



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

DATE: January 16, 1997

HYDROGRAPHIC BRANCH: Pacific
HYDROGRAPHIC PROJECT: OPR-P139-RA
HYDROGRAPHIC SHEET: H-10722

LOCALITY: Approaches to Icy Bay, Southwest Prince William
Sound, Alaska

TIME PERIOD: September 19 - 28, 1996

TIDE STATION USED: 945-4777 Chenega Island, Southwest End, AK
Lat. $60^{\circ} 17.2' N$ Lon. $148^{\circ} 07.2' W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 3.300 meters

TIDE STATION USED: 945-4671 Point Helen, Knight Island, AK
Lat. $60^{\circ} 09.2' N$ Lon. $147^{\circ} 46.0' W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 3.240 meters

TIDE STATION USED: 945-4691 Herring Point, Knight Island Passage,
AK
Lat. $60^{\circ} 28.5' N$ Lon. $147^{\circ} 47.5' W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 3.362 meters

TIDE STATION USED: 945-4240 Valdez, AK
Lat. $61^{\circ} 07.5' N$ Lon. $146^{\circ} 21.7' W$
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 3.389 meters

REMARKS: RECOMMENDED ZONING

Use zones identified as: PWS20, PWS31, PWS32, PWS33 & PWS35

Refer to attachment(s) for zoning information.

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


CHIEF, TIDAL ANALYSIS BRANCH



Final tide zone nodal point locations for OPR P139-RA-96.
 Sheet H-10722

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

		Tide Station Order	AVG Time Correction	Range Correction
Zone PWS20				
-148.121387	60.20888	9454777	Direct	Direct
-148.138224	60.236579	9454671	Direct	1.03
-148.213991	60.255044	9454240	Direct	0.97
-148.192103	60.266795			
-148.135913	60.305498			
-147.921026	60.250008			
-147.781279	60.245812			
-147.752622	60.226545			
-147.77381	60.206587			
-147.766071	60.169257			
-147.897377	60.108049			
-147.983011	60.100932			
-147.971537	60.150964			
-148.067509	60.184539			
-148.121387	60.20888			
Zone PWS31				
-148.213991	60.255044	9454777	Direct	0.98
-148.274604	60.242454	9454671	Direct	Direct
-148.320064	60.206362	9454240	Direct	0.95
-148.288442	60.196303			
-148.237061	60.127977			
-148.19547	60.140053			
-148.151694	60.160197			
-148.143275	60.182021			
-148.121387	60.20888			
-148.138224	60.236579			
-148.213991	60.255044			
Zone PWS32				
-148.192103	60.266795	9454777	Direct	0.97
-148.347003	60.308763	9454671	Direct	0.99
-148.474965	60.240775	9454240	Direct	0.94
-148.453077	60.168591			
-148.359804	60.187762			
-148.288442	60.196303			
-148.320064	60.206362			
-148.274604	60.242454			
-148.213991	60.255044			
-148.192103	60.266795			
Zone PWS33				

-148.347003	60.308763	9454777	Direct	0.98
-148.237563	60.386823	9454671	Direct	Direct
-148.094448	60.330586	9454240	Direct	0.95
-148.135913	60.305498			
-148.192103	60.266795			
-148.347003	60.308763			
Zone PWS35				
-148.094448	60.330586	9454777	Direct	1.01
-148.023732	60.350731	9454691	Direct	0.99
-148.00016	60.375912	9454240	Direct	0.98
-147.78401	60.368002			
-147.804609	60.330991			
-147.858271	60.320562			
-147.862937	60.284639			
-147.781279	60.245812			
-147.921026	60.250008			
-148.135913	60.305498			
-148.094448	60.330586			