Milestones and Achievements 2019

Bryan Milstead

1 Oct 2018 - 30 Sep 2019

### Overall Rating

### CE 1 - Program Planning

* Participate in ORD, AED, and MAB meetings and planning sessions
  + Midterm Pars: **ongoing**
* Participate in planning and refinements for SSWR 4.01C Cyanobacterial research (Target Date: Q1-Q4).
  + Midterm Pars: **ongoing**

### CE 2 - Program Implementation

* Participate in implementation of SSWR 4.01C Cyanobacterial research
  + Assist with modeling of lake photic zone temperatures
    - Develop models to predict lake photic zone temperature from local weather (Target Date: Q1-Q4).
    - Midterm Pars: **data and draft model complete; MS in prep**
    - Participate in the analysis of changes in lake photic zone temperatures over time
    - Midterm Pars: **ongoing**
    - Assemble a historical database of lake photic zone temperatures and local weather (Target Date: Q1-Q4).
    - Midterm Pars: **ongoing**
    - Backcast and analyze historical changes in lake photic zone temperatures
    - Midterm Pars: **ongoing**
    - Participate in twice-weekly monitoring of cyanobacteria in Rhode Island Lakes (Target Date: Q3 & Q4).
    - Midterm Pars: **starting soon**
* Provide technical assistance to the Cyanobacteria Monitoring Collaborative
  + Assist with the implementation of the “cyanoScope” project
    - Participate in ongoing identification of sumitted photos (Target Date: Q1-Q4).
      * Midterm Pars: **ongoing**
    - Attend quarterly meeting of the CMC in Chelmsford (Target Date: Q1-Q4).
      * Midterm Pars: **ongoing**
  + Work with the CMC to document and archive data for 2017 & 2018 (Target Date: Q1-Q4).
    - Midterm Pars: **ongoing**
  + Manage data collection for 2019 (Target Date: Q4).  
    - Midterm Pars: **Q4**
  + Assist with the analysis of data as needed (Target Date: Q1-Q4).
    - Midterm Pars: **ongoing**
  + Develop methods to improve data collection with the hand-held fluorometers (Target Date: Q1-Q3).
    - Midterm Pars: **stalled**

### CE3 - Technical and Scientific Communication

* Present paper at scientific meeting (possible Freshwater Science) on cyanoscope or temperature modeling (Target Date: Q1-Q4).
  + Midterm Pars: **cancelled**
* Coauthor paper on methods to predict lake photic zone temperatures
  + Midterm Pars: **ongoing**
* Coauthor paper on historical changes in lake photic zone temperatures
  + Midterm Pars: **preliminary analysis stage**

### CE 4 - Resource Management

* As needed, assist in budgeting for and procurement of equipment and services for SSWR 4.01C (Target date: Q1-Q4).
  + Midterm Pars: **ongoing**

### CE 5 - Professional Interactions and Teamwork

* Recruit new people to add photos and identifications for cyanoScope (Target date: Q1-Q4).
  + Midterm Pars: **ongoing**
* Forge new collaborations with URI and other academic institutions (Target date: Q1-Q4).
  + Midterm Pars: **ongoing**
* Collaborate with NSF project in Chile to collate, document, and archive data from a 30 year field ecology project (Target date: Q1-Q4).
  + Midterm Pars: **ongoing**
* Participate on the AED Awards Board: serve as an MAB member to the board. Target date: Q1-Q4).
  + Midterm Pars: **ongoing**
* Extra Stuff
  + Casco Bay Sparrow model work for Matt Liebman in Region 1
  + Midterm Pars: **completed**
  + Housatonic Sparrow model prediction for Robin Johnson in Region 1
  + Midterm Pars: **completed**