

C. Vertical and Horizontal Control

There were no tide gauges or base stations installed by the survey vessel crew for this project; no Horizontal and Vertical Control Report (HVCR) was submitted.

C.1 Vertical Control

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

ERS Methods Used:

ERS via VDATUM

Ellipsoid to Chart Datum Separation File:

OPR_L373_RA_18_20181115b_xyNAD83-MLLW_geoid12b.csar

C.2 Horizontal Control

The horizontal datum for this project is North American Datum 1983.

The projection used for this project is Projected UTM 10N.

Post Processed Real-Time-Extended (PP-RTX) processing methods were used in the Applanix POSPac MMS 8.2.1 software to produce Smoothed Best-Estimate Trajectories (SBET) for post-processing horizontal correction.

D. Results and Recommendations

D.1 Chart Comparison

A comparison was made between H13151 survey data and Electronic Navigation Chart (ENC) US3CA85M. This was accomplished by creating CUBE surfaces and contours in Caris and comparing the surveyed contours with the charted depth curves on chart US3CA85M. The chart used is the most recent edition.