DATE: February 8, 1983

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): 945-0305 North Kestrel Island, Boca De Quadra, Alaska

Period: September 28-October 22, 1982

HYDROGRAPHIC SHEET: H-10051

OPR: 0361

Locality: Entrance to Boca De Quadra, Alaska

Plane of reference (mean lower low water): 8.5 ft.

Height of Mean High Water above Plane of Reference is 14.3 ft.

REMARKS: Recommended Zoning:

Zone Direct

James R. Hubbard
Chief, Tidal Datums Section, Tides & Water Levels Branch

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# FIELD TIDE NOTE

Field tide reduction of soundings for survey H-10051 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° 19.5' N, Long. 131° 37.5' W, was leveled on October 2 and November 12, 1982. These levels agreed with the historical records.

Two subordinate tide stations provided data for survey H-10051. The Kestrel Tide Gage (945-0305), Lat. 55° 07.1' N, Long. 130° 47.9' W, was installed on September 28, 1982 and removed on November 20, 1982. Initial and final levels for this gage were run on September 28, 1982 and November 17, 1982. The staff value of the zero line on the tide record was +5.0 feet and the time meridian for records annotation was 0° (UTC). The gage operated very well the entire period.

The Kah Shakes Cove Tide Gage (945-0254), Lat. 55° 02.5' N, Long. 130° 58.7' W, was installed on September 29 and removed on November 4, 1982. Initial and final levels for this gage were run on October 4, 7 and November 4, 1982. The staff value of the zero line on the tide record was +1.8 feet and the time meridian for records annotation was 0° (UTC).

The Kah Shakes Cove gage experienced problems the entire time of installation. High humidity inside the gage caused the ink to constantly smear. The humidity problem also affected the transfer of paper through the chart drive. This resulted in the paper jumping sprocket holes, thus causing time problems. Although the marigrams look poor and gaps are present (never more than three days), the data is acceptable.