

## Northwest Boreal LCC ~ FY13 Funded and Co-funded projects

| Project Title  | Project Partner   | LCC Funding     |
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| Anthropogenic disturbance mapping and database compilation for the Canadian portion of the Northwest Boreal LCC  | <b>Ducks Unlimited Canada</b>   | <b>\$30,000</b> |
| <p>This project will compile and map all existing publicly available spatial data that infers an anthropogenic disturbance on the environment in the Canadian portion of the NWB LCC of Canada. A single standardized ArcGIS Geodatabase will be created, with accompanying series of maps profiling individual types of disturbances. In addition, an accompanying document will list a summary of all data compiled (by provincial jurisdiction), available metadata, caveats, information gaps, and recommendations moving forward to better understand the anthropogenic changes throughout this region.</p>   |   |                 |
| <b>An Integrated Ecosystem Model for Alaska and Northwest Canada</b>   | <b>Scenarios Network for Alaska and Arctic Planning, Western Alaska Cooperative Fish and Wildlife Research Unit</b> | <b>\$30,000</b> |
| <p>The primary goal is to develop a modeling framework that integrates the driving components for and the interactions among disturbance regimes, permafrost dynamics, hydrology, and vegetation succession/migration for Alaska and Northwest Canada. This framework couples (1) a model of disturbance dynamics and species establishment (the Alaska Frame-Based Ecosystem Code), (2) a model of soil dynamics, hydrology, vegetation succession, and ecosystem biogeochemistry (the dynamic organic soil/dynamic vegetation model version of the Terrestrial Ecosystem Model), and (3) a model of permafrost dynamics (the Geophysical Institute Permafrost Lab model). Together, these three models comprise the Integrated Ecosystem Model (IEM) for Alaska and Northwest Canada. The IEM is an integrated framework to provide natural resource managers and decision makers an improved understanding of the potential response of ecosystems due to a changing climate and will provide more accurate projections of key ecological variables of interest (e.g., wildlife habitat conditions).</p>  |   |                 |
| <b>Circumboreal Vegetation Mapping Workshop</b>  | <b>Conservation of Arctic Flora and Fauna Secretariat (CAFF)</b>  | <b>\$20,000</b> |
| <p>The Circumboreal Vegetation Mapping (CBVM) group is a group of vegetation scientists within the Arctic Council's CAFF Program devoted to mapping the vegetation of the entire circumboreal region. The aim of the CBVM project is to produce a vegetation map with geobotanical database and derived products for the entire boreal biome using a unified, international method for classifying and mapping boreal vegetation. In the proposed workshop we will focus on the Northwest Boreal LCC to unite it hierarchically with a vegetation map covering boreal North America and Eurasia. Our map of the Alaska boreal is currently being prepared for completion in December 2013. We will develop a process to integrate the Canadian portion of the Northwest Boreal LCC with Alaska. Our proximal goal is to: 1) convene a 3–5 day vegetation mapping workshop in Anchorage for September 2013; 2) finalize the legend of a unified map of Alaska and western Canada; 3) refine a boreal mapping approach that (a) integrates the Alaska and western Canadian regions, and (b) harmonizes the mapping concepts of Canada, Russian Federation, and the United States; 4) develop a classification of boreal vegetation at the Alliance level for the region. We will collaboratively address this task with CBVM representatives from Alaska (5 members), Canada (6), and the Russian Federation (2). An additional \$5,000 will be contributed to CAFF in support of the workshop by the Yukon Territorial Government</p> |   |                 |

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| <p>Bridging Yesterday with Tomorrow: Understanding Traditional Ecosystem Management Practices &amp; Their Application to Contemporary Sustainable Boreal Ecosystem Management</p>  | <p><b>Council of Athabaskan Tribal Governments (CATG)</b></p>            | <p><b>\$33,185</b></p>  |
| <p>This project will create a model for bridging the divide between traditional knowledge systems and western science by documenting the traditional ecosystem management practices of the Gwich'in and Koyukon community of Beaver, Alaska through the collection of oral histories. The project will provide insight and understanding into the culturally-based rules which guided management and relationships between people, landscapes, and food resources to ensure sustainable yield within the northwest boreal forest and will develop a suite of Best Management Practices for sustainable, productive boreal ecosystems. This project will be implemented by the Council of Athabaskan Tribal Governments, with support from the Robert Wood Johnson Foundation and the University of Saskatchewan,</p> |  |                         |
| <p><b>Northwest Boreal Landscape Conservation Assessment</b></p>   | <p><b>Alaska Resources Library &amp; Information Service (ARLIS)</b></p> | <p><b>\$30,000</b></p>  |
| <p>The LCC will partner with ARLIS to produce an electronic database of the most relevant scientific and resource management literature, planning efforts, and conservation priorities within the NWB LCC region. Focus will be on a subset of the LCC's 19 highest priority management information needs, and will include published peer reviewed literature, gray literature, land management and issue-driven plans. This effort will identify previous and existing efforts as well as support the identification of information gaps.</p>  |  |                         |
| <p><b>Total Project Funding</b></p>  |  | <p><b>\$143,185</b></p> |

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