

6.4 Preliminary Tidal Zoning.

6.4.1 Tide zones were developed by NOAA CO-OPS based on historical data from the above mentioned gauges.

6.5 Tide Zone Accuracy

6.5.1 Results of comparing zone HAW213 (Oahu west coast from Barbers Pt. harbor to Kepuhi Pt. and including Waianae) referenced to NOAA's Honolulu gauge and the installed Waianae gauge are as follows:

| | |
|---------------------|--------------|
| Maximum difference: | 0.35 meters |
| Mean difference: | 0.15 meters |
| Standard Deviation: | 0.179 meters |

6.6 Final Tidal Zoning.

6.6.1 Tidal No adjustment was made to the NOAA CO-OPS zone scheme. Tidal time series from the NAVOCEANO gauges and tidal time series for the appropriate NOAA tide zone agreed very well. No adjustment to the NOAA zones was necessary.

6.7 Application of Tides.

6.7.1 The NAVOCEANO processing system does not utilize “tide correctors”, per se. The NOAA CO-OPS zoning scheme partitioned the survey areas into zones referenced to a reference tide gauge. For each zone there is a phase and amplitude correction, also referenced to the reference tide gauge. NAVOCEANO’s processing system handles tide correction by creating a tide file for each zone by applying zonal corrections to the reference gauge tides. The processing software identifies in which zone a sounding falls and applies that zone’s tide to the sounding. Tide correctors are applied during post processing, just prior to data editing and validation.