



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: August 14, 1996

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: OPR-K204-AHP

HYDROGRAPHIC SHEET: H-10638

LOCALITY: Galveston Bay, Virginia Point to Texas City, Texas

TIME PERIOD: September 26 - October 17, 1995

TIDE STATION USED: 877-1328 Port Bolivar, Tx.
Lat. 29° 21.9'N Lon. 94° 46.8'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 3.37 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.4 ft.

TIDE STATION USED: 877-1450 Galveston Pier 21, Tx.
Lat. 29° 18.6'N Lon. 94° 47.6'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 3.74 ft.

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

TIDE STATION USED: 877-1481 Tiki Island, Tx.
Lat. 29° 18.0'N Lon. 94° 54.3'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 1.71 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.1 ft.

TIDE STATION USED: 877-1516 Offatts Bayou, Tx.
Lat. 29° 17.1'N Lon. 94° 51.4'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 2.10 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.1 ft.

REMARKS: RECOMMENDED ZONING

Galveston Bay Zone GB9 - bounded by the MapInfo polygon points:

-94.825688 29.298403
-94.844462 29.295242
-94.851858 29.314145
-94.837558 29.331329
-94.820793 29.334336
-94.820301 29.315622
-94.826444 29.303934
-94.825688 29.298403

Apply a +18 minute high water, a +18 minute low water,
(average +18 minute time correction), and a X0.95 range ratio to
heights using Galveston Pier 21, Tx. (877-1450).

Galveston Bay Zone GB10 - bounded by the MapInfo polygon points:

-94.860241 29.291376
-94.874541 29.327033
-94.876514 29.348942
-94.868131 29.370852
-94.859824 29.382127
-94.841959 29.376332
-94.821278 29.368403
-94.824738 29.352379
-94.817341 29.343787
-94.820793 29.334336
-94.837558 29.331329
-94.851858 29.314145
-94.844462 29.295242
-94.860241 29.291376

Apply a +36 minute high water, a +36 minute low water,
(average +36 minute time correction), and a X0.90 range ratio to
heights using Galveston Pier 21, Tx. (877-1450).

Galveston Bay Zone GB11 - bounded by the MapInfo polygon points:

-94.860241 29.291376
-94.877993 29.280636
-94.901662 29.305123
-94.923607 29.361286
-94.887112 29.387509
-94.887295 29.391006
-94.879185 29.388585
-94.859824 29.382127
-94.868131 29.370852
-94.876514 29.348942
-94.874541 29.327033
-94.860241 29.291376

Apply a +54 minute high water, a +54 minute low water, (average +54 minute time correction), and a X0.85 range ratio to heights using Galveston Pier 21, Tx. (877-1450).

Galveston Bay Zone GB12 - bounded by the MapInfo polygon points:

-94.901662 29.305123
-94.913653 29.292746
-94.889378 29.269298
-94.881938 29.270325
-94.877993 29.280636
-94.901662 29.305123

Times and heights are direct using Tiki Island, Tx. (877-1481).

Galveston Bay Zone GB13 - bounded by the MapInfo polygon points:

-94.877993 29.280636
-94.860241 29.291376
-94.82671 29.288798
-94.828189 29.277199
-94.881938 29.270325
-94.877993 29.280636

Times and heights are direct using Offatts Bayou, Tx. (877-1516).

Galveston Bay Zone GB14 - bounded by the MapInfo polygon points:

-94.898293 29.260366
-94.94227 29.288276
-94.913653 29.292746
-94.889378 29.269298
-94.898293 29.260366

High water times are direct, apply a +12 minute correction to low waters, (average +6 minute time correction), and a X0.96 range ratio to heights using Tiki Island, Tx. (877-1481).

Galveston Bay Zone GB15 - bounded by the MapInfo polygon points:

-94.969606 29.283806
-94.941932 29.313899
-94.936256 29.314827
-94.907162 29.310805
-94.901662 29.305123
-94.913653 29.292746
-94.94227 29.288276
-94.960637 29.285296
-94.969606 29.283806

High water times are direct, apply a +30 minute correction to low waters, (**average +12 minute time correction**), and a X0.96 range ratio to heights using Tiki Island, Tx. (877-1481).

Galveston Bay Zone GB31 - bounded by the MapInfo polygon points:

-94.821278 29.368403
-94.841959 29.376332
-94.832626 29.38842
-94.817348 29.398358
-94.801511 29.404677
-94.786576 29.404677
-94.787821 29.387336
-94.802756 29.384807
-94.814372 29.377943
-94.821278 29.368403

Apply a +18 minute high water, a +48 minute low water, (**average +36 minute time correction**), and a X0.96 range ratio to heights using Port Bolivar, Tx. (877-1328).
When data are not available for Port Bolivar, apply a +30 minute high water, a +48 minute low water, (**average +36 minute time correction**), and a X0.96 range ratio to heights using Galveston Pier 21, TX. (877-1450).

Galveston Bay Zone GB33 - bounded by the MapInfo polygon points:

-94.841959 29.376332
-94.859824 29.382127
-94.84994 29.397048
-94.827727 29.414026
-94.804 29.422379
-94.784917 29.42274
-94.786576 29.404677
-94.801511 29.404677
-94.817348 29.398358
-94.832626 29.38842
-94.841959 29.376332

Apply a +30 minute high water, a +66 minute low water, (average +48 minute time correction), and a X0.94 range ratio to heights using Port Bolivar, Tx. (877-1328).
When data are not available for Port Bolivar, apply a +42 minute high water, a +66 minute low water, (average +54 minute time correction), and a X0.94 range ratio to heights using Galveston Pier 21, TX. (877-1450).

Galveston Bay Zone GB35 - bounded by the MapInfo polygon points:

-94.859824 29.382127
-94.879185 29.388585
-94.865122 29.410208
-94.848391 29.425269
-94.824744 29.435746
-94.80556 29.441201
-94.784087 29.441526
-94.784917 29.42274
-94.804 29.422379
-94.827727 29.414026
-94.84994 29.397048
-94.859824 29.382127

Apply a +36 minute high water, a +84 minute low water, (average +60 minute time correction), and a X0.92 range ratio to heights using Port Bolivar, Tx. (877-1328).
When data are not available for Port Bolivar, apply a +48 minute high water, a +84 minute low water, (average +66 minute time correction), and a X0.92 range ratio to heights using Galveston Pier 21, TX. (877-1450).