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-10586

LOCALITY: Galveston Bay, Texas, Bacliff to Red Bluff

TIME PERIOD: December 14, 1994 - April 12, 1995
December 4, 1995 - June 5, 1996

TIDE STATION USED: 877-0613 Morgans Point, Tx.
Lat. 29° 40.9'N Lon. 94° 59.1'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.00 feet
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.2 feet

TIDE STATION USED: 877-1013 Eagle Point, Tx.
Lat. 29° 28.8'N Lon. 94° 55.1'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.00 feet
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.1 feet

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: GB84, GB106, GB109, GB112 & GB120

Refer to attachment(s) for zoning information.

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.

D K Gault

CHIEF, TIDAL ANALYSIS BRANCH

Final tide zone correctors and node point locations for OPR K204-AHP. Sheet H-10586.

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 GB84			
-94.912115 29.49494	877-1013	0	1.00
-94.933667 29.499074			
-94.894222 29.520928			
-94.853754 29.532773			
-94.810436 29.535296			
-94.777866 29.52909			
-94.779108 29.513058			
-94.823084 29.511613			
-94.861474 29.502241			
-94.893579 29.488103			
-94.925424 29.47237			
-94.912115 29.49494			
Zone GB106			
-94.965002 29.506346	877-1013	12	1.04
-94.907294 29.542906	877-0613	-48	0.88
-94.874446 29.56085			
-94.841137 29.576204			
-94.810436 29.535296			
-94.853754 29.532773			
-94.894222 29.520928			
-94.933667 29.499074			
-94.954845 29.504573			
-94.965002 29.506346			
Zone GB109			
-94.965002 29.506346	877-1013	24	1.08
-95.000717 29.514514	877-0613	-36	0.91
-95.011273 29.525865			
-94.97929 29.552671			
-94.931651 29.581928			
-94.869904 29.615248			
-94.841137 29.576204			
-94.874446 29.56085			
-94.907294 29.542906			
-94.965002 29.506346			
Zone GB112			
-94.97929 29.552671	877-1013	30	1.12

-95.011273 29.525865	877-0613	-24	0.94
-95.017311 29.546834			
-95.016733 29.557514			
-95.013385 29.568704			
-94.999816 29.590316			
-94.987435 29.60139			
-94.955797 29.629003			
-94.946074 29.631713			
-94.902708 29.656925			
-94.869904 29.615248			
-94.931651 29.581928			
-94.97929 29.552671			
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			