

SATURN-01 Turbidity Calibration Evaluation (4/13/08 – 6/15/12)

The WETLabs FLNTU sensors are factory calibrated against a formazine solution. The same FLNTU sensor was deployed intermittently at SATURN-01 from early 2008 until July 2012. The sensor was returned to the manufacturer and re-calibrated in January 2013. Comparison of the 2008 and 2013 calibration coefficients show that the calibration was stable and there was relatively little change in sensor response over the more than 4 years of deployment. The shift in calibration shows that during the end of its original deployments the sensor was reading slightly high (~ 5%), which translates to less than a 1 ntu difference at the most common turbidity levels. The calculated turbidity for both calibrations across a range of sensor responses are shown in the data and figure below. No correction has been applied to the data.

