



**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE :** May 15, 2009

**HYDROGRAPHIC BRANCH:** Pacific  
**HYDROGRAPHIC PROJECT:** OPR-N395-RA-2009  
**HYDROGRAPHIC SHEET:** H12024

**LOCALITY:** Approaches to Port Madison and Shilshole Bay, WA  
**TIME PERIOD:** April 8 - 22, 2009

**TIDE STATION USED:** Seattle, WA 944-7130  
Lat. 47° 36.2' N Long. 122° 20.4' W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 3.199 meters

**TIDE STATION USED:** Port Townsend, WA 944-4900  
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

**TIDE STATION USED:** Tacoma, WA 944-6484  
Lat. 47° 16.0' Long. 122° 24.7'  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 3.336 meters

**REMARKS: RECOMMENDED GRID**

Please use the TCARI grid "N395RA2009.tc" as the final grid for project OPR-N395-RA-2009, H12024, during the time period between April 8 and 22, 2009.

**Refer to attachments for grid 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).

**Peter J. Stone**

Digitally signed by Peter J. Stone  
DN: cn=Peter J. Stone, o=CO-OPS, ou=NOAA/  
NOS, email=peter.stone@noaa.gov, c=US  
Date: 2009.05.18 14:14:56 -04'00'

CHIEF, OCEANOGRAPHIC DIVISION

