ANNUAL FUNGI REPORT

February 2001

WINTER COVE PROVINCIAL PARK

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Permit SV9710081

SATURNA ISLAND ECOLOGICAL RESERVE

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Permit SV9710082

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Table of Contents

Introduction

This research project began in August of 1997 when I was granted permission to do fungal inventory and research work in Winter Cove Provincial Park and Ecological Reserve # 15, both on Saturna Island. Since that time I have made 87 trips into the Reserve and 61 trips to the Park. This year accounted for 22 of those trips to the Reserve and 16 to the Park.

On most of these trips my husband, Harvey Janszen, a botanist who also does terrestrial ecosystem classification work, accompanied me. He is responsible for the work that has sectioned the Reserve into the terrestrial ecosystem polygons I use in my collecting data. He is also my photographer and is responsible for the many pictures in this report. This past year I have also the pleasure of being accompanied by Mr. James (Jim) Ginns while hosting him on two collecting trips to Saturna Island. Jim Ginns is a well know expert who specializes in the Corticioid fungi, loosely described as being wood rotting fungi that have no stem, pores or gills.

This report inventories those species found from February 1, 2000 to February 28, 2001. Annotated records for the previous years may be found in the annual reports of November 1997, February 1999 and February 2000. The appendices of this report contain separate lists of all species collected in the Reserve and in the Park since the inception of this project.

In addition to the inventory work, I also record the occurrence of each species of fungi encountered. Using a checklist of previously collected fungi, I note each known species encountered on a trip. Sample checklists for the Park and the Reserve are included in the appendices. Based on information from these checklists, this report contains updated data regarding the abundance and season of those fungi collected thus far.

I have increased the amount of territory I study each year. This year I have extended Trails 1 and 3 in the Reserve. Maps of the areas studied are located in the appendices.

Most of my increased effort this year involved more complicated data collection; I have extended the checklist data from species seen on a trail in the Ecological Reserve to include those seen in the polygons on that trail. While it is to early yet to make use of this data, it will be very valuable later when it is cross-referenced with each polygon's specifics, i.e. soil type and vegetation.

General Observations

Because this research is my "hobby" rather than my job, the time I can devote to it is limited by my less interesting, but more financially rewarding work. This tends to skew my results somewhat. I do not have enough time to visit all the areas as often or as regularly as I would like and I may miss a fungus such as the Entoloma bloxamii that I have only found twice on Saturna. The first year I found it on October and this year I found it in the exact spot, but on September 4th.
The time I have to spend identifying, drying, recording and storing the specimens from the field trips is similarly limited. The reader who is familiar with fungi will notice a surprising lack of Cortinarius species in Winter Cove Park. There are in fact, many "Corts" in the park, but I have yet to tackle their identification. There are also many more Corts in the Reserve than I have identified. These and

many species of Mycena, Inocybe and Russula have been passed over and await a time when those species which interest me more or that more readily lend themselves to identification are not equally plentiful. As defined, this project is a long-term effort and eventually time will minimize these anomalies, but in the meantime I ask the reader to be mindful of these facts.

Occurrence Rating Observations

As I stated in last year's report, although it is very early in a long-term study to look for trends or draw conclusions, it is interesting to look at the early data. The occurrence data is based on the checklists and on field notes made prior to my using checklists. Because my data has been gathered in a relatively short time I expect some of the occurrence and abundance ratings of a species to change over time. Those ratings are noted with an asterisk and may be affected by a variety of circumstances. It may be a fungus that is relatively difficult to distinguish or one that is not often encountered because it develops underground. Or, as in the case of the slime mold Stemonitis splendens, the reason may not be clearly evident.

Stemonitis splendens was given a rating as C* in last year's report, meaning that it was Common, but quite likely to be changed. At the time, I had thought it might eventually be classified as Abundant. I had encountered it many times in the Park and in other areas on Saturna as well in the past 3½ years. There were even particular logs where I could depend on finding it fruiting regularly throughout the spring and summer. This past year however, I did not encounter it a single time and so I have given it a new rating as Uncommon*. There is an Environment Canada Weather Station on Saturna and I have subscribed to their data service and have details of the precipitation and temperature from 1997 through August 1999. As the more current data arrives, perhaps this information will shed some light on the spotty occurrence of *Stemonitis splendens*. Or perhaps this year will be shown to be very unusual and *S. splendens* will be common again for several years to come. What *is* clear, however, is that it will take many years of study to begin to understand the habits of the fungi of Saturna Island.

The months noted in this occurrence data are those months in which the fungi were found. This is relatively straightforward for fungi with short-lived fruiting bodies. However, some fungi, such as some polypores and crusts are perennials and are present year round. Still others, such as puffballs and annual polypores, have fruiting bodies that can remain long after the fungus has shed its spores. It is difficult to put an exact month to the sightings these fungi as they may be seen year round.

This chart is a continuation of last year's listings and uses variations of the letter "x" to relay the following information:

x : fungi that are new to the list this year
X: fungi as they were on the list last year
X: fungi on the list last year found in a new month this year
x: fungi found Year Round
x, X, *x, X* : fungi found Year Round actively growing

The numbers in the occurrence data correspond to the number of outings on which the fungus was sighted. It is *not* an indicator of the actual abundance of that particular species on that day. For example, on a single trip I may see several hundred *Guepiniopsis alpinus* and only two *Clavariadelphus ligula,* yet both will receive a rating of "1" for the trip. These numbers are difficult to assign to the polypores and crusts, therefore, the perennial fungi are assigned the designation YR (Year Round), as are those annuals whose fruiting bodies are long lasting.

The occurrence ratings are based on my knowledge of the fungi of Saturna Island as a whole. The numbers mentioned in the paragraph above will give some indication as to the occurrence of these fungi in the Park and the Reserve, however, this work covers only a very few years and this data is not very conclusive yet.

Whether a fungus is **A** - abundant, **C** - common, **U** - uncommon or **R** - rare, is noted to the right of the outings for each listing. The guidelines for this connotation are taken from Ian Gibbson's Checklist for Larger Fungi on Vancouver Island.

Those ratings are as follows:

- **A** Abundant: identified on the majority of outings to suitable habitat at the best time of year in the best weather conditions
- **C** Common: identified virtually every year but not on the majority of outings
- **U** Uncommon: identified on five or more occasions but not every year
- **R** Rare: identified on less than five occasions

For comparisons sake, I have also included the abundance ratings for the fungi in the Vancouver Island Checklist. Because not all fungi found on Saturna have been found on Vancouver Island (and vice-versa), a comparison cannot always be made. Even at this early stage it is interesting to see we have some fungal ratings in common, while other fungi appear to be more common here than on the Vancouver Island, and vice-versa. It should be noted that this data may be strongly influenced by the collecting habits of those individuals involved.

Fungal Inventory Observations

In the past year I made 16 trips into Winter Cove Park and added 53 species to my collections. I also made 22 trips into the Ecological Reserve and added 83 species to my inventory there. This inventory is an annotated list of those fungi, Winter Cove Park specimens # 170 - # 223 and Ecological Reserve specimens # 282 - # 365. It is ordered by collection number and contains the following information:

Taxon: Genus, and species when determined, is noted.

Date: Date the specimen was collected.

Collection #: This refers to my field book, which lists the collection date, habitat and location of this specimen as well as other relevant information.

Spore sample: Whenever possible, each specimen is accompanied by a spore sample deposited on a plastic slide, covered with a plastic cover slip and sealed with a clear lacquer.

Population: The population observed refers to specimens found the same day and on the same trip as the collected specimen. Population size is noted as a, b, c or d.

a: one specimen only
b: one to five specimens observed
c: six to ten specimens observed
d: more than ten specimens observed.

Location: The location refers to areas that are noted on the accompanying maps.In the case of Winter Cove Park, the trail referred to is the established provincial park trail. The other areas referred to are the picnic area and the previously mentioned area parallel to East Point Road in the Park's Southeast corner. In the Ecological Reserve the trails referred to are those I have established and marked with surveyor's tape. Some of these trails have been broken down into sections in order to give more specific locations.

Photograph: With the exception of the photographs of *Gloeophyllum saepiarium* and *Tricholoma imamoenum* and *Phylloporus rhodoxanthus* all photographs were taken on Saturna Island. However, as there is no need to have multiple photographs of every species, one photo is often used to represent all Saturna collections. These photographs are only used to represent multiple collections when I am certain of my identifications. G. saepiarium and T. imamoenum were photographed on the west coast of Vancouver Island and P. rhodoxanthus on Texada Island.

Habitat: This is a very brief description of specific habitat, i.e. does it grow on a coniferous forest floor or on hardwood or in an open field. Reference to wood or forest or forest floor without qualifiers such as conifer or hardwood means both are know to occur and the association is not known.

Notes: Any unusual details regarding this particular fungus.

Identification and Storage

A dissecting microscope with magnification of 20x and 40x and a compound microscope with magnification of 40x, 100x, 400x and 1000x were used in identifying the collected specimens. The reference material used is noted in the appendices as are the various chemical solutions and stains used to aid in my identifications.

Specimens are kept in separate collections, one for the park and one for the reserve. Specimens are dried, labelled and stored in airtight containers. Most are kept in my lab on Saturna Island. Two Russula specimens are with Russula scholar, Christine Roberts, at the University of Victoria. Several specimens collected by Jim Ginns are stored in his personal collection in Penticton; these are

mentioned in the notes of the Inventory. This year I also made duplicate collections of several Reserve and Park species, which are deposited with Ms. Olivia Lee at the University of British Columbia Herbarium in Vancouver. These are listed in the appendices.

Future Research

In the coming year, I will continue to collect and identify new species of fungi and to record previously observed fungi on the appropriate checklist. I hope to be able to entice Jim Ginns back to Saturna for more collecting. Several of the fungi in the first batch we collected were previously unknown to the west coast. Some were new to B.C., some to western Canada, some to North America and some appear to be new species altogether.

I will also continue to make duplicates of my collections in the Reserve and the Park, as well as my other collections on Saturna, for the Herbarium at the University of British Columbia. Ms. Olivia Lee, the curator, invited me to deposit my collection there for the use of scholars at UBC and those at other institutions that might like to borrow them. However, as I use the collection quite regularly myself duplicating it seemed the ideal solution.

In June I expanded my checklist work and began recording the species as they occurred in each polygon in the Reserve. The collection of this additional data slows me down and when there are a lot of fungi fruiting I have had to take two days to cover the ground I could once do in one. This year I plan to redesign my checklists to better facilitate including this additional data. I would also like to figure out some way to record the relative abundance of each species, but for now, the polygon checklists will give a better idea of how many areas a fungus fruits in.

In the long term, I look forward to being able to see if there is a correlation between rainfall, temperature and fungal fruiting. Will the documentation prove the obvious expected correlation between rain and fungi? As the data builds regarding which months the fungi fruit in, I hope to see if they respond to temperature as well. Will the spring fungi fruit earlier the same year the wild current blooms earlier? And as long-term goal, what will the correlation be between the soil and plant types in the various polygons and the fungi that grow there?

And finally, the answer to the question in last year's report, "What is the name for the brown crust in the photograph on the bottom of page 7?" With great anticipation, we took our crust expert, Jim Ginns, to have a look and he informed us it was not a fungus at all. He'd never seen anything like it before either, but it appears to be some non-live residue from trees scraping against one another. No matter how many times we go to the woods, there always seems to be something new to discover.

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Winter Cove Park Annotated Inventory

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Helvella villosa

Aleurodiscus grantii
d / bark of standing dead Douglas fir
March 19, 2000
No / Winter Cove Park Trail section D
No / 170 WCP
Jim Ginns

Helvella villosa
d / coniferous forest floor
June 4, 2000
Yes / Winter Cove Park Trail sec C
Yes / 171 WCP
a great deal of this population was removed when the trail edge was weed whacked. This species has not been recorded on Vancouver Island.

Phaeolus schweintzii – very young

Phaeolus schweintzii
a / coniferous forest floor
September 3, 2000
No / Winter Cove Park Trail sec B
No / 172 WCP

Ganoderma (tsugae?)
b / decaying stump
September 3, 2000
Yes / Winter Cove Park Trail sec B
No / 173 WCP
this specimen has a distinct stem. It has been taken by J. Ginns to determine the species

Phaeolus schweintzii – nearly mature

Psathyrella gracilis
d / forest floor
October 15, 2000
Yes / Winter Cove Park Trail sec C
No / 174 WCP

P. schweintzii – underside with toothed hymenium

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Lycoperdon pyriforme
b / decaying wood
October 15, 2000
No / Winter Cove Park Trail sec C
No / 175 WCP

Cystoderma amianthinum variety rugosoreticulatum

Cystoderma amianthinum var rugosoreticulatum
a / mossy forest floor
November 1, 2000
Yes / Winter Cove Park Trail sec H
No / 176 WCP
this variety of C. amianthinum is very common on Saturna

Hygrophorus chrysodon
a / coniferous forest floor
November 13, 2000
Yes / Winter Cove Park Trail sec C
Yes / 177 WCP

Hygrocybe chrysodon

Leptonia roseifolia
d / forest floor
November 1, 2000
Yes / Winter Cove Park Trail sec C
No / 178 WCP

Inocybe pudica
d / forest floor
November 1, 2000
Yes / Winter Cove Park Trail sec C
No / 179 WCP
one of the most common mushrooms on Saturna

Callistosporium luteo-olivaceum
b / debris from decaying conifer log
November 13, 2000
Yes / Winter Cove Park Trail sec C
No / 180 WCP

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Nolanea hirtipes
b / forest floor
November 13, 2000
Yes / Winter Cove Park Trail sec C
No / 181 WCP

Nolanea hirtipes

Russula brevipes
a / forest floor
November 13, 2000
No / Winter Cove Park Trail sec C
No / 182 WCP
one of the most common Russula in the park

Russula brevipes

Lycoperdon foetidum
c / forest floor
November 13, 2000
No / Winter Cove Park Trail sec C
No / 183 WCP

Hebeloma sacchariolens
d / forest floor
November 13, 2000
Yes / Winter Cove Park Trail sec B
No / 184 WCP

Lactarius sp
d / forest floor in open area
November 13, 2000
Yes / Winter Cove Park Trail sec B
No / 185 WCP

Ischnoderma resinosum
c / decaying conifer log
November 13, 2000
No / Winter Cove Park Trail sec C
No / 186 WCP
Jim Ginns

Russula brevipes – young and old

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Serpula himantioides
c / decaying Douglas-fir log
November 16, 2000
No / Winter Cove Park Trail sec B
No / 187 WCP
Jim Ginns

Polyporus hirtus
a / forest floor under Pseudotusga menziesii and Arbutus menziesii
March 28, 1984
No / Winter Cove Park
No / 189 WCP
Jim Ginns / collected by Randy Miller who sent it to P. Kroeger who sent it to J. Ginns where the specimen now resides. This species is quite common on Saturna Island. I have found it in the park, but specimens were too old to collect

Coniophora arida
c / bark on decaying fir-fir log
November 16, 2000
No / Winter Cove Park Trail sec B
No / 190 WCP
Jim Ginns

Lentinellus omphalodes
c / decaying Cytisus scoparius
November 16, 2000
No / Winter Cove Park Trail sec B
No / 191 WCP

Gloeophyllum abietinum
d / driftwood log
November 16, 2000
No / Winter Cove Park Trail sec B
No / 193 WCP
growing with G. sepiarium, identified with Fungi of Switzerland, vol. 2

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Limacella glioderma
a / forest floor
November 13, 2000
No / Winter Cove Park Trail sec C
No / 194 WCP
specimen to old to collect

Ramaria apiculata var apiculata
b / buried wood
November 30, 2000
Yes / Winter Cove Park Trail sec C
Yes / 195 WCP
green tips quite distinctive

Agaricus diminutivus
a / forest floor
November 30, 2000
No / Winter Cove Park Trail sec C
No / 196 WCP

Lactarius occidentalis
d / damp forest floor under Alnus rubra and Crataegus monogyna
November 30, 2000
Yes / Winter Cove Park Trail Sec B
No / 197 WCP
abundant in this area

Bisporella citrina
d / decaying wood
November 30, 2000
No / Winter Cove Park Trail sec B
No / 198 WCP


Bisporella citrina

Nolanea sericea
d / grassy lawn
November 30, 2000
Yes / Winter Cove Park Section I
No / 199 WCP
very abundant throughout the lawn of the picnic area

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Antrodia carbonica
a / decaying stump in alder swamp
November 30, 2000
No / Winter Cove Park Trail sec C
No / 200 WCP

Hygrophorus odoratus
c / forest floor
November 30, 2000
Yes / Winter Cove Park Trail sec C
No / 201 WCP

Clavaria vermicularis
d / forest floor
December 24, 2000
No / Winter Cove Park Trail sec H
No / 202 WCP

Tremella encephala
b / fallen conifer branch
December 24, 2000
No / Winter Cove Park Trail sec D
No / 203 WCP

Hygrocybe cuspidata
a / coniferous forest floor
December 24, 2000
Yes / Winter Cove Park Trail sec H
No / 204 WCP

Russula pectinatoides
c / coniferous forest floor
December 24, 2000
Yes / Winter Cove Park Trail sec D
No / 205 WCP

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Russula crenulata
d / coniferous forest floor
December 24, 2000
Yes / Winter Cove Park Trail sec C
No / 206 WCP

Panaellus mitis
d / dead conifer
January 6, 2001
Yes / Winter Cove Park Trail sec C
No / 207 WCP

Russula stuntzii
d / very decayed log on coniferous forest floor
January 6, 2001
Yes / Winter Cove Park Trail sec C
Yes / 208 WCP

Tricholoma flavovirens
a / forest floor
January 7, 2001
Yes / Winter Cove Park Trail sec F
No / 209 WCP

Calocera viscosa
a / coniferous forest floor
January 7, 2001
No / Winter Cove Park Trail sec C
No / 210 WCP

Calocera viscosa

Exidia (alba?)
d / decaying fallen Alnus rubra branch
January 7, 2001
No / Winter Cove Park Trail sec C
No / 211 WCP

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Meruliopsis corium
d / underside of fallen Alnus rubra branch
January 6, 2001
No / Winter Cove Park Trail sec C
No / 212 WCP

Coniophora puteana
d / bark of live standing Thuja plicata
January 7, 2001
No / Winter Cove Park Trail sec F
No / 213 WCP
Jim Ginns

Xeromphalina fulvipes
b / coniferous forest floor
January 22, 2001
No / Winter Cove Park Trail sec D
No / 214 WCP

Crustomyces pini-canadensis subsp. Subabruptus (Bourdot & Galzin) Ginns & Lefebvre
d / bark of Acer macrophyllum
January 9, 2000
No / Winter Cove Park extended
No / 215 WCP
Jim Ginns

Cylindrobasidium laeve (Pers,: Fr.) Chamuris
d / dead Alnus rubra and decaying Acer macrophyllum stump
January 9, 2000
No / Winter Cove Park extended
No / 216 WCP
Jim Ginns

Phellinus ferreus (Pers.) Bourdot & Galzin
d / fallen tree in mixed forest
January 9, 2000
No / Winter Cove Park extended
No / 217 WCP
Jim Ginns

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Phellinus viticola (Schw.: Fr.) Donk
d / fallen tree in mixed forest
January 9, 2000
No / Winter Cove Park extended
No / 218 WCP
Jim Ginns

Ceratiomyxa fruticulosa
d / decaying wood on forest floor
June 4, 2000
No / Winter Cove Park
Yes / 219 WCP

Ceratiomyxa fruticulosa

Collybia butyracea
c / forest floor
June 4, 2000
No / Winter Cove Park Trail sec C
Yes / 220 WCP

Collybia butyracea

Mycena leptocephela
b / forest floor
October 15, 2000
No / Winter Cove Park Trail sec B
No / 221 WCP

Taxon
Population / Habitat
Date
Spore sample / Location
Photograph / Collection #
Determinor / Note

Phylloporus rhodoxanthus
a / coniferous forest floor
June 4, 2000
No / Winter Cove Park Trail sec C
Yes / 222 WCP

Phylloporus rhodoxanthus

Psathyrella hydrophylla
a / decaying hardwood on forest floor
June 4, 2000
No / Winter Cove Park
Yes / 223 WCP

P. rhodoxanthus
commonly know as
"The gilled Bolete"

.**P. rhodoxanthus** note blue bruising similar to many species of Boletus. The spores are also similarly shaped.

Ecological Reserve Annotated Inventory

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Biatorella resinae

d / pitch of living Pseudotsuga menziesii
March 4, 2000
No / Ecological Reserve Trail 5
No / 282 ER

Geoglossum fallax

c / coniferous forest floor
March 26, 2000
yes / Ecological Reserve Trail 5
yes / 283 ER
Geoglossum and Trichoglossum species were very abundant this year

Geoglossum fallax

Pseudoplectania melaena

a / on root on forest floor
March 26, 2000
No / Ecological Reserve ER Trail 1 extended, polygon 3
No / 284 ER

Trichoglossum hirsutum

d / coniferous forest floor
March 26, 2000
Yes / Ecological Reserve Trail 1 extended, polygon 2
Yes / 285 ER

Coccomyces dentatus

d / fallen leaves of Mahonia nervosa
March 26, 2000
No / Ecological Reserve Trail 1 extended, polygon 2
No / 286 ER

Trichoglossum hirsutum

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Phanerochaete sanguine
d / decaying conifer wood
April 9, 2000
No / Ecological Reserve Trail 5, polygon 21
No / 287
Jim Ginns / This fungus, which turns decaying wood a bright orange/red colour, is common throughout the Reserve

Meruliopsis corium
d / fallen branches of Alnus rubra
April 9, 2000
No / Ecological Reserve Trail 5, polygon 24
No / 288 ER
Jim Ginns

Agrocybe praecox group
d / coniferous forest floor
April 9, 2000
Yes / Ecological Reserve Trail 5, polygon 21
No / 289 ER

Polyporus badius
c / decaying wood
May 7, 2000
No / Ecological Reserve Trail 2 extended
No / 290 ER

Amanita aprica
c / coniferous forest floor
May 7, 2000
Yes / Ecological Reserve Trail 2, section D
No / 291 ER

Cudonia circinans

Cudonia circinans
d / mossy coniferous forest floor
June 4, 2000
Yes / Ecological Reserve Trail 3, polygon 12
Yes / 292 ER

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Russula (mariae?)
a / coniferous forest floor
June 25, 2000
No / Ecological Reserve Trail 2, polygon 4
No / 293 ER

Didymium melanosperum
d / on conifer bark and twigs on forest floo
July 16, 2000
No / Ecological Reserve Trail 5, polygon 24
Yes / 294 ER

Didymium melanosperum

Collybia dryophila
d / coniferous forest floor
July 29, 2000
Yes / Ecological Reserve Trail 2 extended
Yes / 295 ER

Lampoderma sauteri
d / conifer twig on forest floor
July 30, 2000
No / Ecological Reserve 3 extended, polygon 16
No / 296 ER

Tuberifera ferruginosa
a / mossy decaying log in conifer forest
July 16, 2000
No / Ecological Reserve Trail 5, polygon 24
Yes / 297 ER

Tuberifera ferruginosa

Osteina obducta
b / decaying tree in conifer forest
September 4, 2000
No / Ecological Reserve Trail 2, sec E, polygon 4
No / 298 ER

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Pleurotus ostreatus
b / decaying conifer log
April 9, 2000
Yes / Ecological Reserve Trail 2, sec A, polygon 2
No / 299 ER

Mycena rubromarginata
a / conifer twig n forest floor
September 4, 2000
Yes / Ecological Reserve Trail 2, polygon 4
No / 300 ER

Ramaria araiospora var araiospora
d / coniferous forest floor
September 10, 2000
Yes / Ecological Reserve Trail 3, polygon 12
Yes / 301 ER

Ramaria araiospora var araiospora

Mycena rorida
d / dead twig in coniferous forest
September 10, 2000
No / Ecological Reserve Trail 3, polygon 12
No / 302 ER

Clavicorona avellanea
d / decaying conifer wood on forest floor
September 10, 2000
Yes / Ecological Reserve Trail 5, polygon 19
No / 303 ER

Tricholoma pardinum
b / coniferous forest floor
October 14, 2000
Yes / Ecological Reserve Trail 1 extended, polygon 2
Yes / 304 ER
The slug that was eating this fungus was lying belly up below it and looking quite unhealthy. This is the only time I have encountered a slug that appeared to be adversely affected by eating a fungus. I found T. pardinum several times this fall - I have not previously encountered it on Saturna

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Hypomyces lactiflorum
a / roadside in coniferous forest
October 14, 2000
No / Ecological Reserve Trail 2 sec F, polygon 2
No / 305 ER

Cortinarius laniger
c / coniferous forest floor
October 14, 2000
Yes / Ecological Reserve Trail 2 sec C, polygon 4
No / 306 ER

Agaricus hondensis
b / coniferous forest floor
October 14, 2000
No / Ecological Reserve Trail 2 sec F, polygon 2
No / 307 ER

Cortinarius traganus
c / coniferous forest floor
October 14, 2000
Yes / Ecological Reserve Trail 2, sec B, polygon 2
Yes / 308 ER

Lactarius olympianus
d / duff on forest floor
October 21, 2000
Yes / Ecological Reserve Trail 5, polygon 24
Yes / 309 ER

Spathularia flavida
d / mossy coniferous floor
October 21, 2000
Yes / Ecological Reserve Trail 5, polygon 21
Yes / 310 ER

Cortinarius laniger

Cortanarius traganus

Lactarius olympianus

Spathularia flavida

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Ramaria testaceoflava var brunnea
c / coniferous forest floor
October 21, 2000
Yes / Ecological Reserve Trail 5, polygon 21
No / 311 ER

Ramaria testaceoflava var brunnea

Marasmius salalis
d / on fallen leaves of Gaultheria shallon
October 21, 2000
Yes / Ecological Reserve Trail 5, polygon 21
Yes / 312 ER

Thelephora terrestris
d / damp coniferous forest floor
October 21, 2000
Yes / Ecological Reserve Trail 5, polygon 21
No / 313 ER

Stropharia (hornmanii)
b / growing on woody debris in damp open area of forest
October 22, 2000
No / Ecological Reserve Trail 5, polygon 23
No / 315 ER
specimens too young to obtain spores from, but definitely growing on wood

Tricholoma sulphureoides group
b / coniferous forest floor under salal
October 22, 2000
Yes / Ecological Reserve Trail 5, polygon 23
No / 316 ER

Cystoderma fallax
d / mossy coniferous forest floor
October 22, 2000
Yes / Ecological Reserve Trail 5, polygon 23
Yes/ 317 ER

Cystoderma fallax

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Cortinarius sanguineus
b / coniferous forest floor
October 22, 2000
Yes / Ecological Reserve Trail 5, polygon 22
Yes / 318 ER

Cortinarius sanguineus

Russula bicolor
a / coniferous forest floor
October 22, 2000
No / Ecological Reserve Trail 5, polygon 23
No / 319 ER

Cortinarius vibratillis
d / coniferous forest floor
October 22, 2000
No / Ecological Reserve Trail 5, polygon 22
No / 320 ER

Cortinarius azureus
d / coniferous forest floor
October 22, 2000
Yes / Ecological Reserve Trail 5, polygon 22
No / 321 ER

Tricholoma imamoenum

Tricholoma imamoenum
d / forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1 extended, polygon 1
No / 322 ER

Leptonia serrulata
c / mossy decaying log and ground nearby
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
Yes / 323 ER

Leptonia serrulata

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Lepista inversa
d / forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
Yes / 324 ER

Stropharia ambigua
d / forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
Yes / 325 ER

Ramaria cystidiophora var maculans
c / forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
No / 326 ER

Bisporella citrina
d / decaying branches on forest floor
October 29, 2000
No / Ecological Reserve Trail 1, polygon 1
Yes / 327 ER

Lepista inversa

Young Stropharia ambigua
note fluffy white veil remnants on the stem and the edge of cap

Mature Stropharia ambigua
note some veil remnants still clinging to cap edge and stem

Mature Stropharia ambigua
note spores blackening some of the veil remnants and the gills

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Hebeloma sacchariolens

d / forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
Yes / 328 ER

Hebeloma sacchariolens

Agaricus diminutivus

a / forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
No / 329 ER

Coprinus micaceus

d / mossy decaying log and mossy forest floor
October 29, 2000
Yes / Ecological Reserve Trail 1, polygon 1
Yes / 330 ER

Coprinus micaceus

Mucronella species

d / decaying conifer stump
October 29, 2000
No / Ecological Reserve Trail 1, polygon 1
Yes / 331 ER
Compared to M. pendula, this species has much smaller, more crowded spines

Nidula niveotomentosa

b / twig on coniferous forest floor
October 21, 2000
No / Ecological Reserve Trail 5, polygon 21
No / 332 ER

Tricholoma bufonium

d / open, mossy, coniferous forest floor
November 5, 2000
Yes / Ecological Reserve Trail 3, polygon 12
No / 333 ER

Mucronella species

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Tricholoma focale

a / coniferous forest floor
November 5, 2000
No / Ecological Reserve Trail 3, polygon 12
No / 334 ER
this very young specimen was just emerging from the ground, it was very reminiscent of Tricholoma aurantium, but had a definite veil and a nice fruity odour

Cystoderma cinnabarinum

c / coniferous forest floor
November 5, 2000
Yes / Ecological Reserve Trail 3, polygon 12
No / 335 ER

Cortinarius alboviolaceus

d / forest floor
November 15, 2000
Yes / Ecological Reserve Trail 1, polygon 1
Yes / 336 ER

Cortinarius alboviolaceus

Antrodia carbonica

d / decaying log
November 15, 2000
No / Ecological Reserve Trail 1, polygon 1
No / 337 ER
Jim Ginns

Hygrocybe conica

c / coniferous forest floor
November 29, 2000
Yes / Ecological Reserve Trail 2, sec B, polygon 2
Yes / 338 ER
this collection is housed in the UBC Herbarium

Hygrocybe conica

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Ischnoderma resinosum
a / decaying conifer log
December 2, 2000
No / Ecological Reserve Trail 5, polygon 24
Yes / 339 ER

Stereum hirsutum
d / fallen branch of Alnus rubra
December 2, 2000
No / Ecological Reserve Trail 5, polygon 24
No / 340 ER

Sphaerobolus stellatus
b / bark of decaying conifer branch
December 2, 2000
Yes / Ecological Reserve Trail 5, polygon 21
No / 341 ER

Rhodocybe species
c / forest floor near Alnus rubra in predominately conifer forest
December 2, 2000
Yes / Ecological Reserve Trail 5, polygon 24
No / 342 ER

Hygrocybe odoratus
c / forest floor
December 2, 2000
Yes / Ecological Reserve Trail 5, polygon 24
No / 343 ER

Cystostereum species?
d / inside wounded split trunk of large Alnus rubra
December 2, 2000
No / Ecological Reserve Trail 5, polygon 24
No / 344 ER

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Tricholoma species
c / forest floor
December 2, 2000
Yes / Ecological Reserve Trail 5, polygon 24
No / 345 ER
very dark brown fruiting bodies, comparable in size to large T. flavovirens

Plectania milleri
b / twigs and buried wood on coniferous forest floor
January 1, 2001
Yes / Ecological Reserve Trail 4, polygon 4
No / 346 ER

Hygrophorus calophyllus group
c / coniferous forest floor
January 1, 2001
Yes / Ecological Reserve Trail 4, polygon 4
No / 347 ER

Hydnellum suaveolens group
b / coniferous forest floor
January 1, 2001
Yes / Ecological Reserve Trail 4, polygon 4
No / 348 ER

Aleurodiscus grantii
d / dead conifer branch
January 1, 2001
No / Ecological Reserve Trail 4, polygon 7
No / 349 ER

Gloeophyllum saepiarium
b / decaying conifer log
January 10, 2001
Yes / Ecological Reserve Trail 5, polygon 21
No / 350 ER

Gloeophyllum saepiarium

Gloeophyllum saepiarium hymenium
note the hymenium is made up
of gills rather than pores

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Oligoporus species
b / decaying wood on coniferous forest floor
January 10, 2001
Yes / Ecological Reserve Trail 5, polygon 21
No / 351 ER

Fomitopsis officinalis
c / large decaying conifer log
March 3, 2000
No / Ecological Reserve Trail 3 extended, polygon 13
No / 352 ER
Jim Ginns / collected in 1999, sent to J. Ginns for identification, returned in Mar. 2000

Aleuerodiscus penicillatus
/ bark of dead conifer branch
April 10, 2000
No / Ecological Reserve Trail 5, polygon s 21 & 22
No / 353 ER
Jim Ginns / collected and stored by J. Ginns

Byssocorticium terrestre (DC:Fr.) Bond & Singer
/ lower surface of rotted conifer log
April 10, 2000
No / Ecological Reserve Trail 5, polygons 21 & 22
No / 354 ER
Jim Ginns / collected and stored by J. Ginns

Conferticium ochraceum (Fr.) Hallenberg
/ bark on lower side of conifer log
April 10, 2000
No / Ecological Reserve Trail, polygon 21
No / 355 ER
Jim Ginns / uncommon to rare, previously known in North America from only 14 collections, seven of the 14 were from southern Vancouver Island -collected and stored by J. Ginns

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Dacrymyces chrysocoma (Bull.:Fr.) Tulasne
/ bark of dead branch on live Tsuga heterophylla
September 4, 2000
No / Ecological Reserve Trail 5
No / 356 ER
Jim Ginns / collected and stored by J. Ginns

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Hyphoderma medioburiense (Burt) Donk
/ bark on lower side of conifer branch on ground
April 10, 2000
No / Ecological Reserve Trail 5, polygon 24
No / 357 ER
Jim Ginns / collected and stored by J. Ginns

Hyphodontia aspera (Pers.:Fr.) Ginns & Lefebvre
/ bark on lower surface of Pseudotsuga menziesii log
April 10, 2000
No / Ecological Reserve Trail 5, polygon 24
no
358 ER
Jim Ginns / collected and stored by J. Ginns

Oligoporus placentus (Fr.) Gilbn. & Rvy.
/ crumbly brown-rotted conifer wood
April 10, 2000
No / Ecological Reserve Trail 5, polygon 21
No / 359 ER
Jim Ginns / collected and stored by J. Ginns

This beautiful bark beetle is found throughout the Reserve

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Phlebiella christiansenii (Liberta) Larsson & Hjt.

/ not recorded
April 10, 2000
No / Ecological Reserve Trail 5, polygons 21 & 22
No / 360 ER
Jim Ginns / previously only known in North America from Vermont and Quebec (Ginns & Lefebvre 1993) – collected and stored by J. Ginns

Phlebiella sulphurea (Pers.:Fr.) Ginns & Lefebvre

/ bark of conifer log
April 10, 2000
No / Ecological Reserve Trail 5, polygon 21
No / 361 ER
Jim Ginns / collected and stored by J. Ginns

Piloderma byssinum (Karsten) Julich

/ bark on lower side of Tsuga heterophylla log
April 10, 2000
No / Ecological Reserve Trail 5, polygon 21
No / 362 ER
Jim Ginns / collected and stored by J. Ginns

Piloderma fallax (Libert) Stalpers

/ lower surface of dead leaves
April 10, 2000
No / Ecological Reserve Trail 5, polygon 21
No / 363 ER
Jim Ginns / collected and stored by J. Ginns

Schizopora paradoxa

/ partially live Alnus rubra
March 3, 2000
No / Ecological Reserve Trail 4, polygon 7
No / 364 ER
Jim Ginns / collected in 1999, sent to J. Ginns for identification, returned March 2000

Taxon
Population / Habitat
Date Collected
Spore sample / Location
Photograph / Collection #
Determinor / Note

Phellinus ferreur (Pers.) Bourdot & Galzin

/ decorticated hardwood log
April 10, 2000
No / Ecological Reserve Trail 5, polygon 24
No / 365 ER
Jim Ginns / collected and stored by J. Ginns

Ecological Reserve Trail 5
Polygon 22 July 16, 2000
The mycorrhizal grass
Bromus vulgaris

DATA OCCURRENCE CHART				MONTHS FUNGUS WAS FOUND									NUMBER	OF	HIKES	FUNGUS	WAS	SEEN
													ER	ER	WCP	WCP	SAT	VAN
GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1998/99	2000	1998/99	2000	ISLAND	ISLAND
AGARICUS augustus							X						1				C	C
A. albolutescens						X				X			2				R	
A. bernardii											X				1	1	U	
A. campestri										X	X				4		C	
A. chionodermus											X		1				R	
A. diminutivus										x	x			2		1		
A. hondensis										x				1				
A. praeclaresquamosus											X				2	1	C	C
A. silvicola group									X	X	X	X	4	1	3	1	C	
A. subrufescens											X				1		U	C
AGROCYBE praecox group				x										1				
ALEURODISCUS grantii	x	x	x	x	x	x	x	x	x	x	x	x		YR		YR	C	
ALPOVA diplophloeus						X							1				R*	C
AMANITA aprica					x									1			R	
A. constricta								X					1				R	R
A. gemmata						X							2				C	C
A. pachycolea							X			X			1	2			C	C
A. pantherina				X	X	X							2	1	1	2	A	C
A. porphyria								X	X	X			3	4			C	C
A. silvicola										X	X	X		3			C	C
ANTRODIA carbonica	x	x	x	x	x	x	x	x	x	x	x	x		1		1		
ARCYRIA denudata x incarnata			X	X	X										4		R*	
A. nutans								X					1				R*	
ARMILLARIA. ostoyae									X		X	X	2		3	3	A	C
AURISCALPIUM vulgare	X	X				X	X				X		7	6	6	2	A	C
BISPORELLA citrina											x			1		1		
BOLETUS chrysenteron											X		1				R	C
B. piperatoides												X	1				R	
B. mirabilis							X		X	X	X		4	2			C	C
BOVISTA plumbea	x	x	x	x	X	x	x	x	x	X	X	x				6	C	C
BREFELDIA maxima			X	X											8		U	
CALLISTOSPORIUM luteo-olivaceum				X	X	X					X		4	2		1	C	R
CALOCERA cornea	X									X	X	X	3	3			C	R
C. viscosa	X		X							X	X	X	5	6		3	C	U
CALOSCYPHA fulgens					X								1				R	
CANTHARELLULA umbonata									X	X	X		3	3			R	R
CANTHARELLUS formosus							X		X	X	X	X	4	4			A	A
C. infundibuliformis	X		X									X	3	5			A	A
C. subalbidus							X	X	X	X	X	X	6	7			A	A
CERATIOMYXA fruticulosa					X	X	X	X		X			9	3		1	A	
CHROMOSERA cyanophylla	X		X	X	X					X	X		6	2	1	2	C	R
CHROOGOMPHIS tomentosus							X	X	X	X	X	X	12	7			A	A

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
CHRYSOMPHALINA aurantiaca	**X**										X	**X**	2	1	5	2	C	U
C. chrysophylla	X			X			X			**X**	X	X	5	4	5		C	U
CLAVARIA fumosa			**X**									X	1	1			R	
C. vermicularis	X		**X**			X	X					**X**	3	1		1	C	U
CLAVARIADELPHUS borealis											X		1				R	
C. ligula	X									**X**			1	2			R	R
C. pistillaris											X		1				R	R
CLAVICORONA avellanea									**X**					1			R	
CLAVICEPS species							X								1		U*	
CLAVULINA cinerea											**X**					1	R*	
C. cristata	X		X	X	**X**	X	X	X		X	X	X	5	6	8	6	A	A
C. rugosa	X		X	X	X	**X**	**X**	X		**X**	**X**	X	4	6	6	6	A	
CLAVULINOPSIS laeticolor	X		**X**							X		X	3	3	1		C	R
CLITOCYBE albirhiza	X			X						X		X	4	1			C*	
C. clavipes										**X**	X		1	3			U	C
C. dealbata									X		**X**	**X**			1	2	U	C
C. fragrans	**X**		**X**							**X**	X			2	1	7	A	
CLITOCYBULA atrialba											X				2		R*	C
COCCOMYCES dentatus	x	x	**x**	x	x	x	x	x	x	x	x	x		YR			A	
COLLYBIA acervata										**X**		X	1	1			R	C
C. acervata var.												X	1				R	
C. butyracea						**X**	X			**X**	X	**X**	6	8		1	A	C
C. dryophila					X		**X**							1	2	1	U*	R
C. maculata			X		X	X	**X**						6	2			U	U
C. maculata var. scorzonerea				X	X	X							4	1			U	
C. oregonensis	X						X				**X**		1	1	2		U	R
COLTRICIA cinnamomea	**X**	x	x	X	x	X	X	x	**X**	x	**X**	x	YR	YR		1	C	C
C. perennis	x	x	x	**X**	x	X	X	x	x	**X**	**X**	x	YR	YR			C	C
COPRINUS micaceus				X	X			X			X							
						X				**X**				1	6	3	C	C
CORDYCEPS capitata	X											X	2				R	R
CORTINARIUS alboviolaceus											**x**			1			R*	
C. azureus										**x**				2			R*	
C. californicus										**X**	X	X	3	5			A	R
C. cinnamomeus group												X	1				R*	
C. collinatus group												X	1				R*	R
C. corrugatus											X		1				R	
C. cotoneus			**X**								X		1	1			R*	
C. cylindripes group							X						2				R*	
C. evernius										X	X		2	4			U*	
C. (gentilis?)			X										1				R*	
C. glaucopus group										**X**	X		1	1			U*	R
C. haematochelis										X			1				R*	
C. laniger										**x**				1			R*	
C. limonius											X	X	2				U*	
C. lucorum											X		1				R*	
C. multiformis											X		1				R*	
C. sanguineus										**x**	**x**			2			R*	
C. scaurus group											X		1				R*	R
C. semisanguineus										**X**	X		1	3			C	C
C. sodagnitus group										X			1	1			R*	
C. superbus												X	1				R	R

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
C. traganus										✖				1			R*	
C. vibratillis										✖				2			R	
CRIBRARIA macrocarpa											X		1				R*	
CREPIDOTUS applanatus										X	X		2	2			U*	C
C. mollis					✖						X	X	1		2	2	C*	C
CRUCIBULUM laeve	*X*	x	x	x	x	x	x	x	x	x	✖	*X*			YR	YR	A	A
CRYPTOPORUS volvatus	x	x	*X*	*X*	*X*	x	x	x	x	x	x	x	YR	YR		YR	C	U
CUDONIA circinans						✖								1			R	
C. monticola				X	X				✖					1			R	
CYSTODERMA amianthinum										✖	✖			6		1	A	
C. amianthinum var. rugosoreticulatum										✖	X	X	6	5			A	R
C. cinnabarinum											✖			1			U	
C. fallax										✖	✖			2			R	
C. granulosum										X	X	X	4	6	2	1	C	C
C. gruberianum		X									X		3	1			R	
DACRYMYCES palmatus	X	X	X		✖	X				X	X	X	17	8	12	10	A	A
D. variisporus	✖										✖	X			1	3	U	
DIDYMIUM melanosporum							✖							1			R*	
DISCINA perlata			X	✖	X	✖							3	3			C	U
ELAPHOMYCES granulatus	X			X					X				3				R*	R
ENTERIDIUM lycoperdon								X							1		R*	
ENTOLOMA bloxamii									✖	X			1	1			R	R
EXIDIA alba	✖															1	R*	
FOMITOPSIS cajanderi	*X*	x	x	x	x	x	x	x	x	x	x	x	YR	YR	YR		A	C
F. officinalis	x	x	x	x	x	x	x	x	x	x	x	x		1			U	
F. pinicola	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*			YR	YR	A	A
FULIGO septica						X	X	X	X	X	X	✖	16	9			A	
F. septica @ nectria violacea							X	X		X			5				U	
GALERINA marginata							X						1				R*	
G. heterocystis?	X	X	X		X			X		X	X	X	8	6	4		A	R
G. (WCP photographed)											X				3	1	R*	
GANODERMA applanatum	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	YR	YR			A	A
G. oregonense	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	*X*	YR	YR			A	C
GAUTIERIA monticola						X	✖						1	1			R*	
GEASTRUM quadrifidum	*X*	x	x	x	x	x	x	x	x	x	x	x	YR	YR	YR		U*	R
G. saccatum	x	x	x	x	x	x	x	x	x	x	*X*	x			YR		U*	U
GEOGLOSSUM fallax			✖											2			U	
GEOPPYXIS vucanalis	X		✖		✖	X		X					3	4			A	R
GLOEOPHYLLUM abietinum	x	x	x	x	x	x	x	x	x	x	✖	x				1	R*	
G. sepiarium	✖	x	x	x	x	x	x	x	x	x	✖	*X*		1	YR	YR	U	C
GOMPHIDIUS oregonensis						✖				✖	X	X	1	5	2	2	A	A
G. smithii						✖				X	X	✖	5	6	3	1	A	C

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
G. subroseus			X				X		X	X	X	X	9	4	7	4	A	A
GOMPHUS floccosus									X	X			4	3			R*	C
GRANDINIA granulosa	X												1				R*	
GUEPINIOPSIS alpinus	X	X	X	X	X	X	X		X	X		X	23	11	1		A	C
GYMNOPILUS aeruginosus					X			X	X	X			3	1			R	R
G. sapineus	X				X				X	X	X	X	3		4	1	C*	R
G. validipes											X		1				R*	
GYROMITRA esculenta					X								1	1			C	C
G. infula	X														1		C	U
HEBELOMA crustuliniforme										X	X	X	1	5	2	3	A	A
H. saccharioiens										x	x			2		2	U*	
HELVELLA acetabulum				X	X										1	1	R	U
H. compressa			X	X	X	X							5	1	4	2	C	R
H. elastica						X							1				R	R
H. lacunosa	X									X	X	X	3	4	5	2	A	A
H. maculata	X										X	X	2	1	1	1	C	
H. species (var of phlebophora?)	X												1				R	
H. villosa						x										1	R	
HYDNELLUM aurantiacum					X	X	X		X		X		5	4	1	1	C	C
H. aurantiacum var. bulbipodium							X						1				R*	
H. suaveolens							X		X				1	1			R*	
H. sauveolens group	x													1				
HYDNUM repandum						X						X		2	1		C	C
H. umbilicatum										X	X	X	3	3			C	C
HYGROCYBE conica											X	X		1	1	1	C	C
H. cuspidata												x				1	R	
H. laeta			X												1		R	R
H. miniata									X						1		U*	U
H. pssittacina	X		X	X		X	X					X	2	1	8	4	A	R
H. singeri var albifolia											X	X	2	2			C	
H. subminiata												X	1				U*	
HYGROPHOROPSIS aurantiaca										X	X		2		2		C	A
H. olida	X				X						X	X	3	2			C	R
HYGROPHORUS agathosmus											X	X	2	2	1		C	
H. bakerensis										X	X	X	2	3			U	R
H. calophulius group	x													1			R	
H. chrysodon											x					1	R	
H. ebumeus			X								X		6	1			U	R
H. niveus											X				1		R*	R
H. odoratus											x	x		1		1	R	
H. pratensis											XX		1	1			U*	R
HYMENOCHAETE tabacina	X	X	X	x	x	x	x	x	x	x	X	X	YR	YR	YR	YR	A	C
HYPHOLOMA capnoides	X	X	X							X	X	X	10	10	10	7	A	C
H. fasiculare	X		X							X	X			1	3	2	C	A
HYPOMYCES lactiflorum								X	X	X	X			2	3	2	C	C
HYPOXYLON fuscum	X	X	X	X	X	X	X	X	X	X	X	X			YR	YR	A	C
INOCYBE albodisca			X							X			1				U	
I. calamistrata					X								2				R*	R

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
I. geophylla	X	X	X	X	X	X			X	X	X	X	7	10	7	7	A	A
I. languinosa				X	X	X				X	X		13	3			A	
I. lilacina	X									X	X	X	5	7	4	6	A	A
I. longicystis											X		1				R*	
I. mixtilis					X								1				R*	R
I. pudica	X		X							X	X	X	6	3		5	A	R
I. soria	X						X	X	X		X		3	4	2	4	A	C
I. species (umbrina?)						X							1				R*	
Ischnoderma resinosum	x	x	x	x	x	x	x	x	x	x	x	x		1			R	
LACCARIA amethysteo-occidentalis	X									X	X	X	1	6	3	1	A	A
L. bicolor						X				X	X	X	5	7	1	1	A	C
L. laccata	X					X			X	X	X	X	7	9	1	2	A	A
LACTARIUS deliciosus									X				1	1			C	A
L. luculentus										X			1				R*	R
L. occidentalis											X					1	U	
L. olympianus										X				1			R*	
L. pseudomucidus									X	X	X	X	7	5			A	C
L. rubrilacteus									X	X	X	X	2	2	3	2	C	A
L. subflammeus	X								X	X	X	X	4	6	2	2	A	
L. uvidus group									X	X			1	2			U	C
LAETIPORUS sulphureus	x	x	x	x	x	x	x	x	x	x	x	x	YR				U*	C
LAMPODERMA sauteri						X								1			R	
LENTINELLUS omphalodes	X										X					2	R	
LEPIOTA castanea											X				2	3	U	R
L. clypeolaria									X	X	X	X	5	6	5	4	A	A
L. cristata									X		X				4		U	U
L. flammeotincta?											X				1	1	U	R
L. naucina									X		X				1	1	C	C
L. roseifolia											X					1	U	
L. roseilivida										X	X				2		U	R
L. rubrotincta									X	X	X				4	2	C	C
L. sequolarum											X				1		U	
LEPISTA inversa										X				1			C	
L. nebularis											X				1		C	U
L. nuda											X	X			2		A	A
LEPTOGLOSSUM species									X				1	1			R	
LEPTONIA decolorans forma decolorans												X			1	1	U	
L. fuligineomarginata						X							1				R*	
L. serrulata										X				1			R*	
L. umbilicata											X		1				R*	
LEUCOPAXILLUS albissimus									X			X			2		R	C
L. amarus									X		X				1	2	U	C
LIMACELLA glioderma											X					1	U	
LYCOGALA epidendrum					X	X	X			X	X		4	2	2		A	
LYCOPERDON foetidum	x	x	x	x	x	x	x	x	x	X	X	X	YR	YR	YR	YR	A	R
L. perlatum			X	X	X		X		X	X			4	1	2	1	A	A
L. pyriforme									X	X	X		2	4		2	A	C

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
LYOPHYLLUM decastes					X				X				2				U*	C
L. infumatum											X		1				U*	
L. semitale group										X	X	X	1	5			C	R
MARASMIELLUS candidus	X	X	X	X	X		X	X	X	X	X	X	13	7	4	8	A	C
MARASMIUS epiphyllus										X			1				R	
M. plicatulus	X									X	X				4	3	A	C
M. salalis										X	X		1	3			C	C
M. scorodonius									X						1		R*	R
MERULIOPSIS ambiguus					X					X			2	1			C	
M. corium	x			x										1		2	C	
MNIOPETALUM species		X											1				R*	
MORCHELLA deliciosa				X											2		R	R
M. elata				X	X								2		2	1	U	R
MUCRONELLA pendula	X		X	X	X	X					X	X	5	4			A	R
M. species										x				1			R	
MYCENA acicula										X	X		2				R*	R
M. alcalina	X	X	X	X			X	X	X	X	X	X	10	7	6	4	A	C
M. amabilissima											X				1		R*	R
M. aurantidisca	X		X		X				X	X	X	X	4	10			A	A
M. elegantula	X	X	X						X	X	X	X	7	2	1	1	C	R
M. elegantula group	X	X								X			3	1			C	
M. epipterygia	X	X								X	X	X	9	8			A	C
M. haematopus					X				X						1	2	C	C
M. leptocephela	X	X	X	X		X			X	X	X		3	5	1	2	A	
M. maculata	X		X							X	X	X	5	4			C*	R
M. monticola									X		X				2		U*	
M. oregonensis										X	X		2	1			C	R
M. pura			X		X	X	X		X	X	X	X	15	13	3	3	A	A
M. purpureofusca	X									X	X	X	7	7	2	4	A	R
M. rorida									x					1			R*	
M. rubromarginata									x					1			R	
M. subcana	X	X	X								X	X	7	2	4	3	A	A
MYXOMPHALIA maura									X				1				U	
NECTRIA cinnabarina	X														1		R*	
NEOURNULA pouchetti					X								1	1			U	R
NIDULA niveotomentosa										x				1			U	
NOLANEA cetrata			X	X	X	X	X						3	4	3		C*	R
N. hirtipes			x								x			1		1	A	
N. mammosa group												X			2		C*	
N. sericea	x		x		x	x					x					6	A	
N. verna group			X												4		C*	
OMPHALINA ericetorum		X	X	X	X	X			X	X		X	6	5	3	3	A	A
OSTEINA obducta	x	x	x	x	x	x	x	X	X	x	x	x	YR	1			R	R
OTIDEA alutacea									X	X	X		4	4			C*	U
O. leporina var minor											X		1				R*	
O. onotica	X						X			X	X	X	3	2	3	3	C*	R
PANELLUS mitis	X										X	X	2	2	2	2	C	R
P. serotinus	X										X	X	5	3	4	3	A	U

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
PHAEOLUS schweintzii	x	x	x	x	x	x	**X**	X	X	**X**	x	x	YR	YR		1	A	A
PHANEROCHAETE sanguinea	x	x	x	X	x	x	x	x	x	x	x	x		YR			C	
PHELLINUS chrysoloma	x	x	x	x	x	x	x	x	x	x	x	x			YR	YR	U*	
P. pini	x	x	x	x	x	x	x	x	x	x	x	x			YR	YR	C	C
PHELLODON tomentosus											X	X	2	1			R*	R
PHLEBIA radiata	X								**X**	X	X	X			4	4	C	R
PHYLLOPORUS rhodoxanthus					**X**	X							1	2	1	1	U	R
PHYSARUM cinnereum								X			X		1		1		R*	
P. galbeum											X		1				R*	
P. rubiginosum						**X**	X						1	2			U	
PLECTANIA melastoma				X	X	X							7		1		U	R
P. milieri	**x**													1			R	
PLEUORTUS ostreatus					X	**X**	X		**X**	X	**X**			2	3	2	A	A
P. porrigens									X			**X**	1	1			U	A
PLUTEUS cervinus	X			X	X	X	X		X	X	X	X	9	7	7	2	A	C
POLYPORUS badius	x	x	x	x	**X**	x	x	x	x	x	x	x	YR	3	YR		U	C
P. elegans	x	x	x	x	x	x	x	x	x	x	x	x	YR				R	C
P. hirtus	X		**X**	X				X	X	X	X	X	14	5		1	C	C
POSTIA caesius	X				X				**X**	X	X	X	4	5	3	5	A	C
P. fragilis	X										X	X	3	4	1	4	A	
P. guttalatus							X	X	**X**	X				3			U	
PSATHYRELLA candolleana											X				1		R*	C
P. gracilis group								X		**X**					1	1	U	R
P. hydrophylla						**x**										1		
P. longipes group										X					1		C	R
PSEUDOHYDNUM gelatinosum	X	X	X	X	X			X	X	X	X	X	28	14	5	3	A	A
Pseudoplectania (melaena?)			**X**	X										2	1		U	R
P. nigrella	**X**		X										1	1			R	R
PYCNOPORELLUS fibrillosus									X				2	1			R	
RAMARIA apiculata var apiculata										**X**	**X**	X		1	1	1	U*	R
R. araiospora var araiospora									**x**					1			R*	
R. conjunctipes											X		2				U*	
R. cystidiophora var maculans										**x**				1			R*	
R. formosa												X	3				U*	C
R. gelatinosa var oregonensis								X					1				R*	
R. rasilispora			X		X	**X**						X	3	1			R*	R
R. testaceo-flava var brunnea										**x**			1	1			R*	
RHIZOPOGON species						X							4				C*	C
RHODOCYBE species												**x**		1			R	
RUSSULA albidula group												X			1		R*	
R. albonigra									X				1				R*	R
R. alutacea						X	X						3				C*	
R. bicolor											X	X		1	2		U*	R
R. brevipes									X	X	**X**	X	1	3	2	2	A	A
R. brevipes var. acrior								X	X	X	X		4	4			C*	C
R. crassotunicata										X	X				3		U*	R

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
R. cremoricolor					X						X				1	2	U	R
R. crenulata												x				2	R*	
R. fragilis	X								X	X	X	X	4	10			A	U
R. frangrantissima									X				1				R*	R
R. integra group									X	X	X		2	2			U*	
R. (mariae?)	x													1			R*	
R. occidentalis							X	X		X	X		5	4			A	
R. olivacea									X				2				R*	
R. pectinatoides												x				1	R*	
R. placita group									X	X	X	X		5	1		C*	R
R. stuntzii	x															1	R*	
R. xerampelina							X	X	X	X	X	X	10	7	1	2	A	A
RUSTROMIA species			X												1		R*	
SARCOSOMA mexicana		X											1				R	R
SARCOSPHAERA crassa			X	X	X	X							5	3	3	1	A	U
SCHIZOPHYLLUM commune		X	X												YR		U	R
SCUTILLINIA scutellata					X										1		C*	
SERPULA himantioides											x					1		
SPATHULARIA flavida										x				1			R	
SPHAEROBOLUS stellatus												x		1			R*	
STEMONITIS splendens				X			X	X							5		U*	
STEREUM hirsutum group	X	X	x	X	x	x	x	x	x	x	x	X	YR	YR	YR	YR	C	C
S. sanguinolentum	X	X	x	x	x	x	x	x	x	x	X	X	YR	1	YR	YR	C	R
S. striatum	X	x	x	x	x	x	x	x	x	x	x	x			YR	YR	C	R
STIBELLA byssidea							X			X	X		3	2			U*	
STROBILURUS trullisatus								X	X	X	X		10	6	5	5	A	A
STROPHARIA ambigua											X	X		2	4	2	A	A
S. (hommanii?)					x					x				2			R	
S. riparia											X				1		R	R
SUILLUS caerulescens					X		X		X	X	X	X	5	8	4	6	A	A
S. lakei										X	X		5	6	4	2	A	A
TAPHRINA amentorum																	U*	
TAPINELLA atrotomentosus							X	X	X	X	X		6	1	6	1	C	C
TARZETTA species							X						1				R*	R
THELEPHORA palmata	X					X	X		X	X	X	X	4	4	2	1	A	R
T. spiculosa												X	1				R	
T. terrestris	X					X		X		X	X		1	3	1	2	A	C
TRAMETES virsicolor	X	X	X	X	X	X	X	X	X	X	X	X	YR	YR	YR	YR	A	A
TREMELLA encephala	X		X				X				X	X	2	5		1	C*	
TREMELLODENDROPSIS tubersoa	X		X								X	X	3	2			C	
TRICHAPTUM abietinus	X	X	X	X	X	x	x	x	x	X	X	X	YR	YR	YR	YR	A	A
T. fuscoviolaceum	X	X	X	X	X	x	x	x	x	X	X	X	YR	YR			U*	

GENUS & species	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ER 1998/99	ER 2000	WCP 1998/99	WCP 2000	SAT ISLAND	VAN ISLAND
TRICHIA decipiens				X								X	2				R*	
T. favoginea			X		X	X		X	X	X			3	4	1		C	
TRICHOGLOSSUM hirsutum			X									X	1	2			U*	R
TRICHOLOMA aurantium											X				1	1	U	R
T. bufonium											x			1			R	
T. flavovirens	X										X	X	1	2		1	C	C
T. focale											x			1			R	
T. imamoenum										x	x			3			R	
T. myomyces group	X				X	X				X	X	X			5	7	A	
T. pardinium										x	x	x		5			U	
T. portentosum											X		1	2			R	C
T. saponaceum										X	X	X	4	8	1	1	A	C
T. sulphureum	X									X	X	X	2	2			C	C
T. terreum group	X									X	X	X	2	8			A	C
T. vaccinum									X				1				R	R
T. virgatum											X	X	1	1	1		U	C
TRICHOLOMOPSIS decora											X				1		R	U
T. sulfureoides										X	X				2	1	U	
TRIMISCUS helvelloides											X		1				R	R
TRUNCOCOLUMELLA citrina							X		X		X		1	3			U	R
TUBER gibbosum						X							1				R*	
TUBERCULARIA vulgaris	X														1		R*	
TUBIFERA ferruginosa							x										R	
URNULA (craterium?)	X		X										2				R*	
XEROMPHALINA campanella			X		X	X				X	X	X	6	9	2	2	A	A
X. fulvipes		X	X			X	X	X	X	X	X	X	12	7		1	A	U
XYLARIA hypoxylon	X					X				X	X	X		2	7	5	A	A

Appendix A: Reference Material

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Appendix B: Chemical Reagents

Congo Red: stain for hyphae walls

Cotton Blue: stain for selected hyphae walls, chrysocystidia, spore walls and spore ornamentation

Ethanol: wetting agent

Ferrous sulfate: produces colour change on selected Russula species stems

Gum Guaiac: aids in determining if a wood decaying fungi causes white rot or brown rot

Hydrocholoric Acid: produces microchemical color reaction used to distinguish hyphae and cells in selected agarics

Melzer's Reagent: determines whether the material is amyloid, dextrinoid or inamyloid

Methylene Blue: determines metachromatic reaction in selected material

Phenol: produces macrochemical color reaction in selected fungi

Phloxine: stain for hyphae interior

Potassium Hydroxide: can produce macro and microchemical color reactions in selected fungi, revives dried hyphae and is commonly used as a mounting agent

Sulphformol (Sulfofomol): produce macro and microchemical color reactions in selected agarics, particularly Russula species

Sulphuric Acid: discolours psathyrella spores

Appendix C: Vascular Plants

Allotropa virgata: *on May 15, 1999, when hiking in the Ecological Reserve on Trail #3-extended with the Vancouver Mycological Society, we found a small group of Allotropa just emerging from the ground. We returned on May 23 to photograph them, but they were still immature. We returned on June 15 and got a terrific photograph 2 of the 3 stalks , which were in full bloom. The third stalk had been partially eaten. When we returned on July 11 they had all been completely eaten by the deer. This is the only time we have found Allotropa in the Reserve. It is the third site known on Saturna.* While hiking Ecological Reserve Trail 2 on June 25, 2000, we found a site with 20 large healthy Allotropa virgata in polygon 4.

Pyrola chlorantha: *our hike of May 15, 1999, we were on ER. Trail #5-extended when we found an area where Pyrola chlorantha was scattered throughout the forest. New to the Gulf Islands, a specimen was collected by Harvey and forwarded to the herbarium at the Provincial Museum via the CDC.* We also found Pyrola chlorantha on June 25, 2000 in polygon 4 while hiking ER Trail 2.

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Bidens frondosa: *initially identified as the endemic species, B. amplissima, we first noticed these plants on July 24, 1998 when walking across the wooden bridge that crosses the cattail pond of Winter Cover Park Trail F. While the species B. frondosa is not an endemic, it is also uncommon and this is the only site known in the Gulf Islands.* This population of B. frondosa appears to be stable.

Impatiens capensis*: growing by the wooden bridge crossing the cattail pond of Winter Cove Park Trail F, we have been following the growth of this stand of annuals since we first noticed it in the summer of 1994. This is the only known site of I. capensis on the Gulf Islands and had produced an ever expanding display of healthy flowering plants until the summer of 1998. Whether it was due to the unusual dry conditions or some other reason, the plants did not do well in 1998. They were fewer in number than the previous year and as the season went on they looked decidedly diseased. Although a few did produce buds, none flowered. Unfortunately the summer of 1999 produced no impatiens plants.* There were no impatiens plants in the summer of 2000 either so it looks like our population is extinct.

Lycopus americanus: *uncommon in the Gulf Islands and new to Southern Gulf Islands with this sighting, we found this plant growing on the shore edge as part of the rose thicket that borders the wooden bridge crossing the cattail pond of Winter Cove Park Trail F, in the summer of 1998.* This population has now spread through the rose thicket and into the cattail pond.

Appendix D: Birds

The Great Blue Heron nests in Winter Cove Park were active again this year. Because of the height of the nests off the ground it is difficult to accurately determine how many hatchlings there actually were, but it was clear that both nests were being used. My field list notes that three baby herons were very noisy in the nests on June 4, 2000. Then on July 8, 2000 I noted that they have left the nest, but that we saw two young ones in the nest trees. We saw no evidence of dead hatchling on the ground this year.

Birds in the lists below that were sighted for the first time in 2000 are noted with an asterisk.

Winter Cove Park

LOONS
Red-throated Loon
Pacific Loon
Common Loon
Yellow-billed Loon

GREBES
Horned Grebe
Red-necked Grebe

CORMORANTS
Double-crested Cormorant
Pelagic Cormorant

HERONS
Great Blue Heron

SWANS, GEESE & DUCKS
Snow Goose
Canada Goose
Wood Duck
Mallard
Northern Shoveler
American Wigeon
Harlequin Duck
Oldsquaw
Surf Scoter
White-winged Scoter
Common Goldeneye
Barrow's Goldeneye
Bufflehead
Hooded Merganser
Common Merganser
Red-breasted Merganzer

AMERICAN VULTURES
Turkey Vulture

OSPREYS, EAGLES & HAWKS
Bald Eagle
Cooper's Hawk
Red-tailed Hawk

FALCONS
Merlin
Peregrine Falcon

OYSTERCATCHERS
Black Oystercatcher

SANDPIPERS & PHALAROPES
Greater Yellowlegs
Lesser Yellowlegs*
Black Turnstone
Semipalmated Sandpiper
Western Sandpiper
Least Sandpiper
Pectoral Sandpiper
Dunlin
Short-billed Dowitcher

SKUAS, GULLS & TERNS
Franklin's Gull
Bonaparte's Gull
Mew Gull
Ring-billed Gull
Thayer's Gull
Glaucous-winged Gull

AUKS, MURRES & PUFFINS
Common Murre
Pigeon Guillemot
Marbled Murrelet

Rhinoceros Auklet

PIGEONS & DOVES
Band-tailed Pigeon

OWLS
Barred Owl
Owl sp.

GOATSUCKERS
Common Nighthawk

HUMMINGBIRDS
Rufous Hummingbird

KINGFISHERS
Belted Kingfisher

WOODPECKERS
Red-breasted Sapsucker*
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker

TYRANT FLYCATCHERS
Olive-sided Flycatcher
Hammond's Flycatcher
Pacific-slope Flycatcher

SWALLOWS
Violet-green Swallow
Northern Rough-winged Swallow
Cliff Swallow
Barn Swallow

JAYS, MAGPIES & CROWS
Northwestern Crow
Common Raven

TITMICE
Chestnut-backed Chikadee

NUTHATCHES
Red-breasted Nuthatch

CREEPERS
Brown Creeper

WRENS
Bewick's Wren
House Wren
Winter Wren

KINGLETS & THRUSHES
Gold-crowned Kinglet
Ruby-crowned Kinglet
Swainson's Thrush
American Robin
Varied Thrush

WAXWINGS
Cedar Waxwing

STARLINGS
European Starling

VIREOS
Hutton's Viero

WARBLERS, SPARROWS & BLACKBIRDS
Orange-crowned Warbler
Yellow-rumped Warbler
Black-throated Gray Warbler
Townsend's Warbler
MacGillivray's Warbler*
Wilson's Warbler
Rufous-sided Towhee
Savannah Sparrow
Fox Sparrow
Song Sparrow
Golden-crowned Sparrow
White-crowned Sparrow
Dark-eyed Junco
Red-winged Blackbird

FINCHES
House Finch
Red Crossbill
Pine Siskin
American Goldfinch

Ecological Reserve

SWANS, GEESE & DUCKS
Mallard

AMERICAN VULTURES
Turkey Vulture

OSPREYS, EAGLES & HAWKS
Bald Eagle

GROUSE
Blue Grouse
Ruffed Grouse*
PIGEONS & DOVES
Band-tailed Pigeon

GOATSUCKERS
Common Nighthawk

HUMMINGBIRDS
Anna's Hummingbird
Rufous Hummingbird

WOODPECKERS
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker

TYRANT FLYCATCHERS
Olive-sided Flycatcher
Willow Flycatcher*
Western Wood-Pewee
Hammond Flycatcher*
Pacific-slope Flycatcher

SWALLOWS
Swallow sp.

JAYS, MAGPIES & CROWS
Northwestern Crow
Common Raven

TITMICE
Chestnut-backed Chikadee

NUTHATCHES
Red-breasted Nuthatch

CREEPERS
Brown Creeper

WRENS
Winter Wren

KINGLETS & THRUSHES
Gold-crowned Kinglet
Townsend's Solitaire
American Robin
Varied Thrush

WARBLERS, SPARROWS & BLACKBIRDS
Townsend's Warbler
Western Tanager
Wilson's Warbler
Yellow-rumped Warbler
Rufous-sided Towhee
Song Sparrow
Dark-eyed Junco
Brown-headed Cowbird*

FINCHES
Red Crossbill
Pine Siskin

Appendix E: Winter Cove Park Collection ordered by genus

AGARICUS bernardii WCP 151
A. diminutivus WCP 196
A. campestri WCP 97
A. praeclaresquamosus WCP 107
A. silvicola group WCP 28
A. subrufescens? WCP 137

ALEURODISCUS grantii WCP 170

AMANITA pantherina WCP 127

ANTRODIA carbonica WCP 200

ARCYRA denudata x incarnata WCP 123

ARMILLARIA ostoyae WCP 141

AURISCALPIUM vulgare WCP 59

BISPORELLA citrina WCP 198

BOLBITIACIAE species WCP 93

BOVISTA plumbea WCP 110

CALLISTOSPORIUM luteo-olivaceum WCP 180

CALOCERA viscosa WCP 210

CERATIOMYXA fruticulosa WCP 219

CHROMOSERA cyanophylla WCP 126

CHRYSOMPHALINA aurantiaca WCP 85

CLAVARIA vermicularis WCP 202

CLAVICEPS species WCP 92

CLAVULINA cinerea WCP 2
C. cristata WCP 36
C. rugosa WCP 125

CLAVULINOPSIS laeticolor WCP 156
C. species WCP 48

Auriscalpium vulgare

A. vulgare showing hymenium teeth

CLITOCYBE atrialba WCP 140
C. dealbata WCP 18
C. fragrans WCP 144
C. species WCP 19
C. species WCP 20

COLLYBIA butyracea WCP 220
C. dryophila WCP 90
C. oregonensis WCP 68

COLTRICIA cinnamomea WCP 164

CONIOPHORA arida WCP 190
C. puteana WCP 213

COPRINUS micaceus WCP 83

CREPIDOTUS mollis WCP 102
C. species WCP 103

Crucibulum laeve

CRUCIBULUM laeve WCP 108

CRUSTOMYCES pini-canadensis subsp. subabruptus WCP 215

CRYYPTOPORUS volvatus WCP 73

CYLINDROBASIDIUM laeve WCP 216

CYSTODERMA aminathinum var rugosreticulatum WCP 176
C. granulosum WCP 23

DACRYMYCES palmatus WCP 52
D. variisporus WCP 160

ENTERIDIUM lycoperdon WCP 129

EXIDIA (alba?) WCP 211

FOMITOPSIS cajanderi WCP 61
F. pinicola WCP 67

GALERINA species WCP 112

GANODERMA (tsugae?) WCP 174

GEASTRUM saccatum WCP 5

G. quadrifidum WCP 71

GLOEOPHYLLUM abietinum WCP 193
G. saepiarium WCP 87

GOMPHIDIUS oregonensis WCP148
G. smithii WCP 134
G. subroseus WCP 25

GUEPINIOPSIS alpinus WC P62

GYMNOPILUS sapineus WCP 31

GYROMITRA infula WCP 167

HEBELOMA crustuliniforme WCP 132
H. sacchriolens WCP 184

HELVELLA acetabulum WCP 80
H. compressa group WCP 75
H. lacunosa WCP 139
H. maculata WCP 41
H. villosa WCP 171

HYDNELLUM aurantiacum WCP 165

HYDNUM repandum WCP 42

HYGROCYBE conica WCP 54
H. cuspidata WCP 204
H. laeta WCP 78
H. miniata WCP 8
H. psittacina WCP 120

HYGROPHOROPSIS aurantiaca WCP 98

HYGROPHORUS agathosmus WCP 157
H. aurantica WCP 98
H. bakerensis WCP 162
H. chrysodon WCP 177
H. niveus WCP 163
H. odoratus WCP 201

HYMNEOCHAETE tabacina WCP 66

HYPHOLOMA capnoides WCP 49

Hygrophoropsis aurantiaca
(true colour would show more orange tones)

H. cap. var. viscid WCP 50
H. fasciculare WCP 77

HYPOMYCES lactiflorum WCP 3

HYPOXYLON fuscum WCP 69

INOCYBE geophylla WCP 82
I. lilacina WCP 51
I. pudica WCP 179
I. soria WCP 147

ISCHNODERMA resinosum WCP 186

LACCARIA amethysteo-occidentalis WCP 161
L. bicolor WCP 24
L. occidentalis WCP 197

LACTARIUS rubrilacteus WCP 27
L. subflammeus WCP 158
L. species WCP 30, WCP 185

LENTINELLUS omphalodes WCP 191

LEPIOTA castanea WCP 135
L. clypeolaria WCP 100
L. cristata WCP 17
L. flammeotincta? WCP 133
L. naucina WCP 14
L. roseifolia WCP 178
L. roselivida WCP 101
L. rubrotincta WCP 16
L. sequoiarum WCP 131

Lepiota castanea

LEPISTA nebularis WCP 145
L. nuda WCP 152

LEPTONIA decolorans forma decolorans WCP 143

LEUCOPAXILLUS albissimus group WCP 57
L. amarus WCP 7

LIMACELLA glioderma WCP 194

LYCOPERDON foetidum WCP 183
L. pyriforme WCP 175

MARASMIELLUS candidus WCP 12

MARASMIUS plicatulus WCP 22
M. scorodonius WCP 6

MERULIOPSIS corium WCP 212

MORCHELLA deliciosa WCP 122
M. elata WCP 128

MYCENA alcalina WCP 10
M. ambilissima WCP 104
M. elegantula WCP 142
M. haematopus WCP 9
M. leptoccephela WCP 221
M. monticola WCP 105
M. pura WCP 11
M. purpureofusca WCP 150
M. species WCP 56
M. subcana WCP 55

NECTRIA cinnabarina WCP 166

NOLANEA hirtipes WCP 181
N. mammosa group WCP 46
N. sericea WCP 199
N. verna group WCP 79

OMPHALINA ericetorum WCP 72

OTIDEA onotica WCP 38
O. species WCP 39

PANELLUS mitis WCP 207
P. serotinus WCP 64
P. stipticus WCP 58

PHAEOLUS schweintzii WCP 207

PHELLINUS chrysoloma WCP 94
P. ferreus WCP 217
P. pini WCP 63
P. viticola WCP 218

PHLEBIA radiata WCP 96

Panellus serotinus

PHYLLOPORUS rhodoxanthus WCP 222

PHYSARUM cinereum WCP 154

PLECTANIA melastoma WCP 81

PLEUROTUS ostreatus WCP 32

PLUTEUS cervinus WCP 40

POLYPORUS badius117
P. hirtus WCP 189

POSTIA caesius WCP 99
P. fragilis WCP 168

PSATHYRELLA candolleana WCP 114
P. gracilis WCP 174
P. gracilis group WCP 4
P. hydrophylla WCP 223
P. longipes WCP 43
P. species WCP 91

PSEUDOHYDNUM gelatinosum WCP 15

PSEUDOPLECTANIA melaena WCP 121

PYRENOMYCETES species WCP 70

RAMARIA
R. apiculata WCP 155
R. apiculata var apiculata WCP 195

RUSSULA albidula group WCP 47
R. bicolor WCP 153
R. brevipes WCP 182
R. crassotunicata WCP 25
R. cremoricolor WCP 89
R. crenulata WCP 206
R. pectinatoides WCP 205
R. stuntzii WCP 208
R. species WCP 115
R. xerampelina WCP 33

RUSTROMIA species WCP 76

SARCOSPHAERA crassa WCP 74

SCHIZOPHYLLUM commune WCP 118

SCUTELLINIA scutellata WCP 86

SERPULA himantioides WCP 187

STEMONITIS splendens WCP 84

STEREUM hirsutum group WCP 119
S. sangunolentum WCP 116
S. striatum WCP 65

STROBILURUS trulllisstus WCP 13

STROPHARIA ambigua WCP 113
S. riparia WCP 109

SUILLUS caerulescens WCP 37
S. lakei WCP 35

TAPINELLA atrotomentosus WCP 95

THELEPHORA palmata WCP 44
T. terrestris WCP 1

TRAMETES versicolor WCP 53

TREMELLA encephala WCP 203

TRICHAPTUM abietnus WCP 60

TRICHIA favoginea WCP 88

TRICHOLOMA aurantium WCP 146
T. flavovirens WCP 209
T. myomyces group WCP 2
T. saponaceum WCP 159
T. virgatum WCP 45

TRICHOLOMOPSIS decora WCP 138
T. sulferoides WCP 136

Tricholoma aurantium

TUBERCULARIA vulgaris WCP 169

XEROMPHALINA campenella WCP 149

XYLARIA hypoxylon WCP 34

Appendix D: Ecological Reserve Collection ordered by genus

AGARICUS augustus ER 224
A. chionodermus ER 171
A. diminutivus ER 329
A. hondensis ER 307
A. silvicola group ER 50

AGROCYBE praecox group ER 289

ALEURODISCUS grantii ER 349
A. penicillatus ER 358

AMANITA aprica ER 291
A. gemmata ER 218
A. pachycolea ER 151
A. pantherina ER 110
A. porphyria ER 1
A. silvicola ER 192
A. sp ER 50
A. sp(orange-red staining) ER 229

Amanita silvicola

ANTRODIA carbonica ER 337

ARCYRIA nutans ER 147

ARMILLARIA mellea ER 165
A. ostoyae ER 274

AURISCALPIUM vulgare ER 89

BIATORELLA resinae ER 282

BISPORELLA citrina ER 327

BOLETUS chrysenteron ER 257
B. piperatoides ER 271
B. mirabilis ER 15

BYSSOCORTICIUM terrestre ER 354

CALLISTOSPORIUM luteo-olivaceum ER 106

CALOCERA cornea ER 270
C. viscosa ER 66

CALOSCYPHA fulgens ER 213

CANTHARELLULA umbonata ER 160

CANTHARELLUS formosus ER 79
C. infundibuliformis ER 59
C. subalbidus ER 2

CERATIOMYXA fruticulosa ER 124

CHROMOSORA cyanophylla ER 204

CHROOGOMPHIS tomentosus ER 18

CHRYSOMPHALINA aurantiaca ER 168
C. chrysophylla ER 173

CLAVARIA fumosa ER 64
C. vermicularis ER 114

CLAVARIACEA sp ER 82

CLAVARIADELPHUS borealis ER 263
C. ligula ER 278
C. pistillaris ER 245

CLAVICORONA avellanea ER 303

CLAVULINA cristata ER 249
C. rugosa ER 81

CLAVULINOPSIS laeticolor ER 53

CLITOCYBE albirhiza ER 215
C. clavipes ER 256
C. fragrans ER 234
C. metachroa ER 280
C. sp ER 102

Chrysomphalina chrysophylla
(true colour would show less yellow tones
the gills and stem would show more orange tones
and the cap would show more buff-orange tones)

COCCOMYCES dentatus ER 286

COLLYBIA acervata ER 277
C. acervata var ER 195
C. butyracea ER 244
C. dryophila ER 295
C. maculata ER 107
C. maculata var. scorzonerea ER 131
C. oregonensis ER 225
C. sp ER 179, ER 223

COLTRICIA cinnamomea ER 103
C. perennis ER 127

CONFERTICIUM ochraceum ER 355

COPRINUS micaceus ER 330

CORDYCEPS capitata ER 62

CORTINARIUS alboviolaceus ER 336
C. azureus ER 321
C. californicus ER 186
C. collinatus group ER 239a
C. corrugatus ER 266
C. cotoneus ER 265
C. cylindripes group ER 141
C. evernius ER 57
C. (gentilis?) ER 209
C. glaucopus group ER 251
C. haematochelis ER 55
C. laniger ER 306
C. limonius ER 267
C. lucorum ER 185
C. multiformis ER 242
C. sanguineus ER 318
C. scaurus group ER 240
C. semisanguineus ER 254
C. sodagnitus group ER 56
C. superbus ER 190
C. traganus ER 308
C. vibratillis ER 320
C. sp ER 259
C. sp subgenus Telamonia ER 216

CRIBRARIA macrocarpa ER 172

Cortinarius californicus

Cortinarius semisanguineus

Cortinarius traganus

CREPIDOTUS applanatus ER 158
C. sp ER 198

CRYPTOPORUS volvatus ER 248

CUDONIA circinans ER 292
C. monticola ER 104

CYSTODERMA amianthinum var. rugosoreticulatum ER 175
C. cinnabarinum ER 335
C. fallax ER 317
C. granulosum ER 176
C. gruberianum ER 201

CYSTOSTEREUM sp ER 344

DACRYMYCES chrysocoma ER 356
D. palmatus ER 90

DIDYMIUM melanosperum ER 294

DISCINA perlata ER 94

ELAPHOMYCES granulatus ER 46

ENTOLOMA bloxamii ER 231

FOMITOPSIS cajanderi ER 6
F. pinicola ER 86
F. rosea ER 8

FULIGO septica ER 224a
F. septica @ nectria violacea ER 145

GALERINA marginata ER 117
G. heterocystis ER 159

GANODERMA applanatum ER 93
G. oregonense ER 181

GAUTIERIA monticola ER 134
GEASTRUM quadrifidum ER 38

GEOPYXIS vucanalis ER 227

GEOGLOSSUM fallax ER 283

GLOEOPHYLLUM sepiarium ER 350

GOMPHIDIUS oregonensis ER 233
G. smithii ER 163
G. subroseus ER 69

GOMPHUS floccosus ER 27

GRANDINIA granulosa ER 281

GUEPINIOPSIS alpinus ER 65

GYMNOPILUS aeruginosus ER 5
G. sapineus ER 43
G. validipes ER 170
G. sp. ER 193

GYROMITRA esculenta ER 212

HEBELOMA crustuliniforme ER 262
H. sacchariolens ER 328

HELVELLA compressa ER 109
H. lacunosa ER 177
H. maculata ER 74
H. species (var of phlebophora?) ER 278

HYDNELLUM aurantiacum ER 11
H. aurantiacum var. bulbipodium ER 138
H. suaveolens ER 137
H. suaveolens group ER 348
H. sp ER 22

HYDNUM umbilicatum ER 60

HYGROCYBE conica ER 338
H. odoratus ER 343
H. psittacina ER 129
H. singeri var albifolia ER 182
H. subminiata ER 276

HYGROPHORUS agathosmus ER 268
H. bakerensis ER 261
H. calophyllus group ER 347

Young Helvella lacunosa

H. eburneus ER 70
H. pratensis ER 255

HYGROPHOROPSIS aurantiaca ER 164
H. olida ER 75

HYMENOCHAETE tabacina ER 196

HYPHODERMA medioburiense ER 357

HYPHODONTIA aspera ER 358

HYPHOLOMA capnoides ER 194
H. species ER 67

HYPOMYCES lactiflorum ER 305

INOCYBE albodisca ER 210
I. calamistrata ER 116
I. geophylla ER 214
I. languinosa ER 100
I. lilacina ER 235
I. longicystis ER 246
I. mixitilis ER 113
I. pudica ER 180
I. soria ER 144
I. (umbrina?) ER 120

Inocybe soria

ISCHNODERMA resinosum ER 339

LACCARIA amethysteo-occidentalis ER 253
L. bicolor ER 49
L. laccata ER 48

LACTARIUS deliciosus ER 29
L. luculentus ER 47
L. olympianus ER 309
L. pseudomucidus ER 28
L. rubrilacteus ER 30
L. subflammeus ER 189
L. uvidus group ER 39

LAETIPORUS sulphureus ER 273

LAMPODERMA sauteri ER 296

LEPIOTA clypeolaria ER 166
L. sp ER 169

LEPISTA inversa ER 324

LEPTOGLOSSUM sp ER 41

LEPTONIA fuligineomarginata ER 136
L. serrulata ER 323
L. umbilicata ER 241
L. species ER 162

LEPTOPORUS mollis ER 78

LYCOGALA epidendrum ER 115

LYCOPERDON foetidum ER 68
L. perlatum ER 24
L. pyriforme ER 25

LYOPHYLLUM decastes ER 14
L. infumatum ER 184
L. semitale ER 243
L. species ER 258

MARASMIELLUS candidus ER 99

MARASMIUS epiphyllus ER 152
M. salalis ER 312

MERULIOPSIS ambiguus ER 157
M. corium ER 288

MNIOPETALUM sp ER 199

MORCHELLA elata ER 108

MUCRONELLA pendula ER 188
M. sp ER 331

MYCENA alcalina ER 63
M. aurantiidisca ER 34
M. elegantula ER 33
M. elegantula group ER 92
M. epipterygia ER 52
M. leptocephela ER 19

Marasmius salalis
note the base of the stem growing
directly from the salal leaf

M. maculata ER 156
M. oregonensis ER 167
M. pura ER 26
M. purpureofusca ER 153
M. rorida ER 302
M. rubromarginata ER 300
M. subcana ER 80
M. sp. ER 205, ER 208

MYXOMPHALIA maura ER 36

NEOURNULA pouchetti ER 211

NIDULA niveotomentosa ER 332

NOLANEA cetrata ER 207

OLIGOPORUS sp ER 351

OMPHALINA ericetorum ER 20

OSTEINA obducta ER 298

OTIDEA alutacea ER 37
O. leporina var minor ER 252
O. onotica ER 51
O. sp ER 222

PANELLUS mitis ER 260
P. serotinus ER 174

PHAEOLUS schweintzii ER 183

PHANEROCHAETE sanguinea ER 287

PHELLINUS ferreur ER 365

PHELLODON tomentosus ER 71

PHLEBIELLA christiansenii ER 360
P. sulphurea ER 361

PHOLIOTA sp ER 232

PHYLLOPORUS rhodoxanthus ER 133

Otidea onotica

Otidea alutacea

PHYSARUM cinnereum ER 146
P. galbeum ER 269
P. rubiginosum ER 226

PILODERMA byssinum ER 362
P. fallax ER 363

PLECTANIA melastoma ER 98
P. milleri ER 346

PLEUROTUS ostreatus ER 299
P. porrigens ER 40

PLUTEUS cervinus ER 10

POLYPORUS elegans ER 221
P. badius ER 290
P. hirtus ER 6

POSTIA caesius ER 73
P. fragilis ER 79
P. guttulatus ER 142

PSEUDOHYDNUM gelatinosum ER 31

PSEUDOPLECTANIA nigrella ER 203
P. melanea ER 284

PYCNOPORELLUS fibrillosus ER 13

RAMARIA apiculata ER 314
R. araiospora var araiospora ER 301
R. cysdtidiophora var. maculans ER 326
R. conjunctipes ER 237
R. formosa ER 7
R. gelatinosa var oregonensis ER 228
R. rasilispora ER 205
R. testaceoflava var brunnea ER 311
R. sp ER 111, ER 105, ER 112, ER 217

RHIZOPOGON sp ER 118, ER 125, ER 131

RHODOCYBE sp ER 342

RUSSULA albonigra ER 35
R. alutacea ER 139

R. bicolor ER 319
R. brevipes var. acrior ER 32
R. fragilis ER 187
R. frangrantissima ER 230
R. integra group ER 45
R. (mariae?) ER 293
R. occidentalis var. undetermined ER 141
R. olivacea ER 9
R. placita group ER 44
R. xerampelina ER 17

SARCOSOMA mexicana ER 202

SARCOSPHAERA crassa ER 97

SCHIOPORA paradoxa ER 364

SPATHULARIA flavida ER 310

SPHAEROBOLUS stellatus ER 341

STEREUM hirsutum group ER 340
S. sangunolentum ER 87

STIBELLA byssidea ER 150

STROBILURUS trullisatus ER 236

STROPHARIA ambigua ER 325
S. (hornemannii?) ER 315

SUILLUS caerulescens ER 21
S. lakei ER 161

TAPHRINA amentorum ER 122

TAPINELLA atrotomentosus ER 16

TARZETTA (bronca?) ER 220

THELEPHORA palmata ER 76
T. (spiculosa?) ER 77
T. terrestris ER 313

TRAMETES versicolor ER 128

Trametes versicolor

TREMELLA encephala ER 264

TREMELLODENDROPSIS (tubersoa ?) ER 191

TRICHAPTUM abietinus ER 84
T. fuscoviolaceum ER 197

TRICHIA decipiens ER 101
T. favoginea ER 96
T. sp ER 275

TRICHOGLOSSUM hirsutum ER 285

TRICHOLOMA bufonium ER 333
T. flavovirens ER 272
T. focale ER 334
T. imamoenum ER 322
T. myomyces group
T. pardinum ER 304
T.(portentosum?) ER 250
T. saponaceum ER 54
T. sulphureum ER 247
T. terreum group ER 83
T. vaccinum ER 42
T. virgatum ER 239
T. sp ER 316, ER 345

TRIMISCUS helvelloides ER 238

TRUNCOCOLUMELLA citrina ER 143

TUBER gibbosum ER 119

TUBERIFERA ferruginosa ER 297

URNULA craterium? ER 88

XEROMPHALINA campanella ER 155
X. fulvipes ER

XYLARIA hypoxylon ER 149

Truncocolumella citrina
as found on the forest floor

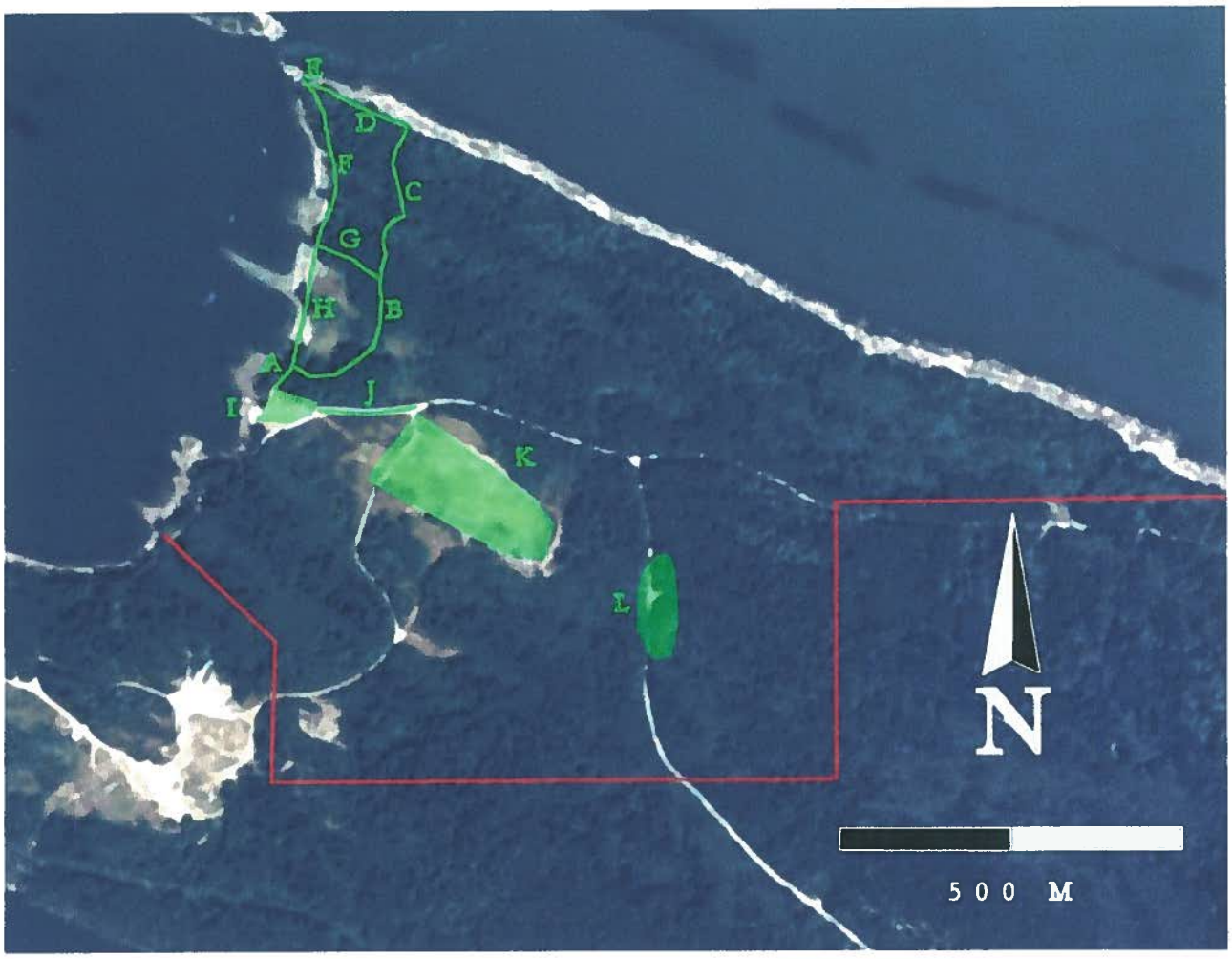
Truncocolumella cirtina
sectioned to show spore mass and columella

Appendix G: UBC Herbarium Collection

Taxon	Collection Number
Agaricus diminutivus	329 ER
Agaricus hondensis	186
Agaricus praeclaresquamosus	107 WCP
Amanita silvicola	248
Amanita silvicola	192 ER
Auriscalpium vulgare	89 ER
Chlorociboria aeruginascens	380
Chromosera cyanophylla	126 WCP
Chrysomphalina chrysophylla	173 ER
Clavaria purpurea	396
Clavariadelphus pistillaris	245 ER
Clavulinopsis laeticolor	200
Clitocybe clavipes	256 ER
Clitocybe dealbata	018 WCP
Collybia oregonensis	068 WCP
Collybia oregonensis	225 ER
Coprinus micaceus	330 ER
Cortinarius alboviolaceus	336 ER
Cortinarius californicus	186 ER
Cortinarius sanguineus	318 ER
Cortinarius semisanguineus	254 ER
Cortinarius sodagnitus	056 ER
Crucibulum leave	108 WCP
Cystoderma amianthinum var. rugosoreticulatum	175 ER
Cystoderma cinnabarinum	335 ER
Cystoderma fallax	317 ER
Cystoderma granulosum	176 ER
Fomitopsis cajanderi	008 ER
Gloephyllum saepiarium	087 WCP
Gomphidius oregonensis	233 ER
Hebeloma sacchariolens	328 ER
Helvella lacunosa	177 ER
Helvella maculata	120 WCP
Helvella maculata	074 ER
Hydenllum auriantiacum	011 ER
Hydnum umbilicatum	060 ER
Hygrocybe conica	338 ER
Hygrocybe psittacina	120 WCP
Hygrocybe singeri var. albifolius	182 ER
Hygrophoropsis aurantiaca	105
Hygrophorus agathosmus	268 ER
Hygrophorus bakerensis	261 ER
Inocybe soria	147 WCP
Laccaria amethystina (amethysteo-occidentalis?)	253 ER

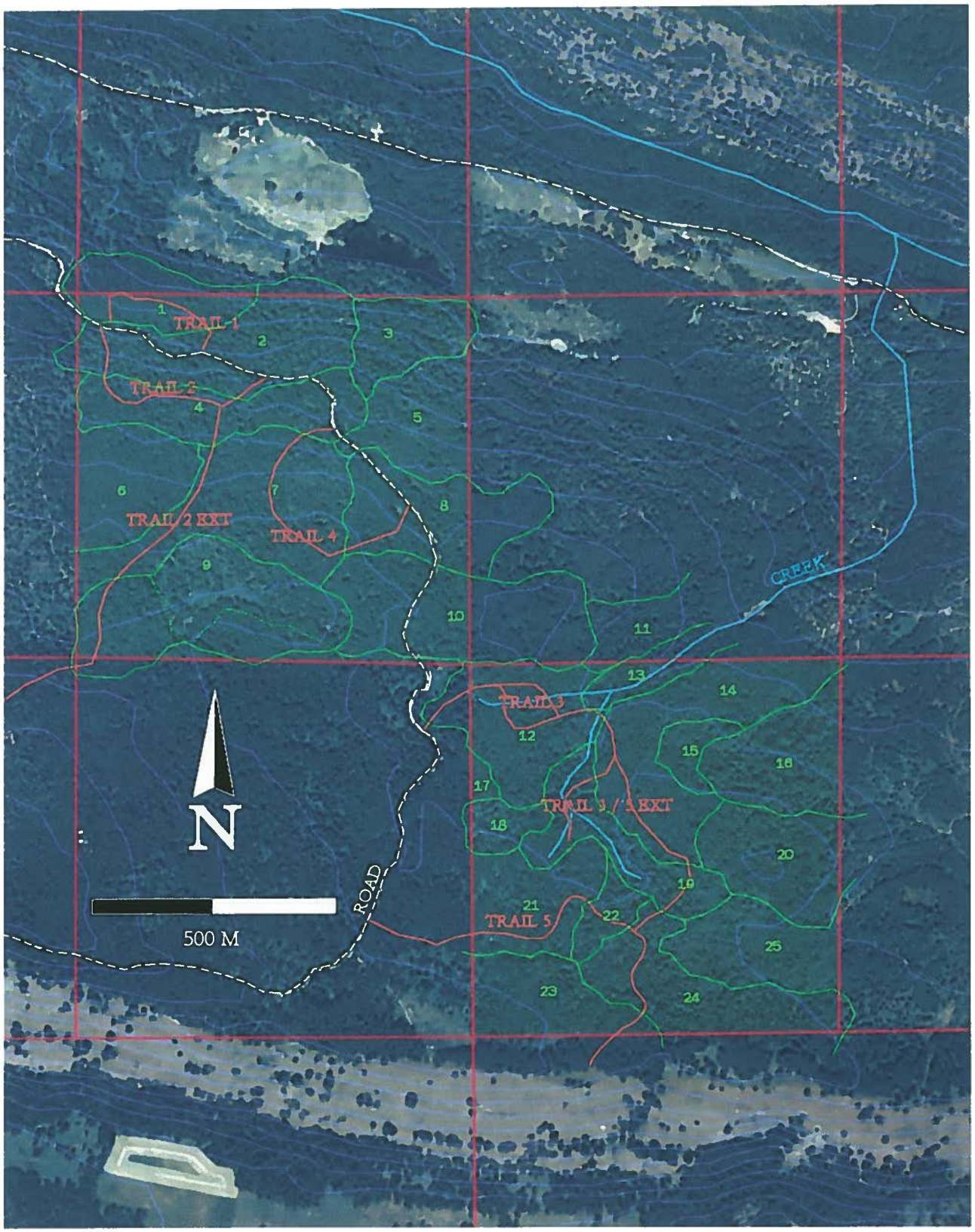
Lactarius occidentalis	197 WCP
Lactarius olympianus	309 ER
Lactarius pseudomucidus	028 ER
Lactarius rubrilacteus	030 ER
Lactarius uvidus	039 ER
Lepiota castanea	135 WCP
Lepiota flammeotincta	133 WCP
Lepiota roseifolia	178 WCP
Lepista inversa	324 ER
Leptonia serrulata	323 ER
Leucopaxillus amarus	007 WCP
Limacella glioderma	320
Lycoperdon foetidum	068 ER
Marasmius plicatus	022 WCP
Marasmius salalis	312 ER
Meruliopsis ambiguis	413
Meruliopsis ambiguus	157 ER
Mycena purpureofusca	153 ER
Otidea alutacea	411
Otidea onotica	051 ER
Panellus serotinus	064 WCP
Pluteus atromarginatus	143
Postia fragilis	079 ER
Pseudoplectania nigrella	203 ER
Ramaria apiculata var. apiculata	195 WCP
Ramaria cystidiophora var. maculans	326 ER
Ramaria testaceoflava var. brunnea	311 ER
Russula stuntzii	208 WCP
Stereum sangunolentum	116 WCP
Thelephora palmata	76 ER
Thelephore terrestris	313 ER
Trametes versicolor	005
Tricholoma aurantium	146 WCP
Tricholoma bufonium	333 ER
Tricholoma flavovirens	272 ER
Tricholoma inamoenum	322 ER
Tricholoma pardinum	304 ER
Tricholoma portentosum	250 ER
Truncocolumella citrina	143 ER

Appendix H: Winter Cove Park Trail Map



A – WCP Trail Section A
B – WCP Trail Section B
C – WCP Trail Section C
D – WCP Trail Section D
E – WCP Trail Section E
F – WCP Trail Section F
G – WCP Trail Section G
H – WCP Trail Section H
I – WCP Picnic Area
J – WCP Connecting Road Area
K – WCP Playfield Area
L – WCP East Point Road Area

Appendix I: Ecological Reserve Trail Map



Appendix J: Map with WCP and ER 15 located on Saturna Island