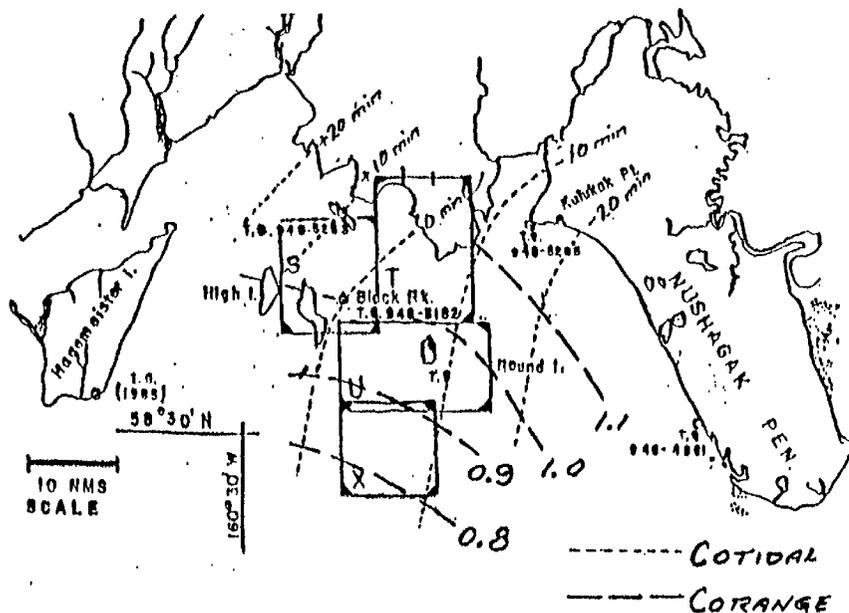


**FIELD TIDAL ZONING**  
**BRISTOL AND TOGIAK BAY, ALASKA**  
 OPR-R184-RA-86

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

by: A. Nicholas Bodnar  
 August 10, 1986

## Tide Corrections

Tide correctors for this survey were provided by N/OMA12, based on 1985 data from Black Rock (946-5182), near the Walrus Islands in Bristol Bay, Alaska. 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, a supplementary gage was installed at Round Island for 7 days and one tide cycle was measured using the ship's echo sounder while the ship was anchored in order to formulate a more suitable corrector for the offshore area. The method for obtaining the new zoning is discussed in detail in the Field Tide Note. Soundings on the Final Field Sheet were plotted using the following correctors applied to Black Rock predictions.

APPLICABLE AREA	TIME CORRECTION		HEIGHT RATIO
	HIGH WATER	LOW WATER	
E of 159/58/00 W	-8 min	-8 min	1.05
W of 159/58/00 W	0 min	0 min	1.05