

C.2 ZONING

Tide zones that cover the extent of the survey were derived from tide zone coordinates supplied by NOAA. Each of these tide zones use time and range correctors relative to the Sitka tide station. These are as follows:

| Tide Zone | GS Identifier | Time Corrector | Range Corrector | Reference Station |
|------------------|----------------------|-----------------------|------------------------|--------------------------|
| PAC296 | TA1 | -6 minutes | x1.04 | 9451600 |
| SA227 | TA2 | -12 minutes | x1.06 | 9451600 |
| SA250 | TA3 | -12 minutes | x1.03 | 9451600 |
| SA267 | TA4 | -12 minutes | x1.03 | 9451600 |
| SA250A | TA5 | -12 minutes | x1.02 | 9451600 |

For final tide application, the time and range correctors were applied to the smoothed tidal data provided by JOA. Soundings were then reduced to MLLW using these corrected tides. An analysis of depth benchmark and crossline comparisons, and overlaps of the mainlines of sounding concluded that final tide zoning was adequate.

The derived value for the difference between MLLW and MHW at the Sitka tide gauge is 2.79m. From the final zoning, a range factor of 1.03 was applicable for Sheet G, resulting in a MHW value of 2.874m.