

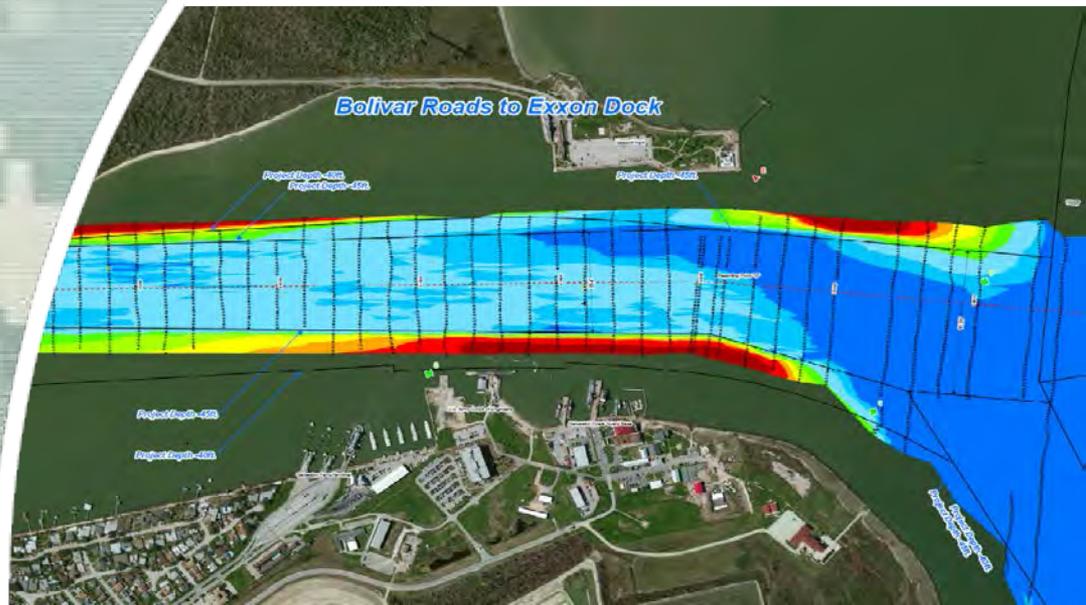
# Navigation Hydrographic Surveys Channel Condition Webpage

**Michael Prymula**

*Cartographer*

*Navigation Branch, Operations Division*

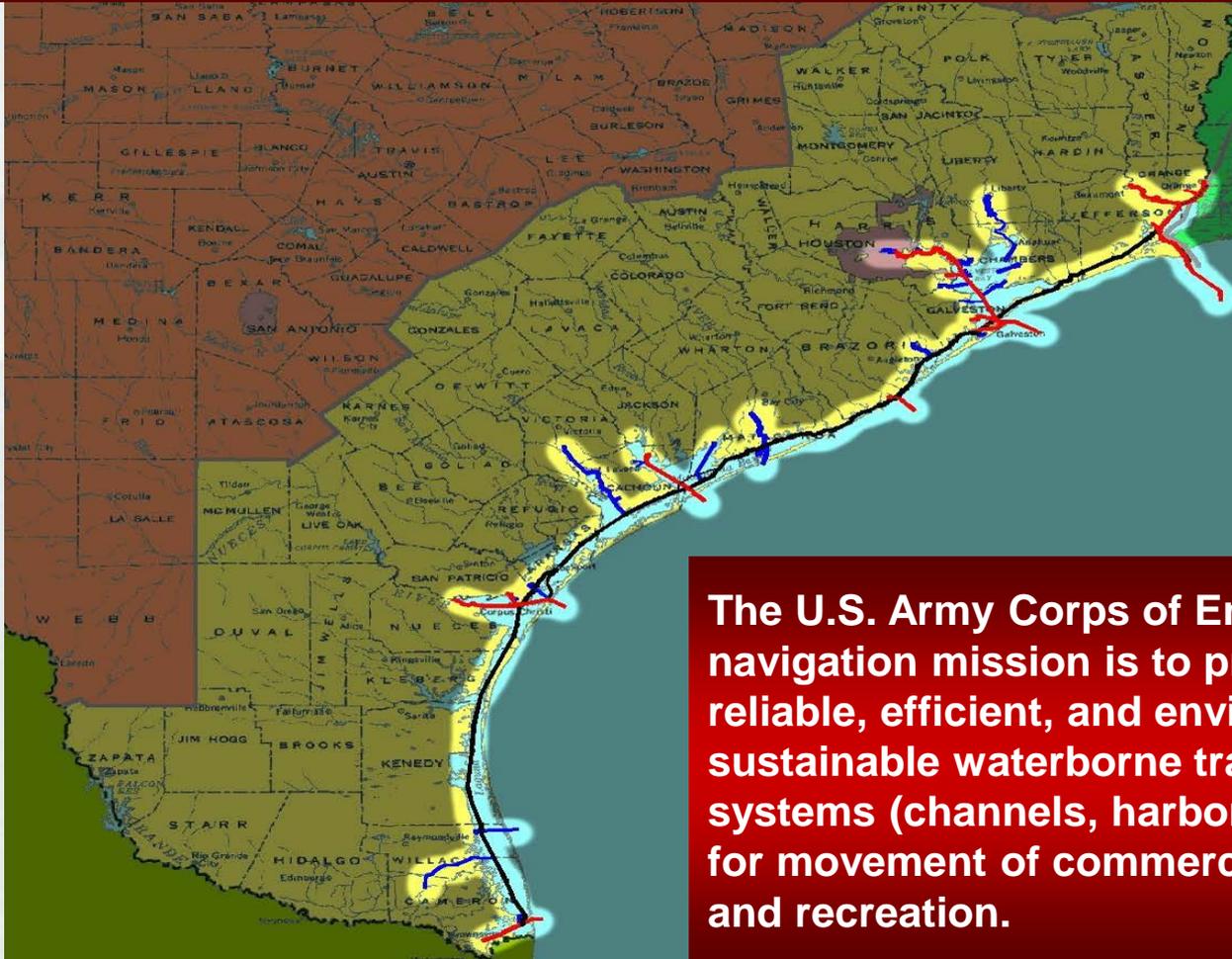
*3 December 2015*



US Army Corps of Engineers  
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# Mission Statement



The U.S. Army Corps of Engineers' navigation mission is to provide safe, reliable, efficient, and environmentally sustainable waterborne transportation systems (channels, harbors, and waterways) for movement of commerce, national security, and recreation.

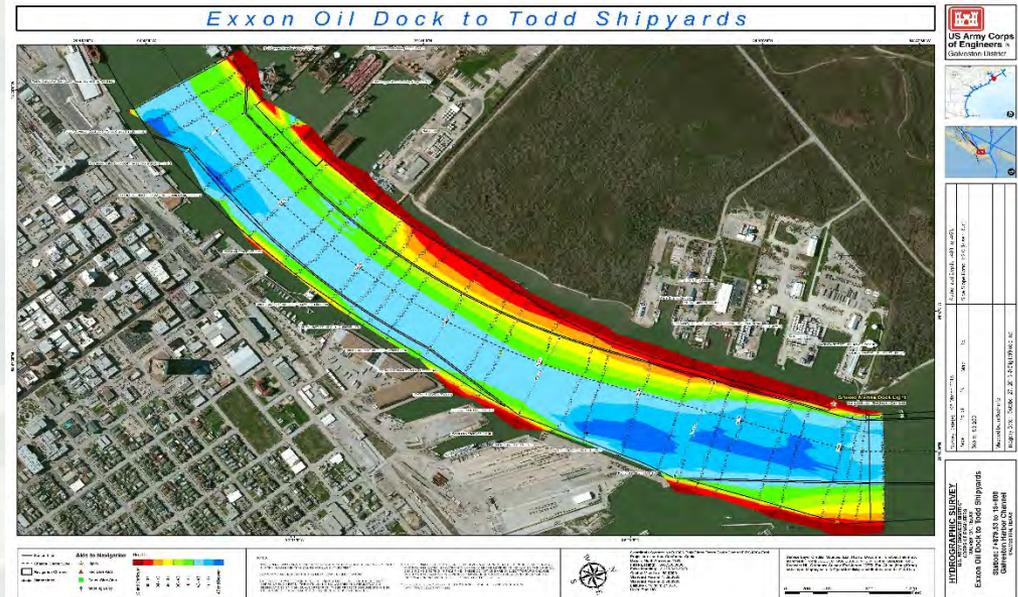


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# Hydrographic Survey Maps

- The products are reproduced from geospatial information prepared by the U.S. Army Corps of Engineers.
- GIS data and product accuracy may vary.
- Data may be:
  - ▶ Developed from sources of differing accuracy;
  - ▶ Accurate only at certain scales;
  - ▶ Based on modeling or interpretation;
  - ▶ Incomplete while being created or revised.



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# Hydrographic Survey Webpage

## eHydro Navigation Channel Condition Reporting

- Launched the Hydrographic Survey Webpage in mid May 2014.
- Purpose of Webpage: Publish Federal Channel Conditions to navigation project stakeholders in a useable format.
- Channel Condition Survey Maps will provide users with information to determine conditions of channels at a glance.
- Maps include color bathymetry and soundings depths.
- Maps facilitate users in determining and planning vessel operation.
- Maps provide channel framework as well as Aids to Navigation.



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# HYDROGRAPHIC SURVEY WEBPAGE

## eHydro Navigation Channel Condition Reporting

The US Army Corps of Engineers developed the eHydro application for the purpose of producing and disseminating enterprise hydrographic data.

### Description:

- eHydro application enables districts to produce consistent survey plots, channel tabulations, and metadata from survey soundings.
- eHydro application uses a framework of channel boundaries, project depths, stationing and channel quarters, ensuring consistent and reliable reference.
- eHydro application also applies background imagery and feature data to produce condition plots.



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# HYDROGRAPHIC SURVEY WEBPAGE

## Hydrographic Survey Team

- GIS/eHydro Support
  - ▶ Rick Vera, USACE, Galveston District
  - ▶ Shanks Gavin, USACE, Mobile District
  - ▶ John McKenzie, USACE, Portland District
- Hydrographic Surveyors and Survey Coordinator
  - ▶ Engineering and Construction Branch, USACE, Galveston District
- Webpage Design
  - ▶ Navigation Branch, USACE, Galveston District
- Webpage Updates
  - ▶ Paul Cox, USACE, Galveston District
  - ▶ Robert Koch, USACE, Galveston District
  - ▶ Michael Prymula, USACE, Galveston District



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# HYDROGRAPHIC SURVEY WEBPAGE

The screenshot shows the USACE Galveston District website. The main navigation bar includes links for ABOUT, BUSINESS WITH US, MISSIONS, LOCATIONS, CAREERS, MEDIA, LIBRARY, and CONTACT. A search bar is also present. The page features a section titled "Navigation on the Texas Coast" with five small images. Below this is the "Coastal Custodians" section, which includes a large image of a port and a text block describing the USACE's role in maintaining waterways. A callout box on the right side of the page points to the "Channel Hydrographic Surveys" link in the "Hydrographic Surveys" menu.

**GALVESTON DISTRICT**

**US Army Corps of Engineers**

Search Galveston District

HOME > MISSIONS > NAVIGATION

**Navigation on the Texas Coast**

**Coastal Custodians**

The USACE Galveston District plays a key role in America's well-being by keeping waterways open for navigation and commerce. A priority is deepening and widening waterways, such as ports, ship channels, and the Gulf Intracoastal Waterway, for the safe and expeditious accommodation of commercial waterborne traffic. The Galveston District is directly responsible for maintaining more than 1,000 miles of channel, including 270 miles of deep draft and 750 miles of shallow draft. Dredges are constantly at work keeping vital marine arteries open for waterborne traffic carrying cargo ranging from crude oil to coffee. Other priorities include construction of jetties or breakwaters to protect harbor and inlet entrances and the locks along the Gulf Intracoastal Waterway at the crossing of the Brazos and Colorado rivers.

*In the photo: The Port of Houston ranks first in the nation in foreign waterborne tonnage; first in U.S. imports; and second in the nation with respect to foreign and domestic tonnage.*

**Federal Channel Setbacks**

The intent of these Standard Operating Procedures (SOPs) is to provide a rapid and repeatable

**Hydrographic Surveys**

- Channel Hydrographic Surveys
- Notice to Navigation
- Dredging/Marine Construction
- Deep Draft Condition Report
- Shallow Draft Condition Report

**Navigation Links**

- Land Use
- Notice to Navigation Interest
- Institute for Water Resources

**Navigation Branch Contact**

Mailing Address:  
USACE Galveston District

Channel Hydrographic Surveys





# HYDROGRAPHIC SURVEY WEBPAGE

**US Army Corps of Engineers** GALVESTON DISTRICT

ABOUT BUSINESS WITH US MISSIONS LOCATIONS CAREERS MEDIA LIBRARY CONTACT

HOME > MISSIONS > NAVIGATION > HYDROGRAPHIC SURVEYS

### Hydrographic Surveys Brief

**MISSION STATEMENT**  
The U.S. Army Corps of Engineers' navigation mission is to provide safe, reliable, efficient and environmentally sustainable waterborne transportation systems (channels, harbors, and waterways) for movement of commerce, national security needs, and recreation.

The Mission of the Galveston District Navigation Branch is to manage federal navigation projects along the Texas coastal region.

**SURVEY MAPS**  
The products are reproduced from geospatial information prepared by the U.S. Army Corps of Engineers. GIS data and product accuracy may vary. Data may be developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. Using GIS products for purposes other than those for which they were created may yield inaccurate or misleading results. The Corps of Engineers reserves the right to correct, update, modify, or replace GIS products without notification.

The information depicted on the survey maps represent the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time. These conditions are subject to rapid change due to shoaling events. A prudent manner should not rely exclusively on the information provided here. Required by 33 cfr 209.325

### Hydrographic Surveys

- Sabine Neches Waterway
- Galveston - Texas City - Houston
- Freeport Harbor & Brazos Harbor
- Matagorda Ship Channel
- Corpus Christi
- Brazos Island Harbor & Port Isabel Channel

### Corps Connections

- Dredging/Maine Construction
- Land Use
- Beneficial Use of Dredge Material
- Q&A: What is a Dredging Placement Area

### Links

- Notice to Navigation Interest
- Institute for Water Resources

Hydrographic Surveys

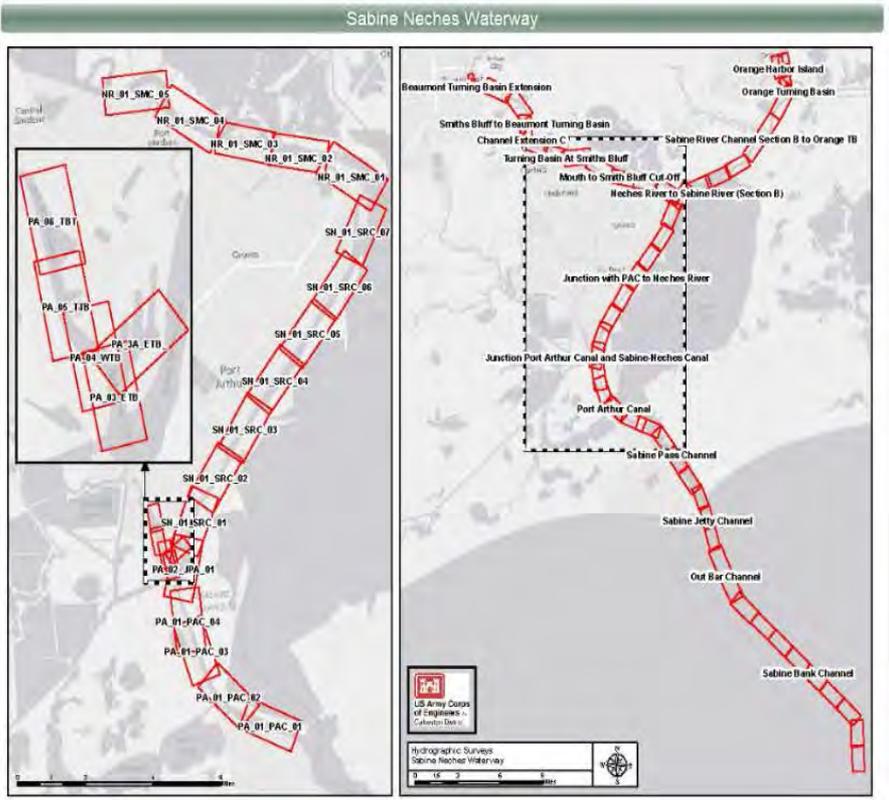


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# HYDROGRAPHIC SURVEY WEBPAGE

<http://www.swg.usace.army.mil/Missions/Navigation/HydrographicSurveys/SabineNechesWaterway.aspx>
 Galveston District > Missions > ... Galveston District > Missions > ... Galveston District > Mission...



Channel Reaches		Station to Station	Survey Date	Channel Maps	XYZ Data
<b>Sabine Pass</b>					
PA_PAC 1-4	Port Arthur Canal	0+00 290+00	March 11, 2015	Survey Maps	XYZ
PA_IPA 1	Junction-Port Arthur Canal and Sabine Neches River	290+00 40+00	March 26, 2015	Survey Maps	XYZ
PA_TB_TTB	Entrance to Port Arthur Turning Basin	4+00 25 20+00 47+00	July 28, 2015	Survey Maps	XYZ

Survey Maps and XYZ Data

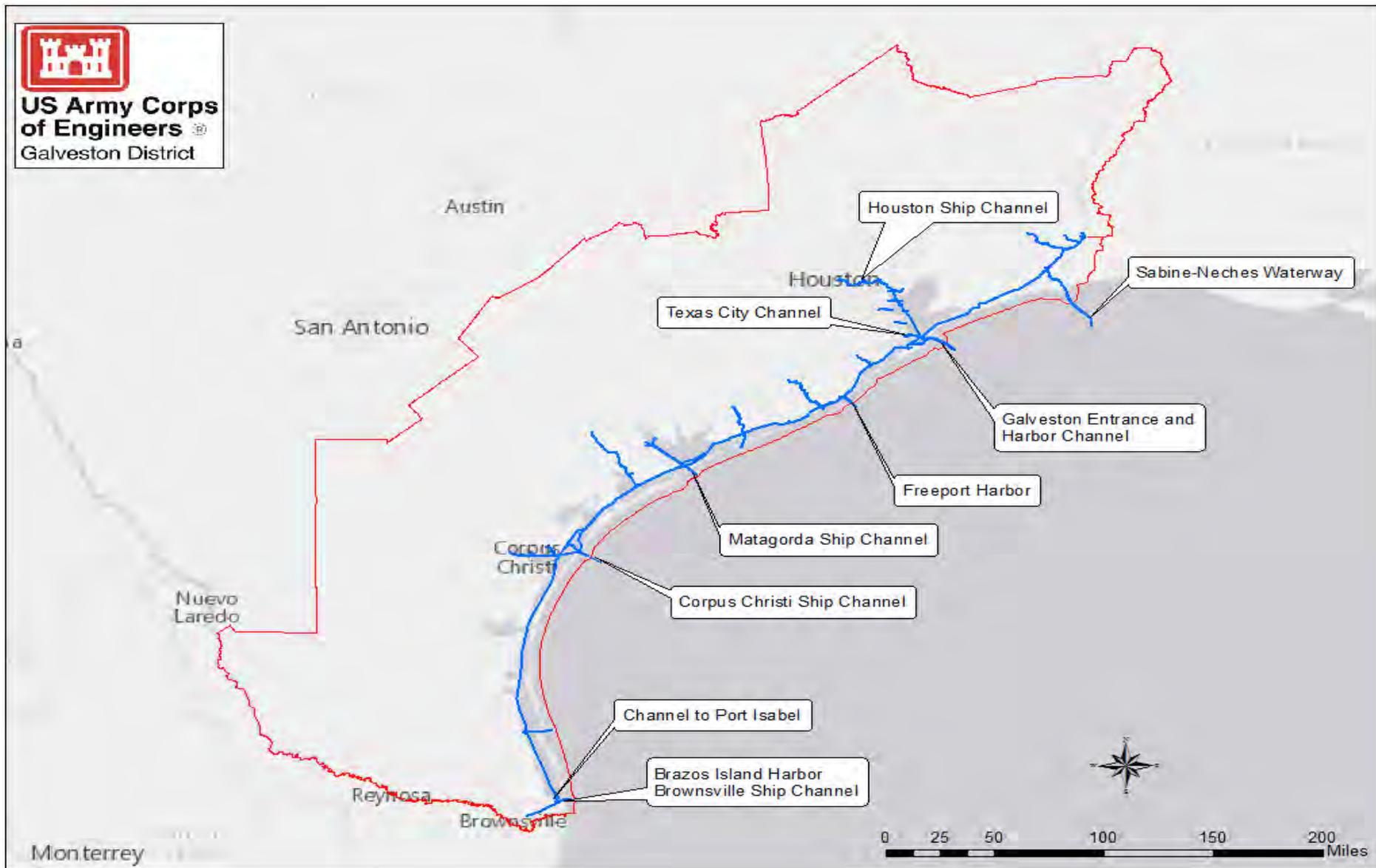




# CURRENT PROJECTS ON WEBSITE



**US Army Corps  
of Engineers**  
Galveston District

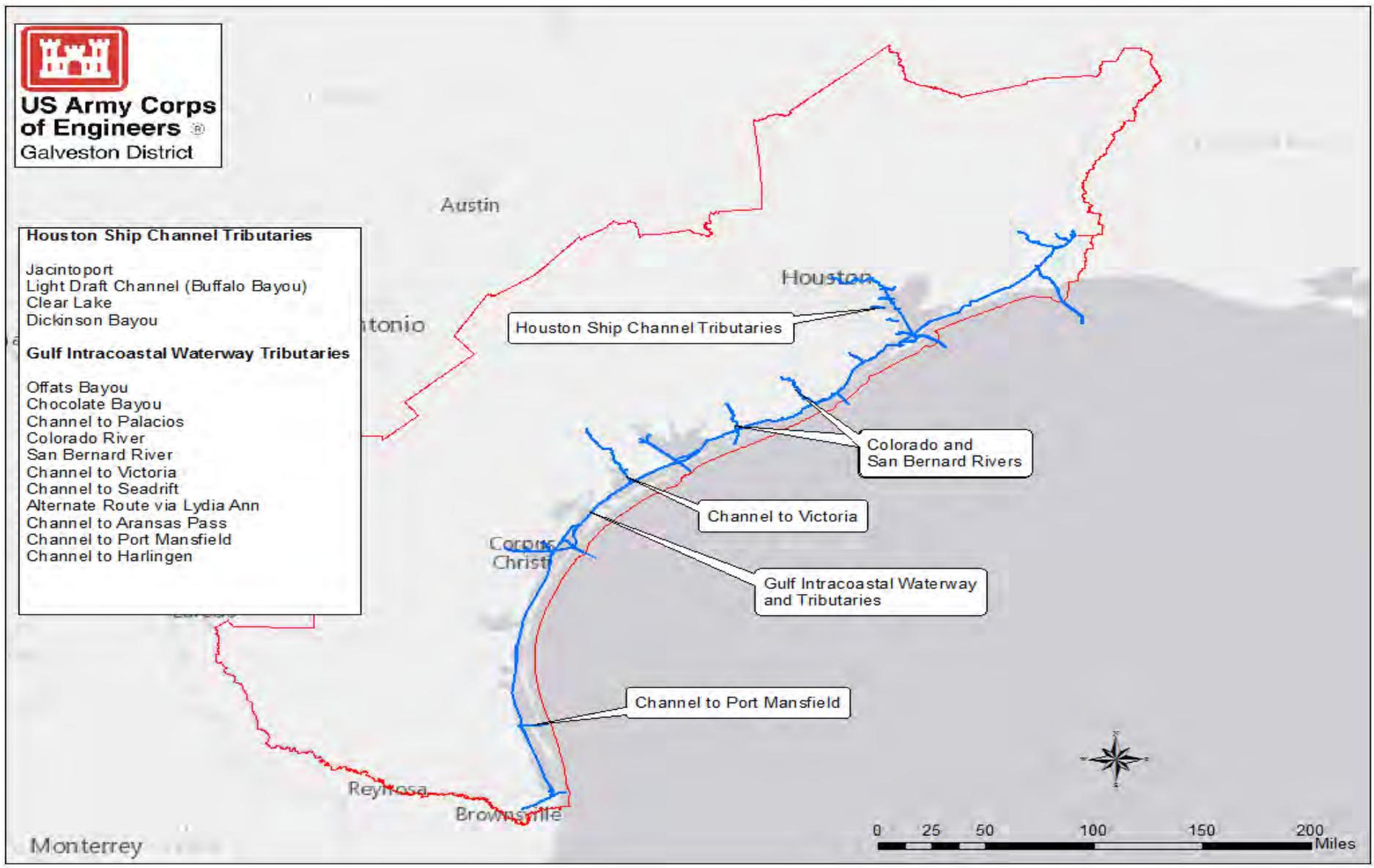




# PROJECTS TO BE ADDED



- Houston Ship Channel Tributaries**
- Jacinto port
  - Light Draft Channel (Buffalo Bayou)
  - Clear Lake
  - Dickinson Bayou
- Gulf Intracoastal Waterway Tributaries**
- Offats Bayou
  - Chocolate Bayou
  - Channel to Palacios
  - Colorado River
  - San Bernard River
  - Channel to Victoria
  - Channel to Seadrift
  - Alternate Route via Lydia Ann
  - Channel to Aransas Pass
  - Channel to Port Mansfield
  - Channel to Harlingen





# NAVIGATION HYDROGRAPHIC SURVEYS

## GALVESTON DISTRICT WEBSITE:

<http://www.swg.usace.army.mil/>

## NAVIGATION WEBPAGE:

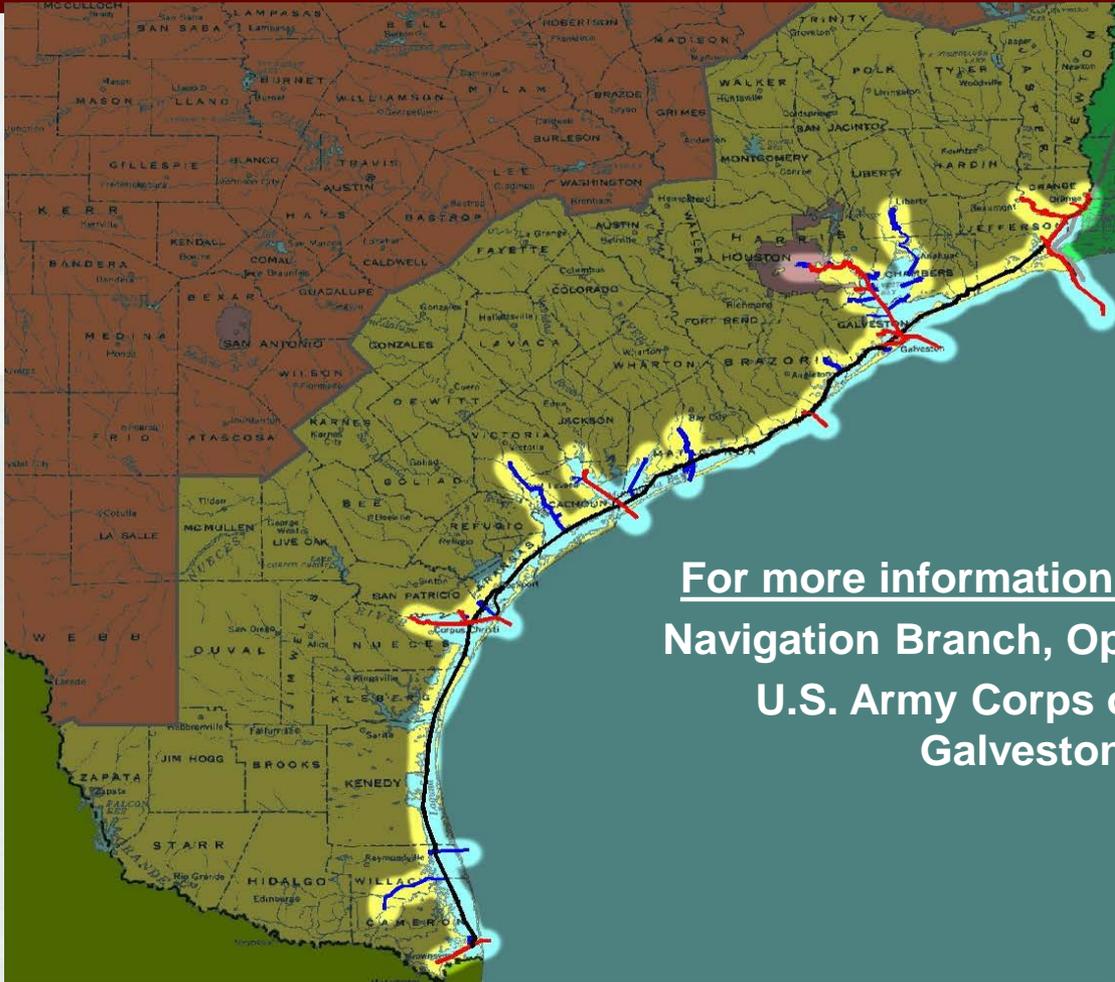
<http://www.swg.usace.army.mil/Missions/Navigation.aspx>



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# QUESTIONS/COMMENTS



For more information, Please contact:  
Navigation Branch, Operations Division  
U.S. Army Corps of Engineers,  
Galveston District



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