

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

TIDE NOTE FOR HYDROGRAPHIC SHEET

DATE: 12/13/85

Marine Center: Atlantic

OPR: D-219

Hydrographic Sheet: H-10167

Locality: North Delaware Bay

Time Period: November 8 - December 4, 1984

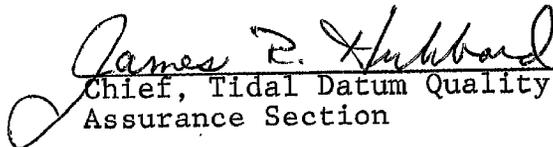
Tide Station Used: 853-6931 Fortescue Creek, NJ
853-7380 Lewes, DE

Plane of Reference (Mean Lower Low Water): 853-6931 = 3.51 ft.
853-7380 = 2.51 ft.

Height of Mean High Water Above Plane of Reference:
853-6931 = 5.8 ft.
853-7380 = 4.3 ft.

Remarks: Recommended Zoning:

See page 2


Chief, Tidal Datum Quality
Assurance Section

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

TIDE NOTE FOR HYDROGRAPHIC SHEET

DATE: 07/24/85

Marine Center: Atlantic

OPR: D219

Hydrographic Sheet: H-10167

Locality: North Delaware Bay

Time Period: October 18 - December 4, 1984

Tide Station Used: 853-6831 Oranoaken Creek, NJ
853-6931 Fortescue Creek, NJ
853-6999 Dividing Creek, NJ
853-5388 Murderkill River Entrance, DE

Plane of Reference (Mean Lower Low Water): 853-6831 = 0.46 ft.
853-6931 = 3.51 ft.
853-6999 = 2.69 ft.
853-5388 = 4.96 ft.

Height of Mean High Water Above Plane of Reference:
853-6831 = 5.6 ft.
853-6931 = 5.8 ft.
853-6999 = 4.7 ft.
853-5388 = 5.3 ft.

Remarks: Recommended Zoning:

See Page 2


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TIDE NOTE FOR HYDROGRAPHIC SHEET

H- 10167 OPR - D219

- I. In Delaware Bay
- a) South of latitude $39^{\circ}06.0'$, zone on 855-5388 and apply -20 minute time correction and xl.04 range ratio to all heights.
 - b) North of latitude $39^{\circ}06.0'$ to latitude $39^{\circ}10.8'$, zone on 855-5388 and apply xl.09 range ratio to all heights.
 - c) North of latitude $39^{\circ}10.8'$
 - 1. East of longitude $75^{\circ}08.3'$, zone on 855-5388 and apply xl.09 range ratio to all heights.
 - 2. West of longitude $75^{\circ}08.3'$, zone on 855-5388 and apply xl.11 range ratio to all heights.
- II. In Oranoaken Creek, zone direct on 853-6831.
- III. In Fortescue Creek, zone direct on 853-6931.
- IV. In Dividing Creek
- a) North of latitude $39^{\circ}12.5'$ to latitude $39^{\circ}13.4'$, zone on 853-6999 and apply -2 hr 15 min time correction and xl.92 range ratio to all heights.
 - b) North of latitude $39^{\circ}13.4'$ to latitude $39^{\circ}14.3'$, zone on 853-6999 and apply -1 hr 30 min time correction and xl.62 range ratio to all heights.
 - c) North of latitude $39^{\circ}14.3'$ to latitude $39^{\circ}15.2'$, zone on 853-6999 and apply -45 minute time correction and xl.31 range ratio to all heights.
 - d) North of latitude $39^{\circ}15.2'$, zone direct on 853-6999



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
OFFICE OF OCEANOGRAPHY AND MARINE ASSESSMENT
ROCKVILLE, MARYLAND 20852
December 23, 1985

TO: N/MOA232 - Rudy Sanocki
FROM: N/OMA123 - *James R. Hubbard*
SUBJECT: Additional Tides for OPR-D219, H-10167

We received a request for additional tides for OPR-D219, H-10167 on October 1, 1985 via a telephone conversation with Atlantic Marine Center. Upon evaluation of the observed tide data and based on other operating tide stations in Delaware Bay, we will be able to supply the following additional tides.

<u>STATION NUMBER</u>	<u>STATION NAME</u>	<u>DATE INSTALLED</u>	<u>DATE REMOVED</u>	<u>DATES NEEDED</u>
853-6831	^{n/a} Orackeen Creek, NJ	11/16/84	11/19/84	10/25/84

Additional tides not available

853-6931	Fortescue Creek, NJ	05/17/84	11/28/84	11/29,30/84
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Additional tides are supplied for both days.

853-6999	Dividing Creek, NJ	11/18/84	12/03/84	10/25/84 and 11/03,17/84
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Additional tides not available

855-5388	Murderkill River Entrance, DE	08/30/84	11/08/84	11/08/84, 12/04/84
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Additional tides not available

When Hydrography was run on H-Sheet H-10167 between 11/08/84-12/04/84, the only operating tide station in Delaware Bay was Lewes, DE (855-7380). Tide reducers are provided from Lewes, DE (855-7380). Due to differences in the tidal characteristics and meteorological effects, the tide reducers provided will not be as reliable as those coming from a tide station located in the survey area.

