

The tidal datum for this project is Mean Lower Low Water. The operating tide station at Fort Pulaski, Georgia (867-0870) served as the reference station for predicted tides. The Survey area is covered by nine tide correction zones, tidal corrections were applied in accordance with the project instructions sections 5.8.2 and 5.8.3.

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 to the digital data during acquisition by HDAPS. Digital tidal data were received on floppy disk from N/CG24, Hydrographic Surveys Branch.

WHITING installed and leveled four ADR tide gauges for datum control on H-10581. The following table lists the station names, numbers and locations:

<u>Station Number</u>	<u>Station Name</u>	<u>Latitude</u>	<u>Longitude</u>
867-1314	Half Moon Fishing Reef Wassaw Sound, Georgia	31°57.8'N	080°56.6W

<u>Station Number</u>	<u>Station Name</u>	<u>Latitude</u>	<u>Longitude</u>
867-1315	Priest Landing Wilmington River, Georgia	31°57.8'N	081°00.7'W
867-1086	Skidaway Institute Skidaway River, Georgia	31°59.4'N	081°01.4'W
867-0893	Palmer Johnson Shipyard Wilmington River, Georgia	32°01.6'N	081°02.8'W

WHITING received permission from Mr. Mike Gibson, N/OES21 on October 14, 1994 to install only a staff for datum control at Turner Creek, instead of an ADR gauge and staff. WHITING personnel made observations of the staff for two highs and lows during survey operations in Turner Creek. WHITING also ran levels to an existing historical benchmark before and after data acquisition in Turner Creek.

During a severe storm on October 12, 1994, the tide gauge well at Priest Landing separated at a PVC joint. It was removed by WHITING personnel at that time. The gauge was reinstalled on October 13, 1994. WHITING contacted LT John Humphrey, NCG24 concerning this incident. In accordance with his instructions, WHITING recorded staff and gauge readings every 18 minutes for two hours to check the comparison. All comparisons were within 0.03 feet. WHITING also ran levels to two benchmarks to confirm the staff had not moved. These levels closed to within 0.03 feet.

The tide notes for each station are on file at AHS.* The request for smooth tides was submitted to the Product and Services Branch, N/OES231, Datums Section, on November 21, 1994.

DATA SUBMITTED WITH THIS REPORT. APPROVED TIDES AND ZONING WERE APPLIED DURING OFFICE PROCESSING.