

C. VERTICAL AND HORIZONTAL CONTROL

C.1. Vertical control

Sounding data were tide adjusted with verified tide observations from station number 8423898, Fort Point, NH procured from the NOAA CO-OPS website. The parameters selected for the tidal data were: W1 time interval of 6 minutes, heights in meters, MLLW datum, for the period including June 1st to the 10th and June 20th to the 21st of 2005. The digital files are attached.

The tidal zoning for this survey was adjusted to Fort Point station applying a time corrector of -6 minutes and a range corrector of x1.00. These values were supplied by the Tide Service NOAA. The tide corrections were applied during post processing with Caris HIPS.

C.2. Horizontal control

The horizontal datum used for this survey was the World Geodetic System 1984 (WGS 84). Determination of both position and attitude of the RV Coastal Surveyor was achieved with the Applanix POS MV V4. The system is a combination of two kinematic GPS receivers and an inertial motion sensor.

Differential corrections for the GPS receivers were obtained by a C-Nav 2000 DGPS receiver from a satellite sending DGPS corrections specifically for hydrographic purposes.