



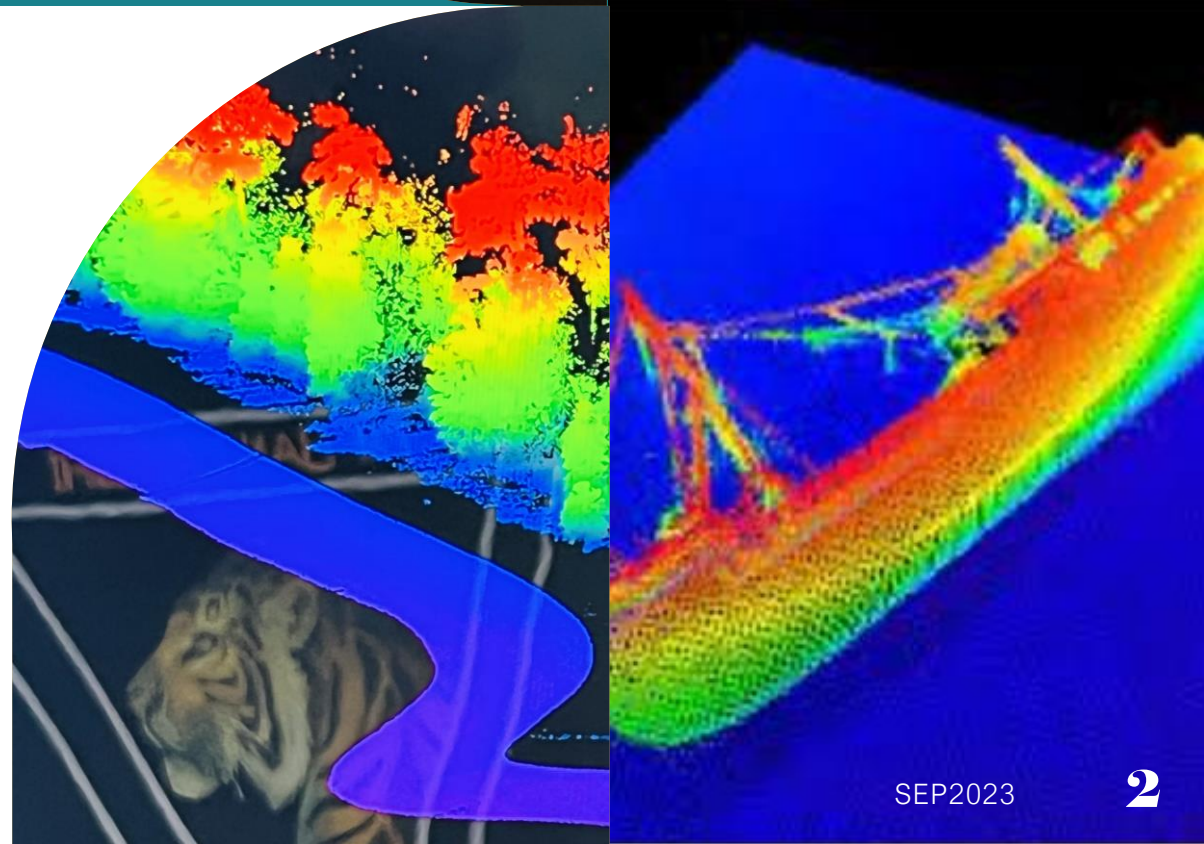
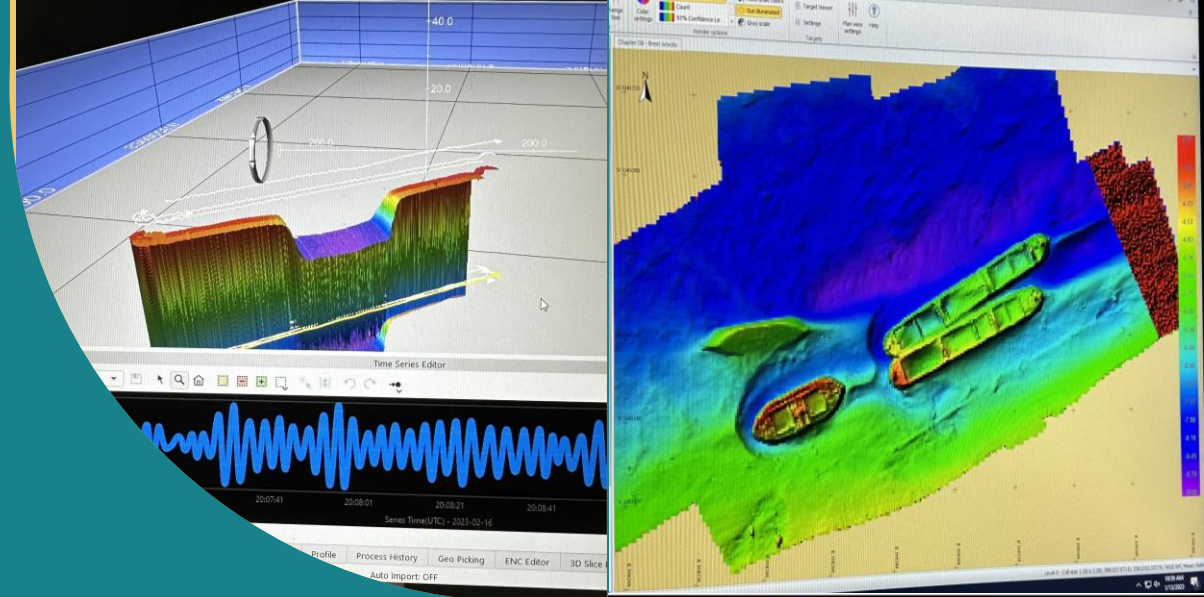
THE UNIVERSITY OF  
**SOUTHERN**  
**MISSISSIPPI.**

# Hydrography Cat. A USM 2022-2023

DIEGO  
FERNANDO  
MENDEZ PORTA

# Agenda

- Self-Introduction
- Experience
- Current Work





# Self-Introduction

- -Lieutenant Junior Grade, Guatemala Navy
- -B.S. Marine Engineering, 2015
- -Navigation and Merchant Seafarer, 2015
- -Surface Unit for 2 years
- -Naval Special Forces for 5 years
- -Hydrographic Office.

# Experience

TRAININGS AND OPPORTUNITIES

SUMMER PROJECT

MISCELLANEOUS



# Trainings and Opportunities

- HYPACK
- QPS. QUINSY-QUIMERA
- ARC GIS - T CARTA
- SBG- QINERTIA
- EIVA
- CARIS- Base Editor
- THSOA US Hydro Conference  
2023



ArcGIS

QPS.

EIVA

TELEDYNE

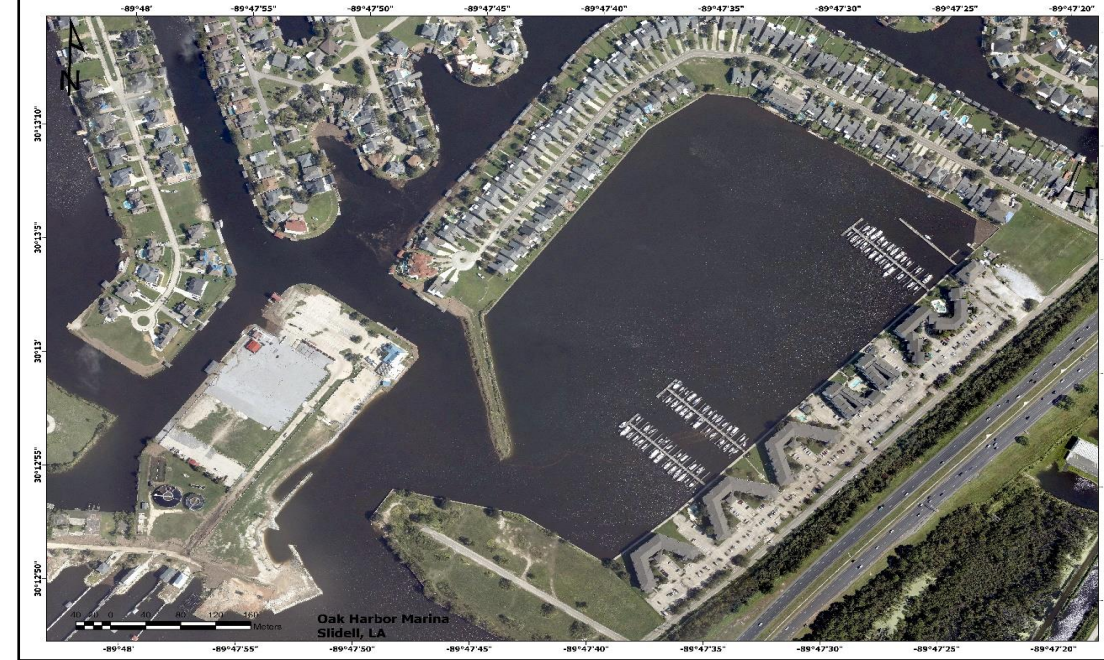
Teledyne Geospatial  
Imaging Solutions for Land and Water



Qinertia

# Summer Project

- Oak Harbor Marina Slidell, LA, USA
- No Survey data available, I-10 Bridge
- Le Moyne and Z-Boat.
- R2 SONIC 2024
- LiDAR Puck VLP-16
- EdgeTech 4600



# Survey Area Division

Survey area was divided into 4 priority areas.

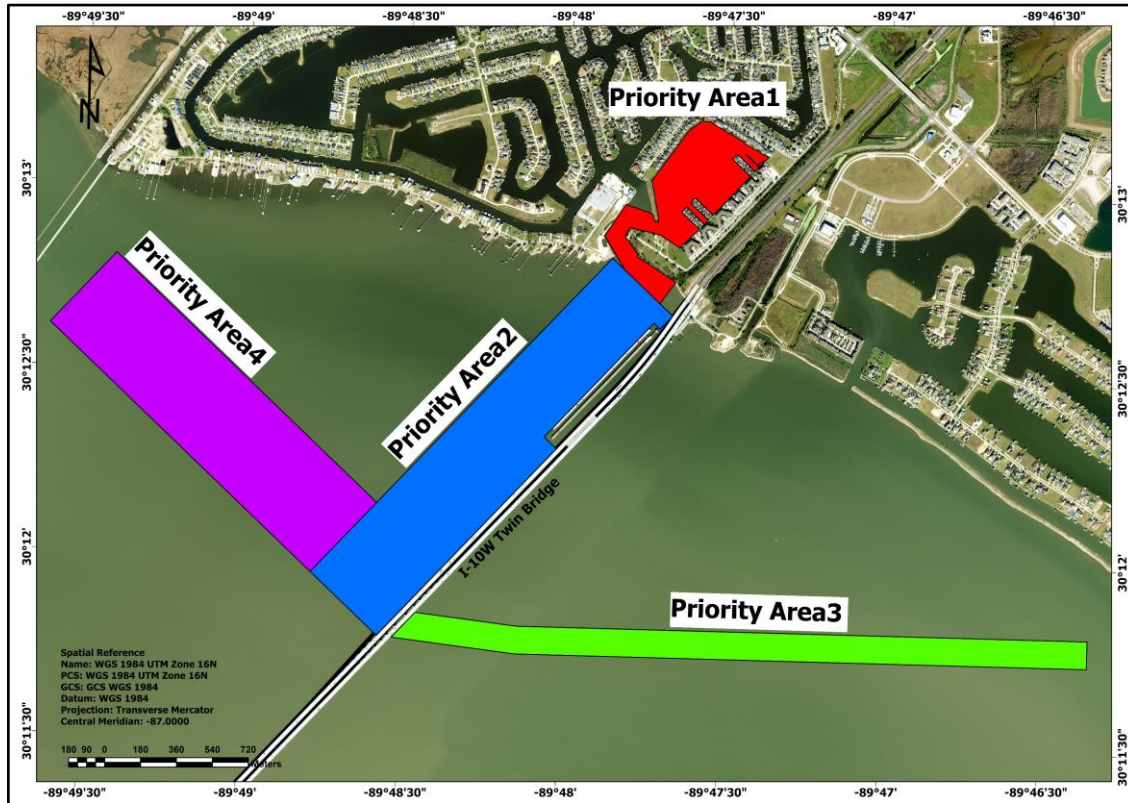


Figure 22. Survey area in Slidell, LA showing the four priority areas for the project.

## Priority Area 1

- Client's most important survey area.
- Concerns about shoaling areas – **Not Surveyed since Hurricane IDA.**
- Area for survey is 0.2sqkm/0.108nm.
- Avg. water depth  $\cong$  2m

## Priority Area 2

- National Importance.
- Area for survey is 0.712sqkm/0.384nm.
- Avg. water depth  $\cong$  2.5m.

## Priority Area 3

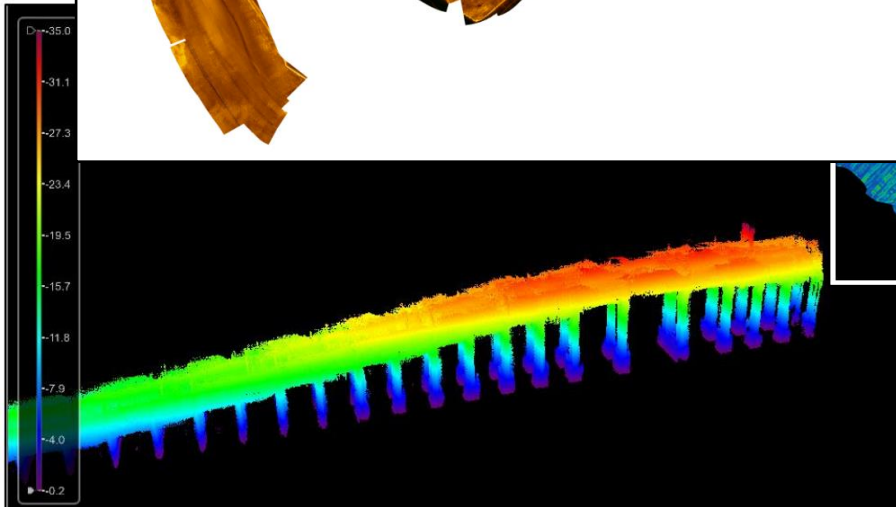
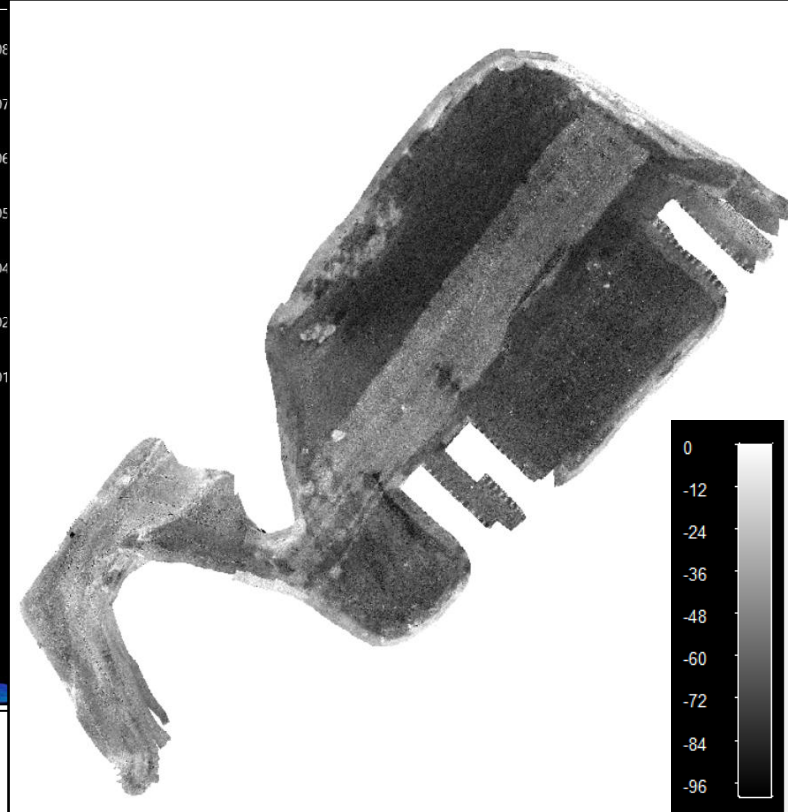
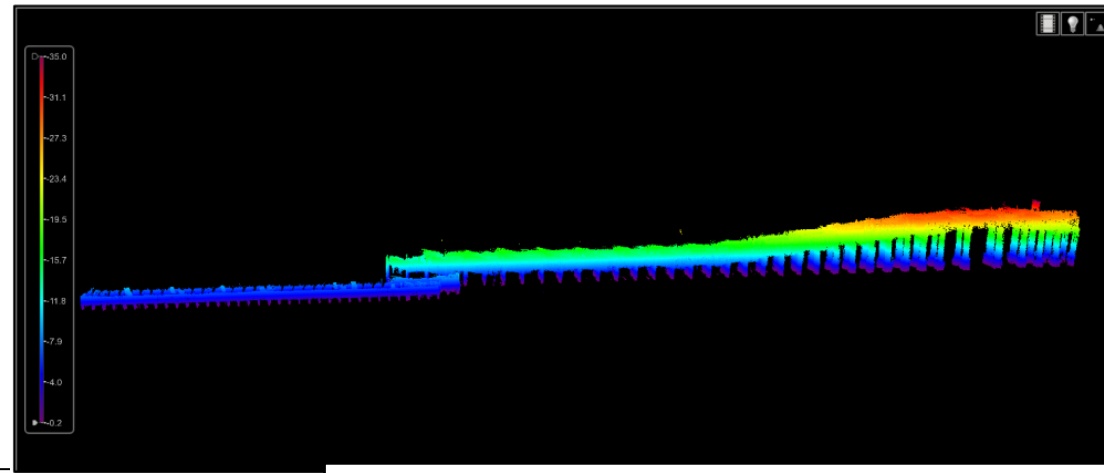
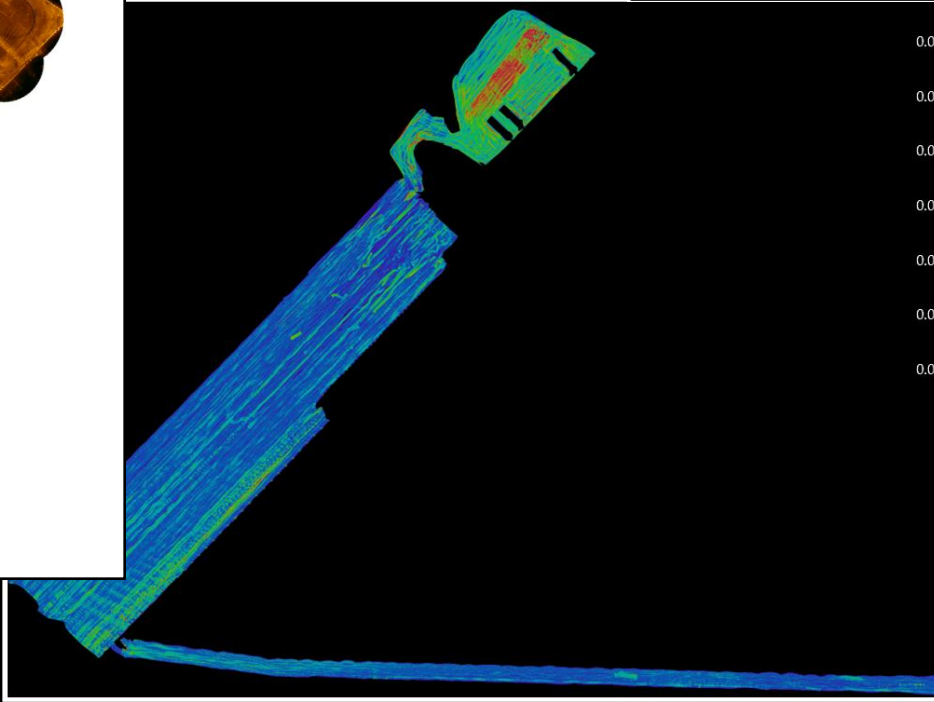
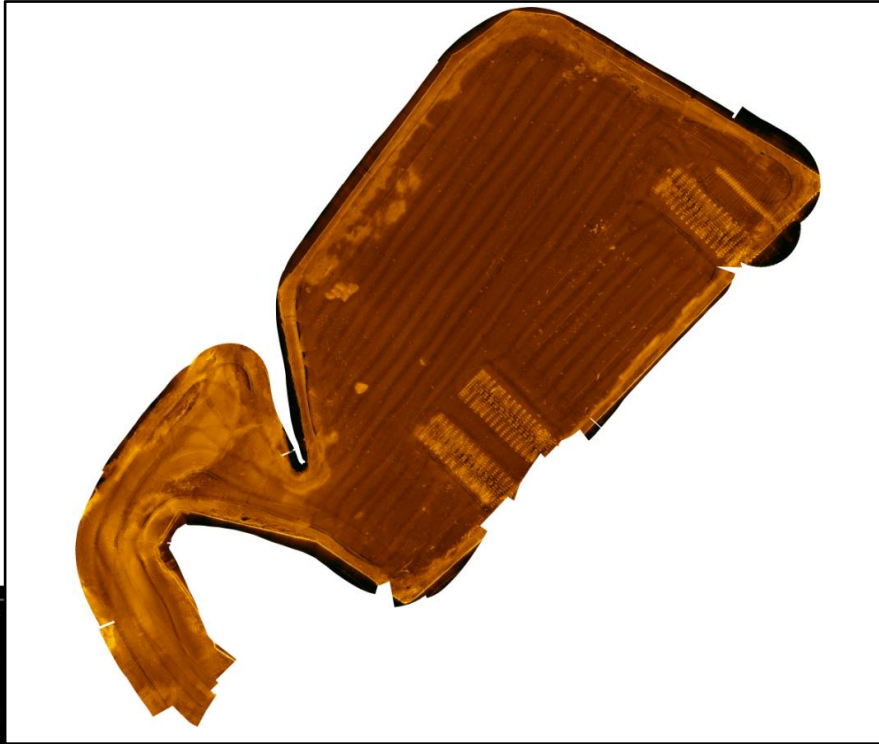
- Northshore Channel.
- Area for survey is 0.45sqkm/0.24nm.
- Depth of Channel: **Not Charted in ENC Map.**

## Priority Area 4 (Not surveyed- Time)

- Minimum **60ft Overhead clearance @ I-10 Twin Bridge.**
- Underwater objects height - **Not Charted in ENC Maps.**
- Area for survey is 1.09sqkm/0.589nm.
- Avg. water depth  $\cong$  2.5m.

# Products

- Perfect match within datasets.





# Miscellaneous

- Housing, Settle up.
- New Personnel (administrative issues).
- Hands on equipment, ASV, Z-BOAT.
- Great peers and friends
- Excellent Faculty

# Current Work

- Hydrographic Office
- One Month after Graduation
- Hydrographic Survey in Rio Dulce, Izabal, Guatemala.
- 06SEP-14OCT
- Kongsberg, MP2040





# Thank You

Diego Fernando Mendez Porta

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