



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: March 14, 1997

HYDROGRAPHIC BRANCH: Pacific
HYDROGRAPHIC PROJECT: OPR-N210-PHP
HYDROGRAPHIC SHEET: H-10714

LOCALITY: Washington, Southern Puget Sound, Nisqually Reach

TIME PERIOD: September 4 - October 30, 1996

TIDE STATION USED: 944-6705 Yoman Point, Anderson Island, Wa.
Lat. $47^{\circ} 10.8'N$ Lon. $122^{\circ} 40.5'W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 3.826 meters

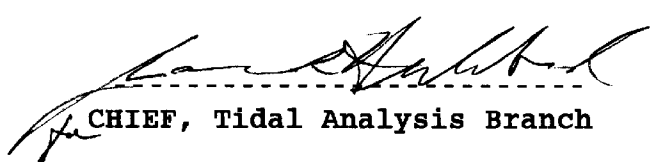
TIDE STATION USED: 944-6807 Budd Inlet, Wa.
Lat. $47^{\circ} 05.9'N$ Lon. $122^{\circ} 53.7'W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 4.128 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: PS23, PS24, PS25, PS26, PS27, PS28, PS29
& PS30

Refer to attachment(s) for zoning information.

Note: Provided time series data are tabulated in metric units
(meters) and on Greenwich Mean Time.


CHIEF, Tidal Analysis Branch



Final tide zone nodal point locations for OPR N210-PHP-96.

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 PS1				
-122.535432	47.663657	944-7130	0	0.98
-122.513474	47.707568			
-122.391762	47.691029			
-122.405646	47.661072			
-122.419719	47.661024			
-122.535432	47.663657			
Zone PS23				
-122.571554	47.180768	944-6705	0	1.00
-122.659779	47.098678	944-6807	-6	0.93
-122.698942	47.129624	944-7130	42	1.19
-122.719881	47.141365			
-122.678356	47.177384			
-122.642049	47.201396			
-122.571554	47.180768			
Zone PS24				
-122.719881	47.141365	944-6705	0	1.02
-122.757377	47.102731	944-6807	-6	0.95
-122.728315	47.063504	944-7130	42	1.21
-122.659779	47.098678			
-122.698942	47.129624			
-122.719881	47.141365			
Zone PS25				
-122.757377	47.102731	944-6705	0	1.04
-122.796016	47.13122	944-6807	-6	0.96
-122.736695	47.152043	944-7130	42	1.23
-122.719881	47.141365			
-122.757377	47.102731			
Zone PS26				
-122.758302	47.171956	944-6705	6	1.05
-122.736695	47.152043	944-6807	-6	0.98
-122.796016	47.13122	944-7130	42	1.25
-122.80523	47.153605			
-122.764484	47.185645			
-122.758302	47.171956			

Zone PS27

-122.754974	47.178746	944-6705	0	1.04
-122.758302	47.171956	944-6807	-6	0.96
-122.736695	47.152043	944-7130	42	1.23
-122.709969	47.158342			
-122.754974	47.178746			

Zone PS28

-122.748019	47.191957	944-6705	0	1.02
-122.754974	47.178746	944-6807	-6	0.95
-122.709969	47.158342	944-7130	42	1.21
-122.679063	47.177046			
-122.748019	47.191957			

Zone PS29

-122.739209	47.214749	944-6705	0	1.00
-122.748653	47.232949	944-6807	-6	0.93
-122.75984	47.21032	944-7130	42	1.19
-122.748019	47.191957			
-122.679063	47.177046			
-122.642049	47.201396			
-122.699883	47.217907			
-122.718389	47.203752			
-122.739209	47.214749			

Zone PS30

-122.80523	47.153605	944-6705	6	1.04
-122.764484	47.185645	944-6807	0	0.96
-122.807866	47.245528	944-7130	48	1.23
-122.776886	47.316372			
-122.84815	47.313777			
-122.848732	47.300666			
-122.875092	47.277581			
-122.872137	47.241176			
-122.845912	47.20473			
-122.815776	47.175121			
-122.80523	47.153605			

Zone PS31

-122.816833	47.083805	944-6807	0	0.98
-122.860598	47.119762	944-7130	48	1.25
-122.873239	47.15251			
-122.875936	47.164354			
-122.871715	47.16722			
-122.845912	47.20473			
-122.815776	47.175121			
-122.816833	47.083805			

Zone PS32

-122.875936	47.164354	944-6807	0	0.99
-122.871715	47.16722	944-7130	48	1.27
-122.875936	47.206205			
-122.913087	47.228564			

-122.947775 47.226669
-122.948127 47.211078
-122.950966 47.196331
-122.938105 47.164094
-122.926677 47.142393
-122.884492 47.137796
-122.873239 47.15251
-122.875936 47.164354

Zone PS33

-122.926677 47.142393	944-6807	0	1.00
-122.947844 47.054361	944-7130	48	1.28
-122.911026 47.026036			
-122.877115 47.060289			
-122.884492 47.137796			
-122.926677 47.142393			

Zone PS34

-122.926677 47.142393	944-6807	0	1.01
-122.938105 47.164094	944-7130	48	1.29
-123.032762 47.071334			
-122.991092 47.03038			
-122.947844 47.055027			
-122.926677 47.142393			

Zone PS35

-122.938105 47.164094	944-6807	6	0.99
-122.950966 47.196331	944-7130	54	1.27
-123.021836 47.165961			
-122.985948 47.129824			
-122.938105 47.164094			