



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEANIC 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-10737

LOCALITY: Northern Stephens Passage, AK. (Sheet K)

TIME PERIOD: April 5 - April 26, 1997

TIDE STATION USED: 945-2249 Young Bay, AK.
Lat. $58^{\circ} 11.0' N$ Lon. $134^{\circ} 35.2' W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 4.690 meters

TIDE STATION USED: 945-2210 Juneau, AK.
Lat. $58^{\circ} 17.9' N$ Lon. $134^{\circ} 24.7' W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 4.674 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: SEA4, SEA4D & SEA8
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.

[Signature]
CHIEF, TIDAL ANALYSIS BRANCH



Final tide zone node point locations for OPR O328-RA-97,
Sheet H-10737 (K).

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 SEA4			
-134.269583 58.196589	945-2210	0	1.00
-134.215162 58.212147			
-134.504596 58.366223			
-134.681627 58.398836			
-134.710781 58.382241			
-134.673853 58.297194			
-134.49203 58.251071			
-134.269583 58.196589			
Zone SEA4D			
-134.15 58.207113	945-2249	0	0.98
-134.215162 58.212147	945-2210	0	0.98
-134.269583 58.196589			
-134.300514 58.139749			
-134.183573 58.155284			
-134.15 58.207113			
Zone SEA8			
-134.04478 58.239803	945-2249	-6	0.96
-133.929274 58.010814	945-2210	0	0.97
-133.765896 57.91308			
-133.663784 57.798637			
-133.629746 57.702608			
-133.917108 57.704177			
-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			