DRAFT STAC Workshop Proposal

A two-day workshop, to be held early the Fall of 2017, for the purposes of:

1) assessing the state of the knowledge on how anticipated changes in weather patterns and extreme events may affect urban, agriculture, and coastal Best Management Practice (BMP) performance, over time;

2) compiling siting and design guidelines to reduce the future impact of sea level rise, coastal storms, increased temperature and extreme events on BMPs; and,

3) recommending monitoring, and reporting procedures that could be used or put into place to inform future targeting of BMPs and to gather new information that could improve WIP planning, development, and implementation.

DRAFT Research Questions

- What are the general principles of BMP siting and design to reduce the vulnerability of urban, agriculture, and coastal BMP's to future impacts of sea level rise, coastal storms, increased temperature, and extreme events?
- What suite of BMPs are most robust (e.g., mitigate the anticipated increased nitrogen, phosphorus, and sediment loads) to anticipated changes in weather patterns and extreme events?
- How flexible or adaptable are BMPs to anticipated changes in weather patterns and extreme events and what types of adjustments (e.g., retrofits) in BMP design to maintain their structural integrity?
- How can jurisdictions use this information to re-prioritize the selection and implementation of BMPs that will better mitigate changes in nitrogen, phosphorus, and sediment loads due to changing weather patterns and extreme events?
- What procedures (e.g., monitoring and local feedback on performance) could be used or put into place to inform future targeting of BMPs and to gather new information that could improve WIP planning, development, and implementation?