

Tide/water levels for this project were provided exclusively by NOAA as verified data from NOAA Tide Station 876-4227, LAWMA, LA. The project is located within zones indicated by preliminary tidal zoning included in the project Statement of Work. Time and range corrections were applied to LAWMA, LA (876-4227) verified tide data according to Table 2.

Based on the results of crossline analysis, it appears that the time and range factors as provided in the preliminary zoning scheme are adequate.

Coordinated Universal Time (UTC) was used to annotate the tide records and all other data obtained for this project.

Preliminary tide correctors were retrieved daily from the CO-OPS website. Verified tides were retrieved as they were made available by CO-OPS. Tide data were applied to processed soundings employing the CARIS “Import Tide to HIPS” function.

A slightly altered version of the CARIS-format zoning file, “K354KR2017rev.zdf” (provided by CO-OPS), was employed to facilitate the application of final tide zoning scheme factors. During data processing OSI discovered a minor flaw in the 6th vertex of CO-OPS-provided Zone #82; the vertex did not fall exactly on a nearby vertex of the adjacent zone which is the presumed intention of CO-OPS. The result was a long, narrow, triangular area with no zoning coverage. The non-coverage triangle had two legs roughly 11.6 kilometers long with the third leg being only about 4 meters long. OSI adjusted the Zone #82 vertex which resulted in elimination of the non-coverage area. The 6th vertex as delivered by CO-OPS was 29.448176, -92.096407. OSI changed this vertex to 29.448128, -92.096409. In making the edit neither time nor magnitude multiplier changes were made to the preliminary zoning file. The OSI-edited zoning file, included with the project deliverables, uses the same name as noted above, i.e. the file name, as delivered by CO-OPS, was retained.

Table 2
Tide Zones Associated with Project OPR-K354-KR-17

| Zone | Time Correction | Range Correction |
|-------------|------------------------|-------------------------|
| 65 | -60 | 0.94 |
| 66 | -60 | 1.03 |
| 82 | -72 | 1.31 |
| 115 | -78 | 1.28 |
| 154 | -72 | 1.22 |
| 182 | -60 | 1.12 |
| 189 | -84 | 1.31 |
| 191 | -66 | 1.12 |
| 193 | -72 | 1.25 |
| 263 | -66 | 1.03 |