

C. Vertical and Horizontal Control

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

Non-Standard Vertical Control Methods Used:

VDatum

Ellipsoid to Chart Datum Separation File:

ITRF_to_MLLW_FL_KEYS.bin

In order to reference soundings to MLLW, a VDatum separation method was applied to the Qinsy DB files via a separation file in the acquisition softwares.

Note: The vertical control methods are further addressed in the HVCR and DAPR.

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD83).

The projection used for this project is UTM Zone 17N.

D. Results and Recommendations

D.1 Chart Comparison

A chart comparison was conducted for H13167 using Qimera and Caris HIPS and SIPS. Contours and soundings were compared against the largest scale ENC US4FL92M to accomplish the chart comparison. The methods and results of the comparison are detailed below.

Contour Comparison Method: Using the 1 meter CUBE weighted Dynamic Surface, the 12 foot, 18 foot and 30 foot contours were generated in Qimera and displayed against the charted contour. Additionally, the 1 meter CUBE weighted Dynamic Surface was viewed by a custom color band range based on the contour intervals (12ft,18ft, 30ft). The results of the comparison are described below, followed by 1-2 images of example areas.