

C.2 ZONING

Tide zones covering the extent of the survey area were derived from tide zone coordinates supplied by NOAA. Each of these tide zones use time and range correctors relative to the King Cove tide station. An additional tide zone, relative to the Sand Point tide station, was established over Popof Strait for the reduction of soundings over the depth benchmark areas. These are as follows:

Tide Zone	GS Identifier	Time Corrector	Range Corrector	Reference Station
SWA218	TA1	0 minutes	x0.97	9459881
SWA219	TA2	+6 minutes	x0.93	9459881
SWA220	TA3	0 minutes	x0.93	9459881
Sand Point	TA4	0 minutes	x1.00	9459450

For final tide application, the time and range correctors were applied to NOAA verified tide data, smoothed by JOA. Soundings were then reduced to MLLW using these final 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 King Cove tide gauge is 1.88m. From the final zoning, a range factor of 0.93 was applicable for Sheet B, resulting in a MHW value of 1.74m.