



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada



Potential contributions towards a North American-wide Mycota from Canada

Scott Redhead

Curator: National Mycological Herbarium of Canada (DAOM)
Science & Technology Branch, Agriculture & Agri-Food Canada

Canada 



DAOM = Canadian National Mycological Herbarium >350,000 specimens





Jennifer
Wilkinson,
Assist. Curator

Students:
Karla Roberts
Kyle Lewis

DAOM general collection – filing ‘group’ specimen #s - species #s – genera #s
Polypores 1 year ago (1481 input)
Now - Polypores sensu lato (excl. Hymenochaetales) 9270 – 614 -94 (partially input)
Boletales somewhat sensu lato 3473 -343 – 22 (completed)
Gomphidiaceae s.l. 206 – 18 – 2 (completed)
Paxillaceae s.l. 351 – 9 – 3 (completed)
Strobilomycetaceae 60 – 3 – 1 (completed)
Hymenochaetales s.l. 266 – 87 – 12 (not yet tackled, will include Phellinus etc.)




RESEARCH BRANCH
DEPARTMENT OF AGRICULTURE
DIRECTION DE LA RECHERCHE
MINISTÈRE DE L'AGRICULTURE
CANADA

 Agriculture and Agri-Food Canada
Agriculture et Agroalimentaire Canada
Eastern Cereal and Oilseed Research Centre (ECORC)
Centre de recherches de l'Est sur les céréales et oléagineux (CRECO)
1811 St.irling Ave.
Sherburne, Ontario
Canada

Carolyn Babcock, Curator



CCFC = Canadian Collection of Fungal Cultures >16,000 cultures





Hélène Labbé + Louise Lefebvre (retired)

> 800 cultures sequenced (ITS & LSU), mainly mushrooms and polypores from Canada

Mushroom databases: 1115 references searched for N.A. reports

			A	B	
			77 Smith, A.H., Singer, R.	1945	A monograph on the genus <i>Cystoderma</i>
			78 Smith, A.H., Singer, R.	1955	New species of <i>Galerina</i>
			79 Smith, A.H., Singer, R.	1958	New species of <i>Galerina</i>
			80 Smith, A.H., Singer, R.	1964	A monograph on the genus <i>Galerina</i> Earle
			81 Smith, A.H., Solheim, W.G.	1953	New and unusual fleshy fungi from Wyoming
			82 Smith, A.H., Stuntz, D.E.	1950	New or noteworthy fungi from Mt. Rainier National Park
			83 Smith, A.H., Stuntz, D.E.	1958	Studies on the genus <i>Pluteus</i> I. Redescriptions of American species based on a study of type species
			84 Smith, A.H., Thiers, H.D.	1968	Notes on <i>Boletes</i> - I, 1. The generic position of <i>Boletus subglabripes</i> and <i>Boletus chromapes</i> . 2. a comparison of four
			85 Smith, A.H., Thiers, H.D.	1971	The <i>Boletes</i> of Michigan
			86 Smith, A.H., Thiers, H.D., Watling, R.	1966	A preliminary account of the North American species of <i>Leccinum</i> , Section <i>Leccinum</i>
			87 Smith, A.H., Thiers, H.D., Watling, R.	1967	A preliminary account of the North American species of <i>Leccinum</i> , Sections <i>Luteoscabra</i> and <i>Scabra</i>
			88 Smith, A.H., Thiers, H.D., Watling, R.	1968	Notes on species of <i>Leccinum</i> I. Additions to Section <i>Leccinum</i>
47490	<i>Armillaria</i>	<i>ostoyae</i>	89 Smith, A.H., Trappe, J.M.	1972	The higher fungi of Oregon's Cascade Head Experimental Forest and vicinity - I. The genus <i>Phaeocollybia</i> (Agaricales)
47491	<i>Armillaria</i>	<i>sinapina</i>	90 Smith, A.H., Walters, M.B.	1943	A new species of <i>Tricholoma</i>
47492	<i>Armillaria</i>	<i>gallica</i>	91 Smith, A.H., Walters, M.B.	1944	A new species of <i>Crinipellis</i> from Ohio
47493	<i>Armillaria</i>	<i>cepistipes</i>	92 Smith, A.H., Walters, M.B.	1947	Notes on the genus <i>Armillaria</i>
47494	<i>Armillaria</i>	<i>nadsnona</i>	93 Smith, A.H., Wehmeyer, L.E.	1936	Contributions to a study of the Fungus Flora of Nova Scotia II, <i>Agaricaceae</i> and <i>Boletaceae</i>
47495	<i>Armillaria</i>	<i>obscura</i>	94 Thiers, H.D., Smith, A.H.	1966	An undescribed <i>Bolete</i> in the <i>B. rubellus</i> group
47496	<i>Armillaria</i>	<i>bulbosa</i>	95 Thiers, H.D., Smith, A.H.	1967	Comments on <i>Suillus amabilis</i> and <i>Suillus lakei</i>
47497	<i>Armillaria</i>	NABS V	96 Thiers, H.D., Smith, A.H.	1969	<i>Hypogeous Cortinarii</i>
47498	<i>Armillaria</i>	NABS XI	97 Josserand, M., Smith, A.H.	1937	Notes on the synonymy of French and American agarics - I
47499	<i>Armillaria</i>	NABS IX	98 Josserand, M., Smith, A.H.	1941	Notes on the synonymy of French and America agarics - II
47500	<i>Neolentinus</i>	<i>kauffmanii</i>	99 Redhead, S.A., Smith, A.H.	1983	<i>Lactarius neotabidus</i> nom. nov. for <i>Lactarius canadensis</i> Smith
47501	<i>Lentinus</i>	<i>kauffmanii</i>	100 Redhead, S.A., Smith, A.H.	1986	Two new genera of agarics based on <i>Psilocybe corneipes</i> and <i>Phaeocollybia perplexa</i>
47502	<i>Pholiota</i>	<i>populnea</i>	101 Guzman, G., Smith, A.H.	1978	Three new species of <i>Psilocybe</i> from the Pacific-Northwest in North America
47503	<i>Pholiota</i>	<i>destruens</i>	102 Ovrebo, C., Smith, A.H.	1979	Studies on <i>Tricholoma vaccinum</i> and <i>Tricholoma imbricatum</i> in North America
47504	<i>Tricholoma</i>	<i>magnivelare</i>	103 Singer, R., Smith, A.H.	1958	New species of <i>Psilocybe</i>
47505	<i>Tricholoma</i>	<i>magnivelare</i>	104 Singer, R., Smith, A.H.	1958b	Mycological investigations on <i>teonanacatl</i> , the Mexican hallucinogenic mushroom. Part II. A taxonomic monograph
47506	<i>Agaricus</i>	<i>bisporus</i>	105 Smith, A.H.	1949	Mushrooms in their natural habitats
47507	<i>Agaricus</i>	<i>bisporus</i>	106 Smith, A.H., Evenson, V.S., Mitchel, D.H.	1983	The veiled species of <i>Hebeloma</i> in the western United States
47508	<i>Tricholoma</i>	<i>ponderosum</i>	107 Smith, A.H.	1938c	Common edible and poisonous mushrooms of southeastern Michigan
47509	<i>Russula</i>	<i>paludosa</i>	108 Smith, A.H., Thiers, H.D.	1964	A contribution toward a monograph of North American species of <i>Suillus</i> (<i>Boletaceae</i>)
47510	<i>Russula</i>	<i>decolorans</i>	109 Smith, A.H., Clemencen, H.	1978	Die <i>Verweshslung</i> des <i>Lactarius lepidotus</i> mit <i>Lactarius griseus</i> in Europa
47511	<i>Lactarius</i>	<i>aquifluus</i>	110 Smith, A.H.	1963	The mushroom hunter's field guide revised and enlarged
47512	<i>Tricholoma</i>	<i>caligatum</i>	111 Smith, A.H.	1975	A field guide to western mushrooms
47513	<i>Armillaria</i>	<i>caligata</i>			Nagasawa 1983a: 36-37
47514	<i>Tricholoma</i>	<i>zelleri</i>			Nagasawa 1983b: 34-37
47515	<i>Tricholoma</i>	<i>zelleri</i>	occidentalis		Nagasawa 1983b: 34-37
47516	<i>Tricholoma</i>	<i>ponderosum</i>			Nagasawa 1983c: 36-39
47517	<i>Collybia</i>	<i>velutipes</i>			Nagasawa 1983c: 36-39
47518	<i>Agaricus</i>	<i>campestris</i>			Dearness 1901b: 307
47519	<i>Lepiota</i>	<i>naucinoides</i>			Dearness 1911: 76
47520	<i>Fuscoboletinus</i>	<i>paluster</i>			Dearness 1911: 76
47521	<i>Boletinus</i>	<i>paluster</i>			Pomerleau 1964: 708
47522	<i>Boletus</i>	<i>paluster</i>			Pomerleau 1964: 708
47523	<i>Boletinellus</i>	<i>paluster</i>			Pomerleau 1964: 708
47524	<i>Amanita</i>	<i>wellsii</i>			Pomerleau 1964: 708
47525	<i>Amanita</i>	<i>onusta</i>			Pomerleau 1975: 191-194
47526	<i>Agaricus</i>	<i>onustus</i>			Pomerleau 1975: 194-196
47527	<i>Lepiota</i>	<i>drymonia</i>			Pomerleau 1975: 194
47528	<i>Amanita</i>	<i>jacksonii</i>			Pomerleau 1975: 194
47529	<i>Amanita</i>	<i>umbonata</i> Pomerleau			Pomerleau 1984b: 329-330
47530	<i>Amanita</i>	<i>pellucida</i> nom. invalid.			Pomerleau 1984b: 329

Virtually all
A.H. Smith
mushrooms
indexed from
publications



M A O

MYCOLOGUES AMATEURS DE L'OUTAOUAIS

					
<u>INTRODUCTION</u>	<u>MYCOLOGIE</u>	<u>MYCOPHAGIE</u>	<u>INTOXICATION</u>	<u>ACTIVITÉS</u>	<u>RÉFÉRENCES</u>

Bienvenue sur le site :

Les mycologues amateurs de l'Outaouais
Fondé en 1978



1950
CERCLE DES MYCOLOGUES DE MONTRÉAL INC.
2010



- * Actualités *
- * Quoi de neuf *
- * Activités de découvertes *
- * Étude des champignons *
- * Fungarium *
- * Portraits de champignons *
- * Mycogastronomie *
- * Outils *
- * Où les trouver *
- * Boutique virtuelle *
- * Recherche *
- * Devenir membre *
- * À propos *
- * Plan du site *
- * Nous écrire *

<http://www.mycomontreal.qc.ca>

Fungarium of the 'Cercle des mycologues de Montréal'

2008 list of species, by Yves Lamoureux

4101 specimens representing 1900 species
<http://www.mycomontreal.qc.ca/etude/fungarium.php>

Mycena strobilinoidea Pk
Mycena stylobates (Pers. : Fr.) Kumm.
Mycena subcaerulea (Pk) Sacc.
Mycena vulgaris (Pers. : Fr.) Kumm.
Pseudobaeospora microspora (Ellis) Y. Lamoureux comb. prov.
Resinomycena acadensis Redh. & Sing.
Resinomycena rhododendri (Pk) Redh. & Sing.
Rhizomarasmius pyrrocephalus (Berk.) Pet.
Rhodocollybia butyracea (Bull. : Fr.) Lenn.
Rhodocollybia maculata (Alb. & Schw. : Fr.) Sing.
Rhodocollybia maculata var. *scorzonerea* (Alb. & Schw. : Fr.) Lenn.
Rickenella fibula (Bull. : Fr.) Raith.
Rickenella setipes (Fr.) Raith.
Xeromphalina campanella (Batsch : Fr.) K.Yhn. & Mre
Xeromphalina cornui (Qué.) Favre
Xeromphalina kauffmanii Sm.
Xeromphalina tenuipes (Schw.) Sm.
Xerula furfuracea (Pk) Redh., Ginns & Shoem.
Xerula megalospora (Cl.) Redh., Ginns & Shoem.
Xerula pseudomegalospora Y. Lamoureux nom. prov.
Xerula rubrobrunnescens Redh., Ginns & Shoem.

Cortinaires, Crépîdotes, Galérines, Hébélomes, Inocybes et analogues

Cortinarius abieticola Y. Lamoureux nom. prov.
Cortinarius acutus (Pers. : Fr.) Fr.
Cortinarius aestivalis Y. Lamoureux nom. prov.
Cortinarius albidus Pk
Cortinarius alboviolaceus (Pers. : Fr.) Fr.
Cortinarius angelesianus Sm.
Cortinarius annulatus Pk
Cortinarius anomalus (Fr. : Fr.) Fr.
Cortinarius argutus Fr.
Cortinarius armeniacus (Sch. : Fr.) Fr.
Cortinarius armillatus (Fr. : Fr.) Fr.
Cortinarius aromaticus Y. Lamoureux nom. prov.
Cortinarius atkinsonianus Kauffm.
Cortinarius atrocoeruleus Mos. ex Kuhnert & Peintner
Cortinarius atropisillus Favre
Cortinarius aurilicis Chevass. & Tresc.
Cortinarius azureus Fr.
Cortinarius balaustinus Fr.

Plus de 1000 espèces décrites
 Environ 1400 photos
 Initiation aux champignons
 Clés d'identification
 Indices de comestibilité
 Où et quand faire la cueillette
 Recettes
 Encore plus !



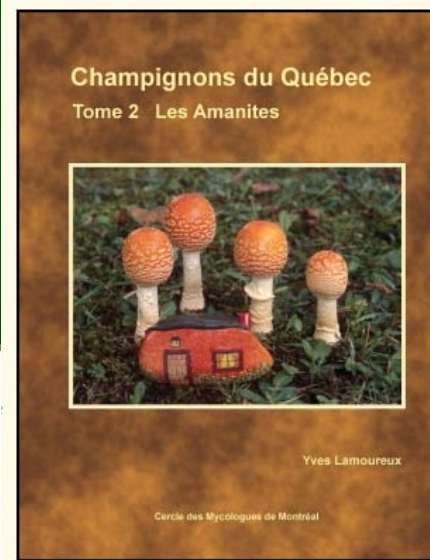
Mille et un champignons
du Québec

Cercle des mycologues de Montréal

Pour PC seulement (voir la configuration requise)

Produit par le Cercle des mycologues de Montréal avec la collaboration du Cercle des mycologues de Sept-Îles et du Cercle des mycologues amateurs de Québec.

Auteurs : Jean Després, Yves Lamoureux, Raymond Boyer, Raymond Archambault et André Jean



Québec Mycoflora project

- Started in August 2009
- Myco-Québec group
- Cercle des Mycologues Amateur de Québec
- Cercle des Mycologues de Montréal
- fresh samples only
 - subsamples frozen for DNA extraction
 - specimens dried for voucher
 - photos available

Report by Jean Bérubé



- 1430 fresh specimens collected
- 1011 species
- 822 species collected once
- 83 species collected twice
- 39 species collected three times
- 29 species collected four times
- 11 species collected five times
- 9 species collected 6 times (*Lycoperdon perlatum*, *Leccinum holopus*)
- 4 species collected 7 times (*Lactarius turpis*, *L. griseus*, *L. affinis*)
- 1 species collected 8 times (*Hygrophoropsis aurantiaca*)
- 2 species collected 9 times (*Leccinum snellii*, *Russula maculata*)
- 1 species collected 11 times (*Lactarius thyinos*)

- 1430 specimens available
- 914 sequenced
- 61.5% matched with BLAST in Genbank (562)
- 19.8% unmatched as species absent from Genbank (181)
- 8.2% unusable sequences (75)
- 3.9% mislabelled (36)
- at least 6.6% erroneous identifications by amateur mycologists (60)

Contribution of citizen scientists: cost per sample

- Field sampling: \$8* (in kind by mycological clubs)
- Identifications: \$20 (in kind by amateur specialists)
- DNA extraction and lab work: \$4, in cash
- Student lab work: \$30 (in kind by internship students)
- PCR + sequencing: \$5, in cash
- Vouchering: \$30 (in kind, done by collector who receives a tax receipt upon donation to an herbarium)
- Data entry: \$1 (in kind by intership students)
- Data validation: \$10 (in kind by amateur specialists)

Total: \$108 (\$9 in cash, \$99 in kind)

*cost estimate if we had to pay salaries, vehicles, food and accommodations

OMPHALINA

ISS: 1925-1930



Newsletter of  **FORAY**
NEWFOUNDLAND
AND LABRADOR

Vol. III, No 6
Jun 21, 2012

Andrus Voitk

LICHENS added!



FORAY NEWFOUNDLAND AND LABRADOR

2012 2012 2012
2012 2012
2012 2012 2012
2012 2012
2012 2012 2012
2012 2012
2012 2012

Terra Nova National Park

Headquarters: *Terra Nova Hospitality Home*

September 28-30, 2012

GUEST FACULTY

David Boertmann
Gro Gulden
Nils Hallenberg
Renée Lebeuf
Faye Murrin
Todd Osmundson
Michele Piercy-Normand
Roger Smith
Greg Thom
Steve Trudie

EARLY BIRD
Registration For

BEFORE JUNE 30



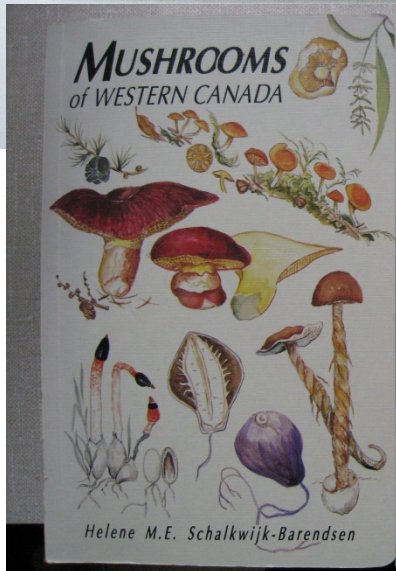
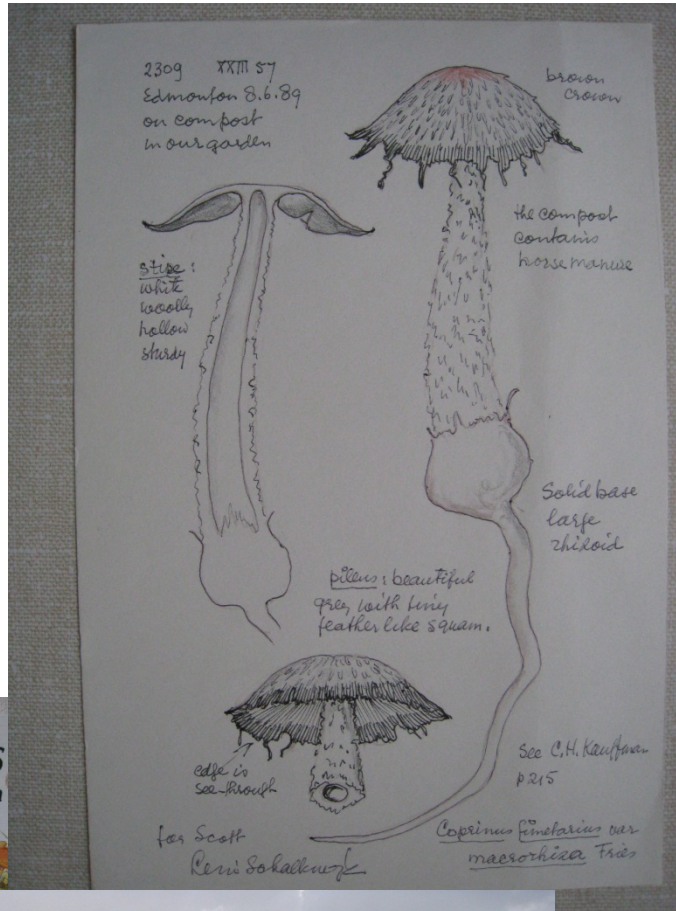
FORAY NEWFOUNDLAND AND LABRADOR

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Omphalina

Click on the issue you wish to read. The issue will appear in Adobe's Acrobat Reader in a separate window. Use the Acrobat toolbar options to download the issue to your computer or to print a copy. **Warning:** the colour photographs in each issue require a significant amount of ink on inkjet printers.

Volume One	Volume Two	Volume Three
Issue 1	Issue 1	Issue 1
Issue 2	Issue 2	Issue 2
Issue 3	Issue 3	Issue 3
Issue 4	Issue 4	Issue 4
Issue 5	Issue 5	Issue 5
Issue 6	Issue 6	Issue 6
Issue 7	Issue 7	
	Issue 8	
	Issue 9	



Alberta
Mycological
Association





Capilano River Regional Park Fungi

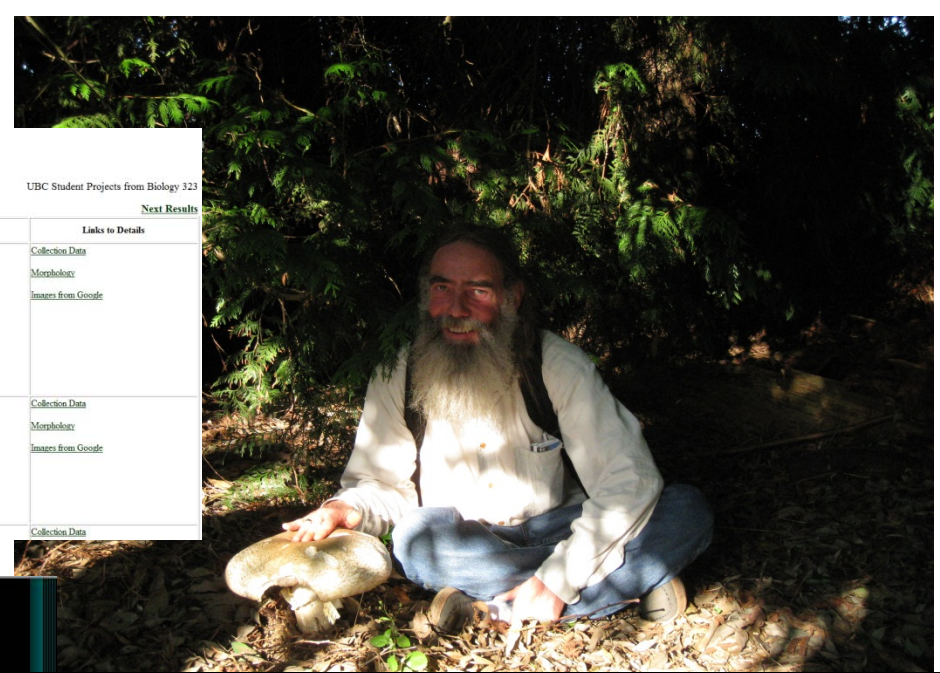
Genus Search

Displaying records 1 through 25 of 312 records found.

UBC Student Projects from Biology 323

Next Results

Genus Species	Collector (see Cited by)	Pictures Click on image to enlarge	Links to Details
<i>Alpova cf. diplobloves</i>	Eric Carrubers	 	Collection Data Morphology Images from Google
<i>Amanita constricta</i>	Khoo Nguyen		Collection Data Morphology Images from Google
			Collection Data







mycology beats urology anyday - Bryce Kendrick

About 

"VMS advocates the retention of prime mushroom areas; believes in the maintenance of a healthy ecological community of native species by conserving large areas of forest."

The VMS is a group of individuals who share a common interest in mushrooms and fungi. There seems to be as many different approaches to enjoying the humble fungus as there are different people. Some like photography or that nice combo interest of Mycology and travel. There are mushrooms all over the world and at our regular monthly meetings, we have had guest speakers give veritable travel slide shows of holidaying fungi! Stamp collecting, drawing, painting, poetry, song, dance. Okay maybe we are pushing the envelope a little here but you get the drift. Many ways to appreciate the mushrooms. Learning about the structure of mushrooms, the common names and the scientific names as well as which ones make good eating is all part of the clubs activities. The path of mycological development might be: interest ? followed by enthusiasm ? followed by learning ? followed by forays and collecting ? followed by dinner!

✉ The Vancouver Mycological Society
Box 181
#101 - 1001 West Broadway
Vancouver, BC Canada V6H 4E4

@ info@vanmyco.com

we are here 

What does VMS actually do?

- Conducts monthly meetings, often with with a guest speaker. Meetings are held on the 2nd Tuesday of every month (except January, July, & August) in the Floral Hall of Van Dusen Botanical Garden, Oak & 37th Avenue, 7:30 pm.

Officers

President: James Holkko

Vice-president: Paul Kroeger



UBC Herbarium




[main](#) | [about us](#) | [collections](#) | [database](#) | [people](#) | [visitors](#) | [contribute](#) | [shop](#) | [newsletters](#)

Fungal Collection

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UBC Herbarium Fungal Database: [Search](#)

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History

The collection started form a single case before 1960 by Frank Dickson, with no more than one or two thousand cultures. The original herbarium was contained in a single file case, filed in packets, in the order they were added to the collection and an alphabetized list of cards directed one to each species/ or specimens

Collection

In the past four decades, the collection has grown slowly to the present size of around 15,000 specimens. The collection is small relative to other major fungal collections, however Tremellales is well covered due to Dr. R.J. Bandoni's interest and research in the group. The collection housed a few of his types in the groups: *Fibulobasidium sirobasidioides*, *Mycogloea amethystina*, *M. bullatospora*, *M. nipponica*, *Sirotrema parvula* and *S. pusilla*. The Agaricales (mushrooms) section had expanded rapidly in the recent years. Paul Kroeger, past President of the Mycological Society of Vancouver, and other members have contributed to the strength of collection.

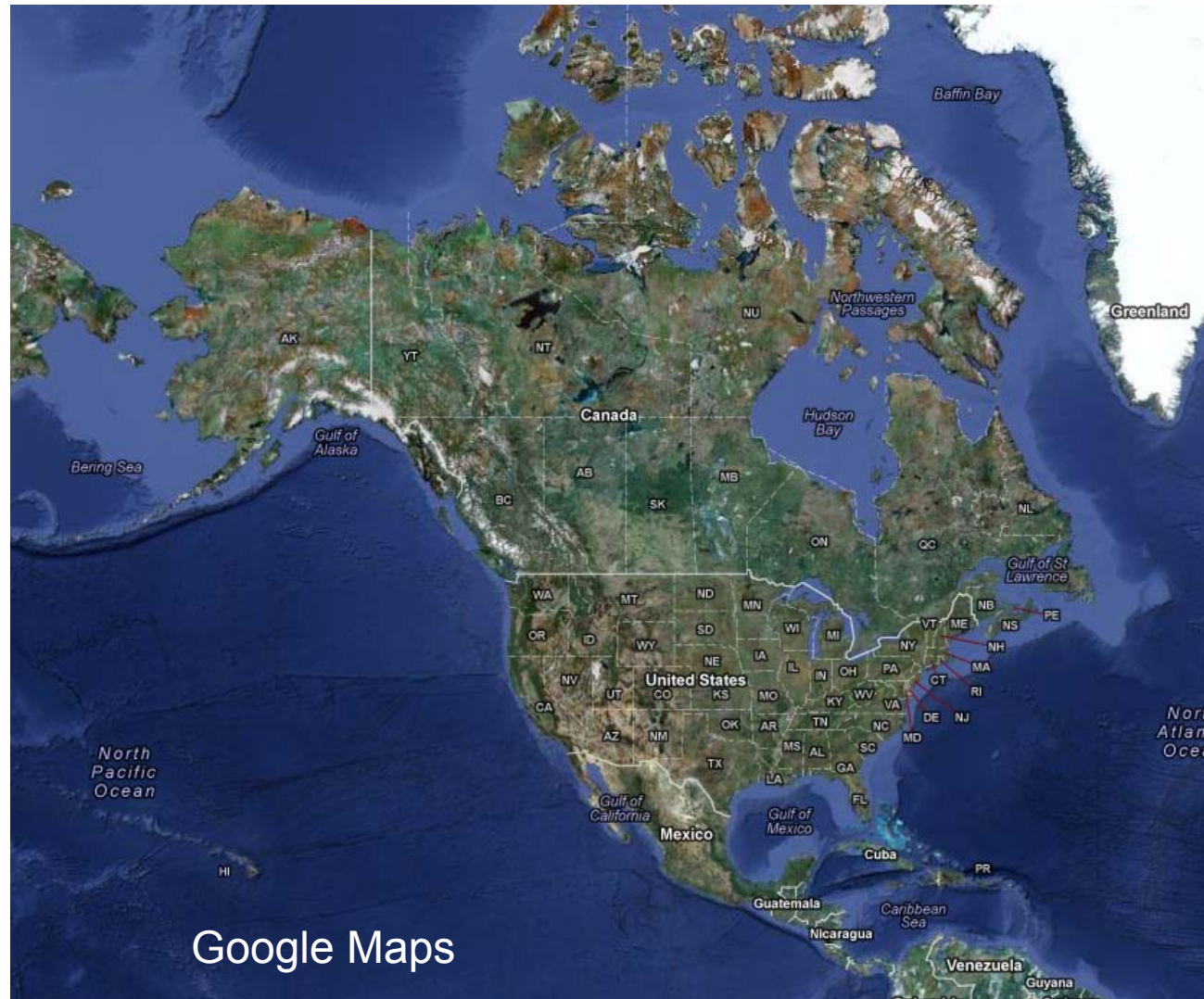
The fungal collection is arranged taxonomically by orders based mainly on "an old system". Within each order the specimens are arranged alphabetically by genera. An index of genera of which order they are filed under and the range of cabinets that house the order is available of users of the collection.

Database

The UBC Herbarium Fungal database is complete and includes label information for all accessioned specimens in our Fungal Collection. Most of the data have not yet been edited for typographical errors, and most annotations for nomenclatural and taxonomic changes in the last 20 years have not been added since the data were originally entered. There are currently over 15,000 specimens databased, with new additions each year.

University of British Columbia, and the Vancouver Mycological Society

North American Mycoflora project logo



Canada: 9,984,670 sq km

U.S.A.: 9,826,675 sq km

Mexico: 1,964,375 sq km

> 3,800 vascular plants

> 19,400 vascular plants

> 26,000 vascular plants

> <http://rainforests.mongabay.com/03plants.htm>

The large sub-unit



