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

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| **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 milliion 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**

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| **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 resilience | 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**

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| **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) |