



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Service
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE : June 16, 2006

HYDROGRAPHIC BRANCH: Pacific
HYDROGRAPHIC PROJECT: OPR-N372-RA-2004/2005
HYDROGRAPHIC SHEET: H11371-rev

LOCALITY: Vicinity of Smith Island

TIME PERIOD: November 2 - November 11, 2004
March 25 - April 4, 2005

TIDE STATION USED: 944-9880 Friday Harbor, WA
Lat. 48 32.7' N Long. 123 00.7' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.167 meters

TIDE STATION USED: 944-4900 Port Townsend, WA
Lat. 48 06.8' N Long. 122 45.6' W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.389 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: PS85, PS86, PS88, PS89, PS98, PS99, PS100,
PS219 & PS261.

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 on the 1983-2001 National Tidal Datum Epoch (NTDE).

Note 2: Use tide data from the appropriate station with applicable zoning correctors for each zone according to the order in which they are listed in the Tidezone corrector file (*.ZDF). For example, tide station one (TS1) would be the first choice for an applicable zone followed by TS2, etc. when data are not available.

CHIEF, PRODUCTS AND SERVICES DIVISION



Final tide zone node point locations for OPR-N372-RA-2004/2005, H11371-rev

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

	Tide Station Order	AVG Time Correction	Range Correction
Zone PS85	944-9880	-72	x0.89
-122.929746 48.368462			
-122.938279 48.3792			
-122.967755 48.391979			
-123.020289 48.401615			
-123.06433 48.410114			
-123.122179 48.425159			
-123.160951 48.437784			
-123.119822 48.441387			
-123.06998 48.444337			
-123.032106 48.441012			
-122.98622 48.430663			
-122.953708 48.41926			
-122.932396 48.407714			
-122.910881 48.391388			
-122.929746 48.368462			
Zone PS86	944-9880	-78	x0.87
-123.143413 48.389709			
-123.16949 48.40446			
-123.06433 48.410114			
-123.020289 48.401615			
-122.967755 48.391979			
-122.938279 48.3792			
-122.929746 48.368462			
-122.930221 48.350455			
-122.948235 48.326751			
-122.990425 48.294496			
-123.035217 48.269084			
-123.022734 48.292453			
-123.01548 48.32686			
-123.030086 48.356299			
-123.064723 48.377249			
-123.143413 48.389709			
Zone PS88	944-9880	-78	x0.89
-123.093986 48.24378			

-123.10213 48.227338
-123.134698 48.174579
-123.108734 48.182947
-123.015893 48.209859
-122.899968 48.261473
-122.893765 48.285462
-122.887292 48.331774
-122.893736 48.365136
-122.910881 48.391388
-122.929746 48.368462
-122.930221 48.350455
-122.948235 48.326751
-122.990425 48.294496
-123.035217 48.269084
-123.093986 48.24378

Zone PS89

944-4900

-36

x0.83

-122.899968 48.261473
-122.906045 48.237829
-122.92476 48.189261
-122.997194 48.163835
-123.101906 48.134294
-123.10655 48.154426
-123.107408 48.168372
-123.10541 48.182505
-123.108734 48.182947
-123.015893 48.209859
-122.899968 48.261473

Zone PS98

944-9880

-66

x0.89

-122.854848 48.291333
-122.899968 48.261473
-122.893765 48.285462
-122.887292 48.331774
-122.893736 48.365136
-122.910881 48.391388
-122.892658 48.421794
-122.860175 48.422416
-122.851662 48.416993
-122.837844 48.408095
-122.809807 48.394001
-122.797653 48.385336
-122.804821 48.348601
-122.82567 48.314919
-122.854848 48.291333

Zone PS99

944-9880

-60

x0.91

-122.906045 48.237829
-122.899968 48.261473

-122.854848 48.291333
-122.82567 48.314919
-122.804821 48.348601
-122.797653 48.385336
-122.779262 48.372319
-122.753679 48.335555
-122.75432 48.302865
-122.791509 48.266338
-122.840126 48.228362
-122.905945 48.195859
-122.92476 48.189261
-122.906045 48.237829

Zone PS100

944-4900

-24

x0.86

-122.883403 48.156423
-122.900792 48.149681
-122.906998 48.157486
-122.92476 48.189261
-122.905945 48.195859
-122.840126 48.228362
-122.791509 48.266338
-122.75432 48.302865
-122.760073 48.243261
-122.763423 48.223421
-122.797437 48.202752
-122.833308 48.180006
-122.883403 48.156423

Zone PS219

944-9880

-48

x0.91

-122.797653 48.385336
-122.779262 48.372319
-122.753679 48.335555
-122.757852 48.385576
-122.763088 48.413972
-122.770917 48.432214
-122.796103 48.425314
-122.793542 48.42142
-122.793714 48.405171
-122.797653 48.385336

Zone PS261

944-9880

-66

x0.90

-122.892658 48.421794
-122.909672 48.429541
-122.928439 48.435883
-122.956737 48.442322
-122.972139 48.443812
-122.986341 48.443812
-123.000544 48.442762
-123.032106 48.441012

-122.98622 48.430663
-122.953708 48.41926
-122.932396 48.407714
-122.910881 48.391388
-122.892658 48.421794