



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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: August 19, 1999

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: OPR-E350-RU-99

HYDROGRAPHIC SHEET: F-00450

LOCALITY: Vicinity of Tail of the Horseshoe, Southern Chesapeake
Bay, VA

TIME PERIOD: March 03 - March 31, 1999

TIDE STATION USED: 863-8863 Chesapeake Bay Bridge Tunnel
Lat. 36° 58.0'N Lon. 76° 06.8'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters


HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 0.829 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: SCB8, SCB9, SCB10, SCB12, SCB13, SCB14
& SCB17.

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.



CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION



Final tide zone node point locations for OPR-E350-RU-99,
Sheet F-00450.

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 SCB8			
-76.113244 36.912642	863-8863	-12	1.06
-76.095515 36.907555			
-76.089047 36.907765			
-76.060333 36.914695			
-76.064902 36.963231			
-76.055564 36.988553			
-76.065137 36.978093			
-76.113244 36.912642			
Zone SCB9			
-76.087381 37.026998	863-8863	-6	1.02
-76.105896 36.982638			
-76.112744 36.965329			
-76.129908 36.918213			
-76.113244 36.912642			
-76.065137 36.978093			
-76.055564 36.988553			
-76.025036 37.071459			
-76.084131 37.031167			
-76.087381 37.026998			
Zone SCB10			
-76.084131 37.031167	863-8863	+6	1.04
-76.025036 37.071459			
-76.014749 37.099271			
-75.987455 37.14165			
-76.031833 37.13234			
-76.053548 37.099149			
-76.084131 37.031167			

Zone SCB12

-76.153146 36.924084	863-8863	+6	0.98
-76.179535 36.929055			
-76.141671 37.045668			
-76.12566 37.07169			
-76.102378 37.097596			
-76.069394 37.119868			
-76.031833 37.13234			
-76.053548 37.099149			
-76.084131 37.031167			
-76.087381 37.026998			
-76.105896 36.982638			
-76.112744 36.965329			
-76.114062 36.962876			
-76.129908 36.918213			
-76.153146 36.924084			

Zone SCB13

-76.069394 37.119868	863-8863	+18	0.96
-76.102378 37.097596			
-76.12566 37.07169			
-76.141671 37.045668			
-76.179727 36.928659			
-76.196135 36.931626			
-76.212405 36.936331			
-76.203018 36.981059			
-76.179551 37.0568			
-76.162526 37.088531			
-76.132452 37.122976			
-76.091061 37.148606			
-76.051286 37.157664			
-76.011684 37.163381			
-76.031833 37.13234			
-76.069394 37.119868			

Zone SCB14

-75.996527 37.186299	863-8863	+24	0.94
-76.009476 37.204598			
-76.232754 37.099692			
-76.271244 37.086178			
-76.259439 36.958659			
-76.227084 36.940023			
-76.212405 36.936331			
-76.203018 36.981059			
-76.179551 37.0568			

-76.162526 37.088531
-76.132452 37.122976
-76.091061 37.148606
-76.051286 37.157664
-76.011684 37.163381
-75.996527 37.186299

Zone SCB17

-76.271244 37.086178	863-8863	+24	0.88
-76.251778 37.133335			
-76.230744 37.168937			
-76.21411 37.190384			
-76.185668 37.201933			
-76.13907 37.2104			
-76.081572 37.209461			
-76.009476 37.204598			
-76.232754 37.099692			
-76.271244 37.086178			