



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Ocean and Earth Sciences
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: October 25, 1995

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: OPR-G398-WH

HYDROGRAPHIC SHEET: H-10597

LOCALITY: East of Tybee Island, Georgia and the Savannah River
Entrance

TIME PERIOD: April 24 - June 28, 1995

TIDE STATION USED: 867-1029 Tybee Marina, Ga.
Lat. 31° 59.8'N Lon. 80° 51.3'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): -0.05 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 6.8 ft.

REMARKS: RECOMMENDED ZONING

Apply a -10 minute correction to times and a x0.97 range ratio to heights using Tybee Marina, Ga. (867-1029).

Notes: 1. Times are tabulated in Greenwich Mean Time.
2. Data for Tybee Marina, Ga. (867-1029) are temporarily stored on file #667-1029.

Caution: Tybee Marina, Ga. (867-1029) data are considered preliminary until vertical stability is verified with closing levels by the NOAA ship Whiting.

William M. Hobson

CHIEF, DATUMS SECTION



TIDE STATION NOTE

TYBEE MARINA #867-1029

The tide station at Tybee Marina was set up on March 29, 1995 and continues to be operational. Five bench marks were tied and leveled forward and backward. Opening levels were run on March 30, 1995. A confidence check tying three bench marks was run on June 6, 1995, and confirmed that the staff was not disturbed.

The station referenced with the tide station at Fort Pulaski will serve as control for datum determination for hydrography in Sheet C (H-10597). The station is located at $31^{\circ} 59.8' N$, $080^{\circ} 51.3' W$.

The tide station was installed at the western end of the deck at Tybee Marina. The station consists of: 1) a Fisher & Porter ADR set on top of a 6" PVC floatwell clamped to the southwestern most pile, 2) a tide staff of vitrified metal strips graduated in feet secured to a 2"x4"x12' backing board installed on a pile supporting the floating pier (Note: the staff was mounted in such a way that the motion of the floating pier should not effect the staff.), and 3) a Next Generation Sutron 8200 tide gauge. This gauge consists of a water level sensor on top of a 20' long 4" PVC protective well and connected to the 8200 DCP. The 8200 is mounted inside the protective cabinet located at the southwest end of the Tybee Marina pier. A GOES antenna and solar panel are mounted to a 4' steel mast and connected to the 8200 DCP using standard connections and cables.

An opening tide station package was submitted for this station on May 1, 1995.