



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

ORIGINAL

DATE: August 31, 1993

MARINE CENTER: Pacific

OPR: O136

HYDROGRAPHIC SHEET: H-10467

LOCALITY: North Arm, Port Houghton, Stephens Passage, Alaska

TIME PERIOD: April 9, 1993 - April 13, 1993

TIDE STATION USED: 945-1771 Port Houghton, Alaska  
Lat.  $57^{\circ} 17.8'N$  Lon.  $133^{\circ} 21.2'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = -1.03 feet  
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 14.3 feet

TIDE STATION USED: 945-1798 Port Houghton Inside, Alaska  
Lat.  $57^{\circ} 19.7'N$  Lon.  $133^{\circ} 10.9'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = -3.12 feet  
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 14.3 feet

TIDE STATION USED: 945-1817 Port Houghton East End, Alaska  
Lat.  $57^{\circ} 21.5'N$  Lon.  $133^{\circ} 4.2'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = 0.06 feet  
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 6.1 feet



REMARKS: RECOMMENDED ZONING

1. West of Longitude  $133^{\circ} 11.5'W$ , times and heights are direct on Port Houghton, Ak. (945-1771).
2. East of Longitude  $133^{\circ} 11.5'W$  and west of longitude  $133^{\circ} 6.5'W$ , times and heights are direct on Port Houghton Inside, Ak. (945-1798).
3. East of Longitude  $133^{\circ} 6.5'W$ , times and heights are direct on Port Houghton East End, Ak. (945-1817). The tidal characteristics in the area at the east end of Port Houghton are extremely different from those at Port Houghton Inside. If data for Port Houghton East End (945-1817) are not available to cover the times of hydrography in that area, then no tide data are available.

NOTE: Hourly heights for Port Houghton, Port Houghton Inside and Port Houghton East End are tabulated on Greenwich Mean Time.

*William M. Gibson*  
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ACTING CHIEF, DATUMS SECTION

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