

DATE: 01/15/85

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Pacific

OPR: A166

Hydrographic Sheet: H-10136

Locality: Penobscot River, Maine

Time Period: June 7 - August 17, 1984

Tide Station Used: 841-4612 Bangor, ME

Plane of Reference (Mean ~~Lower~~ Low Water): -1.57 ft.

*FROM PHONE CONV. W/JOE MULLEN 2/25/85.
Marked out*

Height of Mean High Water Above Plane of Reference: 13.2 ft.

Remarks: Recommended Zoning:

- 1) North of latitude $44^{\circ}46.4'$ Zone Direct
- 2) South of latitude $44^{\circ}46.4'$ to $44^{\circ}45.0'$ apply x0.98 range ratio
- 3) South of latitude $44^{\circ}45.0'$ to $44^{\circ}43.6'$ apply x0.96 range ratio
- 4) south of latitude $44^{\circ}43.6'$ to $44^{\circ}41.5'$ apply x0.94 range ratio to all heights


Chief, Tidal Datums Section

Field Tide Note (H10136)

Field tide reduction of soundings was based on daily high and low water levels from the ADR tide gauge at Bangor, Maine (Station No. 841-4612). The values were reduced to mean low water using the bench mark elevations for the Bangor tide station. All times for the gauge installed by the field party are UTC.

The operating tide stations at Rockland, Maine (841-5490) and Bar Harbor, Maine (841-3320), will serve as control for datum determination at all subordinate tide stations. The Rockland gauge was leveled by the NOAA Ship Mt. Mitchell at the beginning of OPR-A166 in 1984 and will be leveled out by HFP-3 in October 1984.

Standard Fischer/Porter ADR tide gauge with tide staff was installed, operated and observed by HFP-3 for the period indicated:

<u>SITE</u>	<u>LOCATION</u>	<u>PERIOD</u>
Bangor, Maine Station 841-4612	Lat. 44°47.7'N Lon. 68°46.3'W	IN 30 May 84 OUT Projected Oct 84

Levels were run at the installation of the tide staff and again when the location of the staff was changed on 27 June 1984. The staff was moved because the water level of the Penobscot River dropped below the staff's zero. A bubbler tide gauge was installed at the Bangor tide station site to backup the ADR gauge when the river level dropped below the intake of the float well. The station is scheduled to be leveled and removed by HFP-3 in October upon completion of the field work for OPR-A166 for 1984.

The bubbler tide gauge was installed at Bangor, Maine (Tide Station No. 841-4612) on 27 June 1984.

ZONING

There are no recommendations for zoning by the field party. Zoning should be provided by the Tides and Water Levels Branch (N/OMS12).