



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: January 31, 1996

MARINE CENTER: Atlantic

HYDROGRAPHIC PROJECT: OPR-K204EXT-AHP2

HYDROGRAPHIC SHEET: H-10619

LOCALITY: San Jacinto River, Texas, Lynchburg Landing to Muleshoe
Lake

TIME PERIOD: June 13 - September 13, 1995

TIDE STATION USED: 877-0501 Annie's Landing, Tx.
Lat. 29° 49.8'N Lon. 95° 04.7'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 3.64 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.5 ft.

TIDE STATION USED: 877-0653 Cypress, Tx.
Lat. 29° 50.8'N Lon. 94° 05.3'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): -0.39 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.5 ft.

TIDE STATION USED: 877-0733 Lynchburg Landing, Tx.
Lat. 29° 45.9'N Lon. 95° 04.7'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 4.03 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.3 ft.

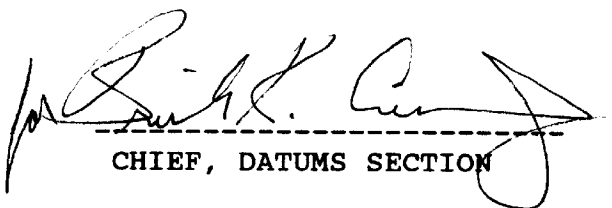


REMARKS: RECOMMENDED ZONING

1. North of 29° 49.5'N times and heights are direct on Cypress, Tx. (877-0653).
2. North of the Interstate route 10 bridge, and south of 29° 49.5'N, times and heights are direct on Annie's Landing, Tx. (877-0501).
3. South of the Interstate route 10 bridge, times and heights are direct using Lynchburg Landing, Tx. (877-0733). Where data are not available for Lynchburg Landing, Tx., apply a -25 minute time correction, and a X0.94 range ratio to heights using Annie's Landing, Tx. (877-0501).

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 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 change is in the direction that is safe for navigation purposes.

- Notes:**
1. Times are tabulated in Greenwich Mean Time.
 2. The data for Lynchburg Landing, Tx. (877-0733) are stored in Next Generation Water Level Measurement System temporary files #677-0733.



CHIEF, DATUMS SECTION