

C.2. TIDE STATIONS

Only one tide station at Astoria, Washington was used for the duration of the survey. This tide station is one of the 175 tide stations that forms NOAA's National Water Level Observation Network (NWLON) and this tide gauge recorded continuously for the entire survey.

These gauges average over 180 readings per cycle to eliminate wave variations. The NWLON control stations with limited zoning have an accuracy of 0.23 meter and data was recorded at a 6-minute interval

Station details are as follows:

			WGS84	
Gauge	Location	GS No.	Latitude	Longitude
9439040	Astoria US Coast Guard Pier	TS1	46° 12.5' N	123° 46.0' W

C.3. ZONING

For final processing, tidal zoning correctors were applied to “verified” observed data obtained from the CO-OPS web site. The time and height correctors listed below were used for processing the data for tides. Minor changes were made to the zoning scheme provided by NOAA by moving TP 9 and TP 10 to the correct positions of the ends of the breakwaters, which were determined during this survey. The changes are described in Section A of the Vertical and Horizontal Control Report.

<u>Zone</u>	<u>Time Corrector (mins)</u>	<u>Range Ratio</u>	<u>Reference Station</u>
PAC204	-84	0.92	9439040
PAC205	-78	0.94	9439040
PAC600	-72	0.93	9439040
PAC601	-60	0.92	9439040