



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: March 19, 1996

HYDROGRAPHIC SECTION: Atlantic

HYDROGRAPHIC PROJECT: OPR-K353-HE

HYDROGRAPHIC SHEET: FE-418

LOCALITY: Texas, Gulf of Mexico, Heald Bank

TIME PERIOD: June 23 - August 22, 1995

TIDE STATION USED: 877-1510 Galveston Pleasure Pier, Tx.
Lat. $29^{\circ} 17.1'N$ Lon. $94^{\circ} 47.3'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 2.71 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.9 ft.

REMARKS: RECOMMENDED ZONING

Times and heights are direct on Galveston Pleasure Pier, Tx.
(877-1510).

Note: Relative sea level trends show that the Galveston Bay, Texas area is undergoing substantial land subsidence. The relative sea level trend observed at Galveston, Pier 21 for the time period 1950 through 1993 is +0.025 ft./yr. with a standard error of 0.002 ft./yr. As a result of high rate of sea level change, the 1960 to 78 Tidal Epoch value of Mean Lower Low Water (MLLW) used as chart datum and reference datum for NOS tidal predictions does not reflect present conditions. The data are under review to determine an updated value of MLLW. Even though the 1960-78 Epoch value of MLLW is not the most current, the error is in the direction that is safe for navigation purposes.



page 2 of 2 for FE-418

- Notes:
1. Times are tabulated in Greenwich Mean Time.
 2. Data for Galveston Pleasure Pier, Tx. (877-1510) are temporarily stored in file #677-1510.



CHIEF, DATUMS SECTION