

DISTRIBUTION LIMIT: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and includes the general existing conditions. As such, the data is not necessarily current or accurate. The user is responsible for the results and their application for other than its intended purpose.

Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoals and scouring processes. The U.S. Army Corps of Engineers does not guarantee the accuracy of the hydrographic conditions shown on this data. This data is intended for U.S. Army Corps of Engineers internal use. Please contact the U.S. Army Corps of Engineers for the latest information.

U.S. ARMY CORPS OF ENGINEERS	
Surveyed By:	DSR
Submitted:	BD
Recommended:	One Survey Section
Approved:	One Waterways Maintenance Section
Checked By:	AO

MISSISSIPPI RIVER - B.R. TO GULF
GRANADA RECON
MRI_10_GRA_20170920_CS
20 September 2017

NOTES:

Horizontal Coordinate System:
 North American Datum of 1983 (NAD83), projected to the State Plane
 Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.

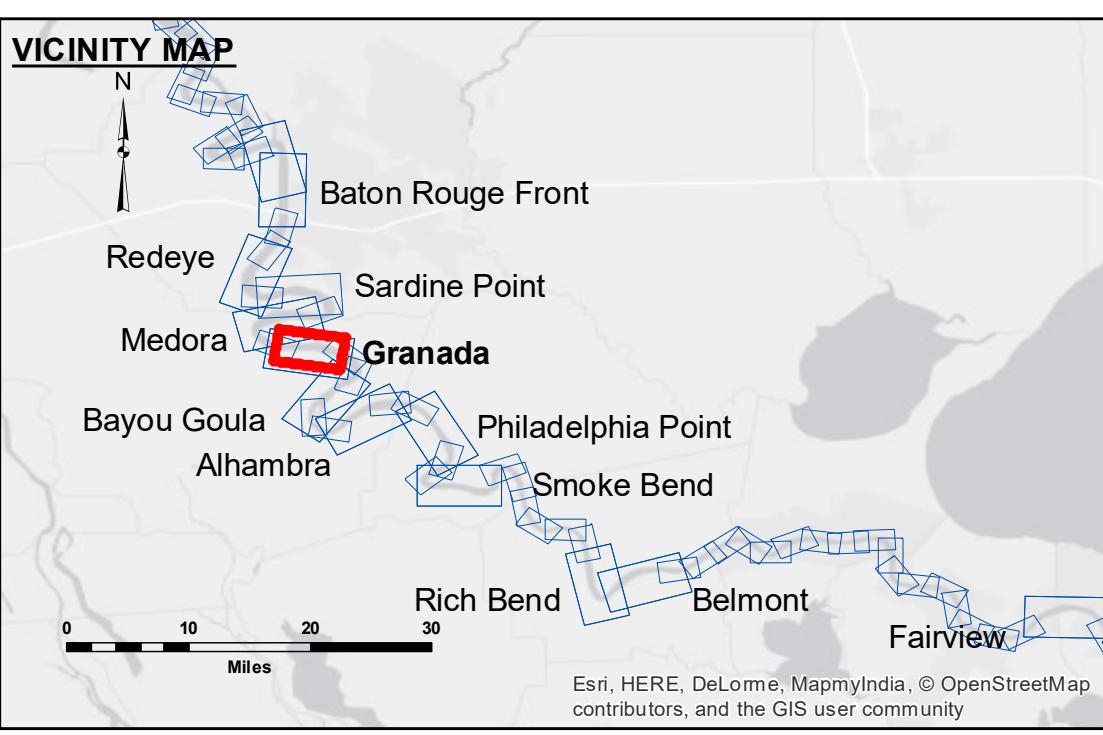
Vertical Datum:
 Soundings are shown in feet and indicate depths below Low Water Reference Plane 2007 (NGVD).
 Distances on the Mississippi River, above and below Head of Passes are shown
 at 1 mile intervals.

The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.
 2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.

Reference is N.O.A.A. Navigation Chart No. 11370.

** Shoal sounding per Quarter per Reach.

*** High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.

**LEGEND**

- Federal Navigation Channel
- Federal Navigation Center Line
- As-built Pipeline/Cable
- Unconfirmed Pipeline/Cable
- Project Depth Contour
- Cable Area
- Placement Area
- Anchorage Area
- Obstruction Point
- ★ Beacon, General
- ◆ Red Navigation Buoy
- ◆ Green Navigation Buoy
- Wrecks-Submerged

LWRP: 1.9
Gage Reading: BR:11.82 D:6.76 USED:9.5 NGVD
Sea Conditions: CALM
Vessel Name: OB-189
Survey Type: CONDITION
Sounding Frequency*:** HIGH

Feet

0 500 1,000 1,500 2,000 2,500

**Sheet
Reference
Number**
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