

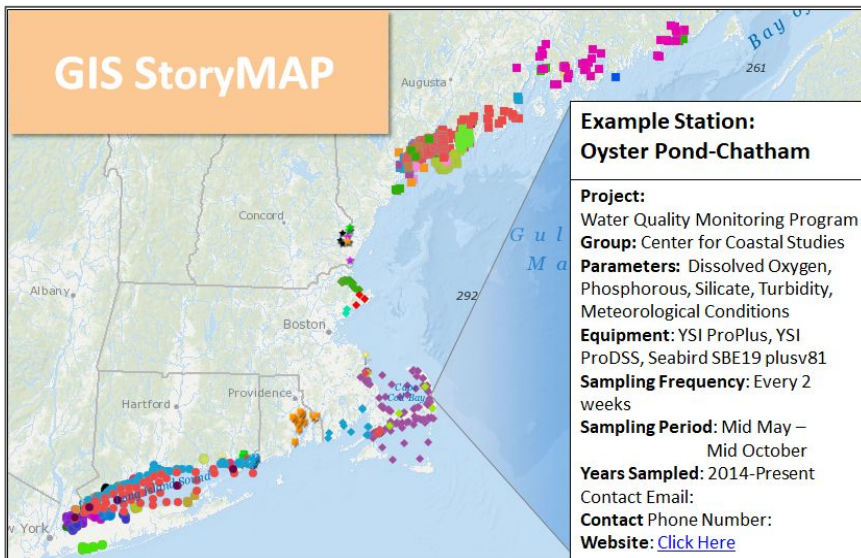


Monitoring Blitz for Coastal Acidification

Greetings all,

In 2018, a workshop series for coastal acidification highlighted the role of water quality monitoring in understanding regional patterns of acidification and local levels of risk. Many participating organizations expressed interest in becoming more involved with coastal acidification research and regional approaches toward monitoring climate change. This letter proposes an initiative for a single day coastal acidification monitoring blitz, Shell Day, on August 22, 2019.

Because coastal acidification is influenced by local factors, monitoring can, over time, provide actionable information for watershed management, and strategic habitat protection and restoration aimed to improve local resilience to acidification.



GIS Story Map from 2018 Northeast Coastal Acidification Workshop Series. This product aims to convene regional observations for water quality and coastal acidification research. The map will be made publicly available in Spring, 2019.

Coastal Acidification Research Considers:

- ⇒ the role of eutrophication in causing short term coastal acidification events linked with hypoxia;
- ⇒ the influence of low alkalinity river and groundwater and of precipitation events that reduce the buffering capacity of a marine environment to resist acidification;
- ⇒ the influence of tidal chemistry and the balance of photosynthesis and respiration on pH and alkalinity in estuaries and embayments.

Stewardship and research organizations support hundreds of coastal monitoring stations throughout the Northeast. Therefore, water quality measurements can help to reveal how certain coastal locations are most vulnerable to acidification, the extent to which local drivers exacerbate acidification, and the degree to which local management and stewardship can protect our ecosystems from those stressors.

Join us in planning **SHELL DAY**, a coastal acidification monitoring blitz event, for **August 22, 2019**

