

Needs for Enhancing Usefulness and Delivery of North Atlantic LCC Supported Tools and Products - 2017

Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate Funding Needs
Update and extend the functionality of <i>Nature's Network</i> in response to partner and user feedback and needs	<i>Nature's Network</i> is one of the premier products of the North Atlantic LCC partnership to enhance coordinated conservation planning and implementation	Version 1.0 is about to be publicly released, and modest support to maintain and update products will leverage years of investment--technical team identified needs for Version 2.0	Incorporate new regional analyses such as TNC Marsh Resiliency analysis, revised list of regional SGCNs, and update underlying datasets and tools	\$100,000
Continue/expand science delivery capacity in response to partner and steering committee requests	Partners have requested hands-on training focused on applications of science to real user-defined decision scenarios	Potential users of <i>Nature's Network</i> and other science products need training and guidance from trainers with unique expertise.	Support capacity to develop case studies and related training materials, deliver training, and provide technical assistance	\$100,000
Extend the functionality of the decision support tools of the North Atlantic Aquatic Connectivity Collaborative (NAACC) in response to partner and user feedback and needs	Enhance the ability to use NAACC tools to make decisions about where to upgrade or remove culverts and other barriers to benefit aquatic passage and reduce risks to infrastructure from floods.	Regional database and aquatic passability tools are in place. New work would build upon substantial investment by the North Atlantic LCC and other partners that has led to an active NAACC community.	Enhance and finalize components addressing 1) culvert condition, 2) passability of tidal barriers, 3) terrestrial passability, 4) dam assessment module, and 5) culvert risk of failure	1) \$26,000 2) \$27,000 3) \$28,000 4) \$22,000 5) \$18,000

Topic	Relevance to Conservation Decisions	Status and Relation to Other Work	Potential Project Type	Approximate Funding Needs
Decision Support for Hurricane Sandy Restoration and Future Conservation to Increase Resiliency of Tidal Wetland Habitats and Species in the Face of Storms and Sea Level Rise	Identifying potential areas for upslope marsh migration and marsh sustainability, which can be used for resiliency planning and restoration site identification. This work will directly support resiliency planning and restoration designs for Assateague National Seashore; Maryland State Parks; and Chincoteague, Forsythe, Chafee, and Parker River NWRs (and surrounding lands).	Currently funded through NALCC Hurricane Sandy Funds. Further integrates NALCC and Refuge level data and planning, in addition to landscape scale resiliency planning. Continuation of the project will support hydrology design work, resiliency planning, and hydrologic metrics identified as needs for ongoing projects.	Integrates regional and local scale resiliency needs, into mapping of suitable areas for marsh migration at different sea-level rise scenarios. Represents the most detailed modeling of tidal wetland response to sea-level rise currently available. Results can be easily served to partners for integration into planning and design.	\$135,000
Enhance the functionality of the Interactive Catchment Explorer tool for assessing streams, based on user feedback	Enhancements to the tool would help users better understand the potential to ameliorate effects of development and climate change on stream temperature and brook trout occurrence	With significant support from the North Atlantic LCC, as well as others, the current version of the tool and stream temperature database are being used by a number of partners. Proposed enhancements would increase the usefulness of the tool.	Integrate a new modeling and scenario tool into the package that would allow users to better prioritize protection and restoration work to benefit cold water habitat for aquatic species like brook trout.	\$20,000 - \$60,000 (several options to accomplish tasks)
Update the Northeast Terrestrial Habitat map	This dataset is a fundamental component of many conservation planning tools including <i>Nature's Network</i>	Leverages long-term work by the Northeast states and North Atlantic LCC	Unify the TNC map including Atlantic Canada with enhancements developed by UMass	\$30,000 (simple update)