



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Office of Ocean and Earth Sciences
Silver Spring, Maryland 20910

ORIGINAL

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: August 18, 1993

MARINE CENTER: Pacific

OPR: 0136

HYDROGRAPHIC SHEET: H-10463

LOCALITY: Approach to Port Houghton, Stephens Passage, Alaska

TIME PERIOD: March 28, 1993 - April 12, 1993

TIDE STATION USED: 945-1785 The Brothers, Alaska
Lat. $57^{\circ} 17.7'N$ Lon. $133^{\circ} 47.8'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = -0.88 feet
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 13.8 feet

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

REMARKS: RECOMMENDED ZONING

1. West of a line between Pt. Hobart and the west end of Robert Island, times and heights are direct on The Brothers, Ak. (945-1785). Data from the back-up gauge at The Brothers (945-1786) is used.
2. East of a line between Pt. Hobart and the west end of Robert Island, times and heights are direct on Port Houghton, Ak. (945-1771).

NOTE: Hourly heights for The Brothers and Port Houghton are tabulated on Greenwich Mean Time.

William M. Helason

ACTING CHIEF, DATUMS SECTION

