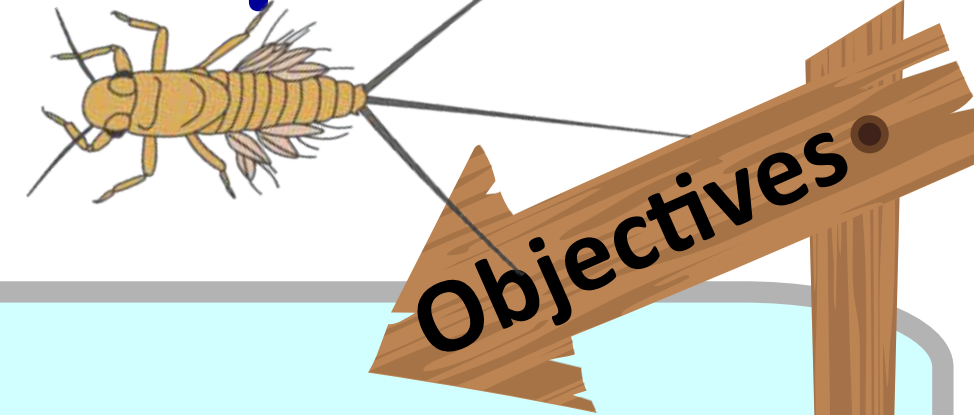


# Are esker lakes biodiversity hotspots in the boreal landscape?

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## Introduction

Welcome to Esker Ecology



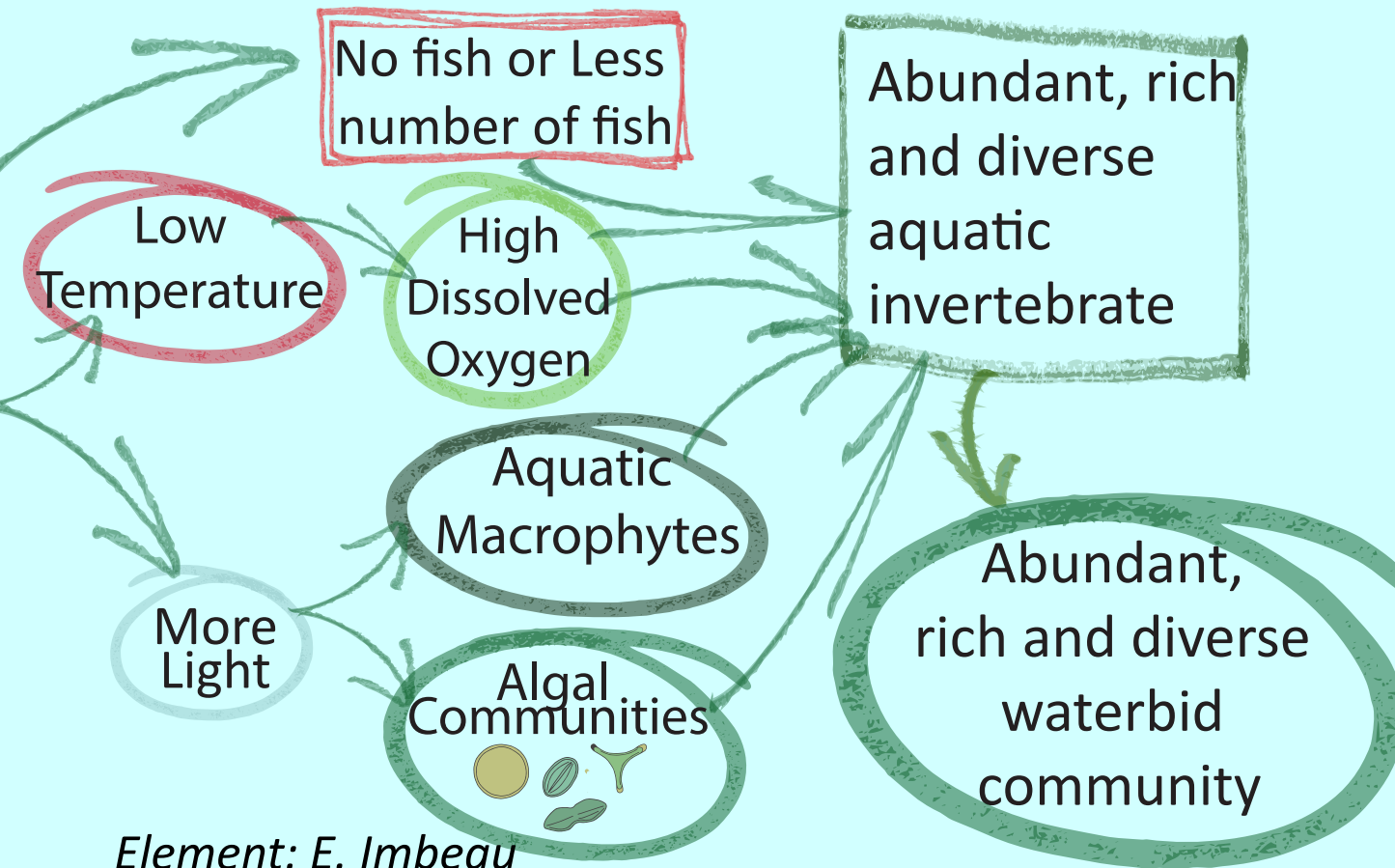
Photo: J. LePage

Esker lakes are valuable but unknown ecosystems

Knowledge gap about biodiversity associated to esker lakes

## Food Web Approach

Framework Idea: Dr. Girona



Element: E. Imbeau

## Example

Ephemeroptera larvae



Photo: Dr. Grosbois



Bucephala clangula

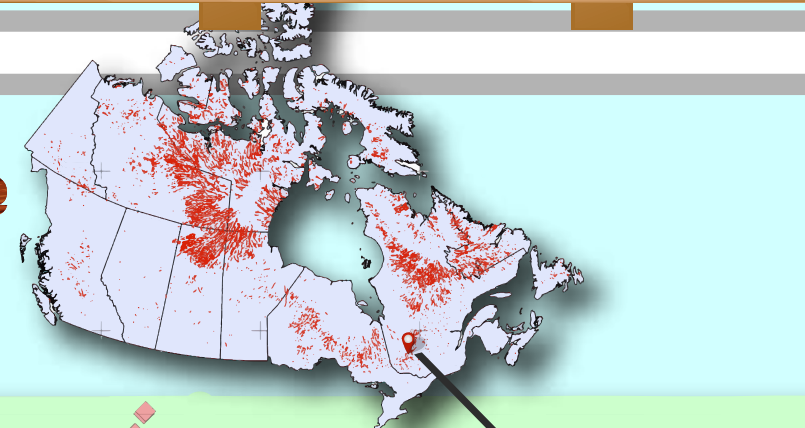
Objectives

1. To assess the aquatic resources for waterbirds in lakes
2. To evaluate the species richness, evenness and diversity of waterbirds

## Contribution

First Study to evaluate biodiversity associated to esker lakes and evaluate the state of health.

## Method



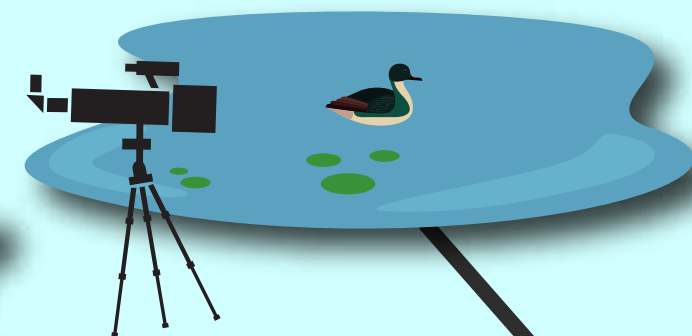
MRC Abitibi

50 lakes

Study Area

- 25 Boreal lakes
- ◆ 25 Esker lakes
- Eskers of Canada

## Waterbird



Point Count  
Flush Count

## Macroinvertebrate



Identification  
Stable Isotope  
Analysis

## Environmental Factors

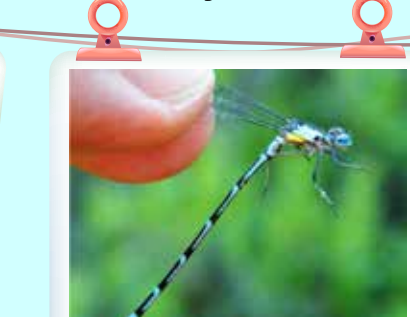
1. pH
2. Temperature
3. DO
4. Depth
5. Light
6. Vegetation Cover
7. Chlorophyll
8. Fish Community

Two new dragonfly species recorded in Abitibi

Observed by Dr Imbeau



Amber-winged Spreadwing



Aurora Damsel

## Project News



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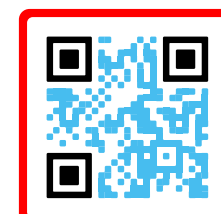
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