



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

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: January 28, 1999

HYDROGRAPHIC BRANCH: Pacific

HYDROGRAPHIC PROJECT: OPR-N368-PHP

HYDROGRAPHIC SHEET: H-10783

LOCALITY: Eastern Bank to West of Smith Island, Northern Puget Sound, WA

TIME PERIOD: September 29, 1997 - July 1, 1998

TIDE STATION USED: 944-9880 Friday Harbor, WA
Lat. 48° 32.7'N Lon. 123° 00.8'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.15 meters

TIDE STATION USED: 944-9982 Richardson Point, WA
Lat. 48° 26.8'N Lon. 122° 54.0'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.012 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: NPS10, NPS11, NPS12, NPS86, NPS89 & NPS90

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: Use tide data from the appropriate station for each zone according to the order in which they are listed in the "Tidezone" corrector files. For example, tide station one (TS1) would be the first choice for an applicable zone followed by TS2, etc. when data are not available. All zones within a survey sheet may not have the same order of applicable tide stations.

for 

CHIEF, REQUIREMENTS AND ENGINEERING BRANCH



Final tide zone node point locations for OPR-N368-PHP-97,
Sheet H-10783.

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 NPS10				
-123.132684	48.175103	944-9982	-6	0.97
-123.228354	48.354467	944-9880	-72	0.91
-122.95547	48.279048			
-123.103222	48.183595			
-123.132684	48.175103			
Zone NPS11				
-122.95547	48.279048	944-9982	0	0.97
-123.228354	48.354467	944-9880	-66	0.91
-123.240326	48.420619			
-122.885328	48.3214			
-122.95547	48.279048			
Zone NPS12				
-123.240326	48.420619	944-9982	0	1.00
-123.239336	48.42482	944-9880	-66	0.93
-123.231735	48.426997			
-122.850128	48.382088			
-122.885328	48.3214			
-123.240326	48.420619			
Zone NPS86				
-122.850128	48.382088	944-9982	+12	0.99
-122.885328	48.3214	944-9880	-54	0.92
-122.78938	48.304007			
-122.773655	48.373561			
-122.850128	48.382088			
Zone NPS89				
-122.95547	48.279048	944-9982	+12	0.99
-122.885328	48.3214	944-9880	-54	0.92
-122.78938	48.304007			
-122.879004	48.258473			
-122.95547	48.279048			
Zone NPS90				
-122.95547	48.279048	944-9982	0	0.99

-123.103222	48.183595	944-9880	-66	0.92
-122.879004	48.258473			
-122.879004	48.258473			
-122.95547	48.279048			