



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: December 4, 2002

HYDROGRAPHIC BRANCH: Pacific
HYDROGRAPHIC PROJECT: OPR-P182-RA-2002
HYDROGRAPHIC SHEET: H11021

LOCALITY: South of Nakchamik, AK
TIME PERIOD: June 6 - August 1, 2002

TIDE STATION USED: 945-8849 Chankliut Island, AK
Lat. 56° 08.7'N Lon. 158° 06.8'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.368 meters

TIDE STATION USED: 945-9450 Sand Point, AK
Lat. 55° 19.9'N Lon. 160° 30.3'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.985 meters

REMARKS: RECOMMENDED ZONING
Use zone(s) identified as: SWA157, SWA158, SWA159, SWA160, SWA161
& SWA164.

Refer to attachments for zoning information.

Note 1: Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time.

Thomas V. Hero 12/4/02
CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION



Final tide zone node point locations for **OPR-P182-RA-2002, Sheet H11021.**

Format: Tide Station (in recommended order of use)
 Average Time Correction (in minutes)
 Range Correction
 Longitude in decimal degrees (negative value denotes
 Longitude West),
 Latitude in decimal degrees

	Tide Station Order	AVG Time Correction	Range Correction
Zone SWA157	945-8849	-12	1.05
-156.453487 56.083477	945-9450	-6	1.29
-156.535086 56.0872			
-157.095579 56.174362			
-157.463905 56.279948			
-157.70266 56.188715			
-157.561336 56.143358			
-157.172021 56.057531			
-156.607631 55.969471			
-156.573673 55.986595			
-156.453487 56.083477			
Zone SWA158	945-8849	-12	1.02
-157.70266 56.188715	945-9450	-6	1.25
-157.773372 56.161757			
-157.966354 56.106955			
-157.846555 56.074959			
-157.439901 55.971501			
-157.007725 55.891311			
-156.806844 55.86912			
-156.607631 55.969471			
-157.172021 56.057531			
-157.561336 56.143358			
-157.70266 56.188715			
Zone SWA159	945-8849	-12	0.98
-157.966354 56.106955	945-9450	-6	1.21
-158.249691 56.02319			
-157.900613 55.91079			
-157.130644 55.737042			
-157.046414 55.726228			
-156.893291 55.825475			

-156.806844 55.86912
-157.007725 55.891311
-157.439901 55.971501
-157.846555 56.074959
-157.966354 56.106955

Zone SWA160

945-8849	0	0.98
945-9450	0	1.21

-157.966354 56.106955
-158.118958 56.146102
-158.270381 56.179384
-158.352707 56.167654
-158.357095 56.192143
-158.430272 56.19459
-158.477124 56.130876
-158.4259 56.110439
-158.41177 56.075263
-158.249691 56.02319
-157.966354 56.106955

Zone SWA161

945-8849	0	1.02
945-9450	0	1.25

-157.70266 56.188715
-157.872073 56.242919
-158.061374 56.278696
-158.21176 56.28666
-158.447246 56.247319
-158.430272 56.19459
-158.357095 56.192143
-158.352707 56.167654
-158.270381 56.179384
-158.118958 56.146102
-157.966354 56.106955
-157.773372 56.161757
-157.70266 56.188715

Zone SWA164

945-8849	0	1.05
945-9450	0	1.29

-157.463905 56.279948
-157.611337 56.332309
-157.797065 56.397724
-158.001591 56.438608
-158.185932 56.458642
-158.390942 56.516782
-158.451602 56.410008
-158.451315 56.376112
-158.44083 56.343794
-158.482054 56.328704

-158.447246 56.247319
-158.21176 56.28666
-158.061374 56.278696
-157.872073 56.242919
-157.70266 56.188715
-157.463905 56.279948