What are the Highlights?

• Coastal Permitting Overview
• Species / Habitat Issues
• Impact Assessment
• Mitigation Examples
Joint Coastal Permitting

Concurrent processing of permits (Section 161.055, F.S.):

✓ Coastal Construction Permit (Section 161.041, F.S.),
✓ Environmental Resource Permit (Part IV, Ch. 373, F.S.)
✓ Sovereign Submerged Lands Authorization (Ch. 253, 258, F.S.)

Joint Coastal Permit (JCP) requirements
Process Environmental Resource Permit (ERP) Applications (Part IV, Chapter 373, F.S.)

Dredge and fill activities in surface waters at deepwater ports listed under Section 403.021(9), F.S.
Active Permits by Type

- **Nourishments**
- **Structures**
- **Inlets, Ports, and Bypassing**

Number of Permits

Year

- 2004
- 2008
- 2014
- 2015
- 2016
Permitting Considerations

Avoidance and Minimization Measures

- Design alternatives
- BMPs (turbidity, dredge methods)

Public Interest

State Lands Issues

Water Resource Impacts
Species / Habitat Concerns

Wildlife considerations
- Shorebirds, turtles, manatees, etc.

Habitat considerations
- Water quality
- Sand quality
Main resource impacts resulting from JCP projects:

• Hardbottom
• Seagrasses
• Mangroves
Impact Assessment

If predicted impacts, conduct impact assessment:

Document / measure:

• Habitat type
• Condition, uniqueness
• Amount / area
• Wildlife utilization
• Significant features
• Functions

Mitigation Must:

• Offset adverse impacts
• Achieve mitigation success
Mitigation Types

**Restoration** - Converting back to historic condition

**Creation** - Establishment of resource to offset impact

**Enhancement** - Improving the ecological value of a degraded resource

**Preservation** - The protection of resources from adverse impacts
CHAPTER 62-345 F.A.C.- Uniform Mitigation Assessment Method (UMAM): Under Revision

Website: http://www.dep.state.fl.us/water/wetlands/mitigation/umam/index.htm
Seagrass/ Mangrove Mitigation

Seagrass Restoration

Mangrove Restoration
HB Mitigation - Creation

Artificial reef creation

Limestone boulders or reef modules

Most appropriate as replacement for loss of HB habitat
HB Mitigation – Restoration / Enhancement

- Coral nursery program
- Orphan coral / octocoral reattachment
- “Alternative HB Mitigation”
Increase mitigation effectiveness

Example: Sea urchins

- Scour surfaces
- Clean attachment areas
- Increase recruitment
• Coastal permitting often requires mitigation
• Appropriate impacts assessment and mitigation selection is essential
• New and “alternative” mitigation options being used
• Growing field of knowledge
• Adaptive field