

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	OPR-J315-KR-21_100m_NAD83_2011-MLLW.csar

Table 12: 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.

The following PPK methods were used for horizontal control:

- RTX

The separation model listed in Table 12 was provided with the Project Instructions and used for sounding correction within the assigned survey area. Real-time navigation for all MBES survey lines were overwritten with post-processed navigation solutions in Smooth Best Estimate of Trajectory (SBET) format. Post-processed solutions were generated using Applanix POSpac MMS using the Trimble CenterPoint RTX option, which relies on precise satellite orbit and timing information to create centimeter-level positioning and elevation without the use of traditional local base stations. Information on survey control is detailed in the DAPR.