



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-10588

**LOCALITY:** Galveston Bay, Texas, Red Fish Bar to Eagle Point

**TIME PERIOD:** January 26 - May 9, 1995  
October 18, 1995 - January 5, 1996; May 2 - 6, 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: GB69, GB73, GB84, GB106, GB109,  
GB110 & GB112

Refer to attachment(s) for zoning information.

**Note:** Provided time series data are provided 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.

  
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CHIEF, TIDAL ANALYSIS BRANCH

Final tide zone correctors and node point locations for OPR  
K204-AHP. Sheet H-10588

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 GB69			
-94.914355 29.444055	877-1013	-36	1.08
-94.88407 29.468622			
-94.852125 29.48524			
-94.814372 29.493911			
-94.780353 29.494994			
-94.781183 29.477292			
-94.819351 29.475125			
-94.848577 29.467148			
-94.874528 29.452365			
-94.894856 29.435024			
-94.914355 29.444055			
Zone GB73			
-94.92651 29.456163	877-1013	-18	1.05
-94.925424 29.47237			
-94.893579 29.488103			
-94.861474 29.502241			
-94.823084 29.511613			
-94.779108 29.513058			
-94.780353 29.494994			
-94.814372 29.493911			
-94.852125 29.48524			
-94.88407 29.468622			
-94.914355 29.444055			
-94.920935 29.447138			
-94.92651 29.456163			
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 GB110

-94.869904	29.615248	877-1013	18	1.16
-94.803295	29.649906			
-94.769487	29.663506			
-94.732652	29.671841			
-94.688248	29.671402			
-94.687219	29.661112			
-94.695224	29.655314			
-94.695891	29.649516			
-94.691247	29.625339			
-94.708936	29.606036			
-94.733157	29.608668			
-94.761091	29.606868			
-94.785622	29.599894			
-94.811361	29.589804			
-94.841137	29.576204			
-94.869904	29.615248			

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