The CANADIAN FIELD-NATURALIST

A JOURNAL OF FIELD BIOLOGY AND ECOLOGY

Promoting the study and conservation of northern biodiversity since 1880



Volume 135, Number 4 • October–December 2021



The Ottawa Field-Naturalists' Club

FOUNDED 1863 (CURRENT INCORPORATION 1879)

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.

Charles D. Bird Fenja Brodo Irwin M. Brodo Daniel F. Brunton Michael D. Cadman Paul M. Catling Bruce M. Di Labio Anthony J. Erskine J. Bruce Falls Robert G. Forsyth Peter W. Hall Christine Hanrahan

President: Jakob Mueller 1st Vice-President: Owen Clarkin 2nd Vice-President: vacant Recording Secretary: Elizabeth Moore Treasurer: Ann Mackenzie

Honorary Members

Jeffery E. Harrison C. Stuart Houston Ross A. Layberry Robert E. Lee John McNeill

2021 Board of Directors

Annie Bélair Robert Cermak Edward Farnworth Catherine Hessian Theodore Mosquin Robert W. Nero E. Franklin Pope Allan H. Reddoch and Joyce M. Reddoch

Diane Kitching

Gordon Robertson

Diane Lepage

Janette Niwa

Fred Schueler and Aleta Karstad Dan Strickland John B. Theberge Sheila Thomson

Henry Steger Ken Young Eleanor Zurbrigg

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.

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

Editor-in-Chief: Dr. Dwayne Lepitzki

Copy Editors: Sandra Garland and Dr. John Wilmshurst Book Review Editor: Drs. Amanda Martin and Bill Halliday Subscription Manager: Eleanor Zurbrigg Assistant Editor: Dr. Amanda Martin Layout: Robert Forsyth Online Journal Manager: Dr. Bill Halliday Author Charges Manager: Ken Young

Associate Editors

Dr. Ron Brooks	Dr. Graham Forbes	Dr. Garth Mowat	David C. Seburn
Dr. Paul M. Catling	Thomas S. Jung	Dr. Marty Obbard	Dr. Jeffrey H. Skevington
Dr. François Chapleau	Dr. Donald F. McAlpine	Dr. Jeffery M. Saarela	Dr. Douglas C. Tozer
Dr. Jennifer R. Foote	-	-	-

Chair, Publications Committee: Dr. Jeffery M. Saarela

All manuscripts intended for publication—except Book Reviews—should be submitted through the online submission system at the CFN website: http://www.canadianfieldnaturalist.ca/index.php/cfn/user. Click the "New Submission" link on the right side of the webpage and follow the prompts. Authors must register for a cfn account at http://www.canadianfieldnaturalist. ca/index.php/cfn/user/register in order to submit a manuscript. Please contact the Online Journal Manager (info@canadianfield naturalist.ca/index.php/cfn/user/register in order to submit a manuscript. Please contact the Online Journal Manager (info@canadianfield naturalist.ca/index.php/cfn/user.ca/index.php/cfn/user/register in order to submit a manuscript. Please contact the Online Journal Manager (info@canadianfield naturalist.ca) if you have any questions or issues with the online submission process. In only rare, exceptional circumstances will submissions other than online be considered and, in these cases, authors must contact the Editor-in-Chief (editor@canadian fieldnaturalist.ca) prior to submission. Instructions for Authors are found at https://www.canadianfieldnaturalist.ca/public/journals/1/CFN-author-instructions20Sept2019.pdf.

The Thomas H. Manning fund, a special fund of the OFNC, established in 2000 from the bequest of northern biologist Thomas H. Manning (1911–1998), provides financial assistance for the publication of papers in the CFN by independent (non-institutional) authors, with particular priority given to those addressing Arctic and boreal issues. Qualifying authors should make their application for assistance from the fund at the time of their initial submission.

Book-review correspondence, including arranging for delivery of review copies of books, should be sent to the Book Review Editor by e-mail: bookrevieweditor@canadianfieldnaturalist.ca.

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 \$120 (online only or print only) or \$180 (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, see http://ofnc.ca/membership-and-donations. The club's regional journal, *Trail & Landscape*, covers the Ottawa District and regional Club events and field trips. It is mailed to all club members. It is available to libraries at \$40 per year. Subscriptions, applications for membership, notices of changes of address, and undeliverable copies should be sent to 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 juvenile Great Horned Owl (*Bubo virginianus*) with remnants of a recent meal and mosquitos on its eyes. The juvenile fledged from one of the northernmost recorded Great Horned Owl nests, in a witch's broom along the Middle Fork Koyukuk Valley, Alaska, USA, June 2017. See the article by Reynolds *et al.* (337–345) that investigated the diet and reproductive success of the owl at its northern range limit using both nest cameras and collection of prey remains. Photo: M. Reynolds.

The CANADIAN FIELD-NATURALIST

Volume 135, Number 4 • 2021

Another mention of Meadow Vole (<i>Microtus pennsylvanicus</i>) found in pellets of Snowy Owl (<i>Bubo scandiacus</i>) in northern Ungava Peninsula, Canada Louis Arbez, Aurélien Royer, Jean-François Therrien, and Sophie Montuire	329
Diet and reproductive success of Great Horned Owl (<i>Bubo virginianus</i>) at its northern breeding limit MADISON REYNOLDS, JOHN SHOOK, GREG BREED, and KNUT KIELLAND	337
Assessing migration strategies and cause specific mortality of adult female White-tailed Deer (<i>Odocoileus virginianus</i>) in North Dakota, USA BRIAN A. SCHAFFER, JONATHAN A. JENKS, WILLIAM F. JENSEN, and ERIC S. MICHEL	346
Paedomorphic Blotched Tiger Salamander (<i>Ambystoma mavortium melanostictum</i>) in ovo counts, British Columbia, Canada SARA L. ASHPOLE and MARISSA R. NATI	356
Hiding in plain sight: combining field-naturalist observations and herbarium records to re- veal phenological change Емма S. Lehmberg, Graydon McKee, and Michael D. Rennie	361
Parasitism and brood mortality in Alfalfa Leafcutting Bee (<i>Megachile rotundata</i> (Fabricius)), nesting in vacated comb cells of European Paper Wasp (<i>Polistes dominula</i> (Christ)) J. SCOTT MACIVOR	377
Apparent winterkill of Painted Turtle (<i>Chrysemys picta</i>) David C. Seburn, Mackenzie Burns, Iyanuoluwa Akinrinola, Sara Cecile, Thomas Farquharson, Charlotte Hung, and Payton McIntyre	383
Status and declining trend of Sparrow's-egg Lady's-slipper (<i>Cypripedium passerinum</i>) orchids in Pukaskwa National Park, Ontario, Canada COURTNEY C. IRVINE and LUCY D. PATTERSON	387
Gimme shelter: anthropogenic structures as resting sites for American Marten (<i>Martes americana</i>) THOMAS S. JUNG and BRIAN G. SLOUGH 3	396
Continuing expansion of Narrow-leaved Cattail (<i>Typha angustifolia</i>) and decline of a provin- cially rare fen in the Holland Marsh, Ontario BILL A. THOMPSON	400

(continued inside back cover)

Table of Contents (concluded)

Book Reviews

The Canadian Field-Naturalist welcomes our new Book Review Editor
ZOOLOGY: We Are All Whalers: the Plight of Whales and our Responsibility—Wolves: Western War-
riors
New Titles

News and Comment

Upcoming Meetings and Workshops
2022 Joint Southeastern Branch and American Phytopathological Society-Caribbean Division
Meeting-Northeast Fish & Wildlife Conference-Entomological Society of America, Pacific
Branch Meeting—IALE-North American Annual Meeting—Northeast Natural History Confer-
ence-2022 Joint Aquatic Sciences Meeting-Ontario Ecology, Ethology, and Evolution Collo-
quium
In Memoriam: Jeffrey A. Hutchings, FRSC (11 September 1958–30 January 2022)
Index