

#### **NOTES:**

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

shown in feet and indicate depths below North American Vertical Datum of 1988

aviation aids are base on and provided by the

Photography data source: NAIP Louisiana

.A.A. Navigation Chart No. 11369.

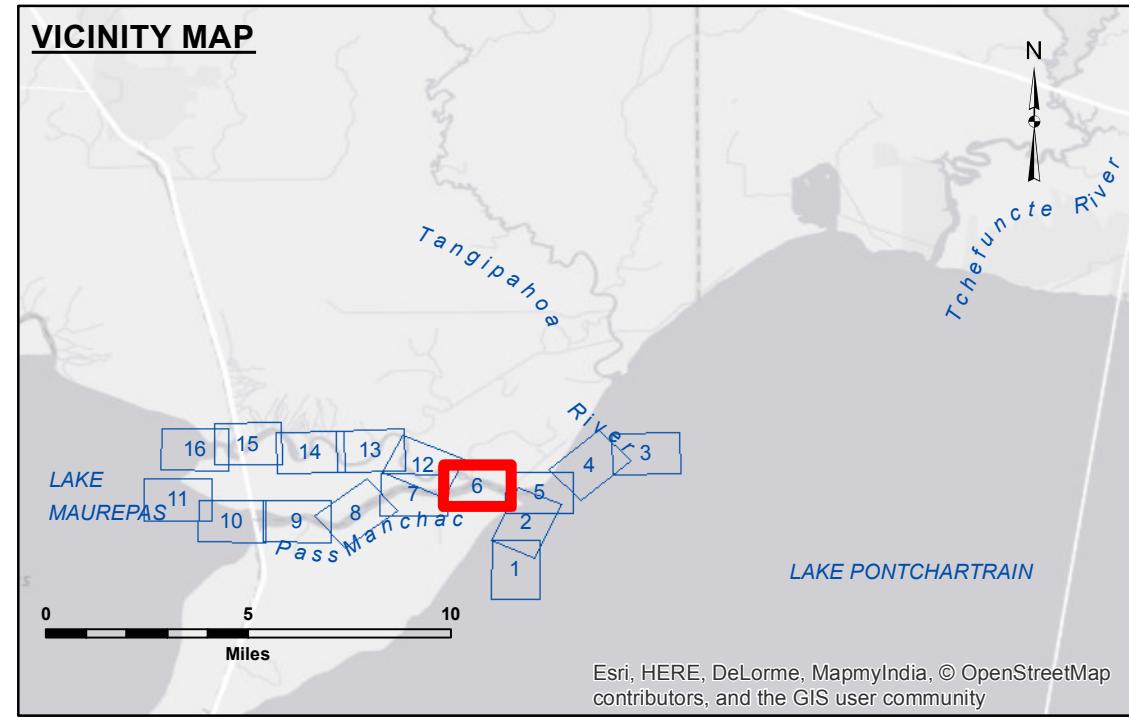
ding per Quarter per Reach.

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

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Digitized by srujanika@gmail.com

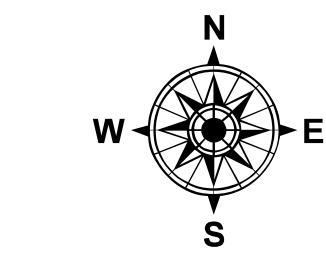
VICINITY MAP



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- Legend

— Federal Navigation Channel	○ ○	Cable Area	<span style="color: blue;">□</span> Borrow Area
— Federal Navigation Center Line	<span style="color: red;">□</span>	Placement Area	<span style="color: yellow;">●</span> Shoalest Sounding*
— As-built Pipeline/Cable	<span style="border: 1px dashed black;">□</span>	Anchorage Area	<span style="color: black;">★</span> Beacon, General
..... Unconfirmed Pipeline/Cable	<span style="color: gray;">⊗</span>	Obstruction Point	<span style="color: red;">◆</span> Red Navigation Buoy
— Project Depth Contour	<span style="color: black;">↗</span>	Wrecks-Submerged	<span style="color: green;">◆</span> Green Navigation Buoy



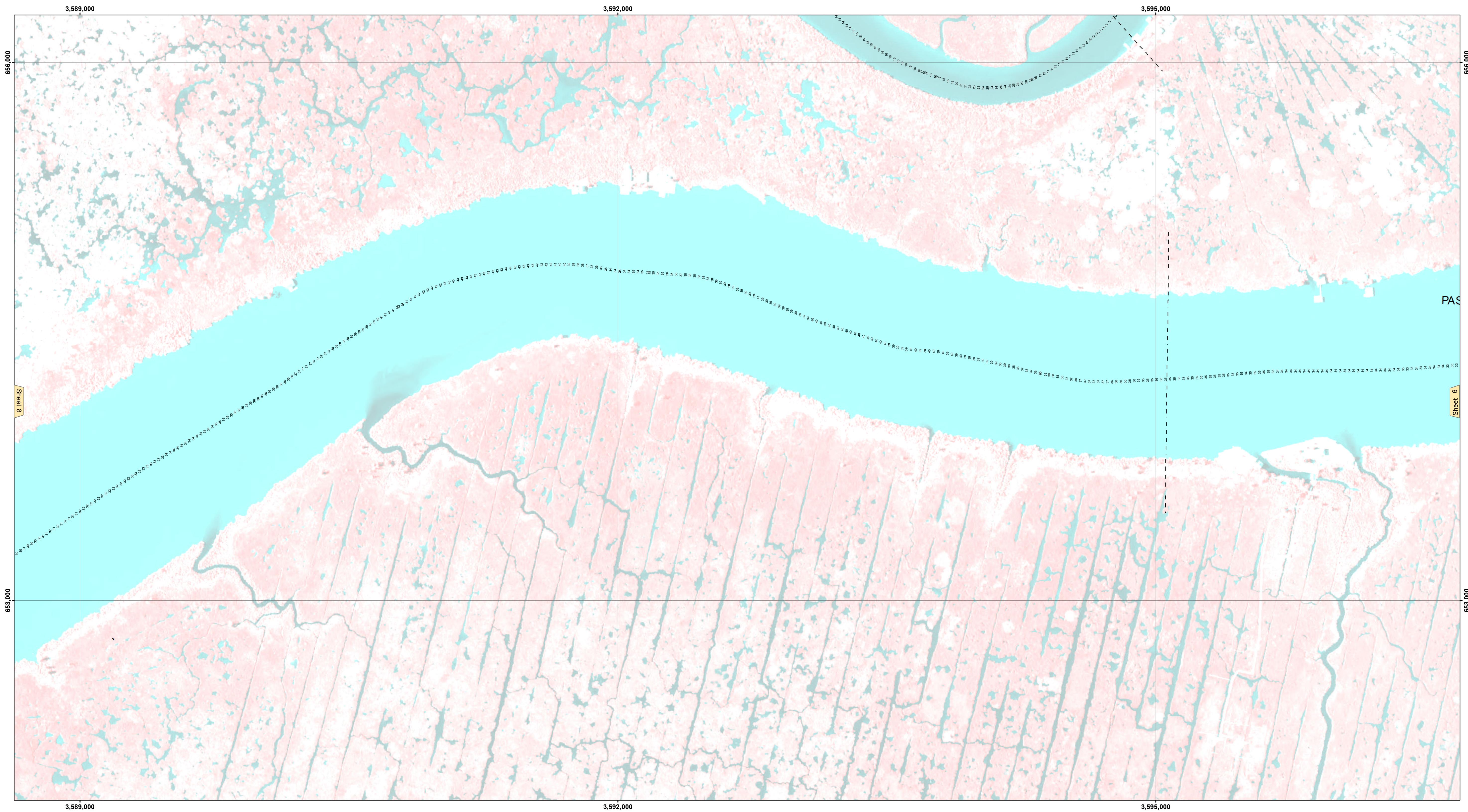
Gage Reading: PASS MANCHAC (85420): 1.5 NAVD  
Sea Conditions: CALM  
Vessel Name: OB-167  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW

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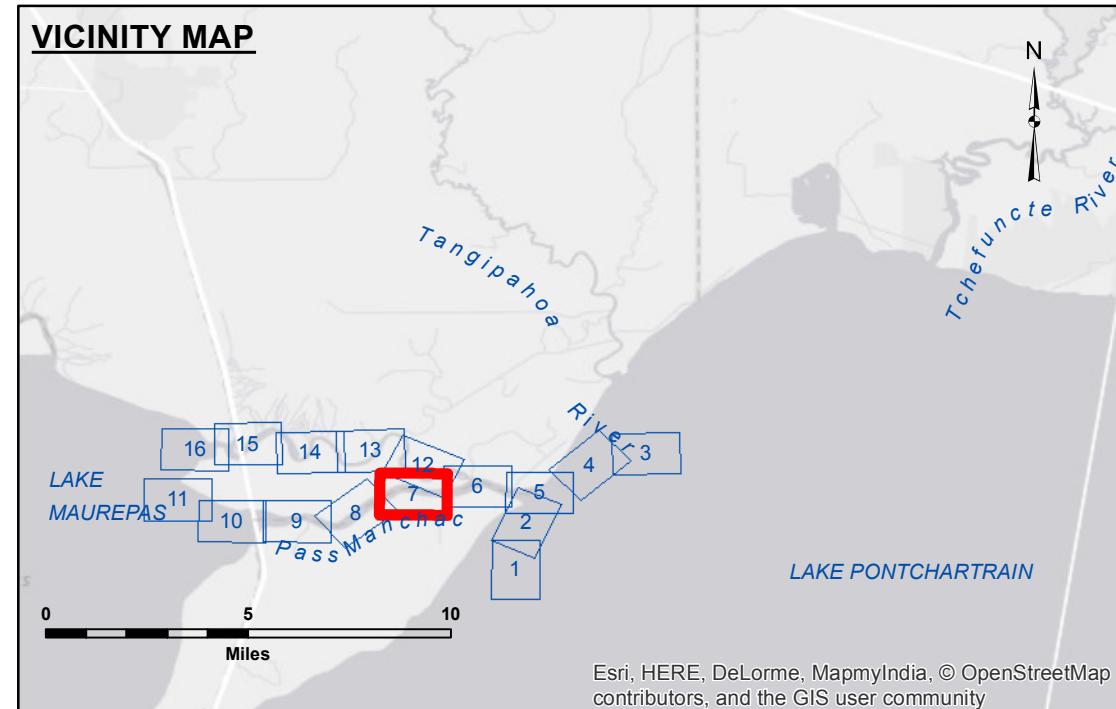
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Datum of 1983 (NAD83), projected to the State Plane  
Coordinate System (SPCS) Louisiana South Zone. Distance units in U.S. Survey Feet

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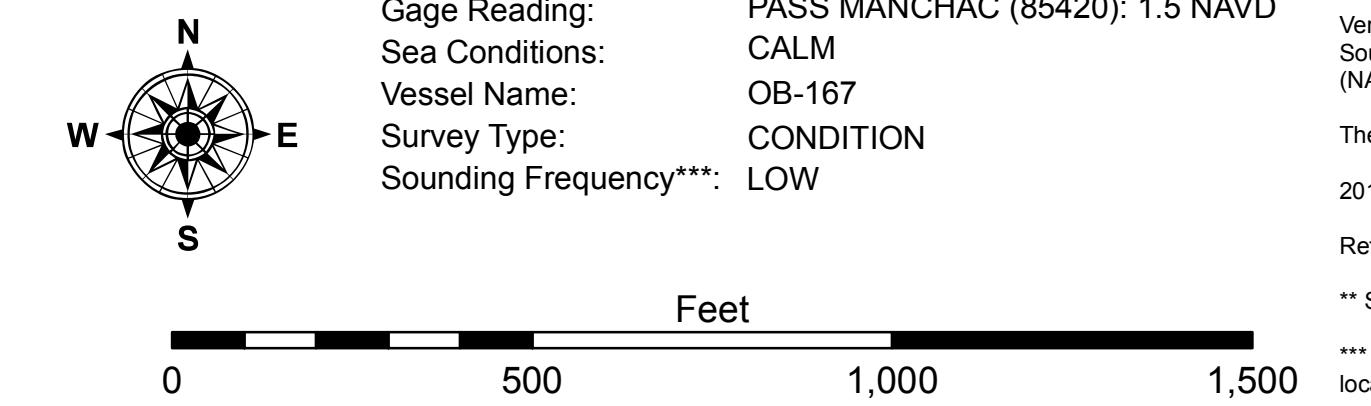
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## VICINITY MAP



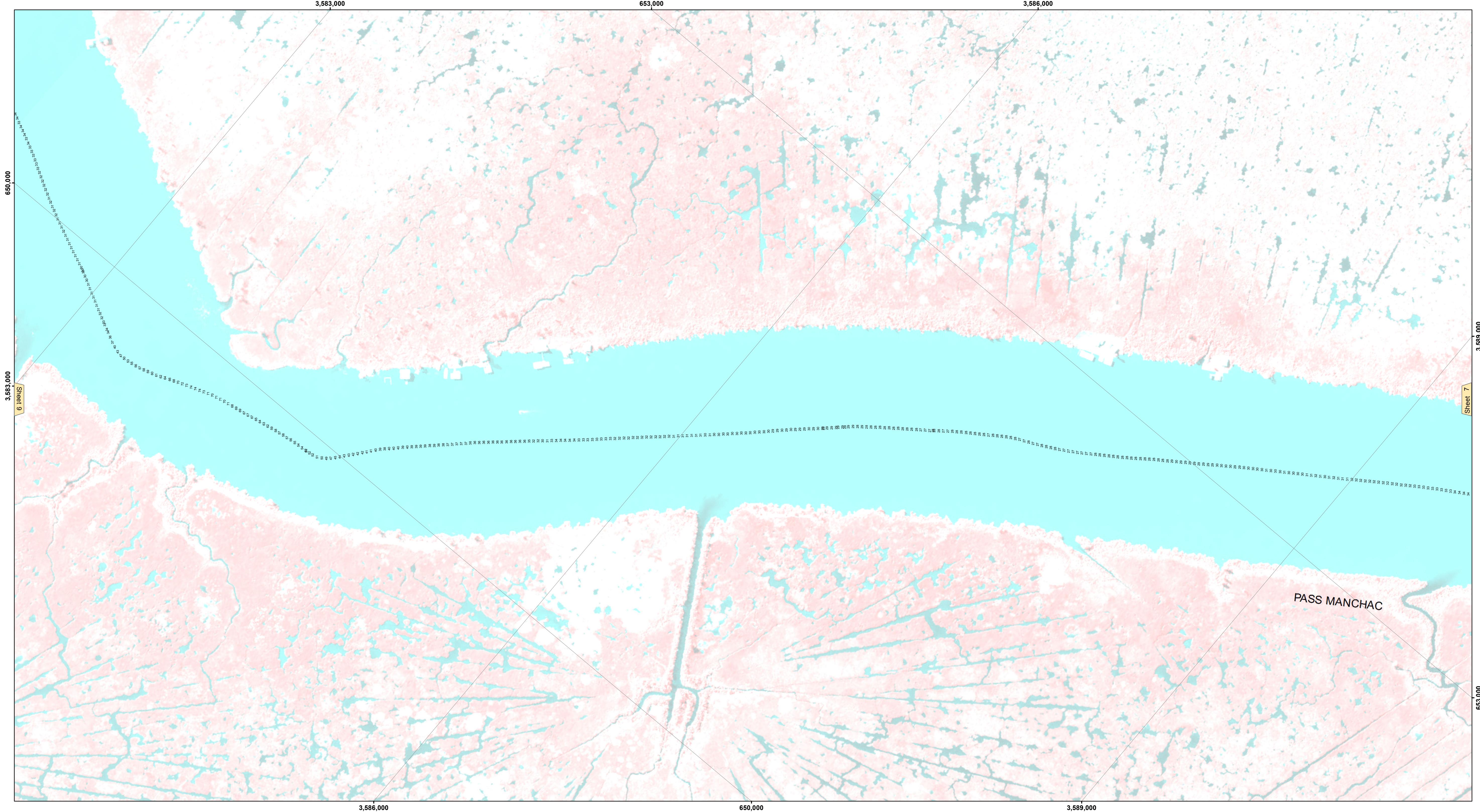
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- Federal Navigation Channel
  - Federal Navigation Center Line
  - As-built Pipeline/Cable
  - ..... Unconfirmed Pipeline/Cable
  - Project Depth Contour
  - ○ Cable Area
  - Placement Area
  - Anchorage Area
  - ⊗ Obstruction Point
  - ↗ Wrecks-Submerged
  - Borrow Area
  - Shoalest Sounding\*\*
  - ★ Beacon, General
  - ◆ Red Navigation Buoy
  - ◆ Green Navigation Buoy



Gage Reading: PASS MANCHAC (85420): 1.5 NAVD  
Sea Conditions: CALM  
Vessel Name: OB-167  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW

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7 of 1



## 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:  
Elevations are shown in feet and indicate depths below North American Vertical Datum of 1988 (NAVD88).

The location of navigation aids are base on and provided by the

The location of navigation aids are base on and provided by the U.S. Coast Guard.

10 Aerial Photography data source: NAIP Louisiana.

ference is N.O.A.A. Navigation Chart No. 11369.

Shoalest Sounding per Quarter per Reach.

High frequency (200 kHz) survey data represents the first signal return at a sounding station 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.

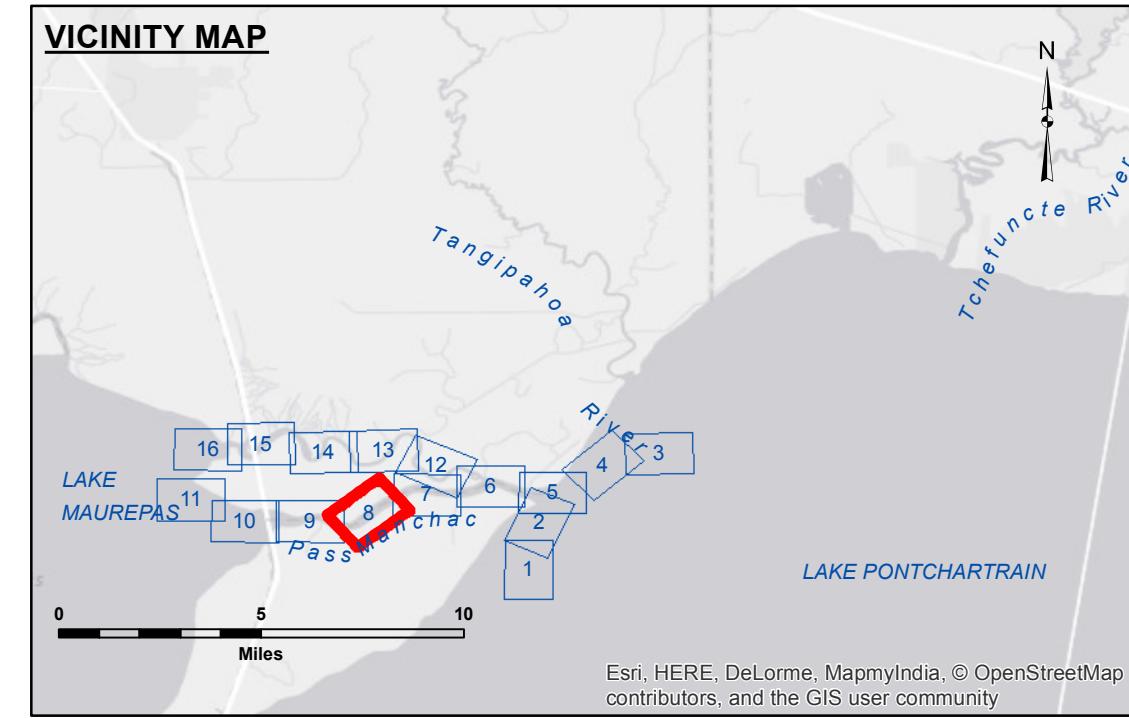
**VICINITY MAP**

This map shows the Vicinity Map of the Lake Maurepas and Lake Pontchartrain area. The map includes the Tangipahoa River, Tchefuncte River, and Lake Pontchartrain. Numbered locations 1 through 16 are marked along the water bodies and river. A red box highlights location 8, which is labeled "Pass Manchac". A scale bar indicates distances up to 10 miles.

Location Number	Approximate Location Description
1	Small island near Lake Pontchartrain
2	Small island near Lake Pontchartrain
3	Small island near Lake Pontchartrain
4	Small island near Lake Pontchartrain
5	Small island near Lake Pontchartrain
6	Small island near Lake Pontchartrain
7	Small island near Lake Pontchartrain
8	Pass Manchac (highlighted by red box)
9	Small opening or pass
10	Small opening or pass
11	Small opening or pass
12	Small opening or pass
13	Small opening or pass
14	Small opening or pass
15	Small opening or pass
16	Small opening or pass

Scale: 0, 5, 10 Miles

Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

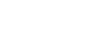


## **VICINITY MAP**

Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

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- |       |                                | <u>Legend</u> |                     |
|-------|--------------------------------|---------------|---------------------|
| ---   | 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         |
|       |                                | ●             | Shoalest Sounding** |
|       |                                | ★             | Beacon, General     |
|       |                                | ◆             | Red Navigation Buoy |
|       |                                | ◆             | Green Navigation Bu |

 Gage Reading: PASS MANCHAC (85420): 1.5 NAVD  
Sea Conditions: CALM  
Vessel Name: OB-167  
Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW

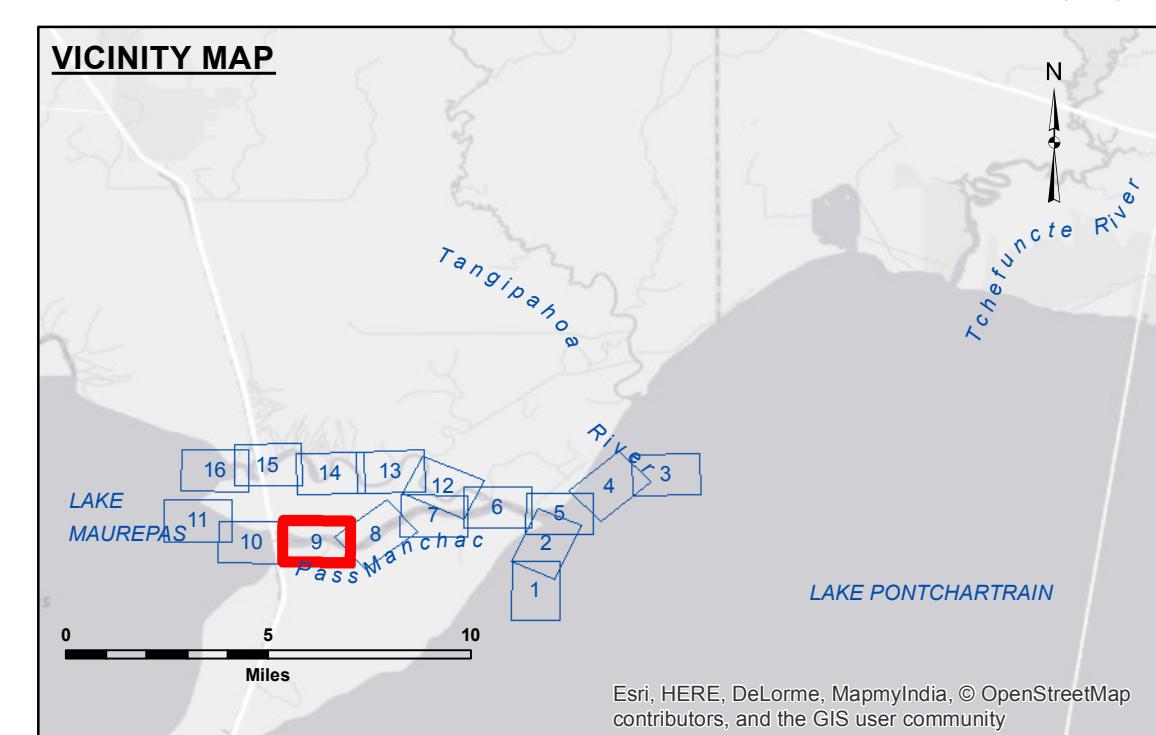
\*\* See notes.

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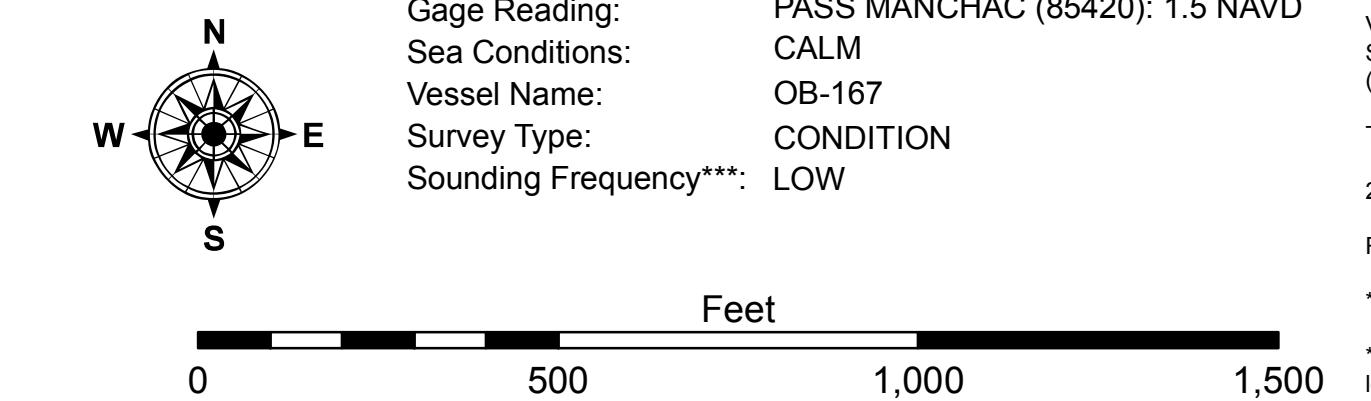
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Revision Number  
3.8.0.2015020



<b>LEGEND</b>	
— 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	★ Beacon, General
	◆ Red Navigation Buoy
	◆ Green Navigation Buoy
	✗ Wrecks-Submerged



Gage Reading: PASS MANCHAC (85420): 1.5 NAVD  
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(NAVD88).

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2010 Aerial Photography data source: NAIP Louisiana.

Reference is N.O.A.A. Navigation Chart No. 11369.

\*\* 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 "fuzz" if present. Low frequency (20 kHz)  
survey data normally penetrates through this "fuzz" layer to depict elevations of consolidated bottom  
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settings.

**Sheet  
Reference  
Number**  
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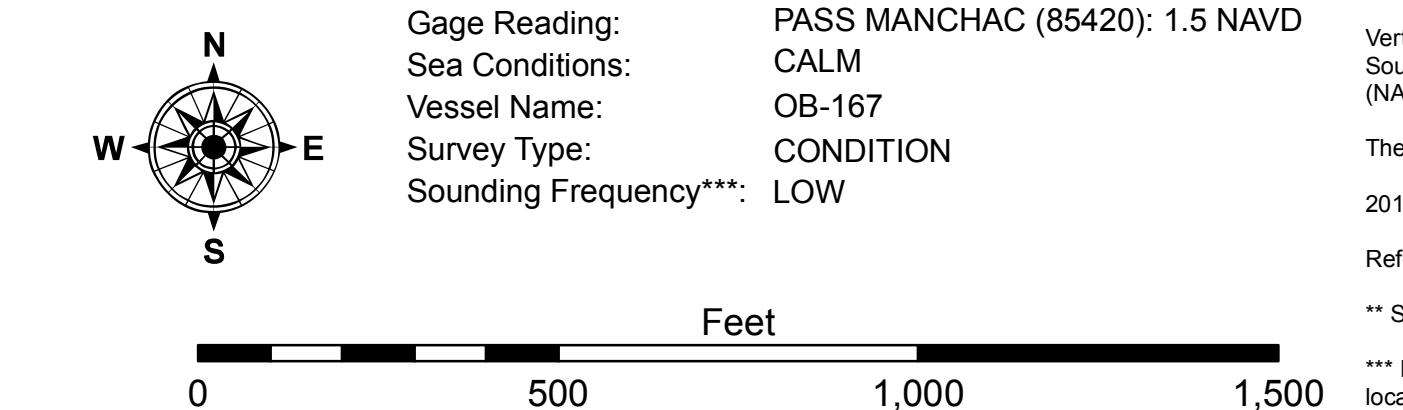
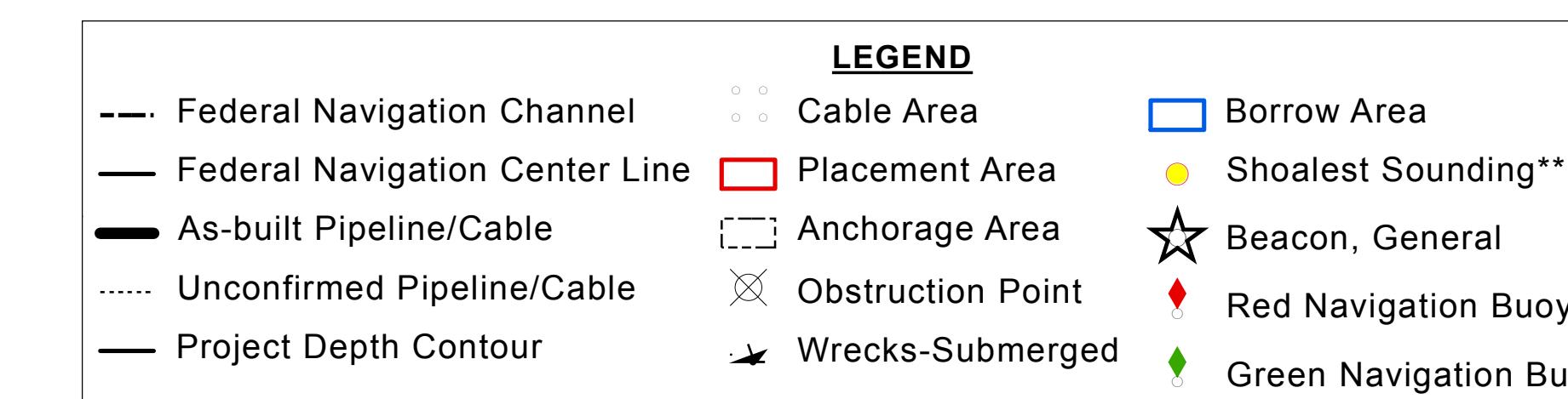
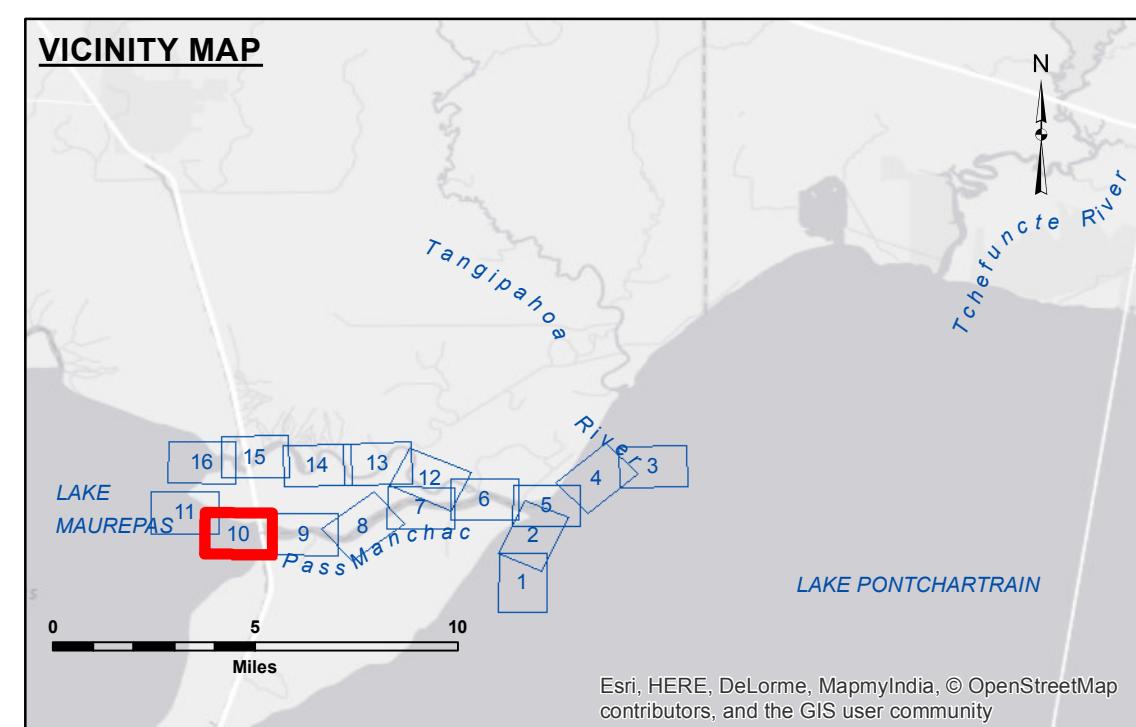
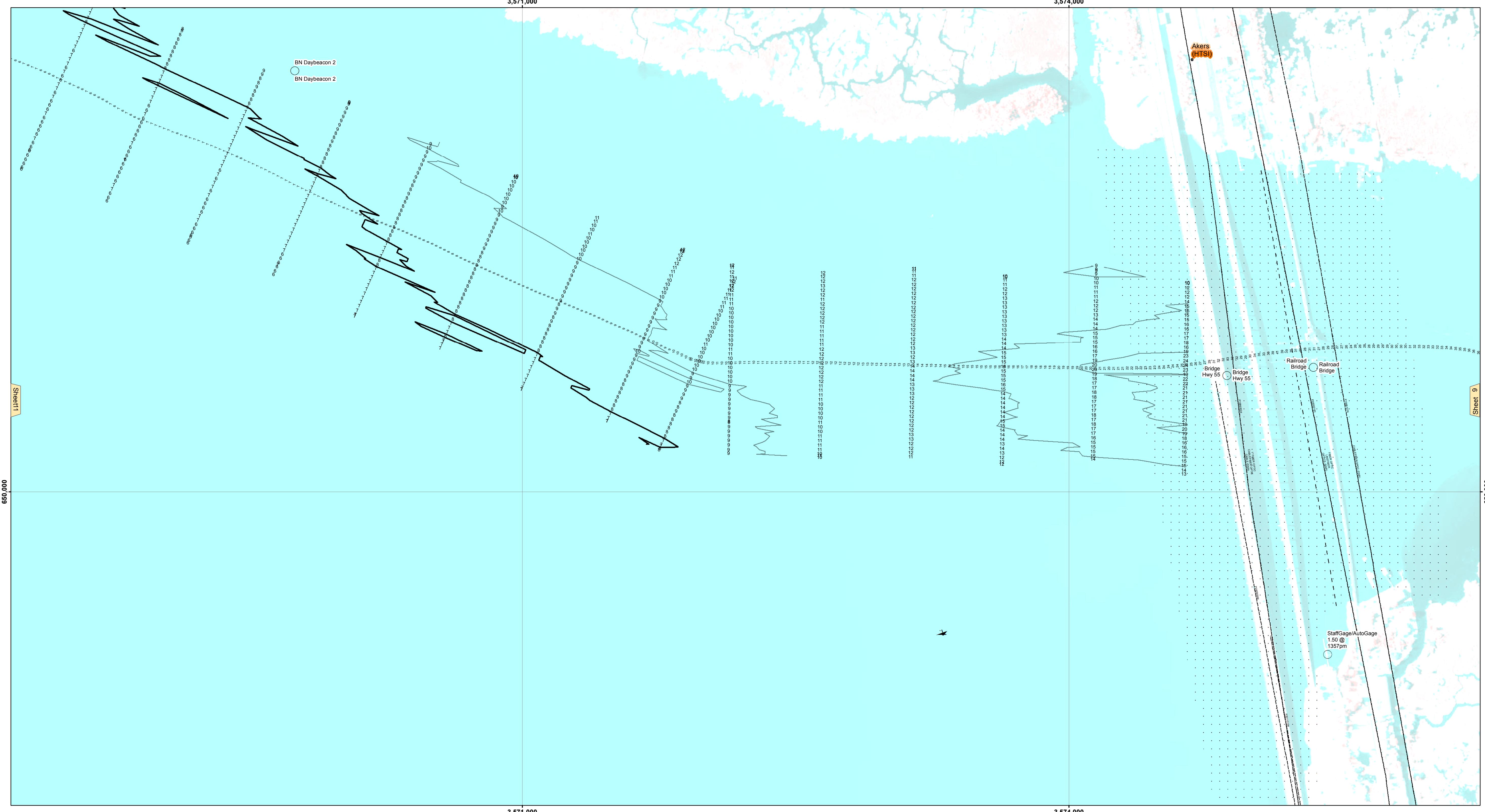
Revision Number:  
3.8.0-20150202



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Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging operations, changes in river bed material, subsidence, and changes in the hydrographic conditions which develop after the date of publication. The user is responsible for keeping the data current. The Army Corps of Engineers does not assume responsibility for changes in the hydrographic conditions which develop after the date of publication. The data is intended for U.S. Army Corps of Engineers internal use and should not be used open to the general public or considered reliable unless the government condition existing at the time it was issued.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Surveyed By:	SPM
Submitted:	
Projected By:	AO
Recommended:	Chief Survey Section
Approved:	Chief Waterways Maintenance Section
Checked By:	RIN

**NORTHSORE WATERWAYS  
PASS MANCHAC / NORTH PASS  
NS\_07\_MAN\_20160414\_PM**  
14 April 2016



**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 North American Vertical Datum of 1988 (NAVD88).  
The location of navigation aids are base on and provided by the U.S. Coast Guard.  
2010 Aerial Photography data source: NAIP Louisiana.  
Reference is N.O.A.A. Navigation Chart No. 11369.  
\*\* Shoal sounding per quarter per reach.  
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**Sheet Reference Number**  
**10 of 16**

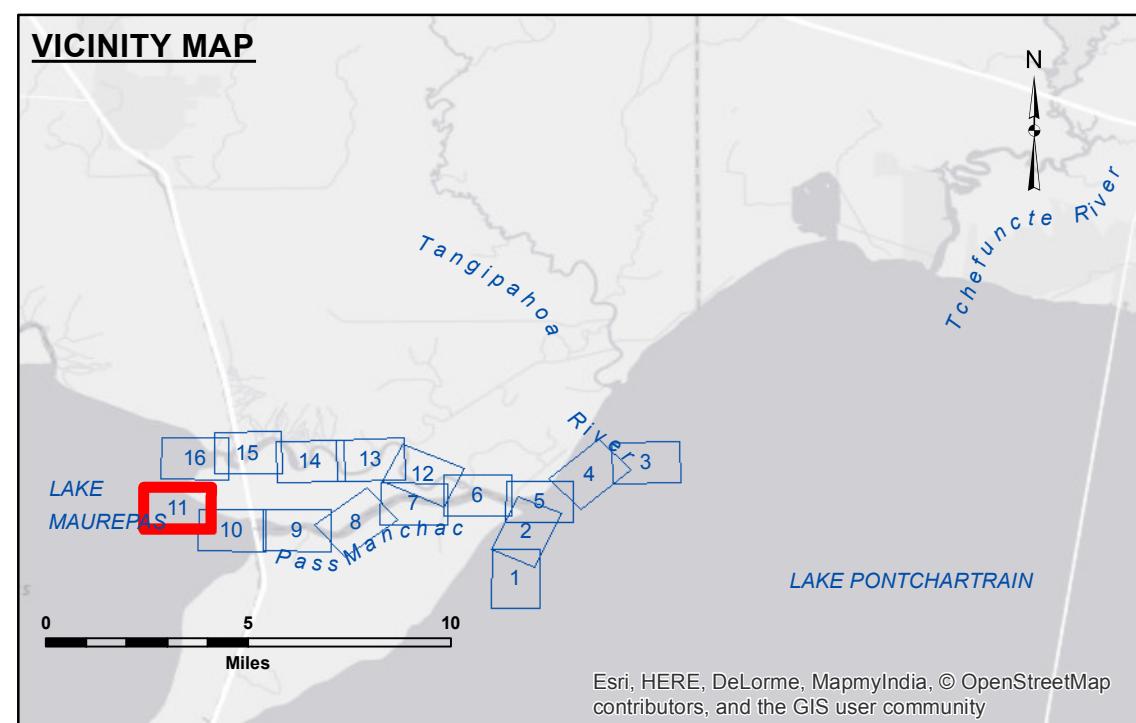
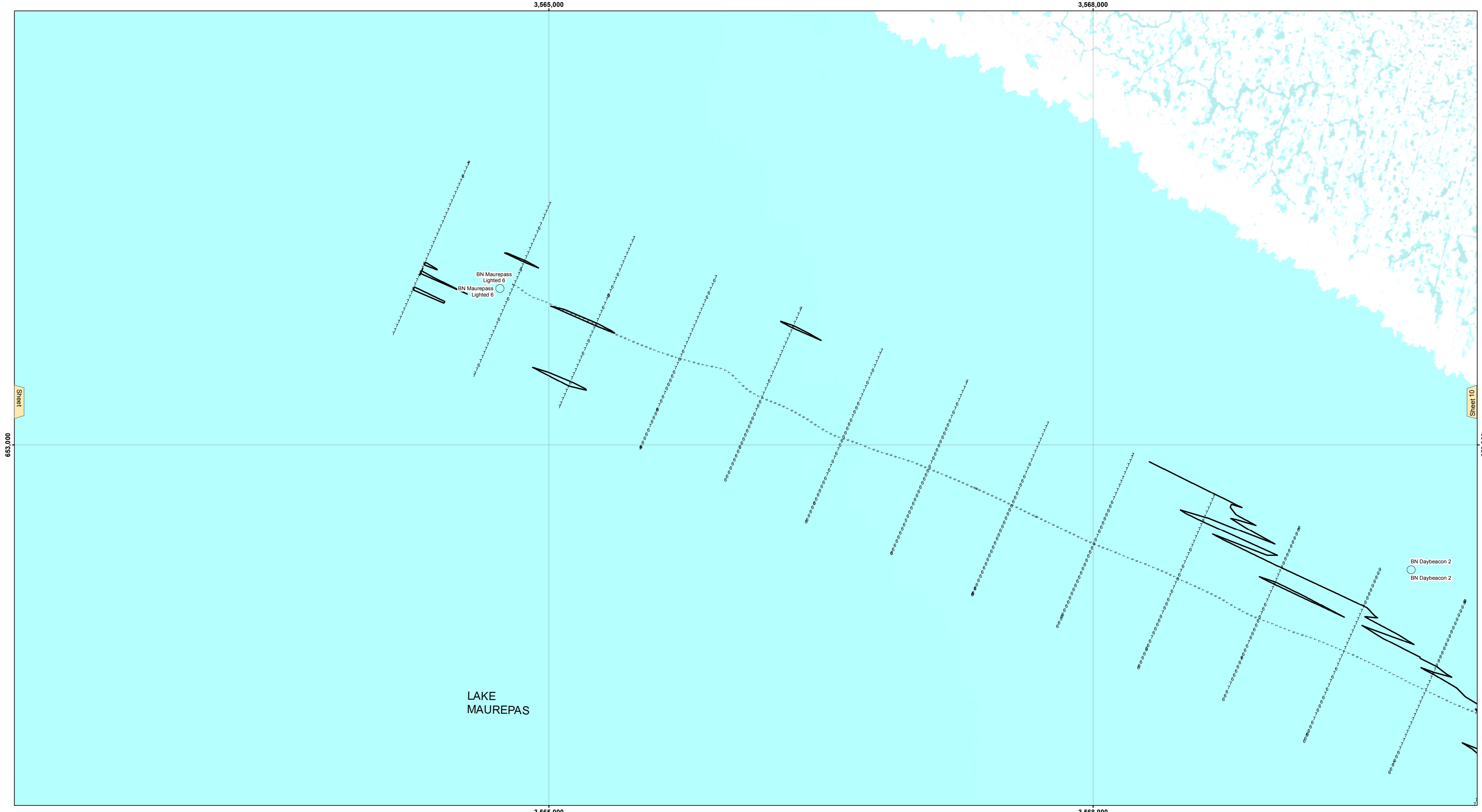
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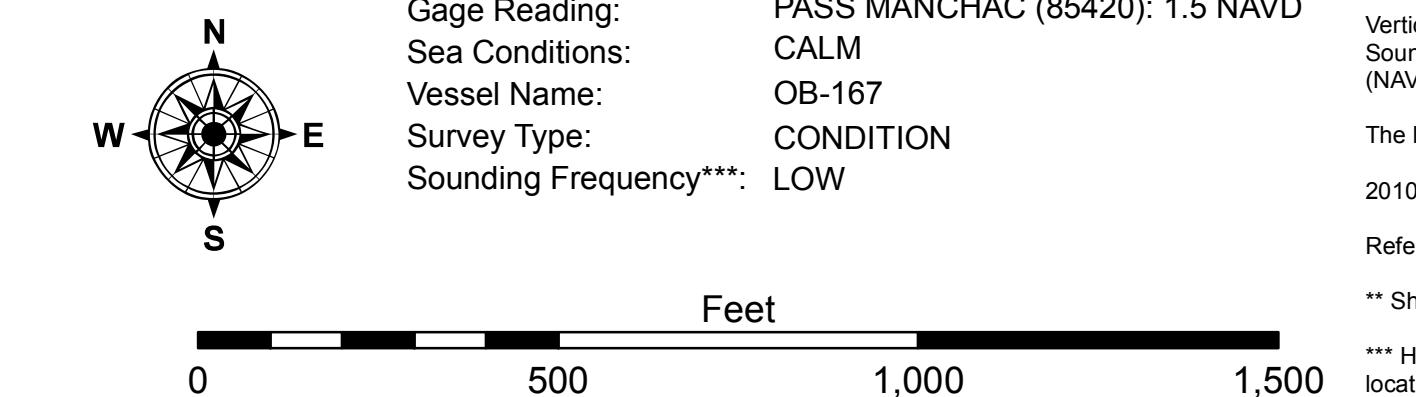
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Access Constraints: The data represents the results of data collection/processing by a specific US Army Corps of Engineers activity and includes the general scope and usage terms as such, including the general terms and conditions of use. The user is responsible for the results of any of the application of the data to 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 operations, subsidence, and changes in river channel. The United States Corps of Engineers does no responsibility for changes in the hydrographic conditions which develop after the date of publication. This information is for reference purposes only and is not to be used for legal surveys. The data is intended for U.S. Army Corps of Engineers personnel and shall not be used by others.

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT	
Surveyed By: SPM	Submitted:
Plotted By: AO	Recommended: Chief Survey Section
Checked By: RN	Approved: Chief Waterways Maintenance Section

**NORTHSORE WATERWAYS  
PASS MANCHAC / NORTH PASS  
NS\_07\_MAN\_20160414\_PM  
14 April 2016**



<u>LEGEND</u>	
— 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
	● Shoalest Sounding**
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	◆ Red Navigation Buoy
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Survey Type: CONDITION  
Sounding Frequency\*\*\*: LOW

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Revision Number:  
3.8.0-20150202



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Data Constraints: Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging operations, subsidence, and changes in water levels. The United States shall make no representations concerning the hydrographic conditions which develop after the date of publication. This data is intended for U.S. Army Corps of Engineers' internal use and shall not be considered reliable. The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

U.S. ARMY CORPS OF ENGINEERS	
NEW ORLEANS DISTRICT	
Submitted:	Surveyed By: SPM
Recommended:	Plotted By: AO
Approved:	Checked By: RN
Chief, Waterways Maintenance Section	

**NORTHSORE WATERWAYS**  
**PASS MANCHAC / NORTH PASS**  
**NS\_07\_MAN\_20160414\_PM**  
**14 April 2016**