

Ontario Lepidoptera 2009



Edited and Compiled by

Ross A. Layberry and Colin D. Jones



Toronto Entomologists' Association
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TORONTO ENTOMOLOGISTS' ASSOCIATION (TEA)

The TEA is a non-profit educational and scientific organization formed to promote interest in insects, to encourage co-operation among amateur and professional entomologists, to educate and inform non-entomologists about insects, entomology and related fields, to aid in the preservation of insects and their habitats and to issue publications in support of these objectives.

The TEA is a registered charity (#1069095-21); all donations are tax creditable.

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All membership queries and payment of dues can be directed to Chris Rickard, Treasurer, T.E.A., 28 Seventh St. Toronto, Ontario, Canada M8V 3B2.

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ONTARIO LEPIDOPTERA

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COVER PHOTOGRAPHS

Front: Silvery Blues at the Little Cataraqui C.A.,
Frontenac on June 3, 2009 (photo: Max Larrivée)

Back: Pepper and Salt Skipper near Lavant Station,
Lanark on June 4, 2009 (photo: Christine Hanrahan)

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GENERAL INTRODUCTION

This issue of *Ontario Lepidoptera* includes notes, photos and records from the 2009 seasons as well as a number of valuable and interesting notes and articles on Lepidoptera in the province.

Barry Harrison has written a short article on the status of Grey Hairstreak in the Toronto Region. Ross Layberry reports on possible subspecies of the Mourning Cloak, complete with photos, and how a project team of five well-known lepidopterists, Norbert Kondla, Joseph Belicek, Crispin Guppy, Otakar Kudrna and Harry Pavulaan are presently reviewing the biology and taxonomy of this species and are seeking specimens from Ontario to assist with this study. Maxim Larrivée of the Canadian Facility for Ecoinformatics Research, Biology Department, University of Ottawa announces the Canada Global Change Transect (CGCT) and calls upon on all Canadian entomologists interested in butterflies to share with the CGCT their butterfly observations or specimen captures. Ross Layberry has provided a very useful illustrated article on some lesser known but reliable ways to identify the *Speyeria fritillaries*. James Kamstra presents a summary of the 2009 Ontario butterfly counts and, of course, the articles and notes are followed by the written summary of the 2009 Ontario butterfly records that have been submitted by our many contributors.

Data for all records of all species received for 2009 (much more data than can be included in the printed summary!) are included in a table available to TEA members as PDF files from Colin Jones (see contact information below). For any members without a computer, simply contact Colin, he will be more than happy to send you a printed copy of the tables.

The contents of this publication have been checked for errors and accuracy as much as possible. Please notify us of any corrections of errors or omissions, and these will be included in future issues of *Ontario Lepidoptera* and incorporated into the database.

Work on the compilation and production of Ontario Lepidoptera 2010 has already begun but we will be accepting additional records, notes and photographs from the 2010 season until January 31, 2011. Please send any contributions to:

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Information on how to submit records can be obtained from the compilers.

THE POWER OF DATABASING OUR RECORDS AND HOW YOU CAN HELP

Most people these days have a personal computer at home and use it for record keeping. In order to greatly speed up the process of databasing records submitted for *Ontario Lepidoptera* we ask that contributors submit records in electronic form, preferably in a spreadsheet (e.g. Microsoft Excel) or database (e.g. Microsoft Access) format.

There is also a technological advance that has become much more accessible in recent years that has given us the ability to easily assign geographic data to observations (allowing us to easily map them for projects such as *The Ontario Butterfly Atlas*, for example). This is the advent of the hand-held GPS (Global Positioning System). A growing number of field biologists and amateur naturalists and entomologists have GPS units and are finding them an extremely useful and handy tool. For those of you who own or have access to a GPS unit (or to topographic maps of your area) we are also asking that you supply geographic coordinates (UTM grid reference or Latitude/Longitude) with your records. Although these coordinates can be read from a topographic map, with the advent of the handheld GPS unit (available for \$200 or less from most camping and outdoors stores, including Canadian Tire) such coordinates can be obtained much more quickly, easily and accurately than they can from a map.

For those contributors who cannot or wish not to supply records in a database format, records submitted in another electronic format (word-processing application such as Microsoft Word) or even in handwritten format are better than nothing at all. In addition, if you are unable to assign a geographic reference to your records, the raw records are fine. The compilers will enter the records into the database and attempt to geo-reference them ourselves. Obviously, the more you can do as contributors, the easier our job as compilers becomes.

There are several reasons for using such a format for data submission. Increasingly, data on invertebrates (especially butterflies, dragonflies and damselflies) is being used to aid in conservation land-use planning. Most of this readership would probably agree that this is a very positive movement. The TEA and the contributors to Ontario Lepidoptera have an opportunity, by databasing their records and attaching precise geographic coordinates to the records, to add greatly to the conservation of butterflies and moths. The power of a fully databased set of records is incredible. The records can easily be sorted or manipulated in any number of ways in order to: i) produce a county list; ii) map all of the records for a particular species; iii) compare records from one time frame to another (e.g. 1800-1950 with 1951-present). In these ways, once fully databased, the application of the database becomes much more useful than just the production of the annual summary.

More detailed information on how to submit records (including how to supply geographic coordinates), and a sample of the database structure can be obtained by contacting the compilers (see contact information on page 1).

ACKNOWLEDGEMENTS

Ontario Lepidoptera would not be possible without the considerable effort of the contributors who take the time to submit their records each year. In particular, we would like to acknowledge the following individuals for their efforts as they took the time to submit records, in some instances not only of their own but also on behalf of others: the Algonquin P.P. Naturalist Staff, Alfred Adamo, Blake Mann, Bob Bracken, Bruce Ripley, Barry Harrison, Bob Yukich, Brenda Van Ryswyk, the Charleston Lake P.P. Naturalist Staff, Christina Lewis, Christine Hanrahan, Chris Robinson, Colin Jones, David, Allison, David Bree, Diane Lepage, Ed Poropat, Gillian Mastromatteo, James Kamstra, Jerry Ball, John Carley, Justin Peter, Ken Allison, Linda Jeays, Mary and Tony Rapati, Maxime Larrivee, Nick Escott, Peter Hall, Ross Layberry, Sue Bryan, Christine Hanrahan and Xi Wang.

We would also like to thank those who submitted photographs from 2009 including: Alfred Adamo, Bob Yukich, Brenda Van Ryswyk, Colin Jones, Christine Hanrahan, David Bree, Diane Lepage, Maxime Larrivee, Simon Rainville and Tony Bigg.

LIST OF CONTRIBUTORS AND OBSERVERS

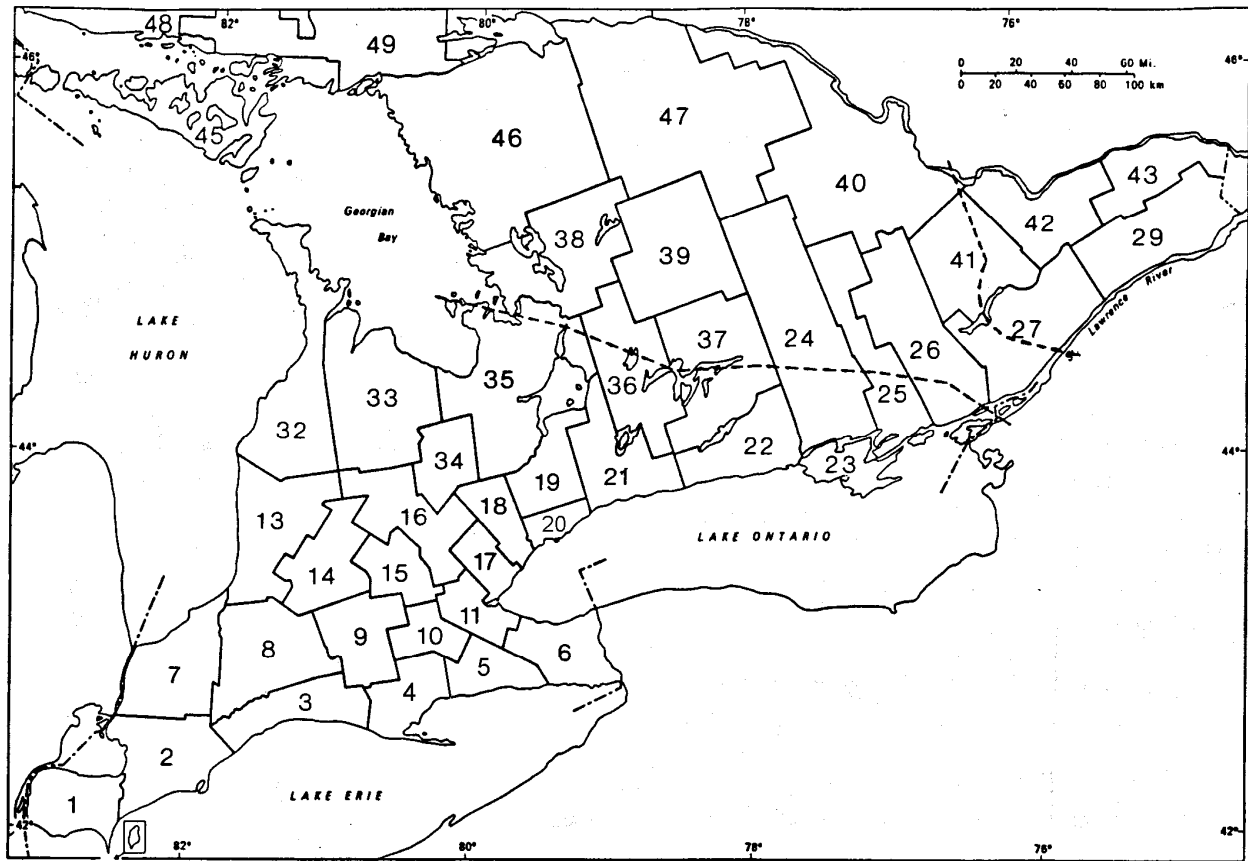
Ontario Lepidoptera 2009 summarizes data and observations of butterflies and skippers for the 2009 season in the province of Ontario, Canada, received from the contributors and observers listed below:

AA	Alfred Adamo	Toronto	DA	David Allison	Ottawa
ABe	Alex Benvenuti	New Liskard	DAd	Diana Adamo	Toronto
ABR	Anne & Barry Robertson	Kingston	DAS	Don A. Sutherland	Peterborough
ADBe	Adrianna Benvenuti	New Liskard	DBa	Dennis Barry	Oshawa
ADW	Amy Whitehorne	Charleston Lake P.P.	DBr	David Bree	Bloomfield
AG	Ann Gray	Toronto	DCT	Doug C. Tozer	Dwight
AHR	Alfred H. Rider	Forest	DD	Don Davis	Toronto
APP	Algonquin P.P. Naturalist Staff	Algonquin P.P.	DFi	Don Finnegan	Peterborough
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BH	Barry Harrison	Scarborough	EH	Ethan Huner	Algonquin P.P.
BHo	Brandon Holden	Algonquin P.P.	EP	Ed Poropat	Haliburton
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BS	Betsy Smith	Oshawa	FB	Frank Butson	Scarborough
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CDJ	Colin D. Jones	Lakefield	GR	Glenn Richardson	Listowel
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CEa	Chris Earley	Rockwood	HTO	Henrietta T. O'Neill	Leamington
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ChR	Chloe Rainville	Ottawa	JB	Jerry Ball	Peterborough
CL	Christina Lewis	Ottawa	JBox	Jon Boxall	Peterborough
CLat	Chalres Latremouille	Timmins	JBre	Jean Brereton	Golden Lake
CPR	Chris P. Robinson	Glenburnie	JCa	John Carley	Scarborough
CM	Chris Michener	Golden Lake	JCh	Jen Chikoski	Thunder Bay
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CS	Chris Schmidt	Ottawa	JF	Jim Fairchild	Scarborough

JFe	Janet Fenton	Charleston Lake P.P.	PH	Peter Hall	Ottawa
JHa	Judy Hall	Ottawa	PM	Paul Mackenzie	Kingston
JHo	Jim Hopkins	Haliburton	PMC	Paul M. Catling	Ottawa
JK	James Kamstra	Port Perry	PMi	Peter Mills	Barrie
JoC	John Chen	Toronto	PPP	Presqu'ile P.P. staff	Presqu'ile P.P.
JP	Justin Peter	Algonquin P.P.	PSB	Peter S. Burke	London
JPo	John Poland	Kingston	RA	Ruth Allison	Ottawa
JSk	Jeff Skevington	Ottawa	RaD	Rachel Derbyshire	Algonquin P.P.
JTF	John Fowler	Almonte	RAL	Ross A. Layberry	Kinburn
JVB	John Vanden Broeck	Fort Frances	RAII	R. Allensen	Ottawa
KA	Ken Allison	Ottawa	RB	Ryan Burke	Ottawa
KAn	K. Anderson	Presqu'ile P.P.	RCL	Ruth C. Layberry	Kinburn
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KBo	K. Boothby	Ottawa	RGT	Ron G. Tozer	Dwight
KC	Kevin Clute	Dwight	RJP	Rod and Joan Parrott	Port Hope
KeM	Ken Morrison	Ottawa	RJY	Robert J. Yukich	Toronto
KFN	Kingston Field Naturalists	Kingston	RMac	Rory MacKay	Gananoque
KHo	Kyle Holloway	Algonquin P.P.	RP	Rayfield Pye	Oshawa
KRY	Karen R. Yukich	Toronto	SB	Sue Bryan	Thunder Bay
KVS	Kris VanDe Sompel	Dundas	SMA	Sophie Mazowita	Algonquin P.P.
LF	Lev Frid	Algonquin P.P.	SMR	Suzanne M. Robinson	Barrie
LiH	Linda Harrison	Scarborough	SoB	Sonje Bols	Algonquin P.P.
LJ	Linda Jeays	Ottawa	SRB	Sam R. Brinker	Peterborough
LLa	L. Lamb	Ottawa	TAG	Tyler Goff	Charleston Lake P.P.
LMcC	Larry McCurdy	Kingston	TB	Tony Bigg	Lakefield
LN	Larry Neilly	Ottawa	TCa	Travis Cameron	Lakefield
LS	Leon Schlichter	Toronto	TLa	Thom Lambert	Haliburton
LT	Laura Tozer	Huntsville	TLe	Tim Leah	Ottawa
LuF	Lucas Foerster	London	TRa	Tony Rapati	Port Elgin
MC	Margaret Carney	Oshawa	TRS	T. Rick Stronks	Dwight
MCo	Mark Conboy	Kingston	TS	Tim Sneider	Algonquin P.P.
MCS	M. & C. Seymour	Kingston	VCa	Victoria Carley	Scarborough
MLa	Maxim Larrivee	Ottawa	WF	Walter Fisher	Scarborough
MLH	Matt Holder	Pefferlaw	WFP	Wildlife Festival participants	Prairie Smoke Nature Reserve
MMcM	Mike McMurtry	Peterborough	XW	Xi Wang	Hamilton
MOI	Michael Olson	Ottawa	YB	Yvette Bree	Bloomfield
MRa	Mary Rapati	Port Elgin	ZF	Z. Flavelle	Sandbanks PP
MSa	Mark Saunders	Sharbot Lake			
MTa	Mike Tate	Ottawa			
MVB	Mike Burrell	Heidelberg			
MWPR	Michael Runtz	Cranberry Lake			
NGE	Nick G. Escott	Thunder Bay			
NWr	N. Wright	Presqu'ile P.P.			
PCa	Peter Carson	Walsingham			
PCI	Peter Clute	Ajax			
PECFN	Prince Edward County Field Naturalists				
PGL	P. Gordon Lewer	Hamilton			

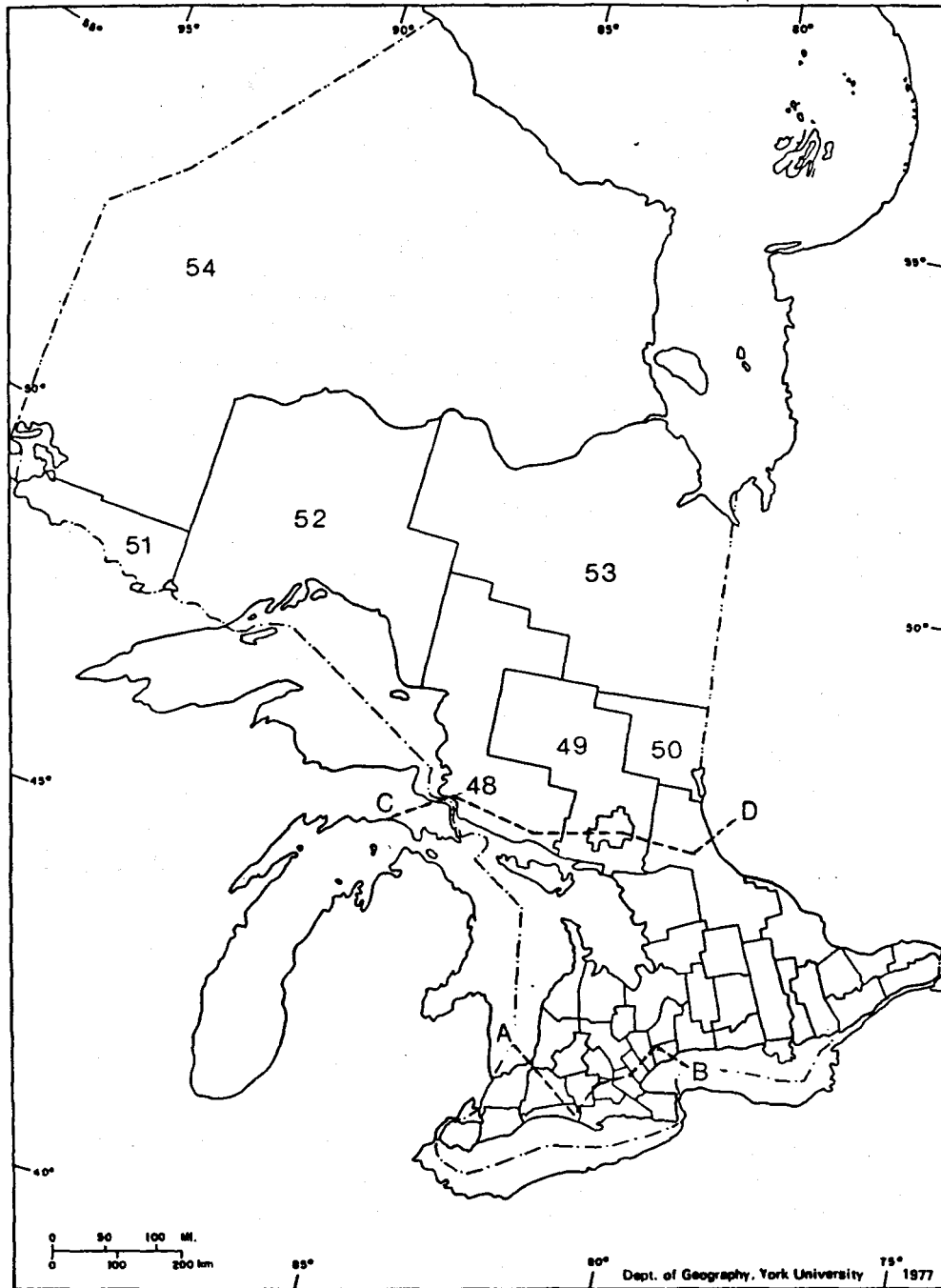
C.A. = Conservation Area
m.obs. = multiple observers
N.P. = National Park
P.P. = Provincial Park

COUNTIES, DISTRICTS AND REGIONAL MUNICIPALITIES OF ONTARIO



Counties, Districts and Regional Municipalities of southern Ontario. The dotted line indicates the approximate southern and eastern limits of the Canadian Shield in Ontario. The 4-letter codes listed below are used in the table of all butterfly records submitted from the 2009 season.

1	ESSE	Essex County	23	PRIN	Prince Edward County
2	KENT	Municipality of Chatham-Kent	24	HAST	Hastings County
3	ELGI	Elgin County	25	LENN	Lennox and Addington County
4	NORF	Norfolk County	26	FRON	Frontenac County
5	HALD	Haldimand County	27	LEED	United Counties of Leeds and Grenville
6	NIAG	Regional Municipality of Niagara	29	STOR	United Counties of Stormont, Dundas and Glengarry
7	LAMB	Lambton County	32	BRUC	Bruce County
8	MIDD	Middlesex County	33	GREY	Grey County
9	OXFO	Oxford County	34	DUFF	Dufferin County
10	BRAN	Brant County	35	SIMC	Simcoe County
11	HAMI	Regional Municipality of Hamilton-Wentworth	36	VICT	City of Kawartha Lakes
13	HURO	Huron County	37	PETE	Peterborough County
14	PERT	Perth County	38	MUSK	District Municipality of Muskoka
15	WATE	Regional Municipality of Waterloo	39	HALI	Haliburton County
16	WELL	Wellington County	40	RENF	Renfrew County
17	HALT	Regional Municipality of Halton	41	LANA	Lanark County
18	PEEL	Regional Municipality of Peel	42	OTTA	Regional Municipality of Ottawa-Carleton
19	YORK	Regional Municipality of York	43	PRES	United Counties of Prescott and Russell
20	METR	Metropolitan Toronto	45	MANI	Manitoulin District
21	DURH	Regional Municipality of Durham	46	PARR	Parry Sound District
22	NORT	Northumberland County	47	NIPI	Nipissing District



Map of Ontario indicating the districts of northern Ontario. The line A-B represents the approximate northern limit of the Carolinian Zone (see Soper 1954, 1962). Line C-D approximates the 40 degree F mean daily temperature for the year isotherm, and has been adopted here as the northern limit of southern Ontario. The 4-letter codes listed below are used in the table of all butterfly records submitted from the 2009 season.

- | | | | | | |
|----|------|----------------------------------------------|----|------|----------------------|
| 48 | ALGO | Algoa District | 52 | THUN | Thunder Bay District |
| 49 | SUSB | Sudbury District (including City of Sudbury) | 53 | COCH | Cochrane District |
| 50 | TIMI | Timiskaming District | 54 | KENO | Kenora District |
| 51 | RAIN | Rainy River District | | | |