

W00632

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

DESCRIPTIVE REPORT

Type of Survey: Support USGS

Registry Number: W00632

LOCALITY

State(s): Louisiana

General Locality: Gulf of Mexico

Sub-locality: Outer Continental Shelf

2002

CHIEF OF PARTY
Peter Dartnell

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

W00632

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State(s): **Louisiana**

General Locality: **Gulf of Mexico**

Sub-Locality: **Outer Continental Shelf**

Scale: **125000**

Dates of Survey: **12/12/1997 to 06/28/2002**

Instructions Dated: **N/A**

Project Number: **ESD-AHB-22**

Field Unit: **US Geological Survey**

Chief of Party: **Peter Dartnell**

Soundings by: **Kongsberg Maritime EM 300 (MBES)**

Imagery by: **N/A**

Verification by: **Atlantic Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <https://www.ncei.noaa.gov/>. Products created during office processing were generated in NAD83 UTM 15N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

DESCRIPTIVE REPORT MEMO

October 20, 2023

MEMORANDUM FOR: Atlantic Hydrographic Branch

FROM: Report prepared by AHB on behalf of field unit
Pete Dartnell
Physical Scientist, United States Geological Survey (USGS)

SUBJECT: Submission of Survey W00632

Support USGS

BAG's were created to support the NBS. A GeoPDF was also created.

The vertical datum for this project is Mean Lower Low Water. The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 15.

Soundings were reduced to MLLW. The horizontal datum for this project is NAD83. The projection used for this project is Universal Transverse Mercator (UTM) 15N.

All survey systems and methods utilized during this survey were as described in the following link:
<https://pubs.usgs.gov/of/2002/0411/metadata/xyzfaq.html>

The following method was used for CARIS grid generation: The data provided for W00632 consisted of three XYZ files in WGS84 horizontal coordinate system and MLLW vertical datum. Due to consistent errors in VDatum, the XYZ file was horizontally transformed in ArcGIS Pro. The transformation process took several steps that are as follows: convert XYZ file to point feature layer, project point layer to NAD83 UTM15, use calculate geometry tool to add X and Y coordinates to point layer attribute table, export attribute table as csv file. The resulting csv files included X and Y coordinates in NAD83 UTM 15 and Z values in MLLW, and were used as inputs in Caris to create point cloud csar files. The point cloud csar files were then used as inputs to create 8 meter csar grids. Each of the 8 meter grids were combined using the Caris combine tool.

All data were reviewed for DTONs and none were identified in this survey.

USGS acquired the data outlined in this report. Data are available at <https://pubs.usgs.gov/of/2002/0411/data.html>. Additional documentation from the data provider may be attached to this report.

This survey does not meet charting specifications and is not adequate to supersede prior data. AHB has determined that based on junction analysis this data should receive a CATZOC C.