



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-10732

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

TIME PERIOD: March 20 - April 8, 1997

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

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


REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: SEA3D, SEA4 & 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.



CHIEF, TIDAL ANALYSIS BRANCH



Final tide zone node point locations for OPR O328-RA-97,
 Sheet H-10732 (D).

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 SEA3D				
-134.673853	58.297194	945-2249	0	0.99
-134.772288	58.269309			
-134.876426	58.350396			
-134.892776	58.375726			
-134.839413	58.373916			
-134.81273	58.375272			
-134.759365	58.386121			
-134.710781	58.382241			
-134.673853	58.297194			
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 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			