



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL OCEAN SERVICE  
Office of Ocean and Earth Sciences  
Rockville, Maryland 20852

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**ORIGINAL**

**DATE:** September 12, 1996

**HYDROGRAPHIC BRANCH:** Pacific

**HYDROGRAPHIC PROJECT:** OPR-0136-RA

**HYDROGRAPHIC SHEET:** H-10677

**LOCALITY:** Southwest Entrance to Frederick Sound, Southern Stephens  
Passage, Alaska

**TIME PERIOD:** April 13 - 27, 1996

**TIDE STATION USED:** 945-1497 Saginaw Bay, Frederick Sound, AK  
Lat. 57° 54.2'N Lon. 134° 18.2'W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 3.916 meters

**TIDE STATION USED:** 945-1634 Herring Bay, Frederick Sound, AK  
Lat. 57° 06.8'N Lon. 134° 22.8'W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 3.928 meters

**TIDE STATION USED:** 945-1706 Eliza Bay, Frederick Sound, AK  
Lat. 57° 11.3'N Lon. 134° 17.2'W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 4.039 meters

**TIDE STATION USED:** 945-1781 Cannery Cove, Pybus Bay, AK  
Lat. 57° 18.4'N Lon. 134° 08.0'W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 4.180 meters

**TIDE STATION USED:** 945-1785 The Brothers, Frederick Sound, AK  
Lat. 57° 17.7'N Lon. 133° 47.8'W

**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 4.229 meters



**REMARKS: RECOMMENDED ZONING**

**Zone SEA25** -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.119252	57.247369
-134.12829	57.278526
-134.17461	57.270584
-134.223011	57.18332
-134.002726	57.066095
-133.880569	57.090141
-134.119252	57.247369

Times are direct, and apply a X0.98 range ratio to heights using Cannery Cove, AK (945-1781).

Where data are not available for Cannery Cove, AK, times are direct, and apply a X1.02 range ratio to heights using Eliza Harbor, AK (945-1706).

Where data are not available for Eliza Harbor, AK, times are direct, and apply a X0.97 range ratio to heights using The Brothers, AK (945-1785).

**Zone SEA26** -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.002726	57.066095
-134.024114	57.019638
-134.360263	57.162783
-134.324654	57.262534
-134.282912	57.263669
-134.223011	57.18332
-134.002726	57.066095

Times and heights are direct using Eliza Bay, AK (945-1706).

Where data are not available for Eliza Bay, AK, times are direct, and apply a X1.03 range ratio to heights using Herring Bay, AK (945-1634).

Zone SEA27 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.360263	57.162783
-134.447452	57.108927
-134.264348	56.931486
-134.024114	57.019638
-134.360263	57.162783

Times and heights are direct using Herring Bay, AK (945-1634).

Zone SEA28 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.447452	57.108927
-134.59679	57.045017
-134.618484	57.019714
-134.396964	56.842187
-134.289975	56.764998
-134.045143	56.861149
-134.232275	56.929072
-134.264348	56.931486
-134.447452	57.108927

Times and heights are direct using Saginaw Bay, AK (945-1497).

Zone SEA29 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.59679	57.045017
-134.624682	57.114179
-134.896335	57.090893
-134.396964	56.842187
-134.618484	57.019714
-134.59679	57.045017

Times are direct, and apply a X0.97 range ratio to heights using Saginaw Bay, AK (945-1497).

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Zone SEA30 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.896335	57.090893
-134.738395	56.939853
-134.396964	56.842187
-134.896335	57.090893

Times are direct, and apply a X0.95 range ratio to heights using Saginaw Bay, AK (945-1497).

Zone SEA31 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.396964	56.842187
-134.738395	56.939853
-134.72177	56.878987
-134.39342	56.815866
-134.396964	56.842187

Times are direct, and apply a X0.93 range ratio to heights using Saginaw Bay, AK (945-1497).

Zone SEA32 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.72177	56.878987
-134.835424	56.872957
-134.664971	56.78018
-134.364354	56.743069
-134.39342	56.815866
-134.72177	56.878987

Times are direct, and apply a X0.90 range ratio to heights using Saginaw Bay, AK (945-1497).

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Zone SEA34 -bounded by the polygon points:

LONGITUDE (W)	LATITUDE (N)
-134.024114	57.019638
-134.264348	56.931486
-134.232275	56.929072
-134.045143	56.861149
-134.093297	56.658355
-133.965547	56.58874
-133.927375	56.682342
-133.822005	56.741119
-133.851031	56.780451
-133.690181	56.885704
-134.024114	57.019638

Times are direct, and apply a X1.02 range ratio to heights using Herring Bay, AK (945-1634).

**Note:** Times are tabulated in Greenwich Mean Time.

*William M. Hahn*  
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CHIEF, DATUMS SECTION