

## Articles

- The enigma of the 10-year wildlife population cycle solved? Evidence that the periodicity and regularity of the cycle are driven by a lunar zeitgeber HERBERT L. ARCHIBALD 327
- Habitat selection and nest success of the Upland Sandpiper (*Bartramia longicauda*) in Ivvavik National Park, Yukon, Canada  
VALERIE MILLER, ERICA NOL, LINH P. NGUYEN, and DEVIN M. TURNER 341
- Cory's Bittern, *Ixobrychus "neoxenus" exilis*: morph, mutant, or mixed bag? PAUL SMITH 350
- Use of a marsh dominated by the introduced European Lake Sedge, *Carex acutiformis*, by highly localized native butterflies PAUL M. CATLING and BRENDA KOSTIUK 358
- Spiders of the southern Taiga biome of Labrador, Canada  
R. C. PERRY, J. R. PICKAVANCE, and S. PARDY 363
- Morphological and ecological variation among populations and subspecies of Burbot (*Lota lota* [L, 1758]) from the Mackenzie River Delta, Canada  
HANS RECKNAGEL, AMY AMOS, and KATHRYN R. ELMER 377
- Observations of the summer birds of Tukarak Island (Belcher Islands, Nunavut), Nastapoka Islands (Nunavut), and Lac Guillaume-Delisle (northern Quebec)  
CHRISTOPHER W. SWARTH and WOUTER BLEEKER 385
- Comparing the diet of Great Horned Owls (*Bubo virginianus*) in rural and urban areas of southwestern British Columbia  
SOFI HINDMARCH and JOHN E. ELLIOTT 393
- Grouseberry (*Vaccinium scoparium* Leiberg ex Coville) Fruit Production in Forest Openings in Banff National Park, Alberta  
IAN PENGELLY and DAVID HAMER 400
- Song discrimination by male Mourning Warblers (*Geothlypis philadelphia*) and implications for population divergence across the breeding range  
JAY PITOCHELLI 408

(continued on inside back cover)

The CANADIAN  
FIELD-NATURALIST

Published by THE OTTAWA FIELD-NATURALISTS' CLUB, Ottawa, Canada



# The Ottawa Field-Naturalists' Club

FOUNDED IN 1879

## Patron

His Excellency the Right Honourable David Johnston, C.C., C.M.M., C.O.M., C.M.  
Governor General of Canada

The objectives of this Club shall be to promote the appreciation, preservation and conservation of Canada's natural heritage; to encourage investigation and publish the results of research in all fields of natural history and to diffuse information on these fields as widely as possible; to support and cooperate with organizations engaged in preserving, maintaining or restoring environments of high quality for living things.

## Honorary Members

Ronald E. Bedford	Paul M. Catling	John M. Gillett	E. Franklin Pope
Edward L. Bousfield	Francis R. Cook	Peter W. Hall	Joyce M. Reddoch
Charles D. Bird	Bruce Di Labio	Christine Hanrahan	Allan H. Reddoch
Fenja Brodo	Anthony J. Erskine	C. Stuart Houston	Dan Strickland
Irwin M. Brodo	J. Bruce Falls	Theodore Mosquin	John B. Theberge
Daniel F. Brunton		Robert W. Nero	Sheila Thomson
Michael D. Cadman			

## 2014 Board of Directors

<b>President:</b> Fenja Brodo	Daniel F. Brunton	Barry Cottam	Lynn Ovenden
<b>1<sup>st</sup> Vice-President:</b> Henry Steger	Carolyn Callaghan	Don Hackett	Rémy Poulin
<b>2<sup>nd</sup> Vice-President:</b> Eleanor Zurbrigg	Barbara Chouinard	Karen McLachlan Hamilton	Eleanor Zurbrigg
<b>Recording Secretary:</b> Annie Bélair	Julia Cipriani	Diane Kitching	
<b>Treasurer:</b> Ken Young	Owen Clarkin	Ann MacKenzie	

To communicate with the Club, address postal correspondence to: The Ottawa Field-Naturalists' Club, P.O. Box 35069, Westgate P.O., Ottawa, ON, K1Z 1A2, or e-mail: ofnc@ofnc.ca. For information on Club activities, go to [www.ofnc.ca](http://www.ofnc.ca)

## The Canadian Field-Naturalist

The *Canadian Field-Naturalist* is published quarterly by The Ottawa Field-Naturalists' Club. Opinions and ideas expressed in this journal do not necessarily reflect those of The Ottawa Field-Naturalists' Club or any other agency.

**Website:** [www.canadianfieldnaturalist.ca/index.php/cfn](http://www.canadianfieldnaturalist.ca/index.php/cfn)

**Editor-in-Chief:** Dr. Carolyn Callaghan

**Assistant Editor:** Dr. Trina Rytwinski

**Copy Editor:** Sandra Garland

**Typographer:** Wendy Cottie

**Journal Manager:** Dr. Jay Fitzsimmons: [subscriptions@canadianfieldnaturalist.ca](mailto:subscriptions@canadianfieldnaturalist.ca) or via postal address above.

**Book Review Editor:** Roy John

<b>Associate Editors:</b>	Charles D. Bird	Anthony J. Gaston	David Nagorsen	Jeffery M. Saarela
	Paul M. Catling	Thomas S. Jung	Claude B. Renaud	David C. Seburn
	Francis R. Cook	Donald F. McAlpine	Marty Obbard	Jeffrey H. Skevington
	Jennifer R. Foote	Garth Mowat		

**Chair, Publications Committee:** Daniel F. Brunton

**All manuscripts intended for publication except Book Reviews should be addressed to the Editor and sent by e-mail:** [editor@canadianfieldnaturalist.ca](mailto:editor@canadianfieldnaturalist.ca) or **postal mail (with disk):** 611 Chemin Cregheur, Luskville, QC J0X 2G0; (819) 455-1087; **Book-review correspondence should be sent to the Book Review Editor by e-mail:** [r.john@rogers.com](mailto:r.john@rogers.com) or **postal mail:** 2193 Emard Crescent, Ottawa, ON, K1J 6K5

### Subscriptions and Membership:

Subscription rates for individuals are \$40 (online only), \$50 (print only), or \$60 (print + online). Libraries and other institutions may subscribe for \$60 (online only or print only) or \$90 (print + online). All foreign print subscribers and members (including USA) must add \$10 to cover postage. The Ottawa Field-Naturalists' Club annual membership fee of \$40 (individual), \$45 (family), or \$20 (student) includes an online subscription to *The Canadian Field-Naturalist*. Members can receive printed issues of CFN for an additional \$30 per volume (four issues). For further details, including discounts for members of the Canadian Museum of Nature, see <http://ofnc.ca/member.php>. The club's regional journal, *Trail & Landscape*, covers the Ottawa District and regional Club events and field trips. It is mailed to Ottawa area members, and is available to those outside Ottawa on request. It is available to libraries at \$33 per year. Subscriptions, applications for membership, notices of changes of address, and undeliverable copies should be sent to [subscriptions@canadianfieldnaturalist.ca](mailto:subscriptions@canadianfieldnaturalist.ca) or mailed to: The Ottawa Field-Naturalists' Club, P.O. Box 35069, Westgate P.O., Ottawa, ON, K1Z 1A2 Canada. Canada Post Publications Mail Agreement number 40012317. Return postage guaranteed.

COVER: A female *Misumena vatia* on a yellow lady's slipper *Cypripedium parviflorum* in the Burnt Cape Ecological Reserve, Newfoundland. Photo by R. Perry. See pages 363–376 in this issue.

## TABLE OF CONTENTS (*concluded*)

Volume 128, Number 4 2014

### Book Reviews

ZOOLOGY: Amphibian Conservation – Global Evidence for the Effects of Interventions — Amphibians and Reptiles in Minnesota — Amphibians of Ohio — Illustrated Checklist of the Birds of the World – Non Passerines — Life on the Rocks: A Portrait of the American Mountain Goat — The Fish in the Forest: Salmon and the Web of Life — Biology and Conservation of North American Tortoises — Societies of Wolves and Free-ranging Dogs 416

BOTANY: Plantes de milieux humides et de bord de mer du Québec et des Maritimes — Trees of Eastern North America 424

OTHER: The Real Weed Man: Portrait of Canadian Botanist Gerald A. Mulligan — The Once and Future World: Nature as it was, as it is, as it could be 426

NEW TITLES 429

### News and Comment

The Canadian Herpetologist (TCH) 4(2), Fall 2014 431

Northeast Natural History Conference 2015 431

Annual Conference of the Animal Behavior Society 2015 431

International Conference on Biodiversity 2015 431

William Beverly Scott 1917–2014 431

Club Awards 432

Index to The Canadian Field-Naturalist Volume 128 BY WILLIAM HALLIDAY 435

Mailing date of the previous issue 128(3): 20 October 2014