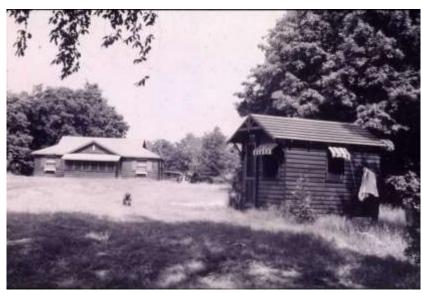
Queen's University
Biological Station
&
Elbow Lake Environmental
Education Centre

- Director Steve Lougheed
- Assoc. Director Shelley Arnott
- Senior Manager Sonia Nobrega
- Manager Aaron Zolderdo (Opinicon)
- Outreach & Teaching Coordinator Emily Verhoek
- Data & collections manager Adriana Lopez Villalobos
- Head cook Veronika Jaspers-Fayer



- University teaching
- Environmental & conservation research
- Biodiversity conservation
- Public science & conservation outreach
- Internationalization

- Initial property purchased in 1945 (26 ha.)
- Initial objective provide training for returning veterans in wildlife biology & management
- First year of operation current site 1946

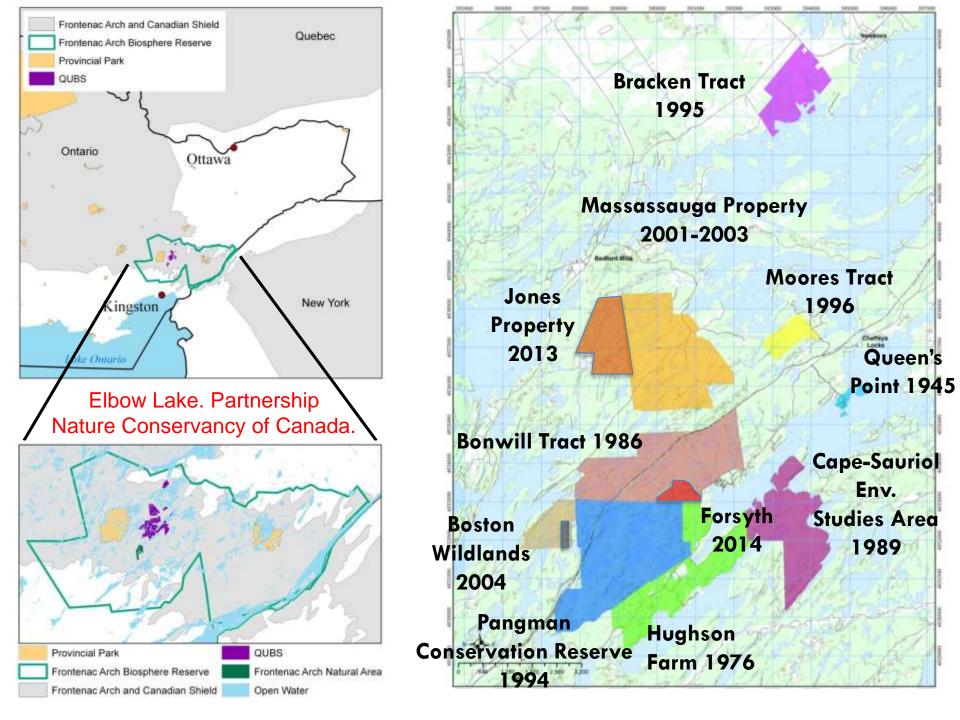


QUBS Lodge & Cabin 1947





QUBS Point 1951



QUBS Lands ...

Include:

- 9 entire lakes
- Frontage on 7 other lakes >20 km of shoreline
- Extensive frontage on the Rideau Canal
- More than 34 km² of mixed habitats: streams,
 swamps, uplands, old fields, mature mixed second-growth forests
- 'Ghost town', old mines, homesteads
- Home to many rare and endangered species

QUBS Properties

Biodiverse – a product of the admixture of habitats found on the Frontenac Axis

- 32 species of amphibians & reptiles.
- •>200 bird species, > 100 breeding
- > 50 mammal species
- > 30 fish species in L. Opinicon alone
- 185 tree, shrub & vine species.
- allow various kinds of research, long-term.



Queen's University Biological Station Opinicon Campus

- RJ Robertson
 Biodiversity Centre
- Dining facilities
- Accommodation for > 90
- Jessie Deslauriers
 Centre for Biology with
 library, herbarium &
 labs
- Workshop
- Boathouse





Elbow Lake Environmental Education Centre

- 11 Cabins
- Manager's house
- Main pavilion
- Day lodge + games building
- Museum
- Garages





Teaching & Training

 Field Courses – part of OUPFB – emphasizing handson in-field instruction

- OUPFB since late 1960s
- Consortium of 14 universities.



Wildlife Ecology & Natural History class at Rock Dunder Photo: Greg Bulte



Fish seining on Lake Opinicon. Dunder Photo: Greg Bulte

Teaching & Training

International field courses

Aquatic Biodiversity & Environmental Assessment ... China/Canada Exchange





Teaching & Training

 Curriculum-related field trips and practical field methods (e.g. core ecology courses)



Research

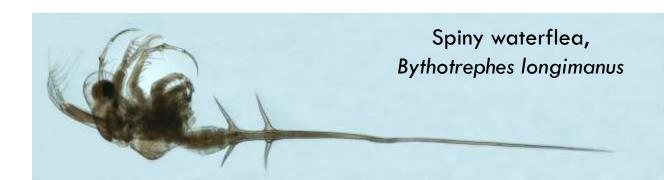
Invasive species



Purple loosestrife, Lythrum salicaria



Zebra mussel, Dreissena polymorpha



Research

Species of conservation concern.



Five-lined skink

Plestiodon fasciatus



Grey Rat Snake
Pantherophis spiloides

Research

Species of conservation concern.



Cerulean Warbler Setophaga cerulea Golden-winged Warbler Vermivora chrysoptera



Other Research



Effects of angling on fish; fish physiology, demography, & ecology. Impact of by-catch on local turtle populations.

Other Research



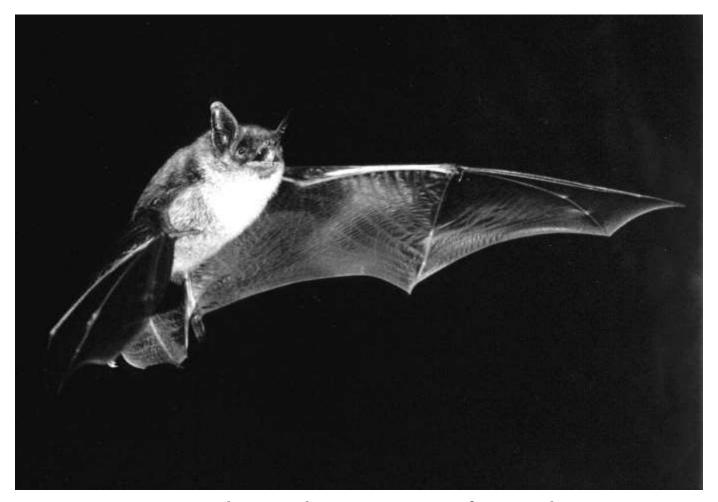
Bluegill, Lepomis macrochirus



Red-winged blackbird, Agelaius phoeniceus

Mating systems in vertebrates

Other Research



Bat – moth predator-prey relationships

Other research



Map turtle ecophysiology, behaviour & conservation

Other research



Climate change and call phenology.

Outreach

- Eco-Adventure Day Camp
- School field trips
- Annual Open House
- Weekly seminars on a variety of topics

- Field trips with cultural themes
- Workshops on special topics
- Community dinner



