



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Office of Ocean and Earth Sciences  
Silver Spring, Maryland 20910

### TIDE NOTE FOR HYDROGRAPHIC SURVEY

**DATE:** September 11, 1997

**HYDROGRAPHIC BRANCH:** Pacific

**HYDROGRAPHIC PROJECT:** OPR-0328-RA

**HYDROGRAPHIC SHEET:** H-10733

**LOCALITY:** Northern Stephens Passage, AK. (Sheet E)

**TIME PERIOD:** March 20 - April 21, 1997

**TIDE STATION USED:** 945-2249 Young Bay, AK.

Lat. 58° 11.0'N Lon. 134° 35.2'W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters

**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 4.690 meters

**REMARKS:** RECOMMENDED ZONING


Use zone(s) identified as: SEA4A

Refer to attachments for zoning information.

**Note 1:** Provided time series data are tabulated in metric units (Meters), relative to MLLW and on Greenwich Mean Time.

**Note 2:**

Juneau, AK was used as control for datum determination for all subordinate tide stations for this survey. Relative sea level trends show that the areas of Juneau Alaska are undergoing continual uplift. The relative sea level trend observed at Juneau for the time period 1950 through 1993 is -0.0114 m/yr. with a standard error of 0.0005 m/yr. As a result of high rate of sea level change, the 1960 to 1978 Tidal Epoch value of Mean Lower Low Water (MLLW) used as chart datum and reference datum for NOS tidal predictions does not reflect present conditions. The data are under review to determine an updated value of MLLW. An interim value was computed for Juneau, based on the series of data from 1989 to 1991 and controlled by the 1960-1978 Epoch datums at Ketchikan which is more stable. The provided values adjust the chart datum to a more realistic level and in a direction that is more conservative for navigation purposes.

  
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CHIEF, TIDAL ANALYSIS BRANCH



Final tide zone node point locations for OPR 0328-RA-97,  
 Sheet H-10733 (E).

Format: Longitude in decimal degrees (negative value denotes  
 Longitude West),  
 Latitude in decimal degrees  
 Tide Station (in recommended order of use)  
 Average Time Correction (in minutes)  
 Range Correction

	Tide Station Order	AVG Time Correction	Range Correction
Zone SEA4A			
-134.673853 58.297194	945-2249	0	1.00
-134.49203 58.251071			
-134.510592 58.219749			
-134.563302 58.193104			
-134.544003 58.174283			
-134.698759 58.146909			
-134.772288 58.269309			
-134.673853 58.297194			