

Milestones and Achievements 2017

Bryan Milstead

12 Dec 2016 - 30 Sep 2017

Overall Rating:

CE 1 - Program Planning:

Rating:

- Participate in ORD, AED, and MAB meetings and planning sessions
 - Details unknown (Target Date: Q2-Q4)
- Participate in planning and refinements for SSWR 4.01C Cyanobacterial research (Target Date: Q2-Q4)
 - Design the lakes database: work with colleagues to define what the database will include, how it will be stored, and what features it will include. (Target Date: Q3)
 - Assist in the development of a research plan for the twice-weekly monitoring of RI lakes (Target Date: Q3)

CE 2 - Program Implementation:

Rating:

- Participate in implementation of SSWR 4.01C Cyanobacterial research
 - Develop a relational database of all lakes in the coterminous United States for use in cyanobacteria monitoring and research.
 - * Database Development: develop and populate the lakes database (Target Date: Q4)
 - * Document the Database: write draft of basic metadata for the database. (Target Date: Q4)
 - * Data Paper: begin drafting a publishable data paper describing the database features and how to access it. (Target Date: Q4)
 - Bloom modeling for SSWR 4.01c. Assist with the analysis of the NLA 2007 phytoplankton and cyano toxin database.
 - * Organize NLA data and convert to an R database (Target Date: Q2)
 - * Analyze data using standard Ordination techniques (Target Date: Q3)
 - * Prepare abstract for a presentation at the 2017 ESA meeting in Portland (Target Date: Q2)
 - Participate in proposed twice-weekly monitoring of cyanobacteria in Rhode Island Lakes
 - * Field work as required (Target Date: Q3-Q4)
 - * Help with database development and analysis (Target Date: Q3-Q4)
 - * If possible, become trained in the collection, identification, and quantification of phytoplankton (Target Date: Q3-Q4)
- Provide technical assistance to the Cyanobacteria Monitoring Collaborative
 - Assist with the implementation of the “cyanoScope” project
 - * Participate in ongoing identification of submitted photos (Target Date: Q2-Q4)
 - * Help with training and analysis as needed (Target Date: Q3-Q4)
 - Attend quarterly meeting of the CMC in Chelmsford (Target Date: Q2-Q4)
 - Work with the CMC to document and archive data for 2015 & 2016 (Target Date: Q2-Q4)
 - Manage data collection for 2017 (Target Date: Q4)
 - Assist with the analysis of 2015 & 2016 data (Target Date: Q2-Q4)

CE3 - Technical and Scientific Communication:

Rating:

- Present paper on the bloom modeling work at the Ecological Society of America meeting in Portland OR, August 6-11, 2017. (Target Date: Q4)
- Considering submitting an abstract based on the CMC work the 2017 (November) Harmful Algal Blooms Symposium in Baltimore (Target Date: Q3-Q4)
- Draft data paper on lakes database for cyanobacteria research (Target Date: Q4)
- Draft manuscript for publication on the bloom modeling work (Target Date: Q4)

CE 4 - Resource Management:

Rating:

- As needed, assist in budgeting for and procurement of equipment and services for SSWR 4.01C (Target date: Q2-Q4)

CE 5 - Professional Interactions and Teamwork:

Rating:

- Forge new collaborations with URI and other academic institutions (Target date: Q2-Q4)
- Tentative: collaborate with the USGS to use the East Coast (combined MRB1 & MRB2) SPARROW model to analyze CMAQ scenarios (Target date: Q2-Q4)
- Questionable: collaborate with NSF project in Chile to collate, document, and archive data from a 30 year field ecology project (Target date: Q2-Q4)