Part I: Projects in Progress

Project (and lead P.I.)	Status	Summary and recent developments	Cost
		Coastal and Marine Projects	
Forecast effects of sea-level rise on the habitat of Piping Plovers and identify conservation strategies Sarah Karpanty, Virginia Tech	Final report in preparation	Modeling relationship between sea level rise, beaches and habitat for Piping Plover to guide management decisions. Through Hurricane Sandy Resiliency project, work is being extended across Northeast.	\$204,000
Marine bird mapping and assessment Beth Gardner, NC State U.	Final report in review / revision	Created comprehensive maps of annual and seasonal distributions for 24 marine bird species in the North Atlantic.	\$145,000
Resiliency of tidal wetland habitats and species Andrew Milliken, USFWS, LCC and CSC Team	Initiated in 2014	A coordinated effort by LCC partners to guide decisions about where to conduct tidal marsh restoration, conservation and management in the face of storm impacts, sea level rise and other stressors.	\$2,200,000 (Sandy funding)
Resiliency of beach habitats and beach-dependent species <i>Andrew Milliken, USFWS, LCC</i> <i>and CSC Team</i>	Initiated in 2014	A coordinated effort by LCC partners to guide decisions about where to conduct what beach restoration, management and conservation actions in the face of storm impacts and sea level rise.	\$1,750,000 (Sandy funding)
		Aquatic Projects	
Forecasting changes in aquatic systems: decision-support tools for conservation <i>Ben Letcher, USGS</i>	Ongoing	Project to understand the impacts of climate change on stream flow, temperature and aquatic systems with an initial emphasis on brook trout. Linked to NE Climate Science Center-supported projects on regional stream temperatures.	\$420,000
Forecasting changes in aquatic systems: Phase 2 <i>Ben Letcher, USGS</i>	To be initiated Fall 2014		
Refine Northeast aquatic classification system <i>Arlene</i> <i>Oliviero, TNC</i>	Ongoing	Modifying the Northeast Aquatic Classification and map to include tidal influences on rivers and streams and to classify lakes	\$25,000
Restoring aquatic connectivity while increasing resiliency for road stream crossings to floods <i>Scott Jackson, UMass Amherst</i>	Initiated in 2014	Identify and assemble existing data on stream crossings, develop a database and online mapping application of road stream crossings, prioritize additional surveys of stream crossings, recommend field survey protocols, and sponsor further mapping and surveys.	\$150,000 (NALCC funding) + \$1,270,000 (Sandy funding)

Project (and lead P.I.)	Status	Summary and recent developments	Cost
		Terrestrial Projects	
Permeable landscapes for wildlife <i>Mark Anderson, TNC</i>	Ongoing	Modeling and mapping regional permeability (connectivity) of habitats for wildlife species. Products will include regionally important movement concentrations.	\$49,868
Extend Northeast habitat classification and map to Atlantic Canada <i>Mark Anderson, TNC</i>	Ongoing	Extension of the Northeast Terrestrial Habitat Classification and Map into the North Atlantic LCC portion of Canada (New Brunswick, Nova Scotia, PEI, Southern Quebec). Co-sponsored by Northeast Climate Science Center.	\$95,238
Priority Amphibian and Reptile Conservation Areas (PARCAs) <i>Priya Nanjappa, AFWA</i>	Ongoing	Identification of Priority Amphibian and Reptile Conservation Areas through mapping and modeling of amphibians and reptiles and the impacts of climate change.	\$315,944
Identifying important migratory landbird stopover sites <i>Jeffrey Buler, University of</i> <i>Delaware</i>	Ongoing	Improved models and mapping of important fall migration stopover sites, using radar weather data and field surveys. Work co-sponsored by the Refuges and Migratory Bird programs of U.S. FWS as well as other partners.	\$75,000
Conserving important habitat for amphibians and other wildlife: compilation of vernal pool mapping efforts Steve Faccio, Vermont Center for Ecostudies	Initiated in 2014	Compile a comprehensive GIS dataset of currently mapped vernal pool locations in the North Atlantic LCC region; compile and describe the various mapping and certification approaches currently being employed; prioritize areas for future mapping.	\$100,000

Cross-cutting Projects			
Designing Sustainable Landscapes, Phase 2 <i>Kevin McGarigal, UMass Amherst</i>	Ongoing	Expanding the assessments of change and conservation decisions on representative species and ecological integrity to the entire Northeast Region; fully developing the conservation design decision model through the Connecticut River Watershed Pilot.	\$420,000
Designing Sustainable Landscapes, Phase 3 <i>Kevin McGarigal, UMass Amherst</i>	To be initiated Fall 2014	Facilitate delivery and adoption of conservation information and tools of Phases 1 and 2 by partners. Additionally, the Hurricane Sandy resiliency project for tidal wetlands (described above) will support coastal components of project.	\$230,000
Decision support tool to assess aquatic habitats and threats in North Atlantic watersheds and coastal zone Fritz Boettner, Downstream Strategies	Ongoing	Compilation of distribution, status and threats of aquatic and coastal fish and their habitats in the watersheds and coastal zone of the North Atlantic LCC in close cooperation with Fish Habitat Partnerships.	\$250,000
Use of a vulnerability index to assess species most likely to be impacted by climate change P.I.: Bruce Young, NatureServe	Peer review of final report	Regional climate change species vulnerability assessment. NatureServe developed an advisory committee, selected a list of 64 species for assessment including foundational and representative species and species of high regional concern and completed species assessments.	\$100,399

Part II: Completed Projects

Project (and lead P.I.)	Status	Summary and potential future steps	Cost	
Coastal and Marine Projects				
Application of the Coastal and	Completed	Consistent coastal and marine mapping for the North Atlantic. Regional	\$130,000	
Marine Ecological Classification	2014	ocean councils are considering future steps.		
Standards (CMECS) to the				
Northeast				
Mark Anderson, TNC				
Consistent coastal mapping,	Completed	162 updated National Wetland Inventory quads for the North Atlantic LCC	\$102,600	
National Wetlands Inventory –	2013	coast (7 states) so that all coastal wetlands are mapped consistently.		
coastal update				
CMI at Virginia Tech				
Structured Decision Making for	Complete	Completed a Structured Decision Making (SDM) Workshop on decision	\$0	
sea level rise		making for sea level rise. Results are being used to guide a sea level rise		
Andrew Milliken & Tim Jones,		decision model funded by the Northeast Climate Science Center and being		
USFWS		developed by USGS and Columbia University.		
		Terrestrial Projects		
Terrestrial wildlife models	Completed	Species-habitat models for representative species were developed and	\$90,005	
Terri Donovan, UVM/USGS	2011	integrated into Phase I of the Designing Sustainable Landscapes project		
Revise Northeast habitat	Completed	Completion of the terrestrial habitat map in the coastal plain and Piedmont of	\$14,470	
classification map for VA & MD	2012	Virginia and Maryland to be consistent with the Northeast Terrestrial Habitat		
Mark Anderson, TNC		Map.		

Cross-cutting Projects			
Designing Sustainable Landscapes, Phase 1 Kevin McGarigal, UMass Amherst	Completed 2012	First phase of a project to develop a set of models and tools to guide conservation decisions in the face of regional change from urban growth, climate change and other major drivers including impacts to representative species and ecological integrity. During Phase I, the approach was developed in three pilot study areas: the Kennebec River watershed (ME), the middle Connecticut River (MA, CT, NH, VT), and the Pocomoke and Nanticoke River watersheds (DE and MD).	\$435,000
Vulnerabilities to climate change of Northeast fish and wildlife habitats, Phase II (through RCN grant program) Hector Galbraith, Manomet; George Gay, National Wildlife Federation	Completed 2014	Second phase of regional climate change habitat vulnerability assessment, building on 2009 RCN grant. Three reports: terrestrial and wetland; coastal, and coldwater stream. Also, database of ongoing projects by NWF as part of a collaboration on a <i>NEclimateUS.org</i> site with NOAA and other partners.	\$83,500
Information needs assessment <i>Michael Terner, Applied</i> <i>Geographics</i>	Completed 2012	Assessment and recommendation on an Information Management System for the LCC. Led to creation of Conservation Planning Atlas on DataBasin (nalcc.databasin.org)	\$45,600