

C. VERTICAL AND HORIZONTAL CONTROL

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water (MLLW). The National Water Level Observation Network (NWLON) station at Pensacola, FL (872-9840) served as datum control for Survey H12157.

The survey area is located within Zones CGM8 and CGM29 as provided in the preliminary tidal zoning scheme included with the project SOW CD.

OSI home office and field personnel monitored preliminary tide data available on the NOAA CO-OPS website. The NOAA Pensacola (872-9840) gauge experienced multiple small preliminary tide gaps that frequently occurred outside of periods of data acquisition and/or were less than one hour in length. A multi-day preliminary tide gap occurred between December 19 and 22, 2009 (DNs 353 and 356). This gap was filled by CO-OPS prior to issuance of verified tide data and is described in Section B.2.5.

Tide data were highly susceptible to local meteorological conditions. Observed tide values deviated from predicted tide values by up to 0.4 meters throughout the survey (Figure 13).

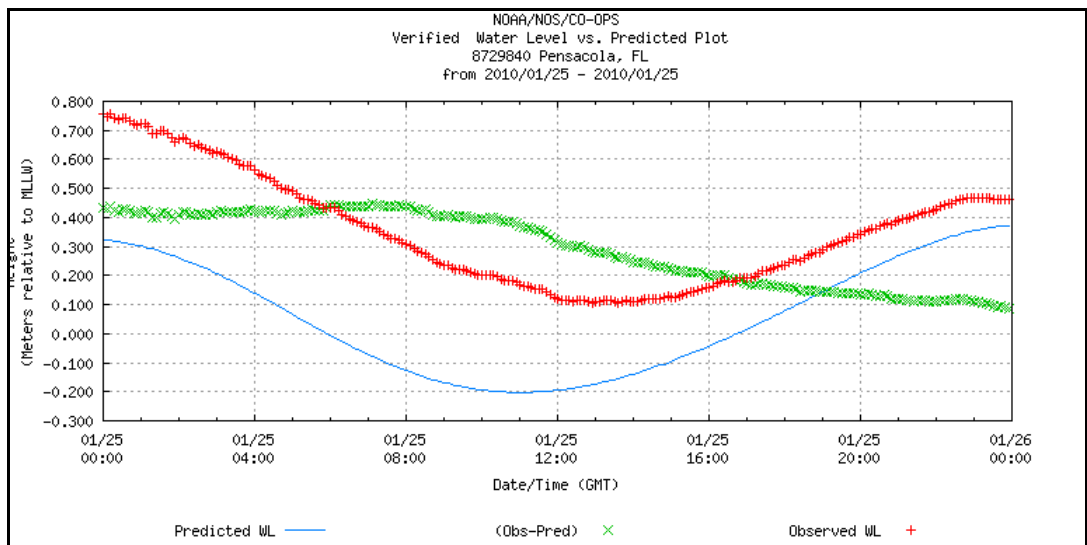


Figure 13. Deviation of the verified tide from the predicted tide due to local meteorological conditions, January 25, 2010 (DN 025).

Verified tides and zoning were applied during field operations.