



TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: February 12, 2003

HYDROGRAPHIC BRANCH: Atlantic
HYDROGRAPHIC PROJECT: OPR-F336-KR-2001
HYDROGRAPHIC SHEET: H11032
LOCALITY: Pamlico Sound, NC
TIME PERIOD: June 18 - October 1, 2002

*****Datum References are based on the 1983 - 2001 Tidal Epoch,
please see notes 2 and 3 for details.*****

TIDE STATION USED: 865-2247 Manns Harbor, NC
Lat. 35° 54.2'N Lon. 075° 46.2'W
PLANE OF REFERENCE (LOW WATER DATUM): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.202 meters

TIDE STATION USED: 865-2905 Lake Worth, Stumpy Point, NC
Lat. 35° 41.9'N Lon. 075° 46.4'W
PLANE OF REFERENCE (LOW WATER DATUM): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.298 meters

TIDE STATION USED: 865-2648 Old House Channel, NC
Lat. 35° 46.6'N Lon. 075° 35.1 W
PLANE OF REFERENCE (LOW WATER DATUM): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.247 meters

TIDE STATION USED: 865-2547 Roanoke Marsh, NC
Lat. 35° 48.7'N Lon. 075° 42.0 W
PLANE OF REFERENCE (LOW WATER DATUM): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.214 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: PAM503, PAM610, PAM611 & PAM612.

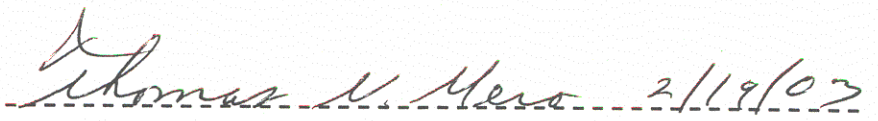
Refer to attachments for zoning information.

TIDE NOTE FOR HYDROGRAPHIC SURVEY Sheet H11032 cont.

Note 1: Survey OPR-F336-KR-01, Sheet H11032 falls within an area in Pamlico Sound where the mean tide range is less than one foot. In this area of Pamlico Sound, the plane of reference for depth measurements is Low Water Datum (LWD). LWD is determined by subtracting one half foot (0.152 m) from Mean Sea Level (MSL). MSL is determined from the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch (NTDE). The new 1983-2001 NTDE will be used for this project.

Note 2: Before the end of March 2003, retrieve verified six minute water level data on MSL datum for all applicable stations from the CO-OPS Home Page at <http://www.co-ops.nos.noaa.gov/>. A corrector of 0.074 meters must be added to all verified water level time series data for all stations to place the data on LWD. This corrector includes the adjustment from the 1960-1978 Epoch to the new 1983-2001 Epoch, as well as the one half foot (0.152 m) below MSL adjustment to place the data on LWD.

Note 3: Water level time series data retrieved from the CO-OPS Home Page after March 2003 will automatically be adjusted to the 1983-2001 Epoch. This change will be clearly noted on the CO-OPS Home Page. However, please call CO-OPS to confirm that the new Epoch is officially in use. Therefore, after the Epoch change after March 2003, add one half foot (0.152 m) to all water level data retrieved on MSL datum to establish the verified water level data on LWD.



CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION