

UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NATIONAL OCEAN SERVICE
Office of Ocean and Earth Sciences
Rockville, Maryland 20852

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: July 26, 1996

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: OPR-K204EXT-AHP

HYDROGRAPHIC SHEET: H-10663

LOCALITY: Galveston Bay, Texas, Spilmans Island to Lynchburg

Landing

TIME PERIOD: January 23 - March 11, 1996

TIDE STATION USED: 877-0613 Morgan Point, Tx.

Lat. 29° 40.9′N Lon. 94° 59.1′W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 4.71 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.2 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.



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REMARKS: RECOMMENDED ZONING

Galveston Bay Zone GB146 - bounded by the MapInfo polygon points:

-95.005764	29.66289_	29"	39	46~	95°	34	35	~	
-95.033819	29.688195	29	41	18	95		17"		
-94.980989	29.739753	29	44	23	94	58	52	2	
-94.900324	29.71379		42	50	94	54			
-94.918321	29.666686		D. BELLEVILLE	07	94	56	00	3	-
-94.982082		*	40		94				
-95.005764	29.66289				, , , , , , , , , , , , , , , , , ,	424			

Times and heights are direct using Morgan Point, Tx. (877-0613).

Galveston Bay Zone GB147 - bounded by the MapInfo polygon points:

Apply a +6 minute high water, a +12 minute low water, (average +6 minute time correction), and a X1.05 range ratio to heights using Morgan Point, Tx. (877-0613).

Galveston Bay Zone GB148 - bounded by the MapInfo polygon points:

Times and heights are direct using Lynchburg Landing, Tx. (877-0733).

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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.

Note: Times are tabulated in Greenwich Mean Time.

Note: Tidal phase progressions are inconsistent in this tidal regime. The best available time corrections are provided for both high and low water times. An average of the high and low water time corrections are provided for each zone for survey applications.

CHIEF, DATUMS SECTION