



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Silver Spring, Maryland 20910

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE:** November 19, 2001

**HYDROGRAPHIC BRANCH:** Atlantic  
**HYDROGRAPHIC PROJECT:** OPR-I305-WH-2001  
**HYDROGRAPHIC SHEET:** H11034

**LOCALITY:** Approaches to Las Mareas, Puerto Rico  
**TIME PERIOD:** May 16 - June 4, 2001

**TIDE STATION USED:** 975-5679 Las Mareas, PR  
Lat. 17° 55.7'N Lon. 66° 9.5'W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 0.208 meters

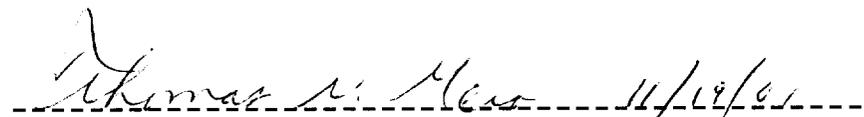
**TIDE STATION USED:** 975-8053 Punta Guayanilla, PR  
Lat. 17° 58.6'N Lon. 66° 45.7'W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 0.212 meters

**REMARKS: RECOMMENDED ZONING**  
Use zone(s) identified as: PRS2.

Refer to attachments for zoning information.

**Note 1:** Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time.

**Note 2:** Use tide data from the appropriate station with applicable zoning correctors for each zone according to the order in which they are listed in the Tidezone corrector files. For example, tide station one (TS1) would be the first choice for an applicable zone followed by TS2, etc. when data are not available.

  
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**CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION**



## C. VERTICAL AND HORIZONTAL CONTROL *See also the Evaluation Report*

### VERTICAL CONTROL

The tidal datum for this project is Mean Lower Low Water (MLLW). The operating tide station at Magueyes, PR (975-9110) served as control for datum determination. Tertiary, 30-day gauges at Las Mareas (975-5679) provided ancillary tide data.

Tidal zoning for this survey is consistent with the Letter Instructions. The zone used for this survey is as follows:

STATION	CORRECTOR (min)	RATIO	REFERENCE
PRS2	+12	x1.00	975-9110
PRS3	+6	x1.07	975-9110

A Request for Approved Tides letter was sent to N/OPS1 on July 23, 2001 (Appendix IV)\*.