STATISTICAL PORT BOUNDARY PROJECT

Institute for Water Resources
Date: 30 March 2020
# PROJECT DESCRIPTION

## Scope:

To utilize a Geographic Information System (GIS) to prepare a USACE enterprise-wide statistical port boundary polygon feature class per Engineering Regulation 1130-2-520 and organized in Spatial Data Standards for Facilities, Infrastructure and Environment (SDSFIE) 4.0.2 format.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>portidpk</td>
<td>Existing TOWS port code (ex. 3105)</td>
</tr>
<tr>
<td>featureName</td>
<td>Port Name based on legislation</td>
</tr>
<tr>
<td>metadataId</td>
<td>Geometry type of port&lt;br&gt; L = Legislation&lt;br&gt; M = Municipal Limit&lt;br&gt; O = Other</td>
</tr>
<tr>
<td>mediaId</td>
<td>Lookup code to reference legislation document.</td>
</tr>
<tr>
<td>featureDescription</td>
<td>Narrative description /comments related to the statistical port boundary GIS work</td>
</tr>
<tr>
<td>sdsid</td>
<td>Generic GIS ID (Leave empty)</td>
</tr>
<tr>
<td>installationId</td>
<td>If port has a military code, then enter SDSFIE DA code.</td>
</tr>
</tbody>
</table>

## Points of Contact:

**Justin Pummell**  
Project Manager  
Justin.D.Pummell@usace.army.mil

**Dr. Forrest Vanderbilt**  
Public Outreach  
Forrest.B.Vanderbilt@usace.army.mil

## Start:

01 October 2019

## Program:

Navigation
ENGINEER REGULATION 1130-2-520

- USACE’s Navigation Data Center (NDC) is responsible to collect, compile, publish, and disseminate waterborne commerce statistics. Delegated to the Waterborne Commerce Statistics Center (WCSC).

- Performance of this work is in accordance with the Rivers and Harbors Appropriation Act of 1922.

- ER 1130-2-520 defines a port area as:

  1) Port limits defined by legislative enactments of state, county, or city governments.

  2) The corporate limits of a municipality.
INSTITUTE FOR WATER RESOURCES

1. Institute for Water Resources National Capital Region (IWR-NCR)
   Alexandria, VA
   - Forward-looking analysis, methodologies, and tools
   - Analyses of emerging water resources trends and issues
   - Develops training
   - Fosters partnerships
   - National data management
   - Offices in 5 locations

2. Navigation & Civil Works Decision Center (NDC)
   Alexandria, VA
   - Direct data support to navigation, hydropower, recreation, homeland security, and emergency and readiness functions
   - Manages Civil Works Business Intelligence (CWBI)
   - Responsible for Federal water transportation statistical programs
   - Manages infrastructure utilization and performance information
   - Collects and disseminates data across:
     - Lock Performance Monitoring System
     - Dredging Information System
     - Notices to Navigation Interests
   - Oversees the Waterborne Commerce Statistics Center (WCSC)

3. Waterborne Commerce Statistics Center (WCSC)
   New Orleans, LA
   - Collects, processes, compiles, and publishes waterborne commerce statistical data
   - Documents and publishes:
     - Commercial port infrastructure served by federal channels
     - U.S. vessels available for operation in waterborne commerce as well as their principal trades and zones of operations.

4. Hydrologic Engineering Center (HEC)
   Davis, CA
   - Supports water resources management
   - Increases technical capability in hydrologic engineering and water resources planning
   - Develops software systems and analysis procedures used worldwide
   - Trains software users

5. Risk Management Center (RMC)
   Golden, CO; Pittsburgh, PA
   - Independent advisor to leadership
   - Assesses USACE dam and levee systems' risk
   - Develops dam and levee safety policies, methods, and tools
   - Supports consistent risk assessment processes
WHY ARE WE DOING THIS?

1. Revolutionize Civil Works
2. Data Modernization (per the Open Data Act)
WHAT’S AT STAKE?

• Federal Budget
  • Performance-based budgeting
  • Federal Funding for New and Existing Federal navigation projects
  • Investment to improve delays
  • High/Medium/Low Use Coastal Channels and Waterways

• Grants
  • Agency assessments of Port and Waterway Performance
  • Regional Economic Indicators

• Private Investment Decisions

NOTE: A Statistical Port ≠ Corps Project
PROJECT TEAM

Project Sponsors
Mark Sudol*
Mark Point
Tom Podany
Doug McDonald (MARAD)
PJ Donovan (PCX-IN)

PM
Justin Pummell*

Technical Experts (Ports/GIS)
Amy Tuujague*
Kevin Cutress
Justin Bonanno
Katie Lientz (MARAD)
April Lloyd (MARAD)

Technical Experts (Public Outreach)
Forrest Vanderbilt*
Sydnie Hetzel
Matt Chambers (BTS)

Technical Experts (Dock Reconciliation)
Bob Ray*
Judy Kehoe
Sean Kenny
Shaku Jain
Autumn Pittman (For PCX-IN AOR)

Customers
Appendix A

*Lead
PROJECT PHASES

START
- Confirm Funds Available
- Identify PM
- Identify Team Members
- Prepare Draft PMP
- Review

PLAN
- Hold Kick-Off Meeting
- Confirm Budget
- Confirm Team Members
- Sign Initial PMP
- Review

EXECUTE
- Public Outreach
- Find Legislation
- Digitize Port Boundaries
- Reconcile Docks
- Review

COMPLETE
- Complete Work
- Financial Closeout

OCT 2019 - MAR 2021
<table>
<thead>
<tr>
<th>Milestone</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Project Management Assignment</td>
<td>01 Oct 19</td>
</tr>
<tr>
<td>2</td>
<td>Project Kick-off Meeting</td>
<td>15 Oct 19</td>
</tr>
<tr>
<td>3</td>
<td>Project Management Plan (PMP) Delivery</td>
<td>29 Oct 19</td>
</tr>
<tr>
<td>4</td>
<td>Stakeholder Coordination Documentation</td>
<td>06 Nov 19</td>
</tr>
<tr>
<td>5</td>
<td>Finalize <em>PortArea</em> feature class</td>
<td>01 Feb 21</td>
</tr>
<tr>
<td>6</td>
<td>Publish <em>PortArea</em> feature class</td>
<td>01 Mar 21</td>
</tr>
<tr>
<td>7</td>
<td>Closeout project</td>
<td>31 Mar 21</td>
</tr>
</tbody>
</table>
The Port of Palm Beach District is an independent special taxing district, a sub-division of the state of Florida.

Established under the provisions of the Laws of Florida, Acts of 1915, Chapter 7081, as amended and supplemented, the Port District is located in Palm Beach County, Florida.

It covers a land area of 971 square miles or approximately 50% of the county.
Purpose: To utilize a Geographic Information System (GIS) to prepare a USACE enterprise-wide statistical port boundary polygon feature class per Engineering Regulation 1130-2-520 and organized in SDSFIE 4.0.2 format no later than 21 Mar 2021.

Primary Partners:
• USACE Navigation Data Center
• USACE Waterborne Commerce Statistics Center
• USACE Planning Center of Expertise for Inland Navigation
• DOT Maritime Administration
• DOT Bureau of Transportation Statistics

Risk Tracking:

48%

- Items at Risk
- Items Not at Risk

Communication Tracking:

40%

- Issues
- Non-Issues

Progress Status:

Ports by Definition

- Legislation
- Municipal Limit
- Other

- 195
- 280
- 72

Boundaries Reviewed:

545/547

- Yes
- No

Ports Complete:

24/547

- Yes
- No

Significant Accomplishments:

• Project end date has been extended to 01 Mar 2021 to allow for additional time to conduct outreach and dock reconciliation. End date may require additional extension if COVID-19 restrictions are long-lasting. The Project Management Plan (PMP), information paper, and strategic documentation documents were updated.
• Preliminary creation and review of nearly all draft statistical port boundaries is complete; a majority of ports are now defined by either municipal limit or legislative definition.
• Outreach Team continues to make progress with sending notification letters, attending virtual meetings, and sharing project information.
Navigation Geospatial Visualizations
Civil Works Business Intelligence

These visualizations offer a geospatially-enabled view of navigation data available at USACE’s Infrastructure Commerce Statistics Center, as well as from the National Navigation Operation and Maintenance Performance Evaluation and Assessment System (NAVMASS) program. Restage information is available aggregated (all commodities combined) or at the individual commodity group level for chemicals, coal, crude material, food and farm products, petroleum, machinery, primary manufactured goods and waste materials.

For more information on navigation at the state, port, dock and waterway level:
- U.S. Army IDAL-Sources: Port policy, Port areas, Dock policy, Water policy and National Waterway Network (NWWA) Channel Framework – Channel Reach 315439 Water District.
THANK YOU!

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U.S. Army Corps of Engineers  
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Interagency Program Manager  
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