



C. VERTICAL AND HORIZONTAL CONTROL

Tide and water level corrections were determined and applied in accordance with Attachment #7 of the Statement of Work. Data from Calcasieu Pass, LA (8768094) and Cypremort Point, LA (8765251) tidal stations were used. The statement of work dictates that tidal correctors from the Freshwater Locks gauge should be used as primary for the entirety of this work area. This gauge could not be used because of poor data quality. As a result, new zones relative to the Calcasieu Pass gauge were established and applied. Tidal zoning as set forth in the Statement of Work was applied. The following table shows the tidal zone and correctors that were used for this sheet. Tidal data were processed using the 1983-01 epoch.

Tides were applied to all multi beam data in Caris using tidal data downloaded from the NOAA CO-OPS website, and corrected using a tidal zone definition file (.zdf) supplied by NOAA. After reviewing the processed data along the edges of the tidal zones, it was determined that no alterations to the .zdf file were required.

Tide Zone	Reference Station	Time Corrector (min)	Range Ratio
WGM286	8768094	6	1.04
WGM366	8768094	6	1.02
WGM377	8768094	-6	1.07
WGM366A	8768094	-6	1.04
WGM375	8768094	-6	1.07
WGM376	8768094	0	1.07
WLA49	8765251	-126	1.06
WLA50	8765251	-132	1.06
WLA51	8765251	-84	1.09
WLA53	8768094	72	0.97
WLA54	8768094	54	1.00
WLA52	8768094	84	0.97
WLA60	8768094	0	1.00
WLA55	8768094	36	0.97
WLA59	8768094	6	1.04
WLA58	8768094	12	1.04
WLA57	8768094	24	1.04
WLA56	8768094	30	1.02

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The horizontal datum for the survey is the North American Datum of 1983 (NAD 83). The projection is Universal Transverse Mercator (UTM) Zone 15 North. The vertical datum for the soundings is Mean Lower Low Water (MLLW). *Concur.*