

G. Vertical and Horizontal Control

The vertical datum for this project is Mean Lower Low Water. The vertical control method used was VDatum.

The vertical datum for the survey is MLLW, realized through ERS via VDatum methods. The separation model listed was provided with the Project Instructions and used for sounding correction within the assigned survey area. Realtime navigation for all MBES survey lines were overwritten with post-processed navigation solutions in SBET format. Post-processed solutions were generated with Applanix POSPac MMS software using single base processing methods. This process relied on GNSS data from base station Calcasieu Pass, LA (site id: CALC) operated by the Louisiana State University C4Gnet Real Time Network. Post processed trajectories were generated relative to NAD83(2011). Information on survey control is detailed in the DAPR.

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 15.

The POS MV was configured to receive real time corrections from the Federal Aviation Administration Wide Area Augmentation System (FAA WAAS) during data acquisition. All real-time navigation data were overwritten with the application of post-processed SBET files when processing multibeam data in CARIS HIPS.