

C.1 Vertical Control

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

ERS Datum Transformation

The following ellipsoid-to-chart vertical datum transformation was used:

Method	Ellipsoid to Chart Datum Separation File
ERS via VDATUM	EC_Apalachicola_xyNAD83-MLLW_geoid12b.csar

Table 11: ERS method and SEP file

C.2 Horizontal Control

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 16.

PPP

All positioning and attitude data associated with OPR-J359-KR-19 was post-processed in POSpac MMS using PP-RTX methods. For further discussion, reference the HVCR and or DAPR submitted with this report.

D. Results and Recommendations

D.1 Chart Comparison

A chart comparison was conducted using the Triangle Rule script within the Chart Review Tool of Pydro QC Tools. A combined s57 file of charted soundings extracted from ENCs listed in the project instructions and an s57 file of surveyed soundings were compared with the following results (Figure 15):

1,336 of the 42,187 soundings selected within survey H13284 exceed charted values by greater than 1ft (Figure 16). The highest survey-to-chart discrepancy (within the assigned survey limits) of 4ft occur at the location of the crests of shifting sand waves in the vicinity of 29-22-18.77N 085-01-45.35W (Figure 17).