

# SOUTH ATLANTIC DIVISION

## U.S. ARMY CORPS OF ENGINEERS

### 2016 NEW CONSTRUCTION



# MOBILE HARBOR

## PROJECT SCOPE:

Evaluate widening and deepening of Mobile Harbor up to its authorized dimensions.

- **12<sup>th</sup> Largest Port in Nation**
- **64 Million Tons Commerce in 2014**
- **237 Thousand Container TEUs in 2014**
- **28.7 Miles of Bay Channel**
- **8.1 Miles of Bar Channel**
- **4.6 Miles of River Channel**

## MILESTONES:

- **Study Length 48 months**
- **PACR Approval 25 Sept 2019**

## DREDGING REQUIREMENTS:

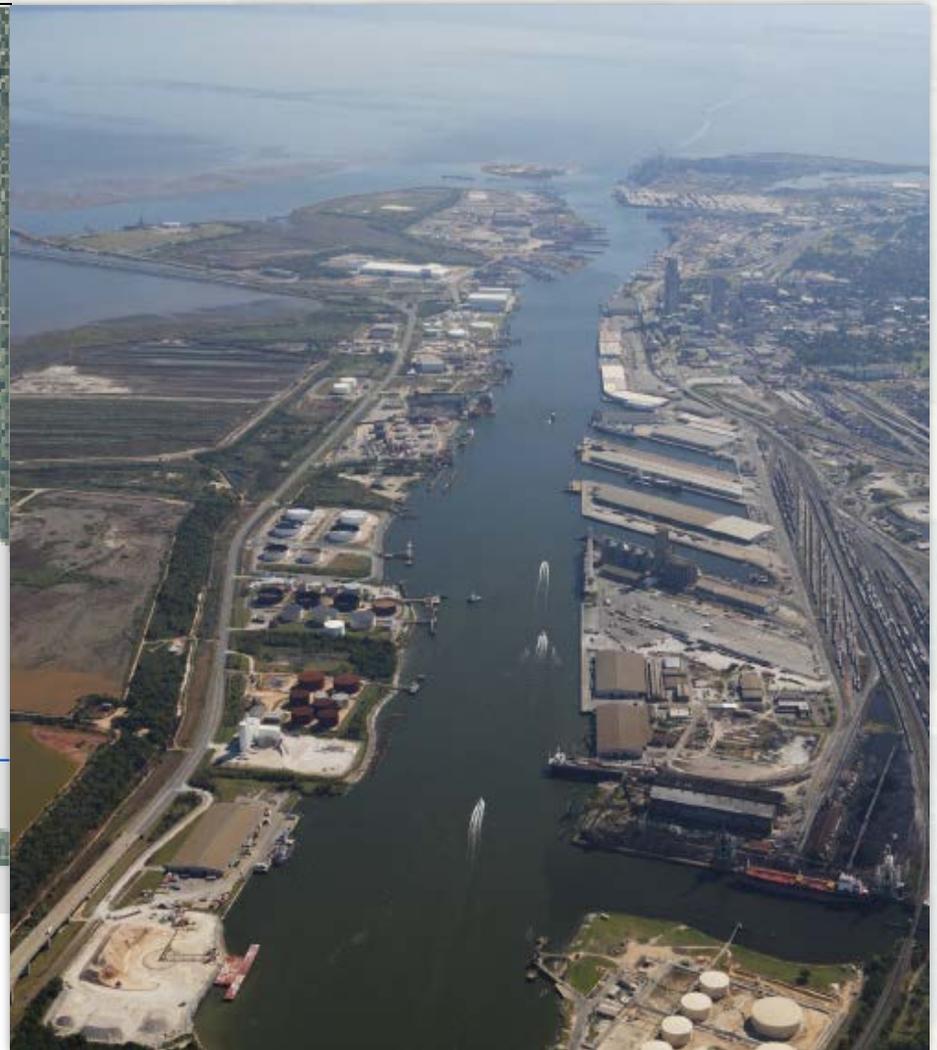
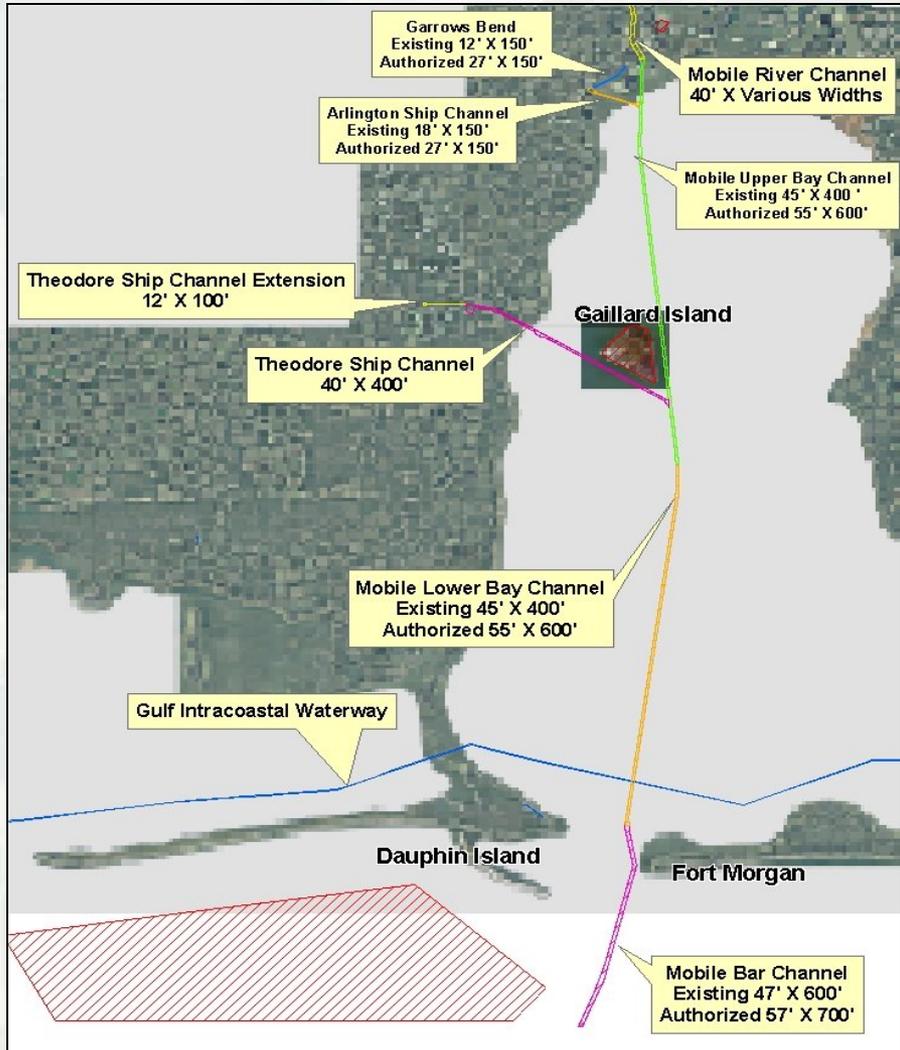
- Hopper/Mechanical
- Material type varies
- Bay- 55' x 550'
- Bar- 57' x 700'
- Approximately 100 million yards

## ISSUES/REMARKS:

- Will Require Significant Action by Federal, State & Local Agencies (USFWS, NMFS, EPA, ADEM, ADCNR, SHPO, etc.)
  - Supplemental Environmental Impact Statement
  - Section 7 Consultation
  - Section 103 Concurrence/Section 102 Designation - Cultural Resources



# MOBILE HARBOR, AL



**BUILDING STRONG®**

# MIAMI HARBOR DEEPENING

## Dade County, Florida

### PROJECT SCOPE:

- Deepening and widening channel to 50/52 ft MLLW.
- Creation of artificial reef, seagrass mitigation, and relocation of corals.
- **Quantity** – 5 mcy.

**Estimated Value: \$216m**

### MILESTONES:

- Commenced dredging – November 2013.
- **Dredging completed** – September 2015.

**Status:** construction complete

### DREDGING TECHNIQUES:

- **Dredge type:** Cutterhead, Clamshell, Hopper, backhoe.
- **Material type:** Hard limestone to soft sand.
- **Material placement:** ODMS and seagrass mitigation.
- **Windows:** None for dredging.
- **Expected post-construction maintenance cycle/quantities:** 10-15 years, very minimal cy expected.

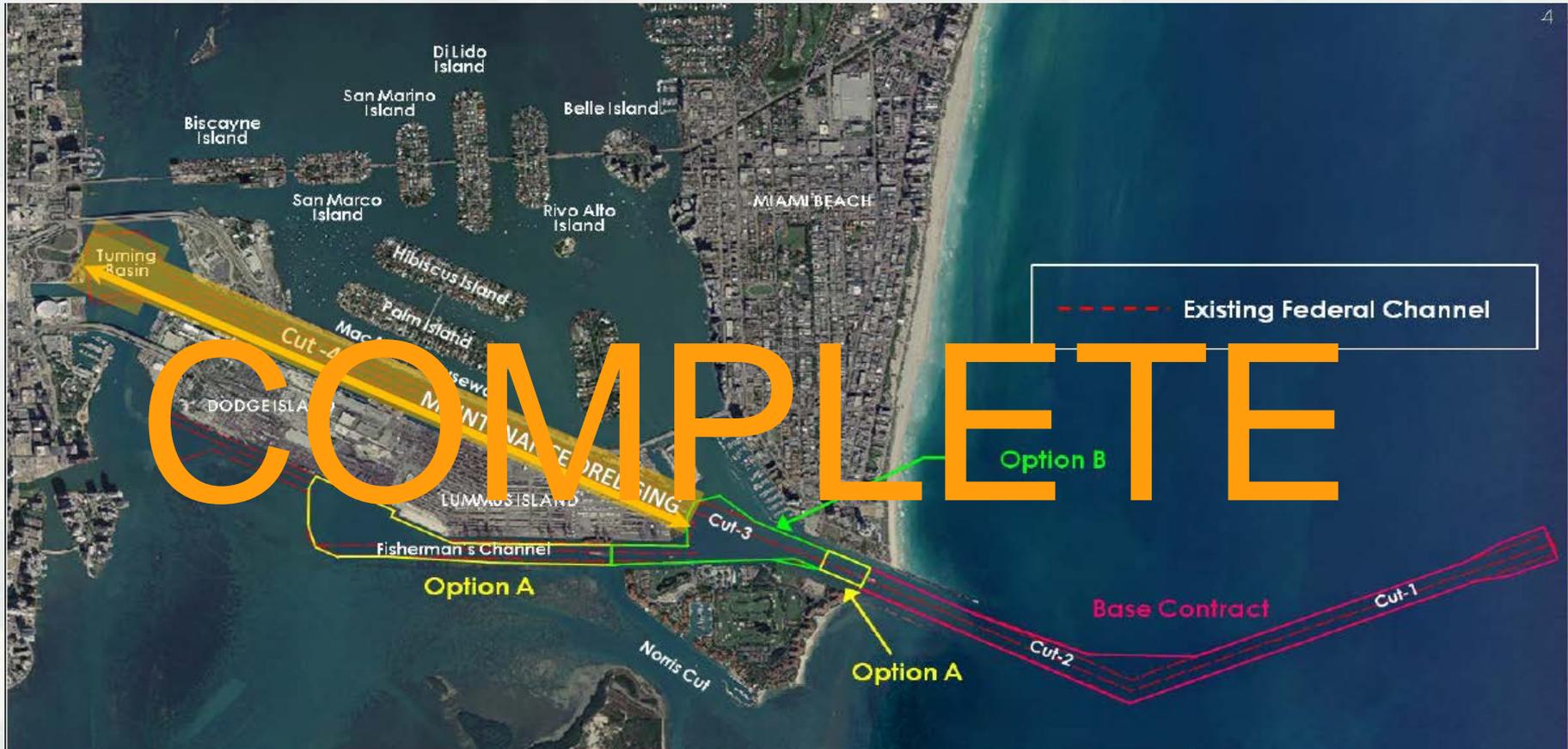
### ISSUES/REMARKS:

- **Environmental issues:** coral, hardbottom, and seagrass adjacent to channel, sedimentation effects of dredging operations.
- **Concerns:** agency and public perceptions of permit/regulation violations.
- **Challenges:** containing fine sediment while maintaining efficient operations and preventing scow draft loss (ERDC DOTS evaluation ongoing). Responding to lawsuits.



# MIAMI HARBOR DEEPENING

## Dade County, Florida



Base Contract	Option A	Option B
Widen seaward portion of Cut-1 from 500 to 800 feet; deepen Cut-1 and Cut-2 from 44 to 52 feet; reef and seagrass mitigation area construction.	Cut 3 station 0 to Cut 3 station 12 and Fisherman's Channel Station 17 to Lummus Island Turning Basin end; deepen from 42 to 50 feet	Cut 3 station 12 to Fisherman's Channel station 17; Local sponsor berthing areas F.C. station 8 to 17; deepen from 42 to 50 feet

# PORT EVERGLADES HARBOR DEEPENING

## Broward County, Florida

### PROJECT SCOPE:

- Deepening and widening channel to 48/50 ft MLLW.
- Creation of artificial reef, seagrass mitigation, and relocation of corals.
- **Quantity** – 5.5 mcy.

**Estimated Value: \$260m**

### DREDGING TECHNIQUES:

- **Dredge type:** Cutterhead, Clamshell, Hopper, backhoe.
- **Material type:** Hard limestone to soft sand.
- **Material placement:** ODMS and seagrass mitigation.
- **Windows:** None for dredging.
- **Expected post-construction maintenance cycle/quantities:** 10 years, very minimal cy expected.

### MILESTONES:

- Estimated Commenced dredging – 2018.
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**Status:** PED Phase on-going.

### ISSUES/REMARKS:

- **Environmental issues:** coral, hardbottom, and seagrass adjacent to channel, sedimentation effects of dredging operations.
- **Concerns:** agency and public perceptions of permit/regulation violations.
- **Challenges:** containing fine sediment while maintaining efficient operations and preventing scow draft loss.



# PORT EVERGLADES HARBOR DEEPENING



**LOCATION:** Broward County, Florida

**DREDGE TYPE:** Multiple

**PLACEMENT:** ODMDS

**QUANTITY:** ~5,500,000 CY

**DEPTH:** 48 feet

**BUSINESS TYPE:** TBD

**ADVERTISE:** TBD

**BID OPENING:** TBD

**AWARD:** TBD

**ISSUE NTP:** TBD

**COMMENCE DREDGING:** ~2018

**DREDGE COMPLETE:** TBD



# Jacksonville Harbor Deepening 47'

## PROJECT SCOPE:

- 4 Contracts (all with base + options)
- 13 miles of deepening 40' – 47' (1' required 1' allowable)
- 2 Widening Areas
- 2 Turning Basins
- ~18M CY of dredging material
- Ocean Disposal - 7 miles offshore

**Estimated Value (all 4 contracts) :\$710M**

## DREDGING REQUIREMENTS:

- Blasting may be required

## MILESTONES (Contract A):

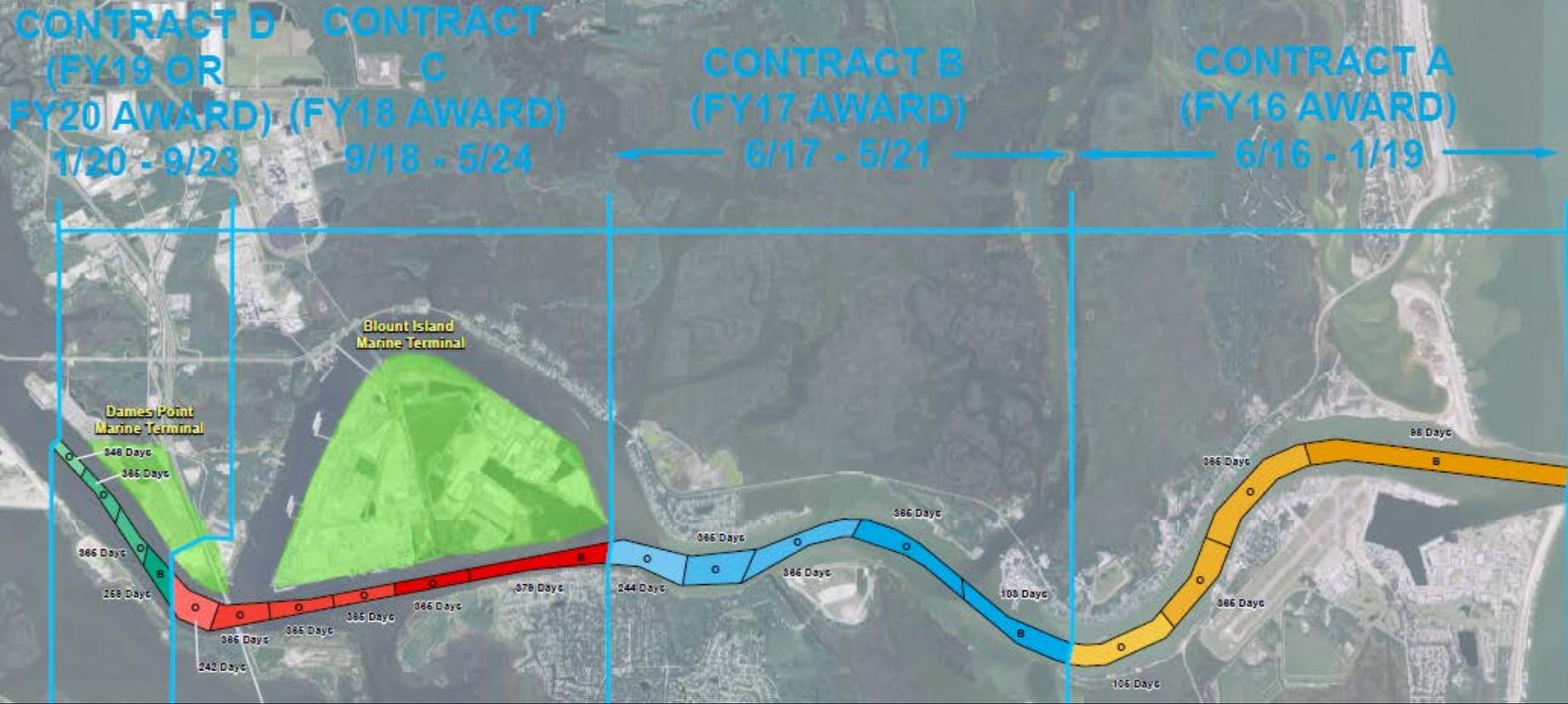
- Advertisement – May 2016
- Bid Opening – June 2016
- Award – September 2016

## ISSUES/REMARKS:

- Close coordination with Pilots, USCG, Navy
- Project will be 100% funded by the local sponsor - JAXPORT



# Jacksonville Harbor Deepening 47'



# Savannah Harbor Expansion Project (SHEP), Savannah, Georgia

## PROJECT SCOPE:

- Deepen 33 miles of existing channel from 42' to 47'
- Extend Entrance Channel 7 Miles
- Construct 3 Bend Wideners
- Construct 2 Meeting Areas
- 10 Out-Of-Channel/Non-Dredging Contracts

## DREDGING REQUIREMENTS:

- Equipment Mix: Hopper/Cutter/Mechanical
- Timing/Windows:
  - Entrance – December through March
  - Inner Harbor – No Hopper
- Material primarily sands & silts, some clays, no expansive rock

## MILESTONES:

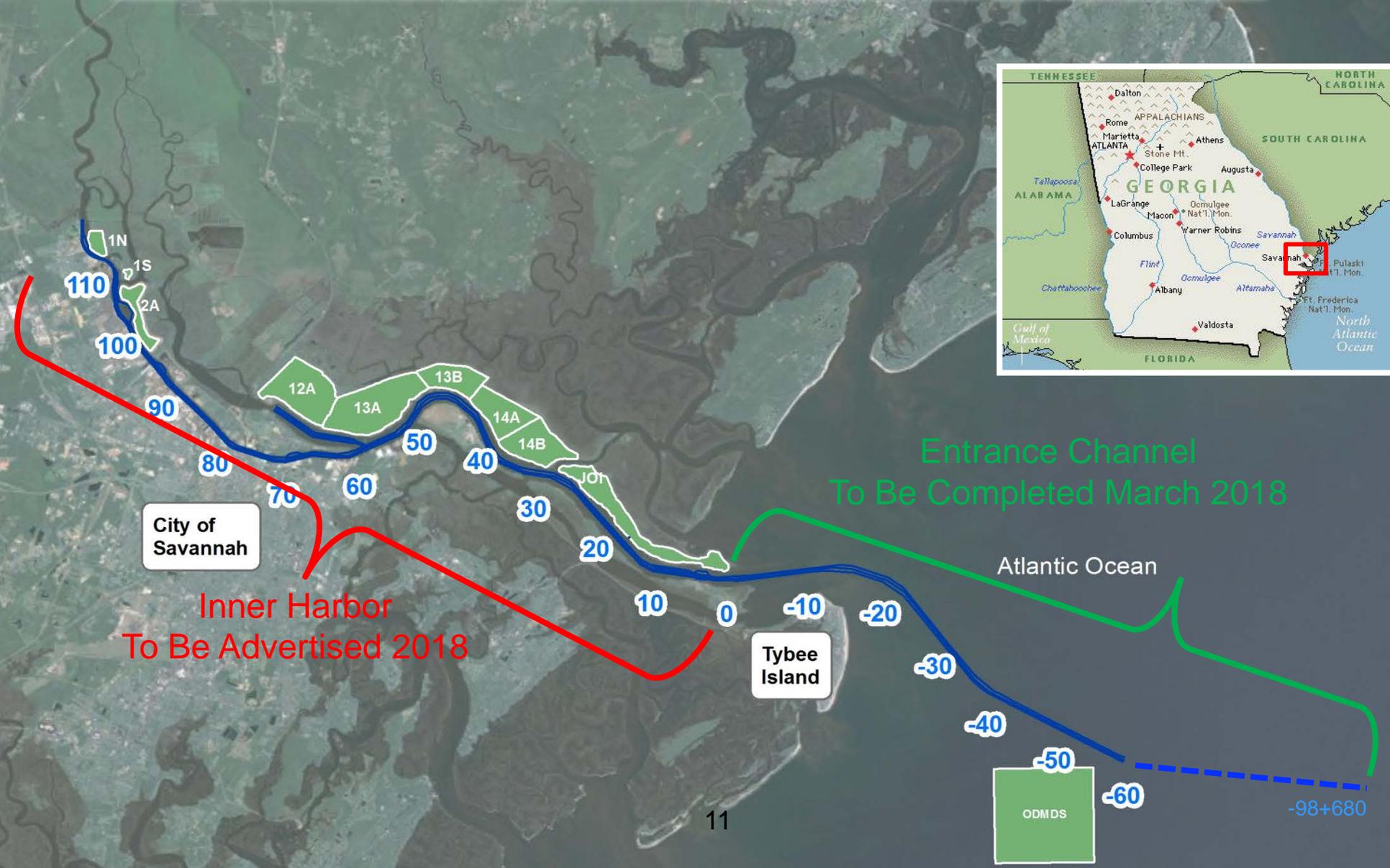
- Entrance Channel Dredging Contract: Awarded 4 March 2015 - \$135M
- Dissolved Oxygen System Contract: Awarded 31 July 2015 - \$100M
- Water Storage Impoundment Contract: Proposals received 8 October 2015
- 18 MCY Inner Harbor Dredging Advertisement anticipated in 2018

## ISSUES/REMARKS:

- None



# Savannah Harbor Expansion Project (SHEP) Savannah, Georgia



# Charleston Harbor Post 45 Feasibility Study Project, South Carolina

## PROJECT SCOPE:

- Recommended plan from the recently signed Chief's Report would deepen the entrance channel from 47 to 54 ft, most of the inner harbor from 45 to 52 ft, and channel segments to N Charleston from 45 to 48 ft. Turning basins and specific channel segments would also be widened.
- Disposal Areas: Raise existing DMDFs and modify ODMS

## MILESTONES:

- Chief's Report signed 08 Sept 2015
- Report currently under review by OMB
- Anticipated Construction Start: Upon Authorization and/or completion of PED
- Duration of Construction: Approx. 48 – 72 Months; Funding Stream Dependent

## DREDGING REQUIREMENTS:

- Equipment Mix:
  - Hopper/Cutter/Mechanical
- Timing/Windows:
  - Entrance – Dec thru March
  - Inner Harbor – None
- Approx. 40 MCY – Material-Primarily Sands and Silts with some clays and loosely cemented limestone

## ISSUES:

- Under the recommended plan, consolidated material from the entrance channel would be used beneficially to create a berm around the modified ODMS and eight (8) placement sites for mitigation (2) and habitat enhancement (6).
- Currently evaluating other beneficial use alternatives, mainly within the





## RECOMMENDED PLAN

Recommended Plan is the Locally Preferred Plan (LPP)

- Entrance channel: 54' depth
- Entrance channel 3-mile extension
- Segment 1: 52' depth
- Segment 2: 52' depth
- Segment 3: 48' depth
- Widening in select areas

