STAC Monitoring Subcommittee

Proposed Monitoring Strategy

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APNEP-STAC Monitoring Workshop
North Carolina Department of Environmental Quality
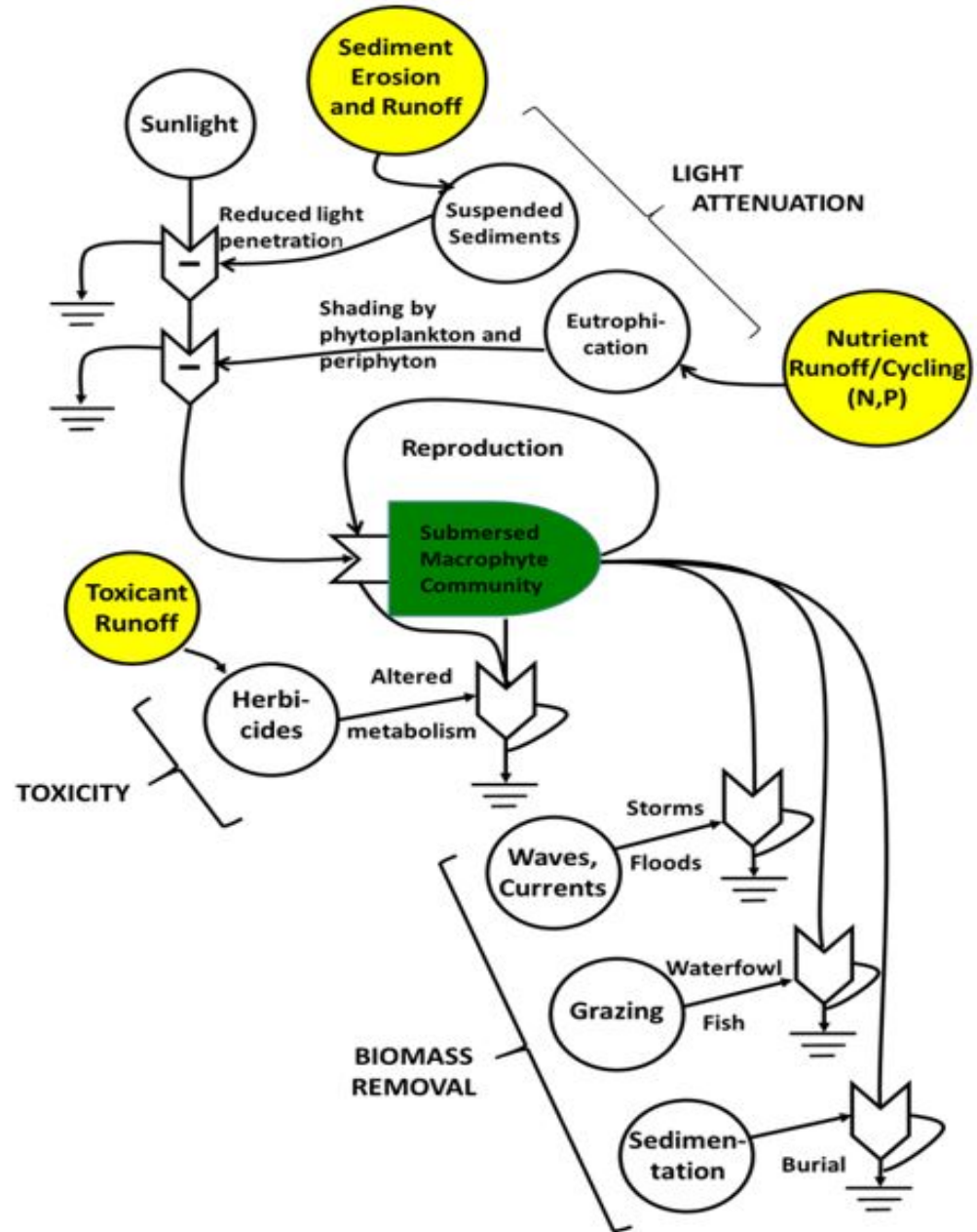**Raleigh, North Carolina**
30 January 2020

Assessment Focus Questions

- How are the extent, composition, and cover class of native and non-native SAV in estuarine waters changing?

- *Alternate: How is SAV condition in estuarine waters changing?*

- Are estuarine water quality conditions suitable to sustain the ecosystem services provided by SAV species?

One simple SAV Conceptual Model used to select water quality parameters

Light attenuation, toxicity, and biomass removal are three general stressors which can be influenced by other specific factors (from Davis and Brinson 1980)

APNEP Focus Indicators and Metrics

- SAV
    - Extent by cover class
    - Deepwater edge (high salinity only)
    - Species composition
- Water Clarity (Secchi, turbidity)
    - Eutrophication (chlorophyll-a, total nitrogen + total phosphorus concentrations)
    - Suspended sediments (total suspended solids)
- Abiotic (temperature, salinity, dissolved oxygen, pH)