

**5.9. Zoning:** For hydrography in the area of Atchafalaya Bay and Morgan City, Stouts Pass, LA (876-4025), Tesoro Marine Terminal, LA (876-4044), and Lawma - Amerada Pass, LA (876-4227) are the reference stations for predicted tides. Predictions may be retrieved in one month

increments over the Internet from the CO-OPS Home Page at <http://tidesandcurrents.noaa.gov/olddata> and then clicking on “Predicted Water Level”. Predictions are six-minute time series data relative to MLLW in metric units on Greenwich Mean Time. Apply the following time and height correctors to the predicted tides at Stouts Pass, LA (876-4025), Tesoro Marine Terminal, LA (876-4044), and Lawma - Amerada Pass, LA (876-4227) during the acquisition and preliminary processing phases of this project for correcting all sounding data.

<b><u>Zone Name</u></b>	<b><u>Time Corrector(mins)</u></b>	<b><u>Range Ratio</u></b>	<b><u>Predicted Reference</u></b>
WLA240A	0	x1.00	876-4227
WLA263	-108	x1.73	876-4044
WLA264	-96	x1.60	876-4044
WLA265	-78	x1.53	876-4044
WLA266	-60	x1.40	876-4044
WLA267	-48	x1.33	876-4044
WLA268	-36	x1.27	876-4044
WLA269	-24	x1.20	876-4044
WLA270	-12	x1.07	876-4044
WLA271	+6	x1.00	876-4044
WLA272	-12	x0.86	876-4025
WLA272A	-12	x0.92	876-4025
WLA273	0	x0.98	876-4025

**NOTE: The tide corrector values referenced to Stouts Pass, LA (876-4025), Tesoro Marine Terminal, LA (876-4044), and Lawma - Amerada Pass, LA (876-4227) are provided in the zoning file “K354NRT1CORP” for this project and are in the fourth set of correctors designated as TS4.** Longitude and latitude coordinates are in decimal degrees. Negative (-) longitude is a MapInfo representation of west longitude.

**NOTE:** For time corrections, a negative (-) time correction indicates that the time of tide in that zone is earlier than (before) the predicted tides at the reference station, whereas, a positive (+) time correction indicates that the time of tide in that zone is later than (after) the predicted tides at the reference station. For height corrections, the water level heights relative to MLLW at the reference station are multiplied by the range ratio to estimate the water level heights relative to MLLW in the applicable zone.

Water level gauges for this project have been installed by CO-OPS prior to the start of the survey. Upon completion of project OPR-K354-NRT1-2006, submit a Pydro generated request for smooth tides, with times of hydrography abstract and mid/mif tracklines attached. Forward this request to [smooth.tides@noaa.gov](mailto:smooth.tides@noaa.gov).

CO-OPS will review the times of hydrography, final tracklines, and six-minute water level data from all applicable water level gauges. After review, CO-OPS will send a notice indicating that the tidal zoning scheme sent with the project instructions has been approved for final zoning. If there are any discrepancies, CO-OPS will make the appropriate adjustments and forward a revised tidal zoning scheme to the field group and processing branch for final processing.

**5.9.1. Zoning Diagram(s)** A zoning diagram, created in MapInfo, is to assist with the zoning provided in Section 5.9.

**5.9.2. Tidebot:**

Refer to Standing Instructions.

**5.10. Tidal Records:**

Refer to Standing Instructions on what data records, reports and requests to submit to CO-OPS and the address where these documents should be submitted too.

Final vertical correction processing was completed by the office processor for H11635 using final approved zoning and water level data provided by N/OPSI CO-OPS. Due to the field collecting data in LST rather than UTC, all tides information was downloaded in LST.

Due to instability issues at the Tesoro Marine Terminal, LA (876-4044), final zoning was based on the gauges at Stouts Pass (876-4025) and Amerada Pass (876-4227). See Appendix IV - Tides and Water Levels for the final approved tide note.