

The tidal datum for this project was Mean Lower Low Water. The operating tide station at Breakwater Harbor (Lewes), Delaware (855-7380) served as direct control for datum determination. Mr. Larry Nieson, Atlantic Operations Group, N/OES213, confirmed the proper operation of the tide station during the survey. This station also served as the reference station for predicted tides. Time and height correctors for the project were as follows:

* DATA FILED WITH FIELD RECORDS.

	<u>Time Correction</u>	<u>Height Ratio</u>
High Water:	-1 hr 00 min	x0.94
Low Water:	-1 hr 00 min	x0.94

Tidal data used during data acquisition were taken from table 2 of the East Coast of North and South America Tide Tables and were applied on-line to the digital data using HDAPS software. The tidal data, in digital form, were received on floppy disk from N/CG24, Hydrographic Surveys Branch. Request for smooth tides was submitted to Product and Services Branch, Datum Section, N/OES231 on August 20, 1993.

Opening and closing levels were conducted at the Breakwater Harbor tide station on March 8, 1993 and August 17, 1993, respectively. The levels confirmed that the tide staff and marks were undisturbed. The final Tide Note for this survey is on file at AHS. DATA FILLED WITH FIELD RECORDS.

All sounding corrections, except heave, were applied on-line to both the narrow (100 kHz) and wide (24 kHz) DSF-6000N beams. Heave corrections were applied to WHITING data in post-processing.

New leadlines were made on April 10, 1993 and calibrations performed on April 26, 1993 confirmed the leadline error was negligible. A leadline comparison with the DSF-6000N was performed on April 23, 1993 (DOY 113). The difference between the leadline and the high frequency reading was -0.07 meter and the difference between the leadline and the low frequency reading was -0.18 meter. These differences may be attributable to the soft mud bottom at the comparison site. No correction for this difference was applied to the survey data.