

## Tide Correctors

As specified in the SOW, predicted tides from Galveston Pleasure Pier 8771510 were used as preliminary tide values. Sheet O fell within three of the final tidal zones found on the Final Zoning Map dated August 4, 1998. FGSi proposed to NOAA that Zone G323, a small segment located in the southwest corner of the survey area, be incorporated into the larger Zone 322. A comparison between the zones showed that zone G323 tidal values had a difference range of only 0 to 7 centimeters from zones G322.

FGSi also proposed using the Galveston Pleasure Pier tide gauge for final tide applications. As specified in a memorandum from Cary Wong, final verified tides from the Galveston Pleasure Pier (8771510) located at 29°17.1'N, 94°47.3'W were utilized for Sheet O. Acceptance of this proposal was obtained on August 18, 1999 (see Appendix F). As a result, only zones G321 and G322 were used to tide correct the multibeam data for Sheet O.

As a result of this acceptance, Sheet O fell within two tidal zones: G321 and 322, as outlined above. The correctors used are located in the table below.

Station Number	Tidal Zone	High Water Correction	Low Water Correction	Average Time Correction	Range Correction
8771510	G321	0 mins.	-18 mins.	-12 mins.	x1.08
8771510	G322	+6 mins.	-18 mins.	-6 mins.	x0.99

The verified six-minute tide data from the Galveston Pleasure Pier tide gauge were downloaded from the NOAA Oceanographic Products and Services Division (OPSD) web page (<http://www.co-ops.nos.noaa.gov>). The tide information was applied to the data using the IP400 data processing software.