

February 9, 1984

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Pacific

OPR: 0907

HYDROGRAPHIC SHEET: FE-251

Locality: Ward Cove, Alaska

Time Period: September 27 - October 27, 1983

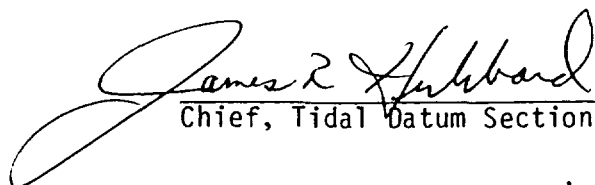
Tide Station Used: 945-0460 Ketchikan, Alaska

Plane Of Reference (Mean Lower Low Water): 6.23 feet

Height Of Mean High Water Above Plane Of Reference: 14.5 feet

Remarks: Recommended Zoning:

For the survey area located within the following boundaries; Latitude  $55^{\circ}25.0'$ , Latitude  $55^{\circ}24.0'$ , Longitude  $131^{\circ}44.0'$ , and Longitude  $131^{\circ}43.0'$ . Apply x 1.03 range ratio to all heights.

  
Chief, Tidal Datum Section

## FIELD TIDE NOTE

Field tide reduction of soundings for RA-5-2-83, Ward Cove, was based on predicted tides from Ketchikan, Alaska (945-0460). Corrections were obtained from Preliminary Tidal Zoning OPR-0168-RA-83. The predicted tides were derived using program AM500. ✓

The reference station at Ketchikan was leveled at the beginning of survey operations on September 22, 1983. Three permanent benchmarks (including the primary mark) were connected to the ETG reading mark. Final levels were run on November 14, 1983. Initial and final levels compared favorably. ✓

One subordinate tide station provided data for this survey. A bubbler tide gage was installed on September 24, 1983 at the historical site on Vallenar Point (945-0511),  $55^{\circ}25.6'N$ ,  $131^{\circ}50.8'W$ . Three permanent benchmarks were recovered and two benchmarks were established at this location. Initial levels were run on September 24, 1983. The staff value of the zero line on the analog tide record is +12.62 feet. The gage operated well throughout the time of hydrography except for a period of 18 hours on J.D. 298 when a gap in the record occurred due to a paper jam. Final levels for this gage were run on November 15, 1983. Comparison of initial and final levels indicated that no significant movement of the staff occurred during the survey period. The time meridian used for records annotation was  $0^{\circ}$  (UTC). ✓