NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.html.

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THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - GULF COAST

MISSISSIPPI RIVER TO GALVESTON

Mercator Projection
Scale 1:458,596 at Lat 28° 52'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov

(For offshore navigation only)
Floating Aids to Navigation inside the sea buoys are not shown on this chart.
See 1:80,000 series and large scale harbor charts for aids marking maintained channels.

NOTE H
The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in Houston, Galveston and Texas City waterways. Vessel operating procedures, and designated radiotelephone frequencies are published in 33 CFR 161; the U.S. Coast Pilot; and/or the VTS User's Manual. Mariners should consult these sources for applicable rules and reporting requirements. Although mandatory VTS participation is limited to the navigable waters of the United States, vessel operating procedures and reporting requirements as a condition of port entry, to report beyond this area to facilitate advance vessel traffic management within the VTS area.

NOTE B
GALVESTON TRAFFIC PRECAUTION SCHEME
A pilot boarding area is located near the center of the inshore precautionary area. Due to heavy vessel traffic, mariners are advised not to anchor or linger in this precautionary area except to pick up or disembark a pilot.

NOTE F
The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) on the Sabine - Neches Waterway and offshore approaches. Vessel operating procedures, and designated radiotelephone frequencies are published in 33 CFR 161; the U.S. Coast Pilot; and the VTS Port Arthur User Manual. Mariners should consult these sources for applicable rules and reporting requirements. "Port Arthur Traffic" is a full service VTS, providing a continuous Information Service, Traffic Organization Services and Navigational Assistance Services as required.

ARTICULATED AIDS
An articulated aid to navigation consists of a pipe structure that oscillates around a universal coupling connected to a sinker. The structure is kept upright by the buoyancy of a submerged cylinder attached to the structure. Used to mark narrow channels in depths of up to 60 feet. All articulated aids are labelled "AR".

For Symbols and Abbreviations see Chart No. 1

HEIGHTS
Heights in feet above Mean High Water.

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

HURRICANES AND TROPICAL STORMS
Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.
After hurricanes, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved.
Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.

CAUTION
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should not be used for navigation.
Station positions are shown thus:
○(Accurate location) ○(Approximate location)

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 8th Coast Guard District in New Orleans, La., or at the Office of the District Engineer, Corps of Engineers in Galveston, TX and Vicinity.
Refer to charted regulation section numbers.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:
Pipeline Area — Cable Area
Additional unlisted submarine pipelines and submarine cables may exist within the areas of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when navigating in these areas. Anchoring, water conveyance in their draft in areas where pipelines and cables may exist, and when anchoring, dredging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

NOTE E
The Gulf Gateway Deepwater Port at 28°05'16.05"N, 093°03'52.20" W is surrounded by three concentric circles. The first is a Safety Zone that has a 500 meter radius. The second is a mandatory No Anchorage Area that has a 1000 meter radius. The third is an Area to be Avoided that has a 2000 meter radius. The Safety Zone has been promulgated, via an interim Rule published on May 11, 2005. Reference 880 SN/Cleo.240.

RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflectors on buoys or on these aids has been omitted from this chart.

SOURCE

A	1990-2015	NOS Surveys
B3	1940-1969	NOS Surveys
B4	1900-1939	NOS Surveys
B5	Pre - 1900	NOS Surveys

full bottom coverage
partial bottom coverage
partial bottom coverage
partial bottom coverage

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Consult larger scale charts for survey information in areas outlined in magenta. Refer to Chapter 1, United States Coast Pilot.

MINERAL DEVELOPMENT STRUCTURES
Obstruction lights and sound (fog) signals are not required on fixed mineral development structures shown on this chart, subject to approval by the District Commander, U.S. Coast Guard (33 CFR 67).

NOTE S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and regulated dumping sites may be obtained at or from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of CFR offices. Dumping subsequent to the survey dates may have reduced the depths shown.

NOTE
CAUTION
Unexploded ordnance is known to exist in this area. Ordnance removed from the ocean floor should be reported to the U.S. Coast Guard immediately for disposal instructions.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOTE G
The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in Houston, Galveston and Texas City waterways. Vessel operating procedures, and designated radiotelephone frequencies are published in 33 CFR 161; the U.S. Coast Pilot; and/or the VTS User's Manual. Mariners should consult these sources for applicable rules and reporting requirements. Although mandatory VTS participation is limited to the navigable waters of the United States, vessel operating procedures and reporting requirements as a condition of port entry, to report beyond this area to facilitate advance vessel traffic management within the VTS area.

NOTE D
The hydrography within the heavy dashed black line was surveyed by NOS in 2005. A shoaling condition has been observed in relation to prior surveys. The density of this most recent survey data is inadequate to rule out the possibility of shoaler depths or undetected submerged features in these areas.

CAUTION
Gas and Oil Well Structures
Platforms, gas and oil well structures, some of which are submerged and capped, and submarine pipelines and cables are charted only where offshore of the indicated chart limits of the 1:80,000 scale series charts and Loop Deepwater Port chart 11359.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Mississippi River to Galveston
SOUNDINGS IN FATHOMS - SCALE 1:458,596

11340

CAUTION
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum 1983 (NAD 83) and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 do not require conversion to NAD 83 for plotting on this chart.

79th Ed., Feb. 2016. Last Correction: 12/6/2016. Cleared through:
LNM: 4816 (11/29/2016), NM: 4416 (10/29/2016)

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