



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 28, 1997

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: OPR-K204-AHP

HYDROGRAPHIC SHEET: H-10666

(replaces incorrect Tide Note # H-10688 of October 29, 1996
and revises zoning for #H-10666 of November 4, 1996)

LOCALITY: Galveston Bay, Texas, Ash Lake to Spilmans Island

TIME PERIOD: February 8 - 15, 1996

TIDE STATION USED: 877-0613 Morgans Point, Tx.
Lat. $29^{\circ} 40.9'N$ Lon. $94^{\circ} 59.1'W$

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

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.2 ft.

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: GB128, GB127 and GB120.
Refer to attachments for zoning information.

Note: Zoning for this area has been revised and renumbered.
Discard previously provided zone numbers when reprocessing
this H-sheet.

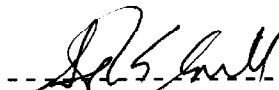
Note: The original time series data set provided with the tide
note dated 10/29/96 was relative to station datum. The
MLLW value provided then and above (4.71 ft.) applies to
the original data set. Due to system changes, the data set
provided for subsequent sheets is relative to MLLW and is
stated as MLLW = 0.00 ft. On applicable tide notes. If the
new data series is used to reprocess this sheet, then use
MLLW = 0.00 ft.

Note: Provided time series data are tabulated in English units
(feet) and on 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.

Note: Relative sea level trends show that the Galveston Bay, Texas area is undergoing substantial land subsidence. The relative sea level trend observed at the site for the control station, 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 1978 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.



CHIEF, TIDAL ANALYSIS BRANCH

Final tide zone correctors and node point locations for OPR
K204-AHP. Sheet H-10666.

Format: Longitude in decimal degrees (negative value denotes
Longitude West),
Latitude in decimal degrees
Tide Station (in recommended order of use)
Average Time Correction (in minutes)
Range Correction

	Tide Station Order	AVG Time Correction	Range Correction
Zone GB120			
-94.987435 29.60139	877-0613	-12	0.97
-95.02613 29.606029	877-1013	42	1.15
-95.030133 29.620524			
-95.005764 29.66289			
-94.982082 29.677124			
-94.918321 29.666686			
-94.902708 29.656925			
-94.946074 29.631713			
-94.955797 29.629003			
-94.987435 29.60139			
Zone GB127			
-95.005764 29.66289	877-0613	0	1.00
-95.033819 29.688195	877-1013	54	1.19
-95.012401 29.708916			
-94.998965 29.714083			
-94.992438 29.734754			
-94.980989 29.739753			
-94.944645 29.728253			
-94.935471 29.725308			
-94.900324 29.71379			
-94.918321 29.666686			
-94.982082 29.677124			
-95.005764 29.66289			
Zone GB128			
-95.077176 29.732162	877-0613	6	1.05
-95.06078 29.707173			
-95.033819 29.688195			
-95.012401 29.708916			
-94.998965 29.714083			
-94.992438 29.734754			
-94.980989 29.739753			
-95.035528 29.75693			
-95.077176 29.732162			