

DATE: 10/9/84

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-10131

Locality: Penobscot Bay, Maine

Time Period: April 21 - June 26, 1984

Tide Station Used: 841-4692, Sandy Point, ME
841-5191, Belfast, ME

*
Plane of Reference (Mean ~~Low~~ Low Water): 841-4692 = 7.64 ft.
841-5191 = 3.22 ft.

Height of Mean High Water Above Plane of Reference: 841-4692 = 10.5 ft.
841-5191 = 10.2 ft.

Remarks: Recommended Zoning:

1. North of latitude $44^{\circ}23.0'$ to $44^{\circ}25.5'$ zone on 841-4692 and apply x0.95 range ratio. For J Day 112 to J-Day 128 when the tide gage 841-4692 was inoperative zone on 841-5191 and apply x0.98 range ratio. (SEE NOTE)
2. South of latitude $44^{\circ}23.0'$ to $44^{\circ}18.0'$ zone on 841-4692 and apply x0.93 range ratio. For J-Day 112 to J-Day 128 when the tide gage at 841-4692 was inoperative zone on 841-5191 and apply x0.96 range ratio, (SEE NOTE)

* FROM PHONE CONV. W/ JOE MULLEN 10-18-84.

NOTE: GAGE 841-4692 ALSO INOPERATIVE DURING J-DAY 178-180.

Donald Carrier
for Chief, Tidal Datums Section

FIELD TIDE NOTE

Field tide reduction of soundings were based on Predicted Tides from Portland, Maine, and were corrected to OPR-A166-MI/HFP-84 zoning, utilizing a PDP8/E Computer and Program RK500. All times of both Predicted and Recorded Tides are Universal Coordinated Time (GMT).

The number and type of Tide Gages installed, their geographic locations, dates of installation/removal, Leveling, Plane of Reference and period of operation are appended to this note, along with a copy of a letter to OA/C23 requesting verified hourly heights of tides from gages listed in this report.

The respective gages reportedly operated properly/improperly during this Project, with any exceptions noted under "REMARKS" on the appended Tide Gage Sheets.

FIELD TIDE NOTE

TIDE GAGE REPORT

NOS TIDE TABLE NUMBER: 773 TIME MERIDIAN 75 ° WGEOGRAPHIC LOCALE: Coast Guard Base Rockland, MaineNAME: Rockland, Maine STATION NUMBER: 841-5490LATITUDE: 44°06.2' N, LONGITUDE: 069°06.1' WTYPE OF GAGE: ADR, BUBBLER, OTHER ()PLANE OF REFERENCE: MLW, MLLW, GCLWD, OTHER, CORRESPONDSTO FEET ON THE TIDE STAFF FOR THE PERIOD TO DATED INSTALLED: Feb. or Mar. 83 BY: AMC Tides PartyDATE REMOVED: BY: DATE LEVELED: 11 April 84 BY: NOAA Ship MT. MITCHELL
22 June 84 NOAA Ship MT. MITCHELLREMARKS: Rockland was the primary tide station for all survey work.

FIELD TIDE NOTE

TIDE GAGE REPORT

NOS TIDE TABLE NUMBER: 769 TIME MERIDIAN 75 ° WGEOGRAPHIC LOCALE: Belfast, MaineNAME: Belfast STATION NUMBER: 841-5191LATITUDE: 44°25'45" N, LONGITUDE: 69°00'16" WTYPE OF GAGE: ADR, BUBBLER, OTHER ()PLANE OF REFERENCE: MLW, MLLW, GCLWD, OTHER, CORRESPONDSTO FEET ON THE TIDE STAFF FOR THE PERIOD TO DATED INSTALLED: 12 April 84 BY: NOAA Ship MT. MITCHELLDATE REMOVED: 30 June 84 BY: NOAA Ship MT. MITCHELLDATE LEVELED: 12,13,17 April 84 BY: NOAA Ship MT. MITCHELL27 June 84 NOAA Ship MT. MITCHELLREMARKS:

<u>DATE</u>	<u>EVENT</u>
<u>17 April 84</u>	<u>releveled to BM 5191A after staff readjusted</u>
<u>20 April 84</u>	<u>kink taken out of wire</u>
<u>11 May 84</u>	<u>near broken wire repaired</u>
<u>12 May 84</u>	<u>gage knocked into water during storm</u>
<u>14 May 84</u>	<u>new gage installed</u>
<u>15 May 84</u>	<u>punch block jammed up - repaired</u>
<u>4 June 84</u>	<u>" " "</u>
<u>12 June 84</u>	<u>negator spring knocked off - repaired</u>

FIELD TIDE NOTE

TIDE GAGE REPORT

NOS TIDE TABLE NUMBER: 877 TIME MERIDIAN 75 ° WGEOGRAPHIC LOCALE: Sandy Point, Penobscot River, MaineNAME: Sandy Point STATION NUMBER: 841-4692LATITUDE: 44°30'20" N, LONGITUDE: 68°48'16" WTYPE OF GAGE: ADR, BUBBLER, OTHER ()PLANE OF REFERENCE: MLW, MLLW, GCLWD, OTHER, CORRESPONDSTO FEET ON THE TIDE STAFF FOR THE PERIOD TO DATED INSTALLED: 7 May 84 // BY: NOAA Ship MT. MITCHELLDATE REMOVED: 26 June 84 BY: NOAA Ship MT. MITCHELLDATE LEVELED: 7 May 84 BY: NOAA Ship MT. MITCHELL22 June 84 NOAA Ship MT. MITCHELLREMARKS:

<u>DATE</u>	<u>EVENT</u>
<u>15 May 84</u>	<u>punch block jammed up- repaired</u>
<u>19 May 84</u>	<u>punch block loose - repaired</u>
<u>30 May 84</u>	<u>punch block jammed up repaired</u>

NOTE : A letter was sent to Chief, N/OMS12 on 30 May, 1984

concerning the tide gage to staff comparison. The

gage was observed to read higher than the staff by

as much as 0.25 feet during times from slack before

ebb up to approximately one hour before max ebb.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY

Date : 2 JUL 1984
To : Chief, Tides and Water Levels Branch, N/OMS12
From : *John W. Dwyer*
Commanding Officer
NOAA Ship Mt. Mitchell S-222
Subj. : Tidal Data for Hydrographic Survey H-10131
OPR-A166-MI-84, Penobscot Bay, Maine

It is requested that verified hourly heights of Tides, using Coordinated Universal Time, from the Operating Tide Gages listed below, be forwarded to the Processing Division (MOA23), Atlantic Marine Center, Norfolk, VA. 23510

<u>GAGE NAME</u>	<u>NUMBER</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
PORTLAND, ME. (Reference)	877 (Tide- Tables)	43°40.0'N	070°15.0'W
ROCKLAND, ME. (Control)	841-5490	44°06.2'N	069°26.1'W
BELFAST, ME (Zone)	841-5191	44°25.6'N	069°00.0'W

It is requested that the Time and Height Correctors for each Gage be Zoned as per Project Instructions for the area described within the following points:

LATITUDE 44°18'10"N, 44°25'34"N, 44°25'34"N, 44°18'10"N
LONGITUDE 68°54'30"W, 68°54'30"W, 68°47'42"W, 68°47'42"W

This information is requested for the following Dates and Times:

4/21/84 JD112 0000UCT thru 2359UCT 4/25/84 JD 116
4/27/84 JD118 0000UCT thru 2359UCT 4/27/84 JD 118
5/01/84 JD122 0000UCT thru 2359UCT 5/01/84 JD 122
5/05/84 JD126 0000UCT thru 2359UCT 5/05/84 JD 126
5/09/84 JD130 0000UCT thru 2359UCT 5/10/84 JD 131
5/30/84 JD151 0000UCT thru 2359UCT 6/01/84 JD 153
6/12/84 JD164 0000UCT thru 2359UCT 6/12/84 JD 164
6/18/84 JD170 0000UCT thru 2359UCT 6/22/84 JD 174
6/26/84 JD178 0000UCT thru 2359UCT 6/26/84 JD 178

