



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
National Ocean Service  
Silver Spring, Maryland 20910

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE :** February 12, 2018

**HYDROGRAPHIC BRANCH:** Pacific  
**HYDROGRAPHIC PROJECT:** OPR-K414-NRT4-17  
**HYDROGRAPHIC SHEET:** H12392

**LOCALITY:** Houston Shipping Channel, Galveston Bay, TX

**TIME PERIOD:** August 11, 2017 - January 31, 2018

**TIDE STATION USED:** 8770613 Morgans Point, TX  
Lat. 29° 40.9' N Long. 94° 59.1' W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 0.377 meters

**TIDE STATION USED:** 8771013 Eagle Point, TX  
Lat. 29° 28.8' N Long. 94° 55.1' W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 0.325 meters

**TIDE STATION USED:** 8771341 Galveston Bay Entrance, TX  
Lat. 29° 21.4' N Long. 94° 43.5' W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 0.473 meters

**TIDE STATION USED:** 8771450 Galveston Pier 21, TX  
Lat. 29° 18.6' N Long. 94° 47.6' W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 0.403 meters

**REMARKS: RECOMMENDED Grid**

Please use the TCARI grid "K414NRT42017.tc" as the final grid for project OPR-K414-NRT4-17, H12392, during the time period between August 11, 2017 to January 31, 2018.

**Refer to attachments for grid information.**

**Note 1:** Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time on the 1983-2001 National Tidal Datum Epoch (NTDE).

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CHIEF, PRODUCTS AND SERVICES BRANCH

