



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Ocean and Earth Sciences
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: November 21, 1994

MARINE CENTER: Atlantic

HYDROGRAPHIC PROJECT: OPR-D368-WH

HYDROGRAPHIC SHEET: H-10234

LOCALITY: Delaware Bay, Delaware 2.5 NM Southwest of Brown Shoal

TIME PERIOD: September 11 - 12, 1994

TIDE STATION USED: 855-7380 Lewes (Ft. Miles), Breakwater Harbor,
Delaware
Lat. $38^{\circ} 46.9'N$ Lon. $75^{\circ} 07.2'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 2.51 ft.

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 4.3 ft.


REMARKS: RECOMMENDED ZONING

1. South of $38^{\circ} 54.0'N$, north of $38^{\circ} 50.0'N$ and east of $75^{\circ} 07.0'W$, times are direct, and apply a x1.05 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).
2. South of $38^{\circ} 54.0'N$, north of $38^{\circ} 50.0'N$ and west of $75^{\circ} 07.0'W$, apply a +10 minute time correction and a x1.05 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).
3. North of $38^{\circ} 54.0'N$, south of $38^{\circ} 56.0'N$ and east of $75^{\circ} 07.0'W$, times are direct, and apply a x1.10 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).
4. North of $38^{\circ} 54.0'N$, south of $38^{\circ} 56.0'N$ and west of $75^{\circ} 07.0'W$, apply a +20 minute time correction, and a x1.10 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).



5. North of $38^{\circ} 56.0'N$, south of $38^{\circ} 59.0'N$ and west of $75^{\circ} 10.0'W$, apply a +24 minute time correction, and a x1.13 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).
6. North of $38^{\circ} 56.0'N$, south of $38^{\circ} 59.0'N$ and east of $75^{\circ} 10.0'W$, apply a +10 minute time correction, and a x1.18 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).
7. North of $38^{\circ} 59.0'N$, south of $39^{\circ} 02.0'N$ and west of $75^{\circ} 10.0'W$, apply a +36 minute time correction, and a x1.20 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).
8. North of $38^{\circ} 59.0'N$, south of $39^{\circ} 02.0'N$ and east of $75^{\circ} 10.0'W$, apply a +15 minute time correction, and a x1.24 range ratio to heights using Lewes Breakwater Harbor, Delaware (855-7380).

Note: Times are tabulated in Eastern Standard Time.



CHIEF, DATUMS SECTION