

Tide Correctors ✓

Tidal zoning and correctors applicable to predicted tides for the Hagemeister, Alaska, reference station (945-5089) were provided in the Project Instructions as amended by change No. 2, dated July 18, 1991, and are shown below:

<u>Zone</u>	<u>Time Correctors</u>	<u>Range Ratio</u>
1. North of 58°41'00"N, and areas north of Asigyukpak and Hagemeister Island spits	+0 hr 10 min	x1.07
2. South of 58°41'00"N	Direct	Direct

HDAPS listings of the data used in generating tide corrector tables are included in Appendix V* of this report.

Tide gages were installed and maintained by RAINIER personnel at Estus Point (946-5429) and at Pyrite Point (946-5123). The control station was re-established at NOAA'S FAIRWEATHER'S 1988 site at the south end of Hagemeister Island (946-5089). Due to large discrepancies between crosslines, adjacent mainscheme lines and prior surveys when plotting soundings with predicted tides, estimated real-time tide data acquired from digital bubblers were applied to semi-smooth sounding plots and FFS during this project.

See EVAL RPT.,

The estimated real-time tides were created by comparing raw digital tidal data from the Estus Point station (946-5123) for Sheet E(N) with predicted tides using LOTUS 1-2-3 graphics. From this comparison a height corrector of -6.0 feet was determined to reduce the raw digital tidal data to MLLW. This tide data was further refined to -5.5 feet for Sheet E(N) by comparing the soundings of Sheet F to its junction with H-10253 (1:20,000, 1987). To ensure adequate comparisons were available to judge the tide corrector, additional sounding lines were run at this junction. Estimated real-time tides using a tidal corrector of -5.5 feet were then applied throughout Sheet E(N). Sheet E(S) correctors are based on the Pyrite Point station (946-5123) real tides compared with the Hagemeister Island station (946-5089) predicted tides. Lotus 1-2-3 comparisons revealed a corrector of -6.0 feet for Sheet E(S).

The station descriptions, field tide records, and Field Tide Notes have been forwarded to N/OMA1212 in accordance with HSG 50 and FPM 4.3. Requests for approved tides have been forwarded to N/OMA12. Copies of the Field Tide Notes and the request for approved tides are included in Appendix V. *