

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

DATE: September 2, 1987

Marine Center: Pacific

OPR: R184

Hydrographic Sheet: H-10244

Locality: Kulukak Bay and Vicinity, Bristol Bay, Alaska

Time Period: June 1 - 19, 1987

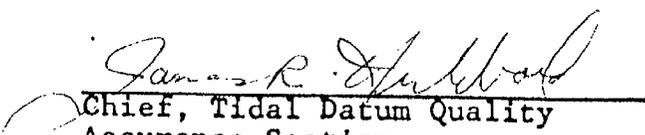
Tide Station Used: 946-5265 Kulukak Point, AK

Plane of Reference (Mean Lower Low Water): 8.72 ft.

Height of Mean High Water Above Plane of Reference: 11.4 ft.

Remarks: Recommended Zoning:

1. Zone Direct


Chief, Tidal Datum Quality
Assurance Section

FIELD TIDE NOTE OPR-R184-RA-87

Field-tide reduction of soundings was based on predicted tides computed with program AM 500, Predicted Tide Generator, by using the predicted tides for Black Rock, Walrus Islands, Bristol Bay tide station (946-5182) provided by the Sea and Lake Levels branch of the National Ocean Service (attached). The correctors that were used for Kulukak Bay are as follows:

	Time Correction		Height Ratio
	High Water	Low Water	
N of 58° 50.0'N	-0hr 25min	-0hr 25min	x1.13
S of 58° 50.0'N	-0hr 15min	-0hr 15min	x1.06

Tide station information follows:

KULUKAK POINT, ALASKA (946-5265)

Geographic Locale- Lat: 58° 50.4' N, Long: 159° 38.8' W.

Installation Date- May 31, 1987 (This was a reinstatement of a gage operated for 93 days in 1986, and 74 days in the 1985 field season.)

Removal Date- June 18, 1987

Gage Type- Bristol Bubbler (S/N 62A-092). There was a backup Bristol Bubbler, (S/N 64A-11028), which was installed at the same time. The gages were secured to a rock face approximately 15 feet above the high water line.

Staff- The staff was constructed from aluminum angle iron with 4-inch webs. It was secured to a rock face 30 feet south of bench mark 5265 D with lag bolts. The scale was standard vitrified mounted to the staff. The staff stop was a stainless steel hex machine bolt located at 21.000 feet on the staff.

Staff Zero/Gage Zero- For S/N 62A-092: 5.0 ± 0.1 feet
For S/N 64A-11028: 3.3 ± 0.1 feet

Gage Time- Universal Coordinated Time

Bench Marks- Five bench marks were connected by the initial and final leveling. They are: 5265 A 1985, 5265 B 1985, 5265 C 1985, 5265 D 1985, 5265 E 1985.

Levels- Installation levels were run on May 31, 1987, connecting the five bench marks mentioned above. Closing levels were run on June 18, 1987. The installation and closing elevations agreed to within 0.011 m (0.036 feet).

Marigram Records- The marigram records are continuous from 6/2/87 at 1924 Z, when the three hour observations began, until 6/19/87 at 2230 Z when both gages were removed.

Station Problems- None