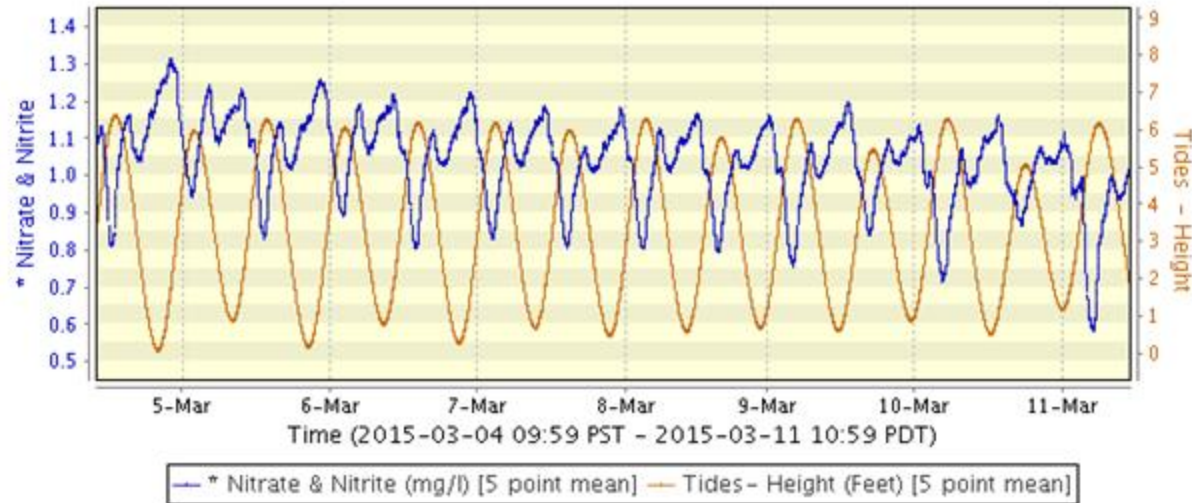


Nitrate Variations Driven by Tides



Riverine Nitrate Maxima

This screenshot is from the web-user interface of a LiquID™ Station sampling a coastal river estuary. The estuary is impacted by nitrate introduced with fecal matter from dairy farms upstream. The sinusoidal curve (gold) are tidal depths extracted from the NOAA web site (<http://co-ops.nos.noaa.gov/>). Nitrate maxima occur at low tides driven by high riverine levels while nitrate minima occur at high tides driven by lower concentrations in the adjacent bay. The lowest nitrate levels are consistent with those measured in another estuary down the coast from this location (Sigleo et al., Estuarine, Coastal Shelf Science, 2005, 64, 211-222).