



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: November 3, 1997

HYDROGRAPHIC BRANCH: Pacific

HYDROGRAPHIC PROJECT: OPR-O324-RA
HYDROGRAPHIC SHEET: H-10743

LOCALITY: Stephens Passage, AK. (Sheet B)

TIME PERIOD: April 24 - June 18, 1997

TIDE STATION USED: 945-2082 Crib Point, Port Snettisham, AK.
Lat. 58° 05.7'N Lon. 134° 44.3'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 4.550 meters

TIDE STATION USED: 945-2123 Taku Harbor, AK.
Lat. 58° 04.1'N Lon. 134° 00.6'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 4.531 meters

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: SEA8, SEA9 & SEA10
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.



Final tide zone node point locations for OPR O324-RA-97,
Sheet H-10743.


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 SEA8				
-134.04478	58.239803	945-2123	0	1.00
-133.929274	58.010814	945-2249	-6	0.96
-133.765896	57.91308	945-2210	0	0.97
-134.080082	57.896614			
-134.132552	57.972586			
-134.272032	58.10242			
-134.183573	58.155284			
-134.15	58.207113			
-134.140172	58.234618			
-134.04478	58.239803			
Zone SEA9				
-133.929274	58.010814	945-2082	0	1.00
-133.743541	58.127911	945-2123	0	1.01
-133.725	58.123			
-133.711667	58.126667			
-133.677106	58.126828			
-133.694649	58.007198			
-133.665601	57.998293			
-133.657338	57.929546			
-133.765896	57.91308			
-133.929274	58.010814			
Zone SEA10				
-134.080082	57.896614	945-2067	0	0.99
-133.910199	57.726615	945-2123	0	1.00
-133.659922	57.78936			
-133.765896	57.91308			
-134.080082	57.896614			

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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.



CHIEF, OPERATIONAL ANALYSIS BRANCH