



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: January 5, 1994

MARINE CENTER: Pacific

OPR: P180

HYDROGRAPHIC SHEET: H-10491

LOCALITY: NW Corner of Sutwik Island, Shelikof Strait, Alaska

TIME PERIOD: July 29, 1993 - August 9, 1993

TIDE STATION USED: 945-8704 Cape Kumlik (Kumlik Island),  
Alaska

Lat.  $56^{\circ} 38.8'N$  Lon.  $157^{\circ} 25.5'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = -0.88 feet

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 8.7 feet

TIDE STATION USED: 945-8631 Cape Kunmik, Alaska

Lat.  $56^{\circ} 47.5'N$  Lon.  $157^{\circ} 07.5'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = 1.01 feet

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 9.2 feet

REMARKS: RECOMMENDED ZONING

Times are direct and apply a x1.03 range ratio to heights at Cape Kumlik (Kumlik Island), Ak. (945-8704). When data are not available for Cape Kumlik (Kumlik Island), times are direct and apply a x0.96 range ratio to heights at Cape Kunmik, Alaska (945-8631).

NOTES: Hourly heights are tabulated on Greenwich Mean Time. The data for Cape Kumlik (Kumlik Island), Ak. (945-8704) is stored in the back-up gauge file # 945-8705.

*William M. Hudson*  
CHIEF, DATUMS SECTION

J.F.S.





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

ORIGINAL

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: October 28, 1994

MARINE CENTER: Pacific

OPR: P180

HYDROGRAPHIC SHEET: H-10491 (addendum for 1994 survey work)

LOCALITY: NW Corner of Sutwik Island, Shelikof Strait, Alaska

TIME PERIOD: May 27 - June 4, 1994

TIDE STATION USED: 945-8665 West Sutwik Island  
Alaska  
Lat.  $56^{\circ} 32.4'N$  Lon.  $157^{\circ} 19.6'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = 1.40 feet  
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 8.6 feet

TIDE STATION USED: 945-8704 Cape Kumlik (Kumlik Island)  
Alaska  
Lat.  $56^{\circ} 38.8'N$  Lon.  $157^{\circ} 25.5'W$

PLANE OF REFERENCE (MEAN LOWER LOW WATER): = -1.15 feet  
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: = 8.9 feet

REMARKS: RECOMMENDED ZONING

Times are direct and apply a X1.03 range ratio to heights at Cape Kumlik (Kumlik Island), Ak. (945-8704). Where data for Cape Kumlik is not available, use West Sutwik Island, Ak. (945-8665) with times direct, and apply a X1.06 range ratio to the heights.

NOTES: Hourly heights are tabulated on Greenwich Mean Time. The data for Cape Kumlik (Kumlik Island), Ak. (945-8704), and West Sutwik Island, Ak. (945-8665) are stored in the Next Generation Water Level Measurement System temporary files #745-8704 and #745-8665 respectively.

*William M. Gibson*  
CHIEF, DATUMS SECTION

