

Tide Requirements for OPR-K354-TC-2005
Louisiana Coast, LA
CFL 11/17/2004

5.0. TIDES

5.1. Purpose: All tide requirements in these instructions are in direct support of hydrographic survey operations.

5.2 through 5.6. Refer to Standing Instructions.

5.7. Vertical Datums:

Refer to Standing Instructions.

5.7.1. The operating National Water Level Observation Network (NWLON) station at Galveston Pleasure Pier, TX (877-1510), and previously installed tertiary water level station at Eugene Island, LA (876-4311) will serve as datum control for this survey. Therefore, it is critical that these stations remain in operation during all periods of hydrography.

5.7.1.1. Water level data acquisition monitoring

Refer to Standing Instructions.

5.7.1.2. Water level station operation and maintenance

Refer to Standing Instructions.

5.7.1.3. No leveling is required at Galveston Pleasure Pier, TX (877-1510) or Eugene Island, LA (876-4311) by NOAA Time Charter personnel.

5.8. Water Level Station Requirements: The operating water level station at Eugene Island, LA (876-4311) will also provide water level reducers for this project, reiterating the importance of its operation during all periods of hydrography. See Sections 5.7.1.1. and 5.7.1.2. concerning responsibilities.

5.8.1. There are no subordinate water level stations required for this project.

5.9. Zoning: For hydrography in the area of Louisiana Coast, LA, Eugene Island, LA (876-4311), is the reference station for predicted tides. Predictions may be retrieved in one month increments over the Internet from the CO-OPS Home Page at <http://www.co-ops.nos.noaa.gov/> and then clicking on "Predictions." 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 Eugene Island, LA (876-4311) during the acquisition and preliminary processing phases of this project for correcting

all sounding data.

Zone Name	Time Corrector(mins)	Range Ratio	Predicted Reference
WGM95	+36	x0.79	876-4311
WGM263	+48	x0.76	876-4311
WGM264	+54	x0.76	876-4311
WGM265	+60	x0.76	876-4311
WGM266	+66	x0.76	876-4311
WGM276	+60	x0.84	876-4311
WGM277	+54	x0.84	876-4311
WGM278	+48	x0.86	876-4311
WGM279	+42	x0.86	876-4311
WGM280	+36	x0.86	876-4311
WGM281	+24	x0.89	876-4311
WGM282	+18	x0.91	876-4311
WGM283	+6	x0.94	876-4311
WGM284	0	x0.99	876-4311
WGM289	+42	x0.79	876-4311
WGM367	+12	x0.94	876-4311
WGM368	+18	x0.91	876-4311
WGM369	+30	x0.84	876-4311
CGM216	+66	x0.66	876-4311
CGM253	+60	x0.69	876-4311

NOTE: The tide corrector values referenced to Eugene Island, LA (876-4311) are provided in the zoning file “K354TC2005CORP” 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.

5.9.1. A zoning diagram, created in MapInfo, is provided in both digital and hard copy format to assist with the zoning provided in Section 5.9.

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.