

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

**DATE:** January 21, 1987

**Marine Center:** Pacific

**OPR:** P180

**Hydrographic Sheet:** H-10215

**Locality:** Kilokak Rock to Ashiik Island, Shelikof Strait, Alaska

**Time Period:** June 18 - September 14, 1986

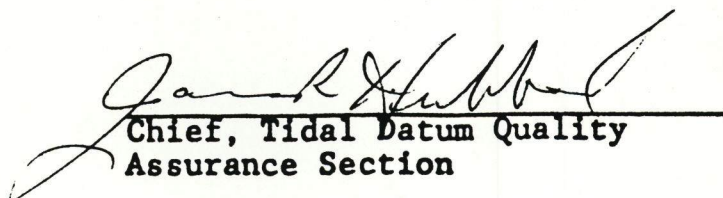
**Tide Station Used:** 945-8464 Agripina Bay, AK

**Plane of Reference (Mean Lower Low Water):** 0.17 Ft.

**Height of Mean High Water Above Plane of Reference:** 10.2 Ft.

**Remarks:** Recommended Zoning:

1. North of Latitude  $57^{\circ}07.5'$  apply a X1.06 Range Ratio to all heights.
2. South of Latitude  $57^{\circ}07.5'$  Zone Direct.

  
Chief, Tidal Datum Quality  
Assurance Section

Field Tide Note  
1986 Field Season

The tide gage located at Kodiak, Alaska (945-7283) served as the reference station for the predicted tides used for correctors on surveys H-10197, H-10214 and H-10215 as specified by Project Instructions OPR-P180-FA-85,86.

The controlling tide station is Sand Point, Alaska (945-9450), the operating station at Seldovia, Alaska (945-5500) will supply additional control for datum reduction.

Predicted tide correctors were interpolated aboard the FAIRWEATHER using data from the 1986 West Coast Tide Tables and program AM 500 dated November 10, 1972. All correctors calculated were based on zone correctors supplied by the project instructions and tabulated below.

Time Correction		Height Correction
<u>High Water</u>	<u>Low Water</u>	<u>Range Ratio</u>
+0hr 25min	+0hr 40min	x 1.32

All times of predicted and reported tides are expressed in Universal Coordinated Time. Predicted tides were acceptable for hydrography with no discrepancies in the data attributable to tide errors.

One field tide station, Agripina Bay (945-8464), was established in support of these surveys. The Agripina Bay Station, located at latitude 57/06/24, longitude 156/26/24, operated throughout the period of surveying on sheets H-10197, H-10214 and H-10215. The station was installed on June 17, 1986 (DN 168) and removed on September 27, 1986 (DN 270). Two Bristol Bubbler analog tide gages were installed in a cove on the northern side of the largest island in Agripina Bay. The gages, serial numbers 67A 16201 and 68A 9335, had a range of 0 to 30 feet. The orifices were bolted to a rock approximately 6 inches above the bay floor. The tubing was led across the bottom and weighted with rocks along its length. The staff was bolted to a 2x4 with stainless steel lag bolts. The staff was bolted to a rock face at the 3-foot mark; braced by a strongback at the 8-foot level with two guy wires which led from the top of the 2x4 to eyebolts set in rock. Zero of the tide staff equals 9.9 feet on gage A and 10.6 feet on gage B. For further information refer to the Tide Station Report #945-8464, Agripina Bay, Alaska.