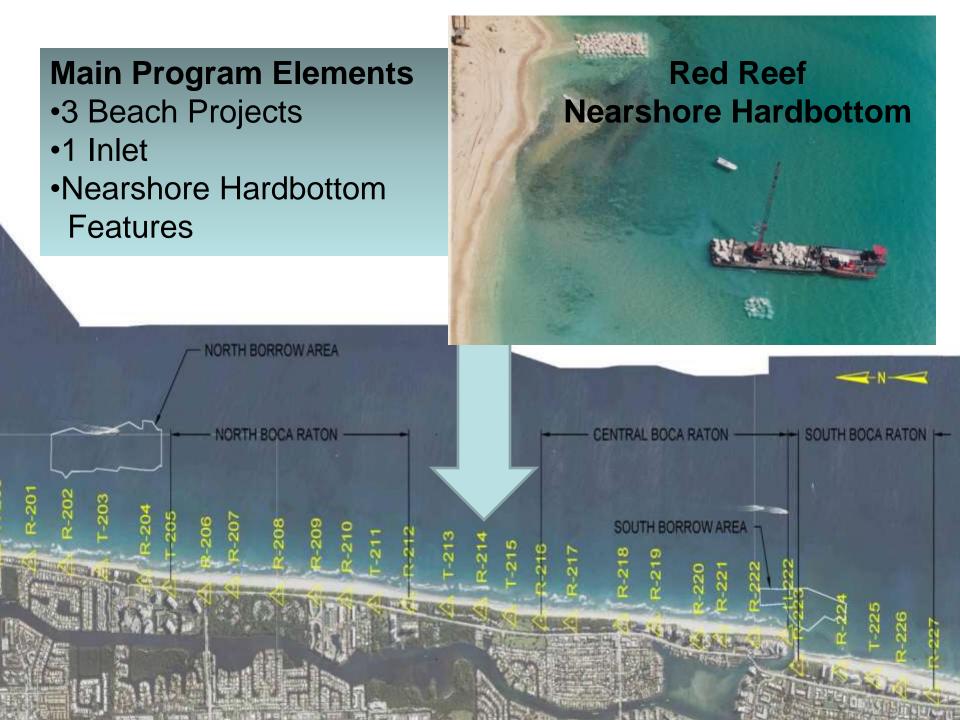


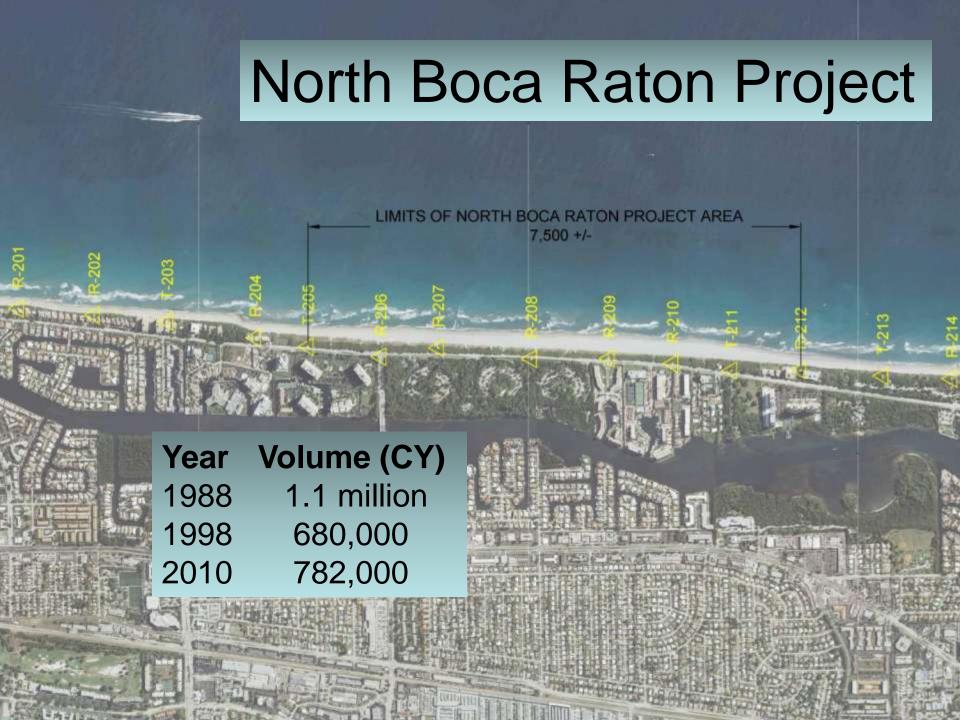


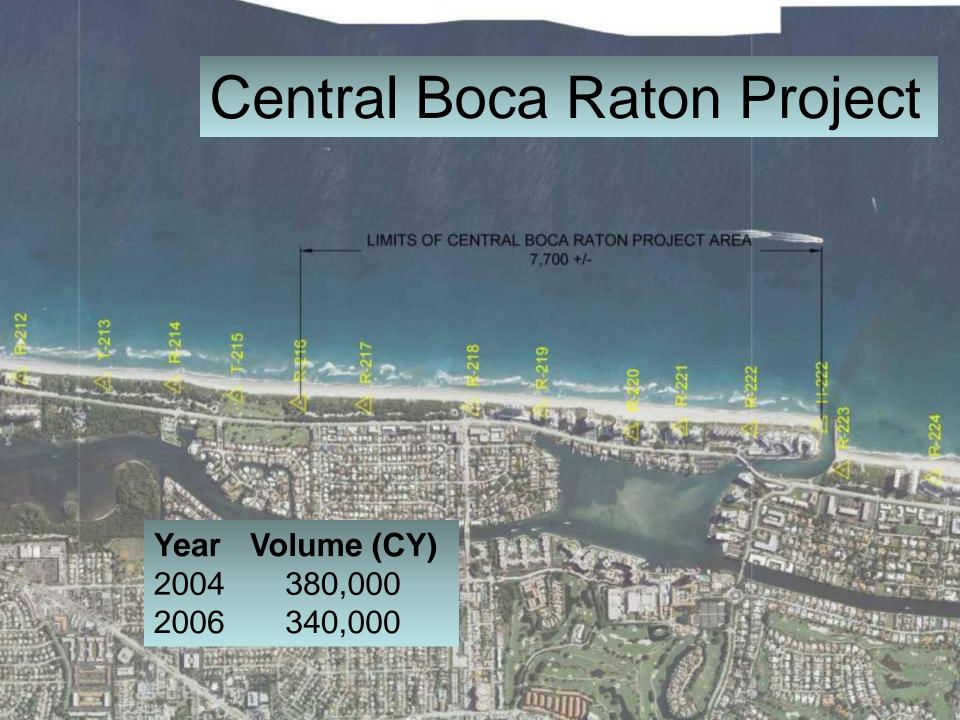
Boca's Beach Program

- Model Coastal Program
- Forward Thinking Coastal Land Acquisition
- First Federally Reimbursable Project (N. Boca)
- Proactive Inlet Management (City Owned Dredge)
- Renowned Turtle Program











South Boca Raton Project







Long-Term Program Goals

- Continue Program Successes
- Reduce Project Costs
- Optimize Project Performance
- Maximize the Effectiveness of Limited Sand Resources
- Streamline Regulatory Review and Approvals
- Adaptive Management





Program Optimization

- Extend Renourishment Intervals
- Combine Mobilization Costs
- Effectively Schedule Construction Phases
- Combine North and Central Projects?
- Consider North as a Feeder for Central?
- Does Timing Improve Performance?
- Can Variable Placement Improve Performance?





Inlet Management

- Maintain Draft/Safe Navigation
- Meet Bypass Requirements
- Feed South Boca Project
- Regulate/Minimize Inlet Shoaling









Ancillary Issues

- Long-Term Turtle Nesting Success
- Upland Lighting (Turtle Disorientation)
- Nearshore Hardbottom Resource Management
- Dune Vegetation Management







Conclusion

- Even Model Programs Need to Evolve
- Cost Containment is Critical to Long-Term Project Success
- Need to Maximize Finite Sand Resources
- Program Requires Continuous Improvement and Adaptation to Changing Conditions



