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Migratory Conectivity in the Canada Warbler (May 2016) [Project Proposal]

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PSU Non-IC-Funded Project Profile Form

The intent of this form is to capture project information for both active and proposed projects associated with an Integrated Cluster (IC) which **do not require specific IC funding**.

Note that PSU has created a separate process for funding Integrated Cluster projects. For additional information on that process and the associated forms, review the collateral posted on the PSU site: <https://www.plymouth.edu/clusters/project-proposal-submission/>

Instructions for the PSU Non-IC-Funded Project Profile Form:

- ✓ Download this form to your computer

- ✓ Complete the form and save it on your computer; include the title of your project in the file name

- ✓ Forward the file via email to the IC Project Manager, Ross Humer at rhumer@plymouth.edu

- ✓ Project Profile will then be logged & forwarded to the appropriate IC Guide Team(s)

Instructions for the PSU Non-IC-Funded Project Profile Form: Please complete all of the elements of the following form in the spaces provided before saving and then submitting the document.

PSU Integrated Cluster Project Proposal Form

Title: Migratory connectivity in the Canada warbler

Project Status:

This is an active project which began: 5/16/2016

This is a proposed project which is expected to begin:

Project Leadership: (Identify Project Director/Manager or Co-Manager(s) Len Reitsma

Project Description: I am collaborating with J. Daniel Lambert of High Branch Conservation Services, and Kara Pearson and Dr. Alana Westwood of Dalhousie University on an international project entitled “Spatial prioritization of conservation and management opportunities for Canada Warbler in BCR14” (the bioregion encompassing NE US and SE Canada). This project involves the same process Lambert and I did with the assistance of four PSU undergraduate interns in Spring 2015 that culminated in documents for four species of Special Conservation Concern, including the Canada warbler. The current project uses information in our document entitled “Guidelines for Managing Canada Warbler Habitat in the Northeast and Mid-Atlantic Regions” and adds sophisticated modeling undertaken by the Dalhousie team. The effort is intended to inform management strategies for this species, threatened in Canada due to rapid declines detected by the North American Breeding Bird Survey. The two-phase project will first develop habitat management guidelines and then generate a highly vetted spatial map of conservation and management opportunities based upon modeling and feedback from a range of experts.

Project Goals and Outcomes:

- 1. Project Goals** – develop habitat management guidelines and generate a spatial map of conservation and management opportunities based upon modeling and feedback from surveys sent to a range of experts in public and private agencies, institutions and NGOs.
- 2) Student Learning Outcomes – N/A**

Rationale and Impact:

Considering the questions below, please write your project rationale and impact statement.

Include how this project will further the Mission and Vision of PSU with respect to 1) fostering collaboration across disciplines; 2) addressing a relevant societal issue, and 3) establishing

relationships with community partners, external institutions, companies, non-profits, schools, government agencies, etc. and 4). Making an impact

How does this proposed project advance the Integrated Cluster mission and vision? How does this project facilitate high impact teaching and learning, cross disciplinary collaboration, student engagement and partnership involvement, and real world problem exploration? What are the anticipated impacts of this project?

Is this project an extension of work already in progress, or an entirely new endeavor? Does it integrate with areas that team leaders are already teaching or is it an opportunity to delve into unfamiliar content or a bit of both?

Project Rationale and Impact Statement: This project follows from previous work accomplished by Lambert, Reitsma and PSU undergraduate students and is funded by Environment and Climate Change Canada. Meets a part of PSU's mission by clearly demonstrating the ability of faculty to extend expertise in meeting goals of collaborative approaches to solving real life issues for non-human species. It does not directly relate to clusters at present but the collaborative was spawned by the work of undergraduates working as a research pod with an outside researcher and the current work has potential for future efforts that may fall within the domain of one or more clusters.

Project Team

PSU Project Participants (essential core team participants including faculty and staff)

Name	Position/ Title	Project Role	Discipline/ Specialty	Email
Len Reitsma	Professor of Ecology	PI for NH contingent	Avian ecology	leonr@plymouth.edu

Non-PSU Project Participants (stakeholders; partners; academic institution; etc.)

Name	Organization	Project Role	Discipline/ Specialty	Email
J. Daniel Lambert	High Branch Conservation Services	Collaborator	Avian ecology	
Alana Westwood	Dalhousie Boreal Avian Modeling Evidence for Democracy	collaborator	Avian ecology	
Kara Pearson	Dalhousie Independent GIS consultant	collaborator	GIS	

Student Participant Profile (Identify the student population(s) to be engaged in the project. Identify if this has been or is planned to be incorporated into curricula)

Class/ Student Organization/ Individuals	Role in Project	Academic Level (Undergraduate or Graduate)	Academic Discipline	Total Student Population
NA	See above			

If this is planned to be incorporated into curricula, provide a description: I always share my research as relevant in Ecology, Conservation, Ornithology, Vertebrate Zoology, and Current Env'tl Issues

Project Funding

- This project requires no funding (*skip to IRB Compliance*)
- This project has/requires funding from other sources than the IC budget (*complete the following*)

Cost Category	Requested funds
SOURCES OF FUNDS	
o Grants	
o External Partners	
o Other	
<i>Total: Sources of Funding</i>	\$ -

Describe the status of funding requests or approvals:

Note that any projects requiring grant funding will need to comply with the RAC process.

IRB (Institutional Review Board) Compliance

IRB Compliance: <http://www.plymouth.edu/office/institutional-review-board/>

- This project DOES NOT require IRB compliance
- This project DOES require IRB compliance (*complete below*)

IRB Approval Status:

IRB Approval Date:

Project Management: Timeline and Milestones

Identify the timeline for the project including start, completion, and major project milestones. A closing report will be required as a part of the project funding process.

Project Start Date: 3/12/2015

Project Complete Date: 10/1/2017

Project Milestone	Milestone Description	Target Completion Date
Analyze survey information	Send survey out for comment and then distribute to get expert input	12/1/2016
Draft model based upon weights determined by experts	After completing model, send out for expert comment	8/11/2017
Finalize model based upon expert feedback	Use feedback to write final draft of document	12/1/2016
Submit manuscript	Select appropriate journal to submit to highlighting the process at achieving the model	3/1/2017

Please identify any pre-project education or training for students, faculty, and staff that would be helpful for your project team to have in advance to begin work on a strong footing (e.g., skill training, concepts), and identify any training and education that you are willing to help provide during the preparatory period for the project team before team work formally begins.

Student Education/ Training Requirements: NA