

## Summary Status of Aquatic Science Needs of North Atlantic LCC – 2012-2013

Year	Topic	Relevance	Technical Committee Recommendation	Steering Committee Decision	Status
2013	Stream connectivity and barriers	Needed to prioritize aquatic upgrades for stream connectivity and flood mitigation	Recommended for funding 2013	Approved \$150,000	Project initiated + \$1.27 million Hurricane Sandy (UMass Amherst and partners)
2013	Compilation of aquatic biological data	Needed for assessing habitats and threats for high priority aquatic species	Recommended for funding 2013	Approved \$25,000	Not yet allocated
2013	Stream flow and temperature	Needed for understanding capacity for streams to support aquatic life	Recommended for funding 2013		LCC staff requested additional topic development work. Related LCC and CSC projects underway
2013	Improve mapping of developed land classes	Improve understanding of human impacts on aquatic and terrestrial systems	Deferred		
2012	Species-habitat assessment for aquatic and coastal species	Assess vulnerability and identify priority areas for conservation action for aquatic species (combined aquatic and coastal need)	Recommended for funding 2012 (joint with Coastal subteam)	Approved \$250,000	Project in progress (Downstream Strategies and partners)
2012	Revise Northeast aquatic classification system	Foundation for regional conservation assessment and management	Recommended for funding 2012	Approved \$25,000	Project in progress (TNC and partners)
2012	Identify aquatic representative species	Focus for biological planning and conservation design	Recommended for funding 2012	Up to \$20,000, if needed	Incorporated, at least in part, into Downstream Strategies project
2012	Standardization of aquatic sampling and monitoring	Improve aquatic baseline information for conservation	Deferred		
2012	Quantify and describe ecological flows	Useful in setting standards to protect aquatic life	Deferred		

See terrestrial table for *Designing Sustainable Landscapes*; this project has terrestrial, wetland, aquatic, and coastal components.

## Summary Status of Coastal and Marine Science Needs of North Atlantic LCC – 2012-2013

Year	Topic	Relevance	Technical Committee Recommendation	Steering Committee Decision	Status
2013	Tidal wetland habitat suitability	Needed for restoration and management decisions	Recommended need; suggested LCC funding contingent upon Hurricane Sandy resilience funding decisions	Need accepted; LCC funding contingent upon Hurricane Sandy decisions	Two LCC-led Hurricane Sandy proposals approved by DOI: tidal marsh resiliency (\$2.2 million) and beach resiliency (\$1.75 million)
2013	Wetland restoration projects for resiliency	Ensure effectiveness of coastal wetland restoration			
2013	Natural systems' response to Hurricane Sandy	Reduce risk to ecosystems and human communities from storm flooding			
2012	Species-habitat assessment for aquatic and coastal species	Assess vulnerability and identify priority areas for conservation action for aquatic species (combined aquatic and coastal need)	Recommended for funding 2012 (joint with Aquatic subteam)	Approved \$250,000	Project in progress (Downstream Strategies and partners)
2012	Consistent coastal regional mapping	Important foundation for decision support tools and conservation designs	Recommended for funding 2012	Approved \$75,000	Completed: project to update coastal sections of National Wetlands Inventory
2012	Saltmarsh restoration techniques for sea level rise	Improve effectiveness of salt marsh restoration	Recommended for funding 2012	Approved \$175,000	Unsuccessful RFP; addressed by 2013 marsh resiliency project
2012	Sea level rise effects on marsh species	Improve decisions to ensure viability of salt marsh species	Deferred		(addressed through 2013 coastal project)
2012	Inventory and assessment of marine invasives	Understand threats from invasive species	Deferred		

See terrestrial table for *Designing Sustainable Landscapes*; this project has terrestrial, wetland, aquatic, and coastal components.

## Summary Status of Terrestrial and Wetland Science Needs of North Atlantic LCC – 2012-2013

Year	Topic	Relevance	Technical Committee Recommendation	Steering Committee Decision	Status
2013	Vernal pool mapping and monitoring	Needed to advance conservation of vernal pool dependent amphibians and other wildlife	Recommended for funding 2013	Approved \$100,000	Project in progress (Vermont Center for Ecostudies and partners)
2013	Migratory landbird stopover habitat	Needed to identify high priority areas for conservation of birds during migration	Recommended for funding 2013	Approved \$75,000	Project in progress (U. of Delaware and partners)
2013	Designing Sustainable Landscapes, phase 2 (cont.)	Comprehensive project of data and tools for regional conservation design efforts (also includes aquatic, coastal components)	Recommended for continued funding in 2013	Approved \$467,000	Project in progress (UMass Amherst and partners)
2013	Regional dataset of forest and condition	Needed for assessing capacity of landscape to support wildlife populations	Recommended for funding 2013	Approved \$25,000	Datasets acquired without cost (U. of Maryland)
2012	Designing Sustainable Landscapes, phase 2	Comprehensive project of data and tools for regional conservation design efforts (also includes aquatic, coastal components)	Recommended for funding 2012	Approved \$406,000	Project in progress (UMass Amherst and partners)
2012	Extend consistent land cover mapping to Canada	Foundational need for cross-border conservation planning	Recommended for funding 2012	Approved \$95,000	Project in progress (TNC and partners); co-funded with NE CSC
2012	Vernal pool mapping and monitoring	Needed to advance conservation of vernal pool dependent amphibians and other wildlife	Deferred		(approved 2013 science need)
2012	Improve characterization of forest structure and condition	Needed for assessing capacity of landscape to support wildlife populations	Deferred		(approved 2013 science need)