

Tide Correctors

Tide correctors for this survey were provided by N/OMA12, based on 1985 data from Black Rock, Walrus Island, Bristol Bay, Alaska (946-5182). These predicted tides proved to be inadequate as evidenced by inconsistencies observed when comparing mainscheme soundings with split and crossline soundings. After analyzing tide data from the Black Rock and Nushagak Peninsula gages, and in order to formulate a more suitable corrector for the survey area, a supplementary gage was installed at Round Island for 7 days and one tide cycle was also measured using the ship's echo sounder while the ship was anchored. The method for obtaining the new zoning is discussed in detail in the Field Tide Note (Appendix II). Soundings on the final field sheet were plotted using the correctors calculated by RAINIER, applied to Black Rock predictions (Table 5).

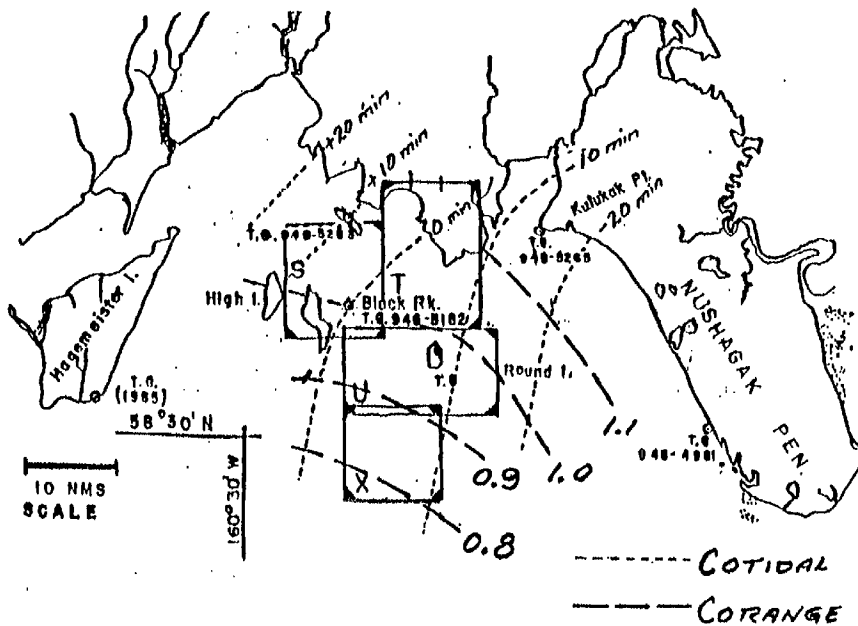
Table 5. Tide Correctors

<u>APPLICABLE AREA</u>	<u>TIME CORRECTOR</u>		<u>HEIGHT RATIO</u>
	<u>High Water</u>	<u>Low Water</u>	
E of 160°14.0'W	00 min	00 min	1.00
W of 160°14.0'W	+07 min	+07 min	1.00

Further details on all aspects of echo sounding corrections are provided in the supplemental Corrections to Echo Soundings Report, OPR-R184-RA-86.

FIELD TIDAL ZONING
BRISTOL AND TOGIAK BAY, ALASKA
 OPR-R184-RA-86

CO-TIDAL CHART



CORRECTORS

HYDROGRAPHIC SHEET	TIME CORRECTION		HEIGHT RATIO
	HIGH WATER	LOW WATER	
X - North of 58/25.5N	- 05 min	- 05 min	x0.88
South of 58/25.5N	- 05 min	- 05 min	x0.82
U - North of 58/38.0N	- 07 min	- 07 min	x0.98
South of 58/38.0N	- 07 min	- 07 min	x0.93
T - East of 159/58.0W	- 08 min	- 08 min	x1.05
West of 159/58.0W	Direct on time		x1.05
S - East of 160/14.0W	Direct on time		x1.00
West of 160/14.0W	+ 07 min	+ 07 min	x1.00

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