

NORTH ATLANTIC LANDSCAPE CONSERVATION COOPERATIVE GRANT 2015 PROGRESS REPORT

Quarter: (circle one) 2015 1st 2015 2nd 2015 3rd 2015 4th

Grant Program, Number and Title: NALCC 2012-06: F11AC00223 MOD #3 NALCC 1420
Spatially explicit models for aquatic habitats

Organization: Downstream Strategies, LLC

Project Leader: John (Fritz) Boettner

Abstract: After the scope of work was modified—refer to Q1 2015 report—the project team has completed the revised scope of work, which includes:

1. Complete Chesapeake Bay brook trout model climate change scenarios. Supplementing the existing model with new climate change scenarios.
2. Complete winter flounder case study for Narragansett Bay. Ongoing effort, the focus for this model is to develop useful products for winter flounder managers, but also to create a framework that could be applied to other coastal or estuarine species.
3. Winter flounder model for Long Island Sound. Using the framework developed for the Narragansett Bay, DS will apply this approach and develop a Long Island Sound winter flounder model.
4. The plan was to develop a diadromous species framework for river herring. This effort was to build from the TNC assessment, which compiled and analyzed river herring data for the Atlantic coast. However, as mentioned in the previous report, the diadromous modeling task has encountered data limitations that will not allow a predictive model to be created to assess habitat. A decision was made by the technical review team to integrate Erik Martin's (TNC) River Herring Assessment data into the decision support tool.
5. All of the results produced in these efforts will be incorporated into a web-based decision support tool.

The project was completed this quarter, meeting the revised scope of work as agreed.

Were planned goals/objectives achieved last quarter?

Planned goals for Q3 2015 include:

1. **Final brook trout technical report** – Final technical and summary report was submitted.
2. **Geodatabase of all data and brook trout model results** – Complete, uploaded to decision support tool.
3. **Nar. Bay winter flounder model technical report** –Final report submitted.
4. **Geodatabase of all data and winter flounder model results** – Complete, uploaded to decision support tool.
5. **Long Island Sound (LIS) winter flounder model technical report** – Final report submitted.
6. **Geodatabase of all data and LIS winter flounder model results** – Complete and uploaded to decision support tool.

Progress Achieved: (For each Goal/Objective, list Planned and Actual Accomplishments)

- **Task 1: Inland model (Chesapeake Bay watershed brook trout model)**
 - Planned: Final model and report
 - Achieved: Final model and report, including summary report
- **Task 2. Narragansett Bay winter flounder model**
 - Planned: Final model and report
 - Achieved: Final model and report
- **Task 3: Long Island Sound winter flounder model**
 - Planned: Final model and report
 - Achieved: Final model and report
- **Task 4. Diadromous species case study**
 - Planned: Final model and report
 - Achieved: No models or reports will be developed. TNC River Herring Assessment data is integrated into the decision support tool.
- **Task 5. Decision support tool**
 - Planned: Complete data upload and functionality
 - Achieved: Data uploaded and functionality provided. However, based on other factors unrelated to this project, the tool is hosted here: www.fishhabitatool.org, however the tool will eventually be hosted by the Environmental Conservation Online System (<http://ecos.fws.gov/ecp/>). Rollout of the tool will be ongoing by DS.

Difficulties Encountered:

N/A

Activities Anticipated Next Quarter:

N/A

Expected End Date: Q3 2015

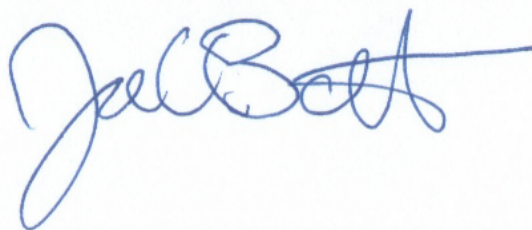
Costs:

Total life to date expenses (include this quarter): \$249,952.67

Total Approved Budgeted Funds: \$250,000

Are you within the approved budget plan and categories? YES

Signature:



Date: 11/1/2015