

DATE: December 20, 1982

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center:

Hourly heights are approved for

Tide Station Used (NOAA Form 77-12): 945-0435 Short Point, Smeaton Bay, Alaska
945-0475 Smeaton Bay, Wilson Arm, Alaska

Period: September 14-26, 1982

HYDROGRAPHIC SHEET: H-10048

OPR: 0361

Locality: Smeaton Bay, Alaska

Plane of reference (mean lower low water): 945-0435 = -4.05 ft.
945-0475 = 0.96 ft.

Height of Mean High Water above Plane of Reference is 945-0435 = 14.4 ft.
945-0475 = 14.2 ft.

REMARKS: Recommended Zoning:

1. North of latitude $55^{\circ}19'$ zone direct on 945-0475, Smeaton Bay, Wilson Arm, Alaska.
2. South of $55^{\circ}19'$ zone direct on 945-0435, Short Point, Smeaton Bay, Alaska.


Chief, Tidal Datums and Information Branch

FIELD TIDE NOTE

Field tide correction of soundings for H-10048 was based on predicted tides from Ketchikan, Alaska. Corrections were obtained from Preliminary Tidal Zoning OPR-0361-RA-82. The predicted tides were derived using program AM500. The reference station, Ketchikan, Alaska (945-0460, Lat. $55^{\circ}19.95'N$, Long. $131^{\circ}37.5'W$), was leveled on October 2, 1982. The levels agreed with the historical record.

One subordinate tide station provided data for survey H-10048. The Wilson Arm gage (945-0475, lat. $55^{\circ}22.5'N$, long. $130^{\circ}37.7'W$) was installed on September 13, 1982. Initial and final levels for this gage were run on September 13, 1982 and September 25, 1982, covering the period of hydrography. The staff value of the zero line on the tide record was -7.2 feet and the time meridian for record annotation was 0^0 (UTC).

RAINIER hired a tide observer for this gage since the ship left the Smeaton Bay working area before the thirty-day time period elapsed. A gage malfunction occurred which the tide observer was unable to fix. Due to poor communications, the tide observer was unable to contact RAINIER regarding the malfunction. The Wilson Arm gage was intended to be a thirty day gage, however, only twenty-two days of data were recoverable from the gage.