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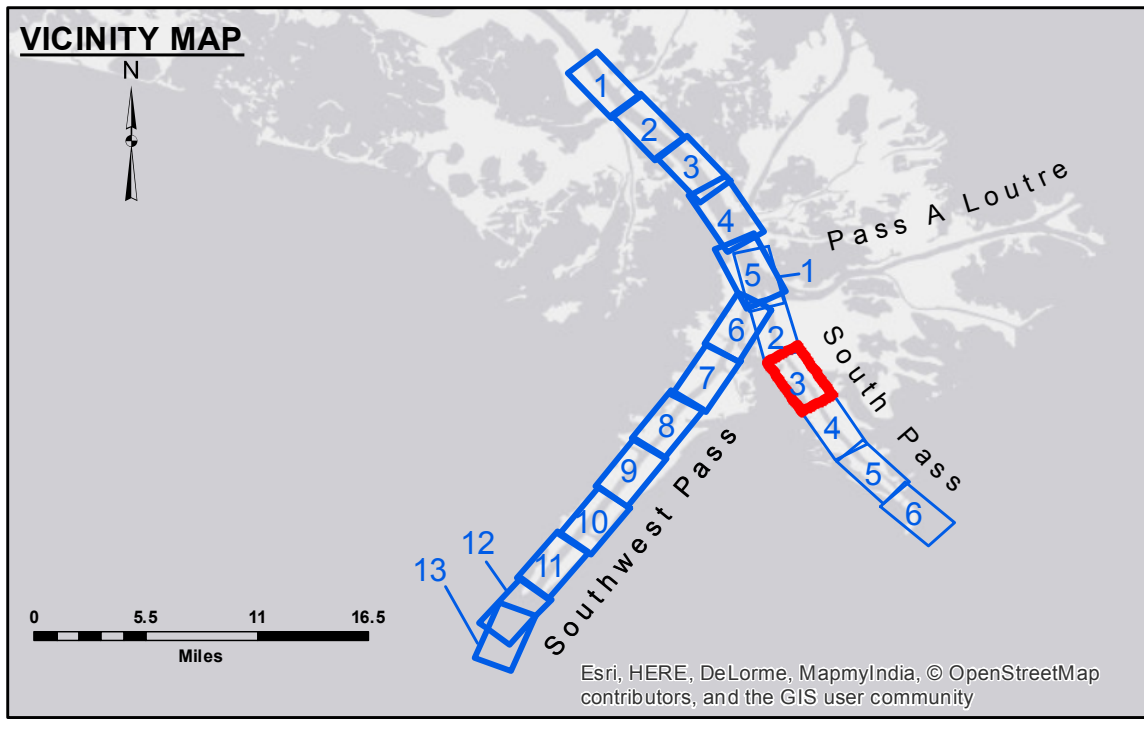
Data Constants: Hydrographic survey data is subject to change due to several factors including but not limited to dredging, accretion, and other changes in the channel. The user is responsible for the results of any use of the data for other than the intended purpose.

Disclaimer: The information depicted on this map represents the results of a survey conducted on the date of the survey. It is not intended to represent the general condition existing at that time.

| | |
|---|---------------------------|
| Submitted: | Surveyed By: LLB & TSS |
| Recommended: Chief, Survey Section | Plotted By: TSS |
| Approved: Chief, Waterways Maintenance Section | Checked By: MSK |

MISSISSIPPI RIVER - B.R. TO GULF
SOUTH PASS - SHEET 3
SP_03_SPS_20160428
28 April 2016

Sheet Reference Number
3 of 6



| LEGEND | |
|----------------------------------|-------------------------|
| --- Federal Navigation Channel | ● Cable Area |
| — Federal Navigation Center Line | ■ Placement Area |
| — As-built Pipeline/Cable | □ Anchorage Area |
| Unconfirmed Pipeline/Cable | ⊗ Obstruction Point |
| — Project Depth Contour | ★ Wrecks-Submerged |
| □ Borrow Area | ★ Beacon, General |
| ● Shoalest Sounding** | ◆ Red Navigation Buoy |
| ★ Beacon, General | ◆ Green Navigation Buoy |
| ◆ Red Navigation Buoy | ■ -10' and above |
| ◆ Green Navigation Buoy | ■ -10' to -20' |
| | ■ -20' to -30' |
| | ■ -30' to -40' |
| | ■ -40' to -45' |
| | ■ -45' to -50' |
| | ■ -50' and below |

Gage Reading: 5.4 MLG @ HEAD OF PASSES @ 1215

Sea Conditions: CALM

Vessel Name: OB-173

Survey Type: CONDITION, SB

Sounding Frequency*:** LOW

Vertical Datum: 2013 Aerial Photography data source: GEOCLIP, Atlantic Group, LLC. (1998 DOQQ in green)

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

Datum Relationships for gage 01545 as of July 2015:
 0.0' NAVD83 = -0.3' MLLW = 3.32' MLG

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.

Reference is N.O.A. Navigation Chart No. 11361.

**** Shoalest 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.**