

W00566

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

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: W00566

LOCALITY

State(s): Florida

General Locality: Florida Intracoastal Waterway

Sub-locality: Sebastian to North Key Largo, FL

2014

CHIEF OF PARTY
N/A

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

W00566

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): **Florida**

General Locality: **Florida Intracoastal Waterway**

Sub-Locality: **Sebastian to North Key Largo, FL**

Scale: **20000**

Dates of Survey: **02/18/2014 to 10/02/2014**

Instructions Dated: **N/A**

Project Number: **ESD-PHB-21**

Field Unit: **Florida Inland Navigation District**

Chief of Party: **N/A**

Soundings by: **Teledyne Odom Hydrographic MB1 (MBES)**

Imagery by: **N/A**

Verification by: **Pacific 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 17N, 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

September 02, 2022

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Report prepared by PHB on behalf of field unit
Mark Crosley
Executive Director, Florida Inland Navigation District

SUBJECT: Submission of Survey W00566

The purpose of this survey was to determine the general bathymetric conditions of the Intracoastal Waterway Channel (ICWW). The survey was prepared for the Florida Inland Navigation District by a contracted field unit.

Six MBES grids, all with 1 meter resolutions, were provided to the Pacific Hydrographic Branch via the External Source Data Team.

All soundings were reduced to Mean Lower Low Water using VDatum. 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 17.

The data provider sent data as a point shapefile. The point shapefile for each county was exported to a csv file. The csv files were used as inputs in VDatum to convert the horizontal coordinate system from NAD83 State Plane Florida East (0901) in US Feet to NAD83 UTM17 in meters. The shifted XYZ outputs were then imported into CARIS Base Editor as point cloud csar files. The info file used to convert the XYZ data used a -0.3048 multiplier on the Z column to change the sign from - to + and convert units from feet to meters. Each of the csar files were checked for egregious fliers which were removed using subset editor, and then used as inputs for creating csar grids. The XYZ points included areas of evenly spaced gridded points and randomly spaced point clouds. Grid resolution was determined by measuring coarsest spacing between gridded point soundings. Each csar grid was visually inspected for areas of interpolation and none were found.

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

Florida Inland Navigation District acquired the data outlined in this report. Additional documentation from the data provider may be attached to this report.

Data from this survey is adequate to supersede charted data in areas where the existing charted data is older and/or of lower quality as determined by the attribution of the M_QUAL objects in the latest ENC's.

The survey is partially adequate to supersede previous data. This ESD survey is higher quality and more recent than a majority the currently charted data. It is recommended that this survey be designated as CATZOC B and supersede charted data in areas where the existing charted data is older and/or of lower quality as determined by the attribution of the M_QUAL objects in the latest ENC's.