



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

**PROVISIONAL TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE :** June 26, 2018

**HYDROGRAPHIC BRANCH:** Pacific

**HYDROGRAPHIC PROJECT:** OPR-N305-RA-18

**HYDROGRAPHIC SHEET:** H12991

**LOCALITY:** Approaches to Everett, Puget Sound, WA

**TIME PERIOD:** May 09 - 24, 2018

**TIDE STATION USED:** 9444900 Port Townsend, WA

Lat. 48° 6.8' 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:** 9447130 Seattle, WA

Lat. 47° 36.1' N Long. 122° 20.3' W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters

**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 3.199 meters

**REMARKS: RECOMMENDED GRID**

Please use the TCARI grid "H12991.tc" as the final grid for project OPR-N305-RA-18, Registry No. H12991, during the time period between May 09 and 24, 2018.

**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).

**Note 2:** Annual leveling for 9444900 Port Townsend, WA and 9447130 Seattle, WA was not completed in the past year. A review of the verified leveling records from June 2008 to June 2018 shows the tide station benchmark network to be stable within an allowable 0.009 m tolerance. This Tide Note may be used as final stability verification for survey OPR-N305-RA-18, H12991. CO-OPS will immediately provide a revised Tide Note should subsequent leveling records indicate any benchmark network stability movement beyond the allowable 0.009 m tolerance.

**Note 3:** Due to an inaccurate shoreline around Everett, Puget Sound, Washington, survey track lines fall outside of the TCARI grid boundaries in some areas. TCARI will extrapolate the tide corrector to cover these soundings.

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CHIEF, PRODUCTS AND SERVICES BRANCH

