

C. VERTICAL AND HORIZONTAL CONTROL

VERTICAL CONTROL

The tidal datum for this project is Mean Lower Low Water (MLLW). The operating tide station at Fort Point, NH (8423898) was used for datum determination and all water level correctors. A second tide gauge was installed as a backup for data outages at the Fort Point gauge. There were no data outages in the Fort Point gauge during data acquisition. Zoning was provided by CO-OPS to UNH for data acquisition in this area.

Tidal zoning for this survey (ShallowWater08_ZoningCORP.zdf) is consistent with the zoning provided by CO-OPS on June 12, 2007 via e-mail. The zones used for this survey are:

STATION	CORRECTOR (min)	RATIO	REFERENCE
NA168	-6	x1.01	842-3898
NA169	-6	x1.00	842-3898
PIS1	0	X1.00	842-3898

Table 3: Tide zone regions used for this survey

A Request for Approved Tides letter was not sent for this survey

HORIZONTAL CONTROL

The horizontal datum used for this survey was NAD83 projected using UTM zone 19 North. Sounding positional control was determined using the Global Positioning System (GPS) corrected by an RTK base station on land located at the Seacoast Science Center at Odiorne Point, New Hampshire.

Horizontal dilution of precision (HDOP) was monitored daily in SIS and POS View. That value exceeded 2.5 in the SIS software three times on Dn163. Data acquisition ceased if the HDOP spike lasted longer than three seconds. The HDOP value in SIS was more than two times higher than the POS View software.