

GALVESTON DISTRICT OVERVIEW

WEDA - GULF COAST CHAPTER

November 13, 2019

COL Timothy Vail
District Commander, Galveston District
U.S. Army Corps of Engineers

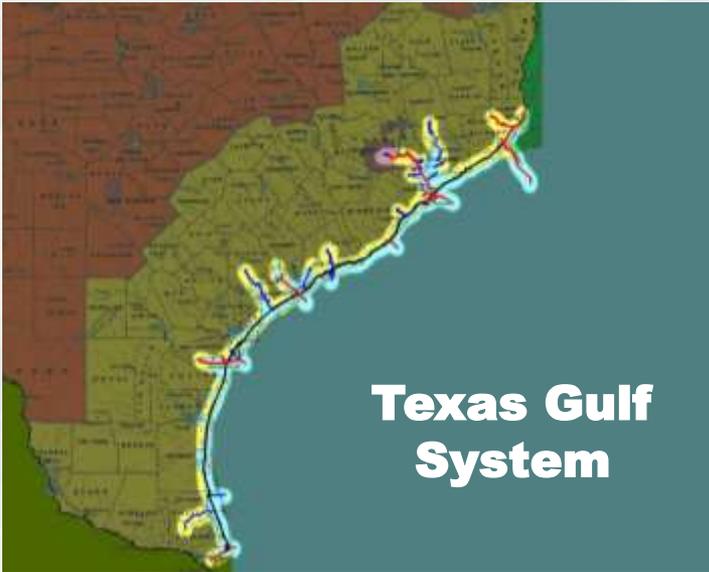


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GALVESTON DISTRICT MISSIONS

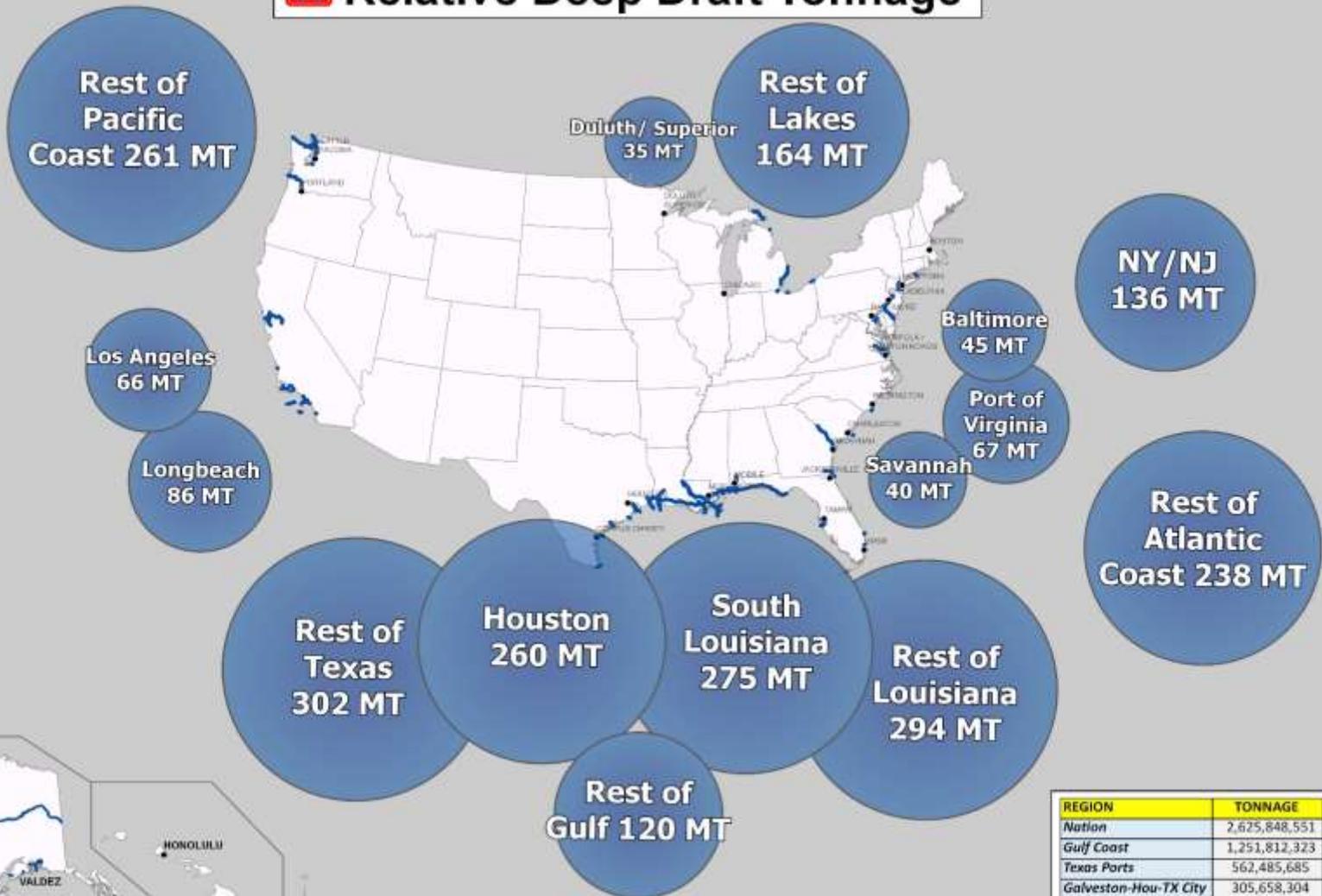


- ~475 full time employees
- 50,000 sq-mile district boundary
- Galveston District Missions
 - Navigation
 - Flood Risk Management
 - Regulatory
 - Emergency Management
 - Environmental Restoration
- 18 Counties – Coastal Bay Estuaries
- Texas Ports and Waterways moved 600M+ tons of Commercial Cargo during 2017
- Maintenance Dredge 20 - 30MCY per year
- Two (2) New Work dredging projects underway
- 3 Strategic Ports



NATIONAL DEEP DRAFT TONNAGE

Relative Deep Draft Tonnage



Data Source: USACE, Waterborne Commerce Statistics Center - 2017

GALVESTON DISTRICT O&M NAVIGATION PROGRAM



**Texas Ports
Coastal Navigation
Value to the Nation**

LEADING U.S. PORTS

(2017 Tonnage)

Houston #2 – 260.1 million tons
#1 Foreign Tonnage & #2 Total Tonnage

Beaumont #5 – 89.4 m.tons
#1 Military Port in World

Corpus Christi #6 – 87.3 m.tons
America's Energy Gateway

Port Arthur #17 – 39.2 m.tons
Vital Break-Bulk Port

Texas City #18 – 37.7 m.tons
Services Largest Petrochemical Complex

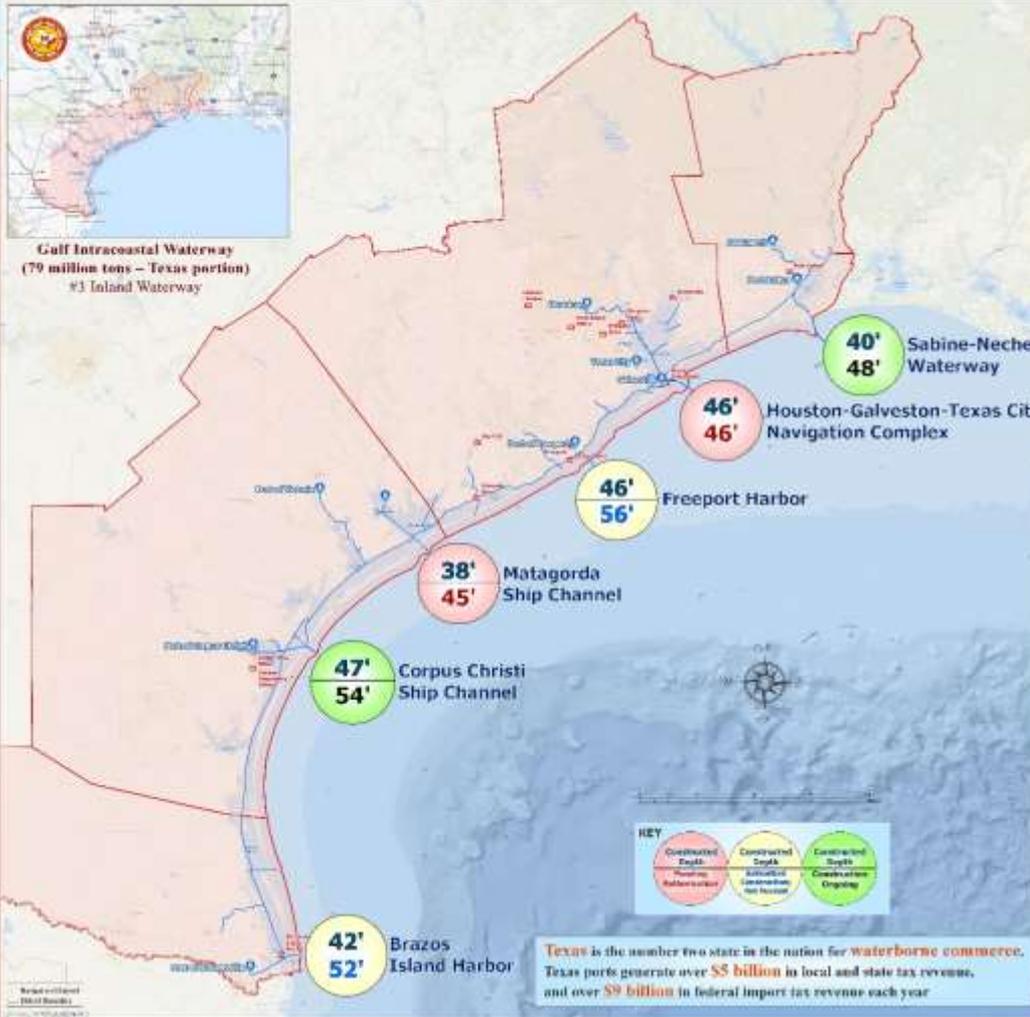
Freeport #31 – 24.5 m.tons
Connecting Global Services
Via Caribbean Relay Port

Galveston #59 – 7.8 m.tons
#4 Cruise Ship Port

Brownsville #61 – 7.7 m.tons
#1 Ship Recycling Port

Victoria #80 – 4.3 m.tons
#2 Shallow-Draft Port for Domestic
Crude Petroleum

Calhoun County Port #81 – 4.3 m.tons
(Matagorda Ship Channel)



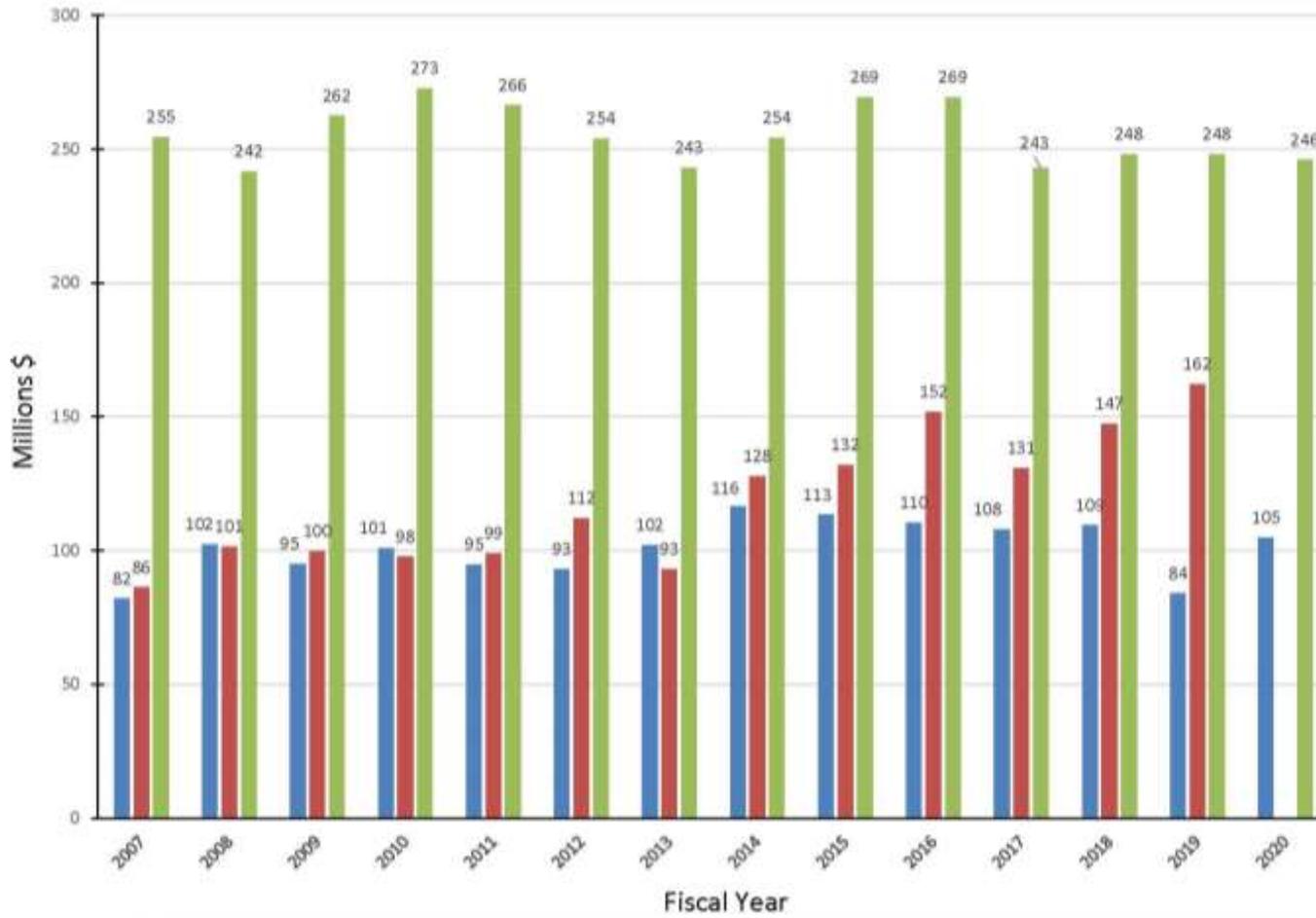
- Monitor and maintain over 1,000 miles of navigation channels and waterways
- Dredge ~25 million cubic yards per year
- 10 Major Texas maritime Ports
- Gulf Intracoastal Waterway connects Ports
- 3 Strategic Ports
- Texas Ports and Waterways moved >600M tons of Commercial Cargo during 2017
- 21.4% of Nation's Tonnage through Texas Ports
- 29.2% of Nation's Exports through Texas Ports
- 11.6% of Nation's Tonnage through Galveston Entrance



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GALVESTON DISTRICT O&M NAVIGATION FUNDING HISTORY



■ President's Budget NAV ■ Final Allocation NAV ■ Total Capacity NAV



GALVESTON DISTRICT O&M NAVIGATION FUNDING HISTORY

Fiscal Year 2019

- Total Available Reg: \$182,410,000
- Total Available Supp: \$75,710,000
- Total Navigation: \$258,120,000

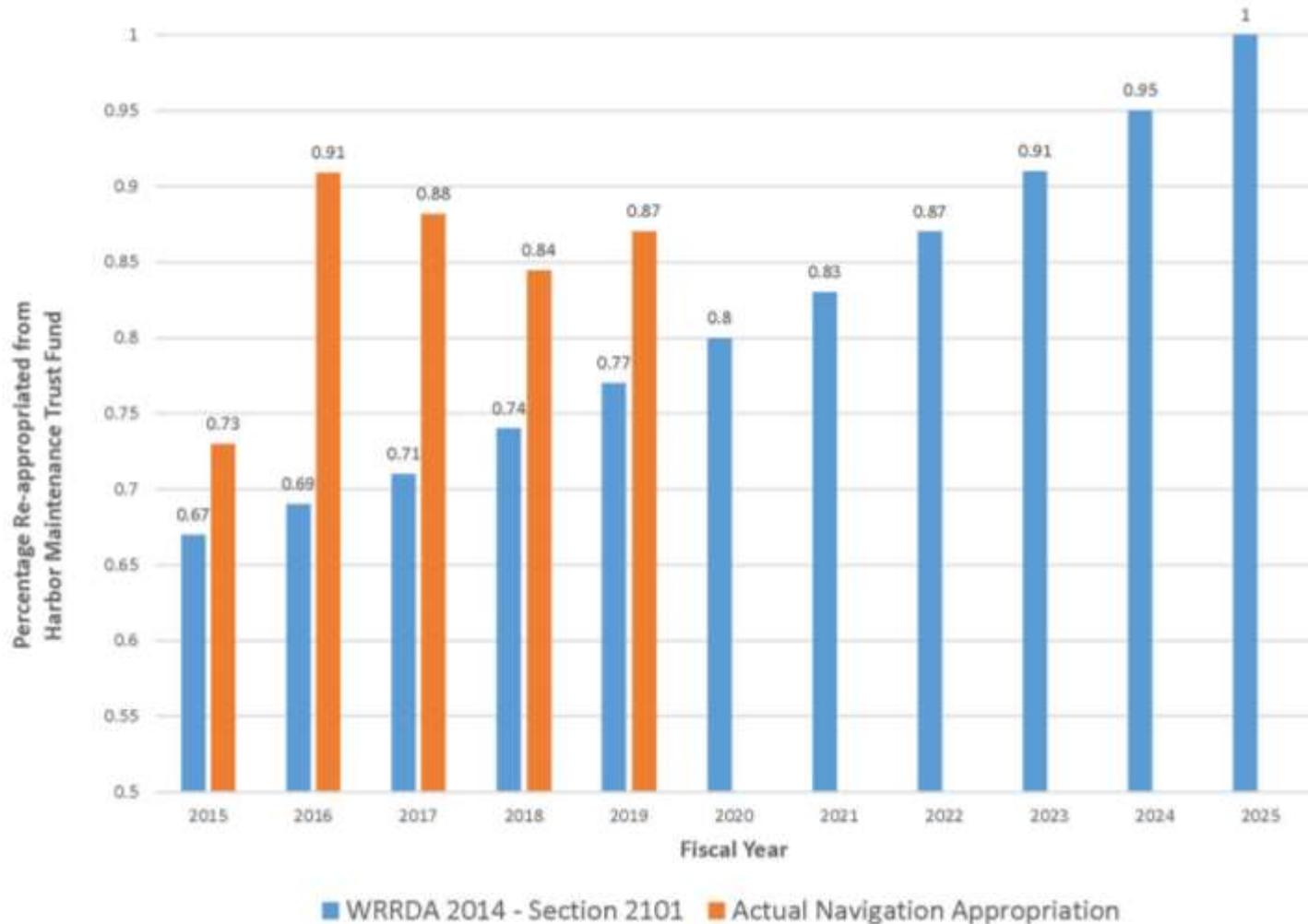
<u>Contract Type</u>	<u>Amount</u>	<u>Un-awardable</u>	<u>2 Bidders</u>	<u>Single Bidder</u>
Dredging:	15	6	4	2
Placement Area:	7	0	3	1
Marine Construction:	3	0	0	1



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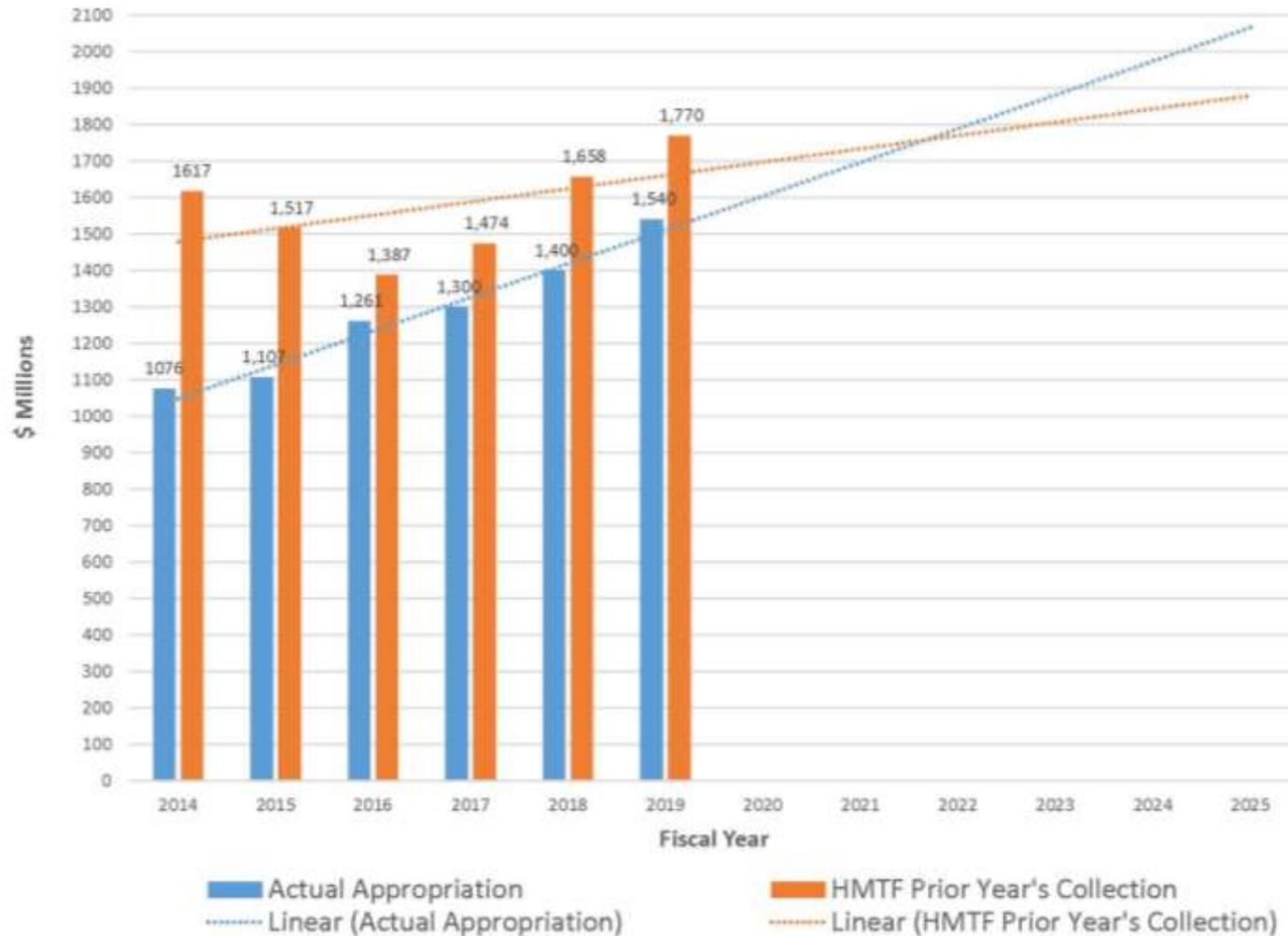
WRRDA 2014 – SECTION 2101



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ACTUAL NAVIGATION APPROPRIATIONS AND HMTF PRIOR YEAR COLLECTIONS



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Contractors Response to Funding Trends

1.	Ellis Island	GLDD	14,800 CY	2017
2.	Glenn Edwards	Manson Construction	13,800 CY	2006
3.	Stuyvesant	DUTRA Group	11,140 CY	1982
4.	Magdalen	Weeks Marine	8,550 CY	2018
5.	Wheeler	USACE	8,000 CY	1981
6.	Colum Liberty Island	GLDD	6,540 CY	2001
7.	Terrapin Island	GLDD	6,400 CY	1981
8.	Essayons	USACE	6,000 CY	1983
9.	Bayport	Manson Construction	5,000 CY	1999
10.	Columbia	Dutra Group	4,425 CY	1944
11.	Newport	Manson Construction	4,000 CY	1982
12.	BE Lindholm	Weeks Marine	4,000 CY	1985
13.	RN Weeks	Weeks Marine	4,000 CY	1987
14.	Padre Island	GLDD	3,600 CY	1981
15.	Dodge Island	GLDD	3,600 CY	1980
16.	McFarland	USACE	3,140 CY	1967
17.	Westport	Manson Construction	1,500 CY	1980
18.	Atchafalaya	Cashman	1,300 CY	1980
19.	Yaquina	USACE	1,042 CY	1981



Contractors Response to Funding Trends

HOPPER DREDGES

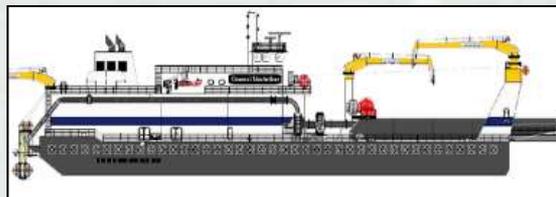


IN DESIGN PHASE

MANSON
GLENN EDWARDS II 13,000 CYS

CASHMAN
TWO 6,000 CYS DREDGES

CUTTER DREDGES



CALLAN MARINE General MacArthur
24,000 Hp 2019

MARINEX
WADMALA 16,000 HP CUTTER

NORFOLK DREDGING
30" OCEAN CLASS CUTTER

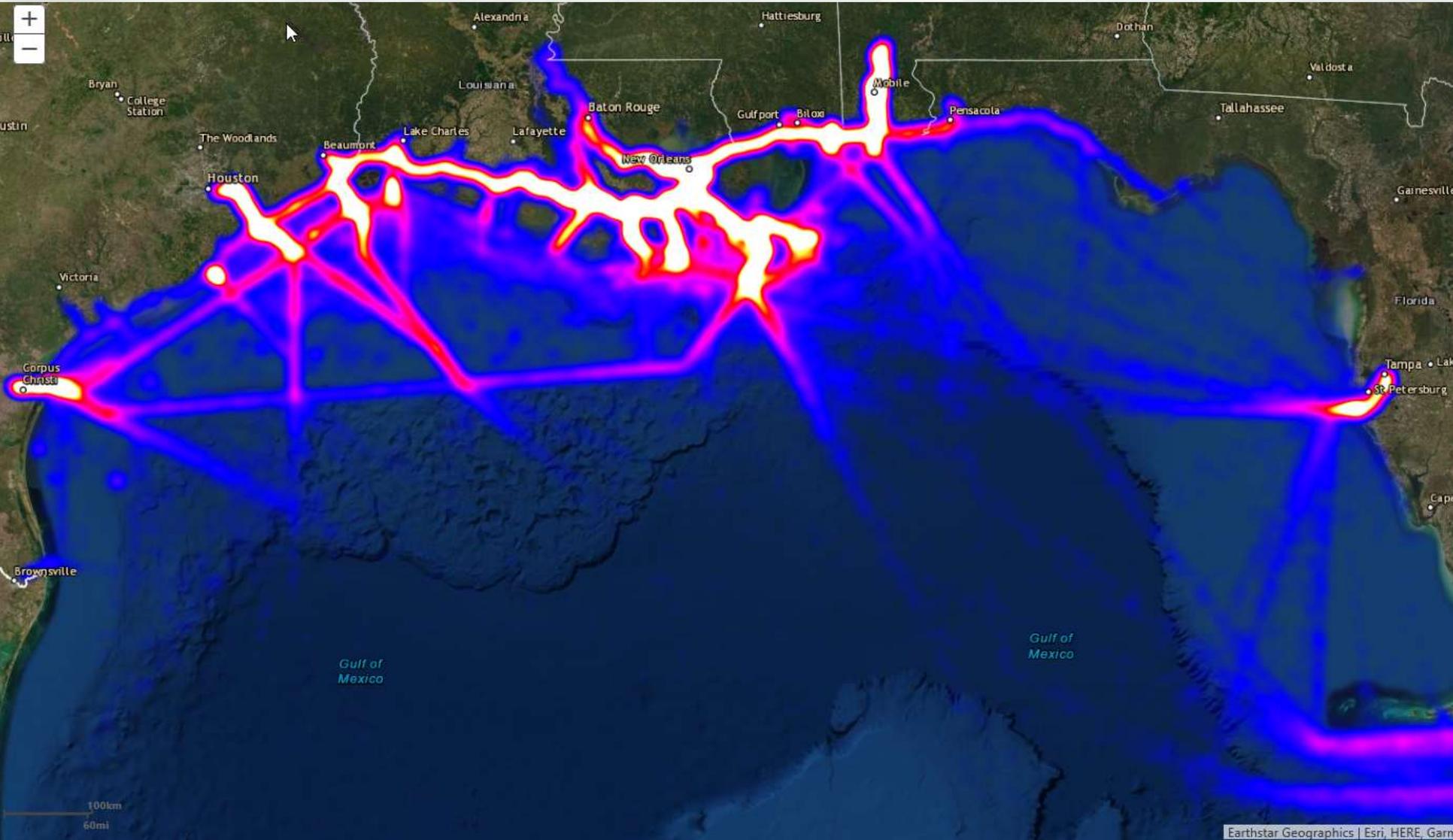
CLAMSHELL DREDGES



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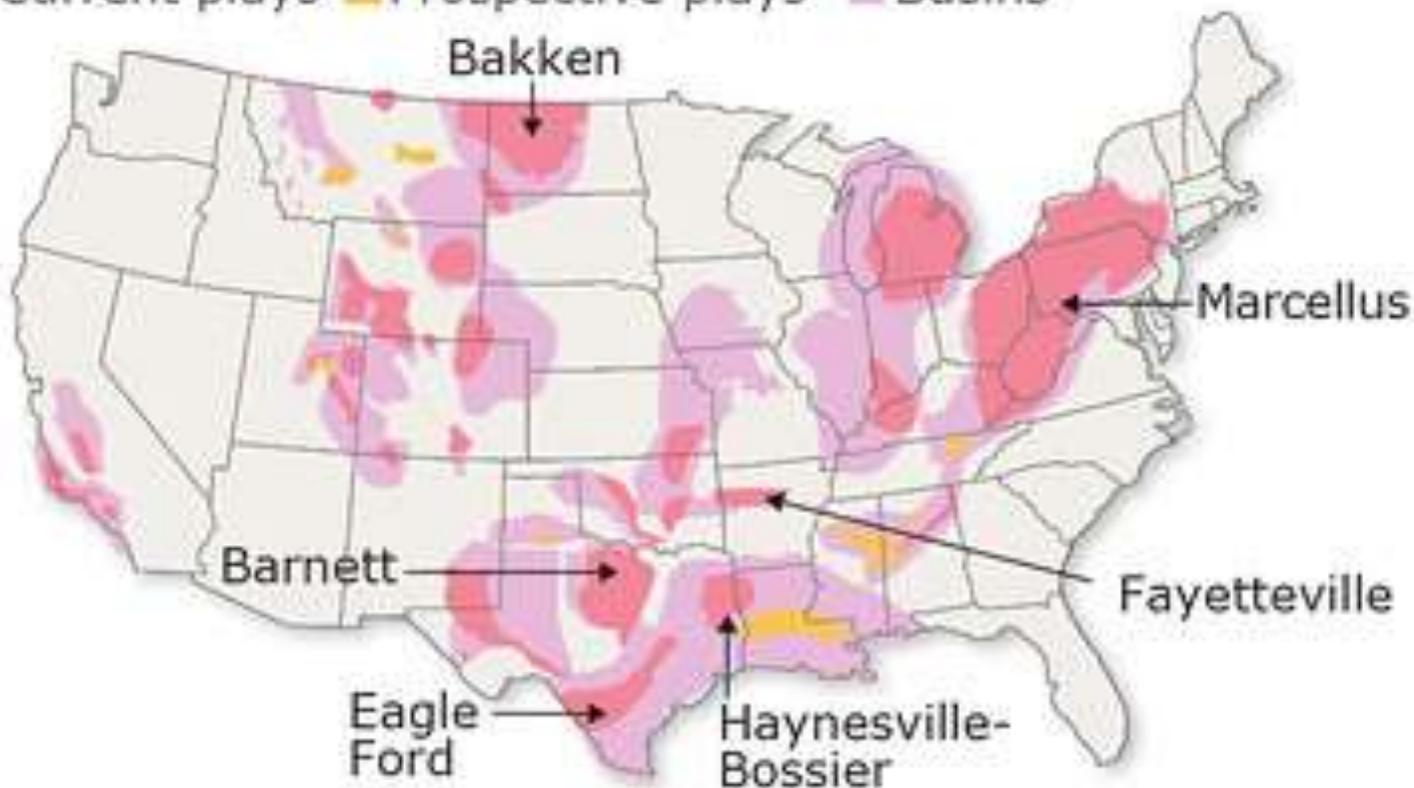
Navigation Traffic – Heat Map



U.S PROJECTING TO RAMP-UP EXPORTS

U.S. shale plays

■ Current plays ■ Prospective plays ■ Basins



Data: EIA, based on data from various published studies



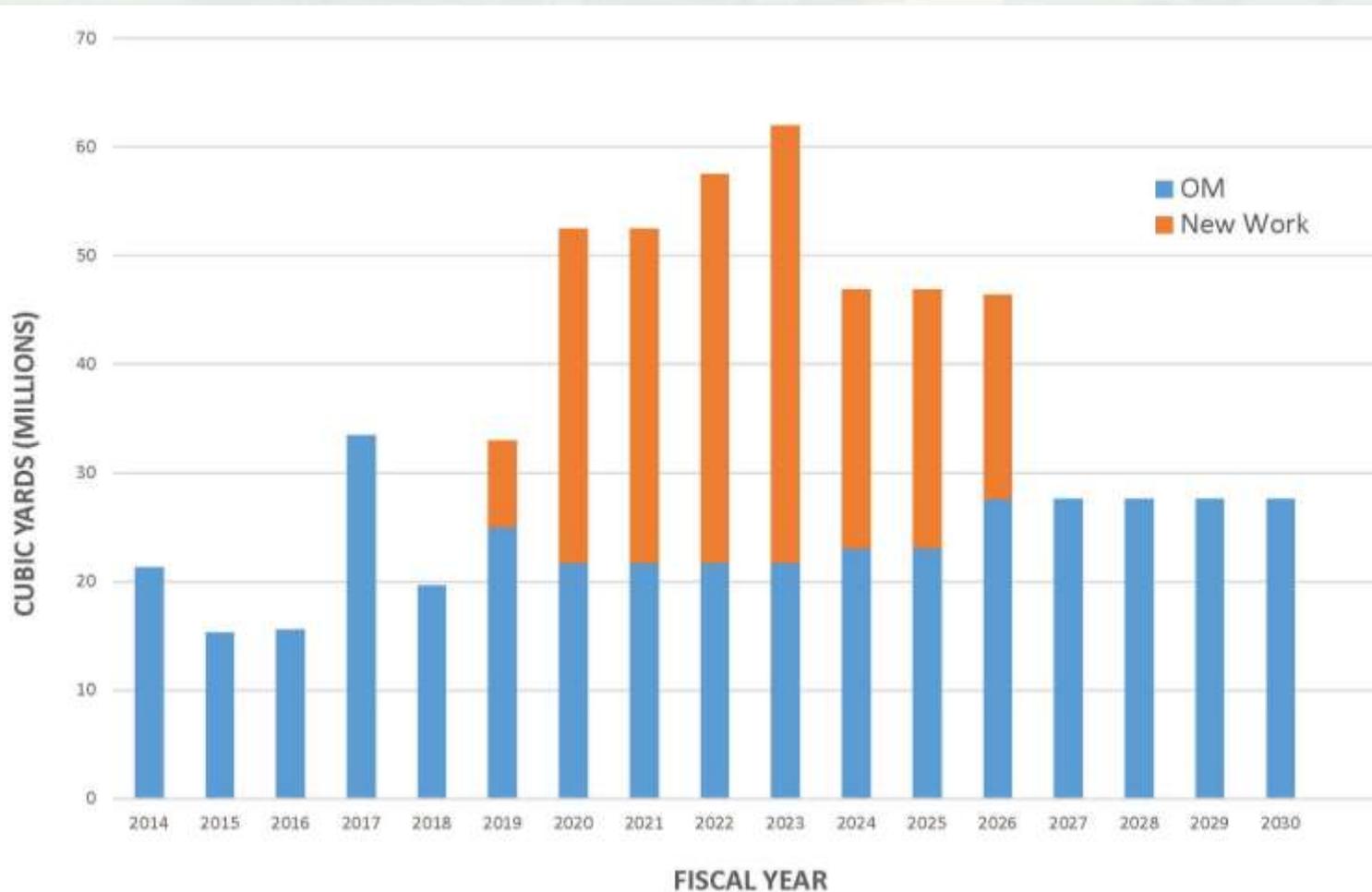
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EAGLE FORD FORMATION 2015



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O&M and New Work Projected Dredging Quantities – 2020 thru 2030 GALVESTON DISTRICT



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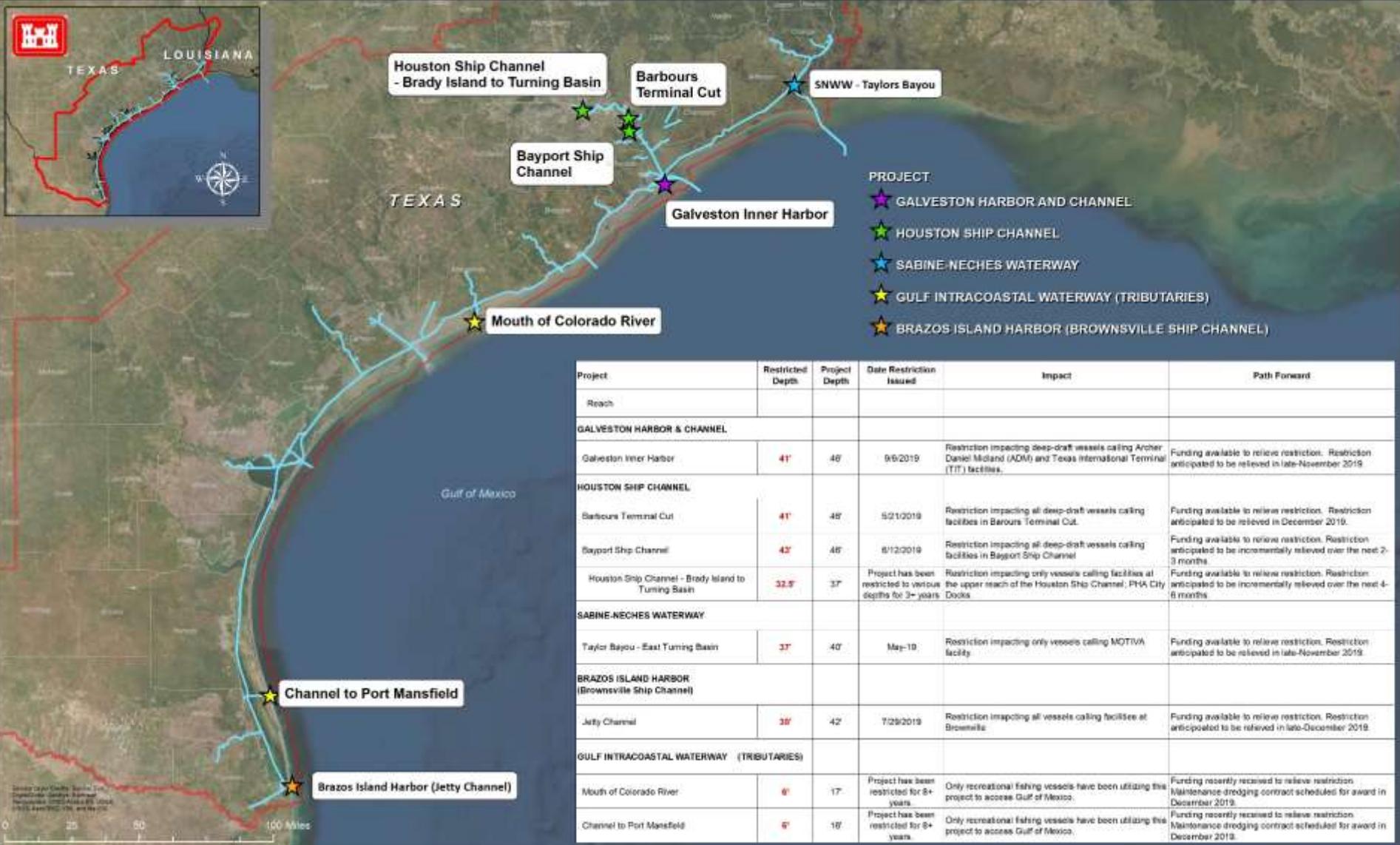


HURRICANE HARVEY



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SWG FEDERAL NAVIGATION PROJECTS - DRAFT RESTRICTIONS AS OF 10/25/2019



Project	Restricted Depth	Project Depth	Date Restriction Issued	Impact	Path Forward
REACH					
GALVESTON HARBOR & CHANNEL					
Galveston Inner Harbor	41'	48'	9/6/2019	Restriction impacting deep-draft vessels calling Archer Daniel Midland (ADM) and Texas International Terminal (TIT) facilities.	Funding available to relieve restriction. Restriction anticipated to be relieved in late-November 2019.
HOUSTON SHIP CHANNEL					
Barbours Terminal Cut	41'	48'	5/21/2019	Restriction impacting all deep-draft vessels calling facilities in Barbours Terminal Cut.	Funding available to relieve restriction. Restriction anticipated to be relieved in December 2019.
Bayport Ship Channel	43'	48'	8/12/2019	Restriction impacting all deep-draft vessels calling facilities in Bayport Ship Channel.	Funding available to relieve restriction. Restriction anticipated to be incrementally relieved over the next 2-3 months.
Houston Ship Channel - Brady Island to Turning Basin	32.5'	37'	Project has been restricted to various depths for 3+ years.	Restriction impacting only vessels calling facilities at the upper reach of the Houston Ship Channel, PHA City Docks.	Funding available to relieve restriction. Restriction anticipated to be incrementally relieved over the next 4-6 months.
SABINE-NECHES WATERWAY					
Taylor Bayou - East Turning Basin	37'	40'	May-18	Restriction impacting only vessels calling MOTIVA facility.	Funding available to relieve restriction. Restriction anticipated to be relieved in late-November 2019.
BRAZOS ISLAND HARBOR (Brownsville Ship Channel)					
Jetty Channel	38'	42'	7/29/2019	Restriction impacting all vessels calling facilities at Brownsville.	Funding available to relieve restriction. Restriction anticipated to be relieved in late-December 2019.
GULF INTRACOASTAL WATERWAY (TRIBUTARIES)					
Mouth of Colorado River	6'	17'	Project has been restricted for 8+ years.	Only recreational fishing vessels have been utilizing the project to access Gulf of Mexico.	Funding recently received to relieve restriction. Maintenance dredging contract scheduled for award in December 2019.
Channel to Port Mansfield	6'	18'	Project has been restricted for 8+ years.	Only recreational fishing vessels have been utilizing the project to access Gulf of Mexico.	Funding recently received to relieve restriction. Maintenance dredging contract scheduled for award in December 2019.

Contractors Response to Funding Trends

HOPPER DREDGES

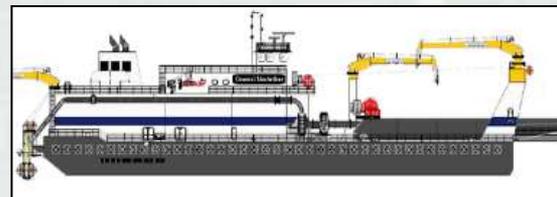


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