

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. | 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. *Filed with Separates.*

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 survey comparisons when plotting soundings with predicted tides, estimated real-time tide data acquired from

digital bubblers were applied to semi-smooth sounding plots and the FFS during this project.

The estimated real-time tides were created by comparing raw digital tide data from the Pyrite Point station (946-5123) with predicted tides from the Hagemeister, Alaska reference station (946-5089) using LOTUS 1-2-3 graphics. From this comparison of predicted vs. real correctors, a height corrector of -6.0 feet was determined to reduce the raw digital tide data to MLLW. Estimated real-time tides using a tide corrector of -6.0 feet were then applied throughout Sheet D.

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. *