



Perth  
Urban  
Bushland  
Fungi

# North Lake Bushland Fungi Report 2006

Written and produced by  
**Neale L. Bougher, Roz Hart and Sarah de Bueger**  
*Department of Environment and Conservation – Perth Urban Bushland Fungi Project*



*Foraging group in action*



*Foraging party ready to start*



*Sorting the fungi collected*



*Presentation of certificates at the workshop*

**PUBF Website : [www.fungiperth.org.au](http://www.fungiperth.org.au)**



Department of  
Environment and Conservation



**Australian Government**





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Advice about the identity of the fungi was provided by Dr Neale Bougher, Mycologist, organisational support was provided by Roz Hart and Sarah de Bueger.

Photos and field assistance by PUBF participants

*This workshop is proudly supported by the Department of Environment and Conservation's Swan Catchment Centre.*

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This Perth Urban Bushland Fungi (PUBF) Project fungi workshop was specifically targeted at the special interest group: Local Government Officers, that is Environment and Bushcare Officers who are directly involved in the day to day management of urban bushlands administered by Local Government Authorities. The Perth Urban Bushland Fungi Project team had previously spoken to the Network Area Managers Network (NAMN) about fungi, their management in urban bushland and the importance of incorporating Fungi as well as Flora and Fauna in bushland management. The North Lake LGO workshop was conducted to increase the knowledge of bushland managers about fungi to support their inclusion in such strategies.

Twenty four people attended this workshop held at the Cockburn Wetlands Education Centre and North Lake Bushland on 12 July 2006. The workshop was organised with the assistance of Chris Beaton, Environmental Officer at the City of Cockburn, with funding assistance from the Swan Catchment Council Training program. Danielle Witham from the Perth Biodiversity Project encouraged and facilitated contact between the groups involved, which enabled this special interest workshop to occur. There were five groups for the morning foraging session, led by Elaine Davison, Joe Froudust, Mark Brundrett, Neil Goldsborough and Jolanda Keeble, Leaders from the PUBF Project who volunteered their time to assist with this weekday workshop.

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## Fungi Workshop for Local Government Officers

12 July 2006



### Timetable

| Time   | Activity  |
|--|---|
| 9:45 am<br>for 10 am<br>start.                       | Assemble at the Cockburn Wetlands Education Centre,<br>Hope Rd, off Bibra Drive in Bibra Lake   |
| 10-<br>10:30am                                       | Introduction to workshop, format for day will be<br>explained and people allocated into groups<br>Each group will have a Foray Leader, and a local guide<br>while LGOs will be required to volunteer for positions of<br>Recorder, GPS operator and general fungi spotters                        |
| 10:30am-<br>12:30pm                                  | Surveying fungi in North Lake bushland, part of Beeliar<br>Regional Park  |
| 12:30-1pm  | Lunch and hot drinks provided at the Cockburn Wetland<br>Education Centre   |
| 1-3:30 pm<br>with a<br>break for<br>afternoon<br>tea | Learn why fungi biodiversity is important for the health<br>and management of urban bushlands<br>" Flora, Fauna and Fungi"<br>Demonstration of georeferencing system to track route<br>and incorporate photos in the fungi survey report<br>This system is applicable to all Biodiversity surveys |
| 3:30-4pm   | Review of the day: How and why it is essential to include<br>fungi in management of local bushlands   |

Bring/wear : sturdy walking shoes/boots. Wet weather gear if rain is likely.  
Notebook and pen, pencil.

Optional : 10x Hand lens, camera

## **North Lake Bushland Fungi**

Although it had been unusually dry during the winter of 2006, the workshop yielded a wide diversity of 43 fungi species. The fungi found at the North Lake Bushland during the survey represent a wide range of ecological types: including decomposers of litter and wood, and mycorrhizal (beneficial) partners of plants. Some of the fungi at North Lake Bushland appear to have specialist niches. For example a decomposer fungus discovered at North Lake Bushland during the survey in 2006 is new to Science. This is *Campanella* sp. nov. - a gregarious shell-like fungus that occurs mainly on the inside of fallen bark of *Banksia*. This fungus species is perhaps a specialist decomposer of *Banksia* bark. Aside from North Lake Bushland it is now known from several other locations on *Banksia* bark in the Perth region (Bougher N.L., 2007. The genus *Campanella* in Western Australia. *Mycotaxon*, in ed.). Such observations of potentially narrow niches emphasise the need to retain microhabitats (such as fallen wood) and specific components of microhabitats (such as fallen *Banksia* bark) to help retain fungi biodiversity in bushland.

Some of the fungi recorded from the survey remain unidentified pending further collections or more detailed comparative analyses. Many of the fungi could only be identified to genus level. This is because detailed taxonomic examinations are yet to be completed, or perhaps some are undescribed species. Far more fungi are likely to occur in North Lake Bushland than those recorded in the limited surveys so far. Because of the unpredictable nature of fungi fruiting, surveys need to be conducted over many years in order to capture the biodiversity of fungi present in any given area. Such inventory data can be used as a baseline to monitor changes in biodiversity at North Lake Bushland, such as any trend towards reduction in the diversity of significant ecological groups of fungi such as mycorrhizal species, and the effects of major disturbances. Data obtained on surveys should include: (i) the identity of the fungi (ii) the main features of the fungi (including close-up photographs), (iii) habitat (in litter, on dead wood etc...), (iv) plant species associated with each of the fungi. Standard recording sheets for fungi biodiversity surveys are available on request from PUBF. It would be desirable to georeference surveys at North Lake Bushland, to build up a spatial map of distribution of individual fungi species. A georeferencing survey kit developed by John Weaver for PUBF is available for loan from the WA Herbarium.

The 2006 fungi kit for Local Government Officers, compiled by PUBF, was presented to participants of the North Lake Bushland Fungi Workshop. This document outlines further recommendations and issues concerning survey and management of fungi biodiversity in local bushland.

## North Lake Bushland Fungi List: 12 July 2006

**Life Mode Key:** M = Mycorrhizal, S = Saprotrophic (Decomposer), S/P = Saprotrophic and Parasitic  
**Life Mode** is probable only as many fungi have not been tested.

Field Book Page number refers to the Perth Urban Bushland Fungi Field Book which is available for downloading from the project website at [www.fungiperth.org.au](http://www.fungiperth.org.au)

| <u>Scientific Name</u>                  | <u>Common Name</u>    | <u>Form</u>  | <u>Habitat</u>     | <u>Life Mode</u> | <u>Field Book Page No.</u> | <u>Specimen ID</u>           |
|---|-----------------------|--------------|--------------------|------------------|----------------------------|------------------------------|
| <i>Amanita xanthocephala</i>            | Yellow Headed Amanita | mushroom     | litter/ground      | M                |                            | 2427                         |
| <i>Calocera guepinioides</i>            | Scotsman's Beard      | jelly fungus | dead wood          | S                | Q-1                        | 2437, 2463, 2477             |
| <i>Campanella</i> sp.                   |                       | shell        | dead wood          | S                |                            | 2455                         |
| <i>Ceratiomyxa fruticulosa</i>          | Slime Mould           | slime mould  | dead wood          | S                | Z-2                        | 2420                         |
| <i>Cortinarius</i> sp.                  |                       | mushroom     | litter/ground      | M                |                            | 2481                         |
| <i>Crepidotus eucalyptorum</i>          | Eucalypt Crepidotus   | shell        | dead wood          | S                | J-13                       | 2446, 2450                   |
| <i>Crepidotus nephrodes</i>             |                       | shell        | dead wood          | S                |                            | 2430, 2461, 2469             |
| <i>Dermocybe clelandii</i>              | Cleland's Cortinar    | mushroom     | litter/ground      | M                |                            | 2431, 2452, 2458, 2479       |
| <i>Entoloma</i> sp.                     |                       | mushroom     | litter/underground | S                |                            | 2443                         |
| <i>Exidia</i> sp.                       |                       | jelly fungus | dead wood          | S                |                            | 2485                         |
| <i>Galerina</i> sp.                     |                       | mushroom     | litter/ground      | S                |                            | 2416, 2423, 2478             |
| <i>Gymnopilus allantopus</i>            | Golden Wood Fungus    | mushroom     | dead wood          | S                | J-15                       | 2415, 2454, 2456, 2472       |
| <i>Gymnopilus</i> cf. <i>purpuratus</i> |                       | mushroom     | dead wood          | S                |                            | 2447, 2462                   |
| <i>Gymnopilus</i> sp.                   |                       | mushroom     | dead wood          | S                |                            | 2471, 2476                   |
| <i>Hyphodontia</i> sp.                  |                       | resupinate   | dead wood          | S                |                            | 2414, 2422                   |
| <i>Inocybe</i> sp.                      |                       | mushroom     | litter/ground      | M                |                            | 2425, 2432, 2444, 2475       |
| <i>Laccaria</i> sp.                     |                       | mushroom     | litter/ground      | M                |                            | 2410, 2424, 2457, 2466, 2482 |
| <i>Laccaria lateritia</i>               | Brick Red Laccaria    | mushroom     | litter/ground      | M                | J-17                       | 2440                         |

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|                                |                                       |            |               |   |      |                                    |
|--------------------------------|---------------------------------------|------------|---------------|---|------|------------------------------------|
| <i>Lactarius eucalypti</i>     |                                       | mushroom   | litter/ground | M |      | 2448                               |
| <i>Lepiota</i> sp.             |                                       | mushroom   | litter/ground | S |      | 2436                               |
| <i>Lichenomphalia</i> sp.      |                                       | mushroom   | litter/ground | S |      | 2442                               |
| <i>Marasmius</i> sp.           |                                       | mushroom   | litter/ground | S |      | 2418                               |
| <i>Mycena</i> sp.              |                                       | mushroom   | litter/ground | S |      | 2411, 2421,<br>2438, 2441,<br>2473 |
| <i>Mycoacia subceracea</i>     | <b>Golden<br/>Splash<br/>Tooth</b>    | resupinate | dead wood     | S | O-4  | 2486                               |
| <i>Perenniporia ochroleuca</i> |                                       | bracket    | dead wood     | S |      | 2434                               |
| <i>Phellinus</i> sp.           |                                       | bracket    | dead wood     | S |      | 2445                               |
| <i>Pholiota communis</i>       | <b>Common<br/>Pholiota</b>            | mushroom   | litter/ground | S | J-26 | 2460                               |
| <i>Pisolithus</i> sp.          | <b>Dog Poo<br/>Fungus</b>             | puffball   | litter/ground | M | L-3  | 2453                               |
| <i>Pluteus</i> sp.             |                                       | mushroom   | dead wood     | S |      | 2439                               |
| <i>Poria</i> sp.               |                                       | resupinate | dead wood     | S |      | 2412                               |
| <i>Pycnoporus coccineus</i>    | <b>Scarlet<br/>Bracket<br/>Fungus</b> | bracket    | dead wood     | S | N-8  | 2419, 2451                         |
| <i>Ramaria</i> sp.             |                                       | coral      | litter/ground | M |      | 2435, 2467,<br>2474                |
| <i>Resupinatus</i> sp.         |                                       | shell      | dead wood     | S |      | 2484                               |
| <i>Rhodocollybia</i> sp.       |                                       | mushroom   | litter/ground | S |      | 2470                               |
| <i>Rickenella fibula</i>       | <b>Orange<br/>Moss-cap</b>            | mushroom   | litter/ground | S | J-27 | 2426, 2465                         |
| <i>Russula</i> sp.             |                                       | mushroom   | litter/ground | M |      | 2464, 2480                         |
| <i>Russula persanguinea</i>    |                                       | mushroom   | litter/ground | M |      | 2449, 2468                         |
| <i>Scleroderma</i> sp.         |                                       | puffball   | litter/ground | M | L-4  | 2459                               |
| <i>Trichoderma</i> sp.         |                                       | mould      | dead wood     | S |      | 2413                               |
| <i>Tubaria</i> sp.             |                                       | mushroom   | litter/ground | S |      | 2409, 2428,<br>2483                |
| <b>Undetermined Agaric</b>     |                                       | mushroom   | litter/ground | - |      | 2417, 2433                         |
| <b>Undetermined Ascomycete</b> |                                       |            |               |   |      | 2429                               |

## Permanent Voucher Collections

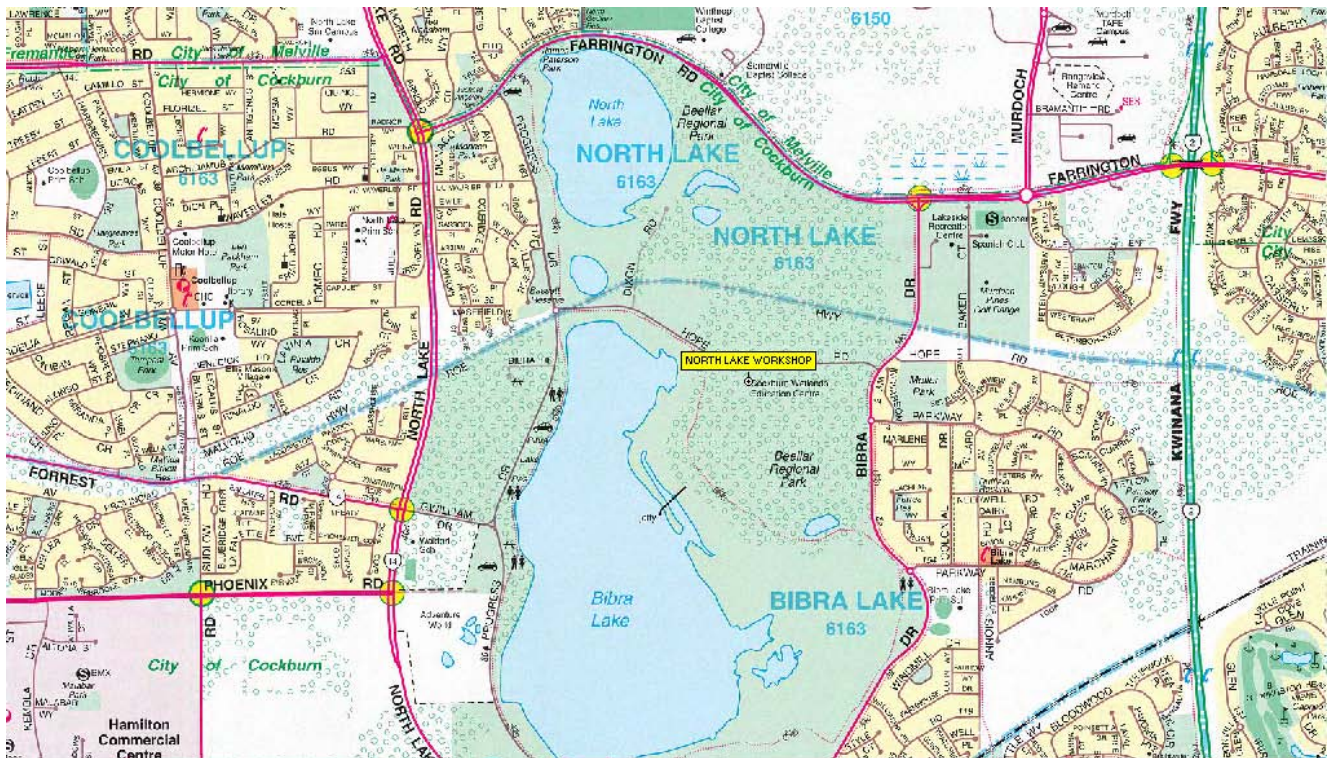
One of the fungi collected during this event was deposited in the WA Herbarium fungi collection with the following details:

*Campanella* sp.

Voucher ID: E8361

Specimen ID: 2455





StreetExpress Map showing the location of the Cockburn Wetlands Education Centre and North Lake Bushland, Bush Forever Site 244 and Department of Environment and Conservation Reference Site.

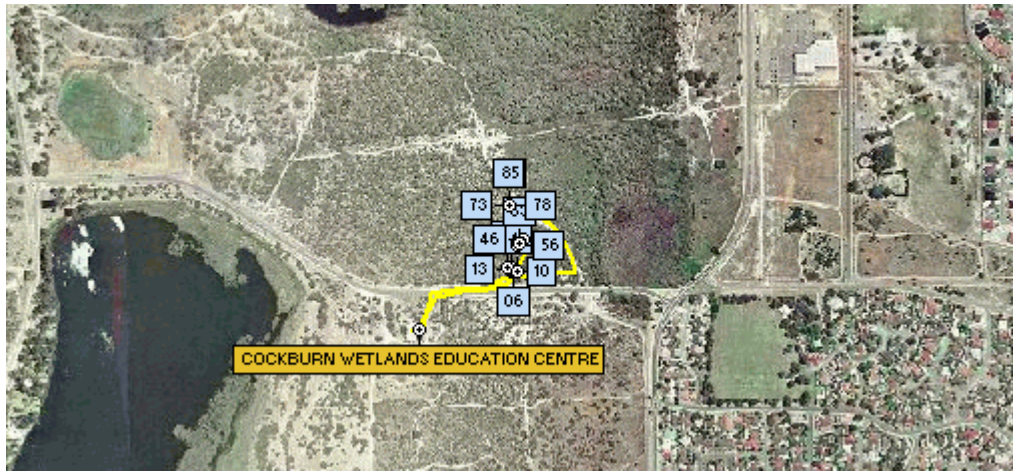


Aerial photo showing the colour coded tracks of the five groups, 12 July 2006.

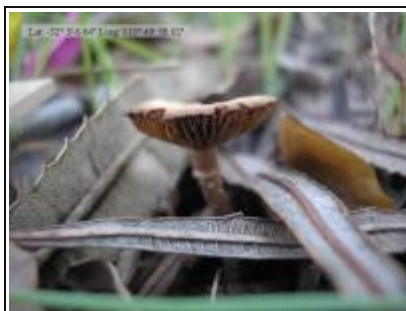


## Georeferenced Track and Photos

Elaine Davison's Group, 12 July 2006.



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.



### **06 *Tubaria* sp.**

Photographer Danielle Witham

Specimen ID: 2409

Growing in banksia litter in *Banksia menziesii*, *Banksia attenuata*, allocasuarina, jarrah woodland.

Latitude: -32° 5' 6.64" Longitude: 115° 49' 58.62"

Easting:389864 Northing: 6449527 Zone: 50

Date: 12 Jul 2006

opt Image NL63\_167DW06



### **10 *Laccaria* sp.**

Photographer Danielle Witham

Specimen ID: 2410

Growing in banksia litter in banksia woodland.

Latitude: -32° 5' 6.66" Longitude: 115° 49' 58.46"

Easting:389860 Northing: 6449526 Zone: 50

Date: 12 Jul 2006

opt Image NL63\_167DW10



### **13 *Mycena* sp.**

Photographer Danielle Witham

Specimen ID: 2411

Growing in banksia litter in banksia woodland.







Latitude: -32° 5' 6.59" Longitude: 115° 49' 58.43"






Easting:389859 Northing: 6449528 Zone: 50

Date: 12 Jul 2006

opt Image NL63\_167DW13



|   |  |
|---|--|
|    | <p><b>20 <i>Poria</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2412</p> <p>Growing on dead softwood within banksia woodland.<br/> Latitude: -32° 5' 6.51" Longitude: 115° 49' 58.38"<br/> Easting:389858 Northing: 6449531 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW20</p>   |
|    | <p><b>26 <i>Trichoderma</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2413</p> <p>Growing on dead softwood within banksia woodland.<br/> Latitude: -32° 5' 6.43" Longitude: 115° 49' 58.33"<br/> Easting:389856 Northing: 6449533 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW26</p>   |
|   | <p><b>34 <i>Hyphodontia</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2414</p> <p>Growing on dead nuytsia in banksia woodland.<br/> Latitude: -32° 5' 6.43" Longitude: 115° 49' 58.13"<br/> Easting:389851 Northing: 6449533 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW34</p>  |
|  | <p><b>45 <i>Gymnopilus allantopus</i>      Golden Wood Fungus</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2415</p> <p>Growing on dead <i>Banksia menziesii</i> in banksia woodland.<br/> Latitude: -32° 5' 6.61" Longitude: 115° 49' 58.84"<br/> Easting:389870 Northing: 6449528 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW45</p> |
|  | <p><b>46 <i>Galerina</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2416</p> <p>Growing in sand in open <i>Banksia menziesii</i>, <i>Banksia attenuata</i> woodland.<br/> Latitude: -32° 5' 4.60" Longitude: 115° 49' 59.39"<br/> Easting:389883 Northing: 6449590 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW46</p>           |
|  | <p><b>56 Undetermined Agaric</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2417</p> <p>Growing in sand in woodland.<br/> Latitude: -32° 5' 4.96" Longitude: 115° 49' 58.81"<br/> Easting:389869 Northing: 6449578 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW56</p>   |

|   |   |
|---|---|
|    | <p><b>63 <i>Marasmius</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2418</p> <p>Growing on dead banksia in woodland.<br/> Latitude: -32° 5' 4.82" Longitude: 115° 49' 58.99"<br/> Easting:389873 Northing: 6449583 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW63</p>   |
|    | <p><b>68 <i>Pycnoporus coccineus</i></b>      <b>Scarlet Bracket Fungus</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2419</p> <p>Growing on dead <i>Banksia menziesii</i> in open banksia woodland.<br/> Latitude: -32° 5' 2.40" Longitude: 115° 49' 58.26"<br/> Easting:389853 Northing: 6449657 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW68</p> |
|   | <p><b>73 <i>Ceratiomyxa fruticulosa</i></b>      <b>Slime Mould</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2420</p> <p>Growing on the inside of banksia bark in open banksia woodland.<br/> Latitude: -32° 5' 2.38" Longitude: 115° 49' 58.28"<br/> Easting:389854 Northing: 6449658 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW73</p>            |
|  | <p><b>78 <i>Mycena</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2421</p> <p>Growing on banksia bark in open banksia woodland.<br/> Latitude: -32° 5' 2.35" Longitude: 115° 49' 58.31"<br/> Easting:389854 Northing: 6449658 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW78</p>   |
|  | <p><b>85 <i>Hyphodontia</i> sp.</b><br/> Photographer Danielle Witham      <u>Specimen ID:</u> 2422</p> <p>Growing on the inside of banksia bark in open banksia woodland.<br/> Latitude: -32° 5' 2.34" Longitude: 115° 49' 58.32"<br/> Easting:389855 Northing: 6449659 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_167DW85</p>  |



## Georeferenced Track and Photos







Joe Froudish's Group, 12 July 2006.



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

|  |   |
|--|---|
|  | <p><b>02 <i>Galerina</i> sp.</b><br/> Photographer Joe Froudish <span style="float: right;"><u>Specimen ID:</u> 2423</span><br/> Growing in sand within litter, one attached to a twig in kunzea shrubland.<br/> Latitude: -32° 4' 56.45" Longitude: 115° 50' 9.24"<br/> Easting:390139 Northing: 6449843 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_168JF02</span></p>                     |
|  | <p><b>04 <i>Laccaria</i> sp.</b><br/> Photographer Joe Froudish <span style="float: right;"><u>Specimen ID:</u> 2424</span><br/> Growing in sand within moss and litter, in marri woodland with kunzea and jacksonia shrubland.<br/> Latitude: -32° 4' 56.09" Longitude: 115° 50' 8.45"<br/> Easting:390118 Northing: 6449854 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_168JF04</span></p> |
|  | <p><b>07 <i>Inocybe</i> sp.</b><br/> Photographer Joe Froudish <span style="float: right;"><u>Specimen ID:</u> 2425</span><br/> Growing in sand within moss and litter, in marri woodland with kunzea and jacksonia shrubland.<br/> Latitude: -32° 4' 56.01" Longitude: 115° 50' 8.53"<br/> Easting:390120 Northing: 6449857 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_168JF07</span></p>  |



|   |   |
|---|---|
|    | <p><b>08 <i>Rickenella fibula</i></b><br/> Photographer Joe Froudust<br/> <b>Orange Mosscap</b><br/> <u>Specimen ID:</u> 2426</p> <p>Growing in sand within moss and litter, in marri woodland with kunzea and jacksonia shrubland.<br/> Latitude: -32° 4' 56.04" Longitude: 115° 50' 8.48"<br/> Easting:390119 Northing: 6449856 Zone: 50<br/> Date: 12 Jul 2006 opt Image NL63_168JF08</p>            |
|    | <p><b>11 <i>Amanita xanthocephala</i></b><br/> Photographer Joe Froudust<br/> <b>Yellow Headed Amanita</b><br/> <u>Specimen ID:</u> 2427</p> <p>Growing in sand within moss and litter, in marri woodland with kunzea and jacksonia shrubland.<br/> Latitude: -32° 4' 56.13" Longitude: 115° 50' 8.52"<br/> Easting:390120 Northing: 6449853 Zone: 50<br/> Date: 12 Jul 2006 opt Image NL63_168JF11</p> |
|   | <p><b>12 <i>Tubaria</i> sp.</b><br/> Photographer Joe Froudust<br/> <u>Specimen ID:</u> 2428</p> <p>Growing in sand within moss and litter, under jacksonia and near kunzea in marri woodland.<br/> Latitude: -32° 4' 56.03" Longitude: 115° 50' 8.57"<br/> Easting:390121 Northing: 6449856 Zone: 50<br/> Date: 12 Jul 2006 opt Image NL63_168JF12</p>   |
|  | <p><b>13 Undetermined Ascomycete</b><br/> Photographer Joe Froudust<br/> <u>Specimen ID:</u> 2429</p> <p>Growing in sand within moss and litter, in marri woodland with kunzea and jacksonia shrubland<br/> Latitude: -32° 4' 56.00" Longitude: 115° 50' 8.57"<br/> Easting:390121 Northing: 6449857 Zone: 50<br/> Date: 12 Jul 2006 opt Image NL63_168JF13</p>   |
|  | <p><b>14 <i>Crepidotus nephrodes</i></b><br/> Photographer Joe Froudust<br/> <u>Specimen ID:</u> 2430</p> <p>Growing on dead wood in kunzea woodland.<br/> Latitude: -32° 4' 56.27" Longitude: 115° 50' 8.30"<br/> Easting:390115 Northing: 6449849 Zone: 50<br/> Date: 12 Jul 2006 opt Image NL63_168JF14</p>  |
|  | <p><b>15 <i>Dermocybe clelandii</i></b><br/> Photographer Joe Froudust<br/> <b>Cleland's Cortinar</b><br/> <u>Specimen ID:</u> 2431</p> <p>Growing in sand within litter, in kunzea woodland.<br/> Latitude: -32° 4' 56.27" Longitude: 115° 50' 8.30"<br/> Easting:390114 Northing: 6449849 Zone: 50<br/> Date: 12 Jul 2006 opt Image NL63_168JF15</p>  |

|   |   |
|---|---|
|    | <p><b>16 <i>Inocybe</i> sp.</b><br/> Photographer Joe Froudust                      <u>Specimen ID:</u> 2432</p> <p>Growing in sand under litter within kunzea woodlands with young flooded gums nearby.<br/> Latitude: -32° 4' 56.32" Longitude: 115° 50' 8.23"<br/> Easting:390113 Northing: 6449847 Zone: 50<br/> Date: 12 Jul 2006                                      opt Image NL63_168JF16</p>                  |
|    | <p><b>19 Undetermined Agaric</b><br/> Photographer Joe Froudust                      <u>Specimen ID:</u> 2433</p> <p>Growing on dead wood in kunzea woodland.<br/> Latitude: -32° 4' 56.39" Longitude: 115° 50' 8.23"<br/> Easting:390113 Northing: 6449845 Zone: 50<br/> Date: 12 Jul 2006                                      opt Image NL63_168JF19</p>   |
|   | <p><b>20 <i>Perenniporia ochroleuca</i></b><br/> Photographer Joe Froudust                      <u>Specimen ID:</u> 2434</p> <p>Growing on near the base of kunzea in kunzea woodland.<br/> Latitude: -32° 4' 56.39" Longitude: 115° 50' 8.23"<br/> Easting:390113 Northing: 6449845 Zone: 50<br/> Date: 12 Jul 2006                                      opt Image NL63_168JF20</p>                                    |
|  | <p><b>21 <i>Ramaria</i> sp.</b><br/> Photographer Joe Froudust                      <u>Specimen ID:</u> 2435</p> <p>Growing in sand within litter within marri, kunzea woodland.<br/> Latitude: -32° 4' 55.63" Longitude: 115° 50' 8.38"<br/> Easting:390116 Northing: 6449868 Zone: 50<br/> Date: 12 Jul 2006                                      opt Image NL63_168JF21</p>  |
|  | <p><b>22 <i>Lepiota</i> sp.</b><br/> Photographer Joe Froudust                      <u>Specimen ID:</u> 2436</p> <p>Growing in sand within litter within marri, kunzea woodland.<br/> Latitude: -32° 4' 55.54" Longitude: 115° 50' 8.38"<br/> Easting:390116 Northing: 6449871 Zone: 50<br/> Date: 12 Jul 2006                                      opt Image NL63_168JF22</p>  |
|  | <p><b>24 <i>Calocera guepinoides</i></b>                      <b>Scotsman's Beard</b><br/> Photographer Joe Froudust                      <u>Specimen ID:</u> 2437</p> <p>Growing on dead wood in marri, kunzea woodland.<br/> Latitude: -32° 4' 55.47" Longitude: 115° 50' 8.38"<br/> Easting:390116 Northing: 6449873 Zone: 50<br/> Date: 12 Jul 2006                                      opt Image NL63_168JF24</p> |



**26 *Mycena* sp.**

Photographer Joe Froud

Specimen ID: 2438

Growing on dead wood in marri, kunzea woodland.

Latitude: -32° 4' 55.14" Longitude: 115° 50' 8.63"

Easting:390123 Northing: 6449884 Zone: 50

Date: 12 Jul 2006

opt Image NL63\_168JF26



**27 *Pluteus* sp.**

Photographer Joe Froud

Specimen ID: 2439

Growing on dead wood within marri, kunzea woodland.

Latitude: -32° 4' 55.12" Longitude: 115° 50' 8.65"

Easting:390123 Northing: 6449884 Zone: 50

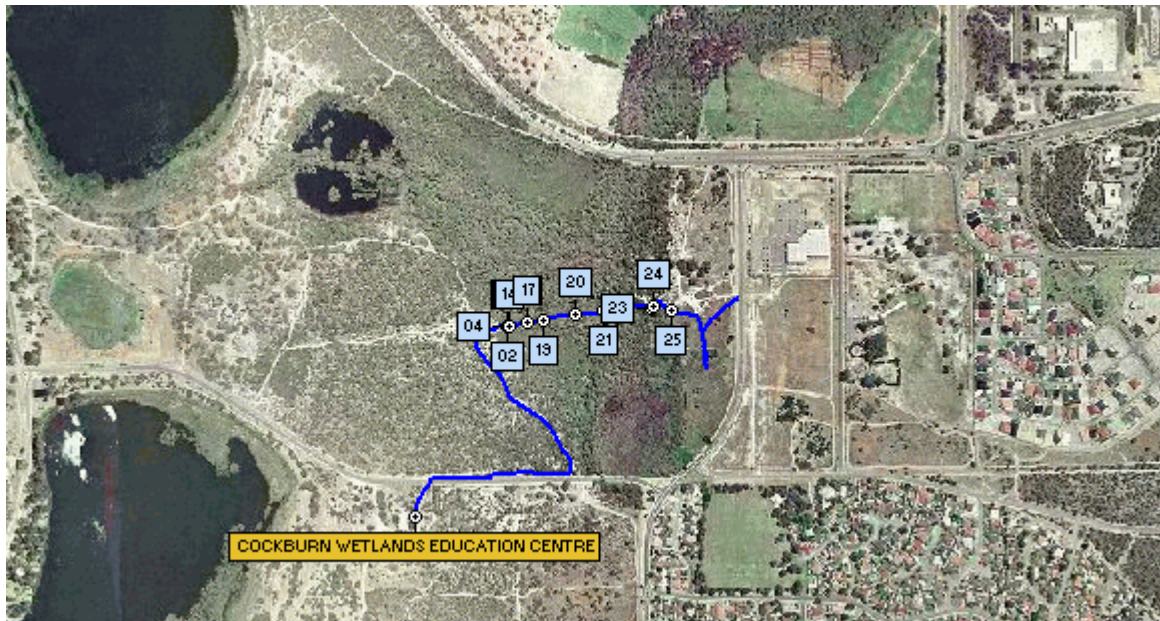
Date: 12 Jul 2006

opt Image NL63\_168JF27



## Georeferenced Track and Photos





Mark Brundrett's Group, 12 July 2006.








The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

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|  | <p><b>02 <i>Laccaria lateritia</i></b><br/> Photographer Phylis Robertson      <b>Brick Red Laccaria</b><br/> <u>Specimen ID: 2440</u></p> <p>Growing in sand in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.96" Longitude: 115° 49' 58.85"<br/> Easting:389867 Northing: 6449794 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR02</p> |
|  | <p><b>04 <i>Mycena</i> sp.</b><br/> Photographer Phylis Robertson      <u>Specimen ID: 2441</u></p> <p>Growing on dead wood within moss in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.98" Longitude: 115° 49' 58.83"<br/> Easting:389867 Northing: 6449793 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR04</p>                       |
|  | <p><b>08 <i>Lichenomphalia</i> sp.</b><br/> Photographer Phylis Robertson      <u>Specimen ID: 2442</u></p> <p>Growing within litter in moss in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.99" Longitude: 115° 49' 58.81"<br/> Easting:389866 Northing: 6449793 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR08</p>                  |



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|---|---|
|    | <p><b>09 <i>Entoloma</i> sp.</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2443</p> <p>Growing within litter in moss in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 58.00" Longitude: 115° 49' 58.80"<br/> Easting:389866 Northing: 6449793 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR09</p>  |
|    | <p><b>10 <i>Inocybe</i> sp.</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2444</p> <p>Growing on dead, buried kunzea stick in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.99" Longitude: 115° 49' 58.82"<br/> Easting:389866 Northing: 6449793 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR10</p>  |
|   | <p><b>11 <i>Phellinus</i> sp.</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2445</p> <p>Growing on dead, buried kunzea bark in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.95" Longitude: 115° 49' 58.85"<br/> Easting:389867 Northing: 6449794 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR11</p>   |
|  | <p><b>14 <i>Crepidotus eucalyptorum</i>      <i>Eucalyptus Crepidotus</i></b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2446</p> <p>Growing on dead, buried kunzea bark in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.94" Longitude: 115° 49' 58.98"<br/> Easting:389871 Northing: 6449795 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR14</p> |
|  | <p><b>16 <i>Gymnopilus</i> cf. <i>purpuratus</i></b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2447</p> <p>Growing on dead <i>Melaleuca preissiana</i> in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.76" Longitude: 115° 50' 0.35"<br/> Easting:389906 Northing: 6449801 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR16</p>                   |
|  | <p><b>17 <i>Lactarius eucalypti</i></b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2448</p> <p>Growing in moss in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.77" Longitude: 115° 50' 0.37"<br/> Easting:389907 Northing: 6449800 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR17</p>  |

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|    | <p><b>19 <i>Russula persanguinea</i></b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2449</p> <p>Growing in moss in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.59" Longitude: 115° 50' 1.60"<br/> Easting:389939 Northing: 6449806 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR19</p>   |
|   | <p><b>21 <i>Pycnoporus coccineus</i></b>      <b>Scarlet Bracket Fungus</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2451</p> <p>Growing on dead <i>Eucalyptus rudis</i> wood in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 57.02" Longitude: 115° 50' 6.17"<br/> Easting:390059 Northing: 6449825 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR21</p> |
|  | <p><b>23 <i>Dermocybe clelandii</i></b>      <b>Cleland's Cortinar</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2452</p> <p>Growing in sand within moss in spearwood, <i>Melaleuca preissiana</i> wetland.<br/> Latitude: -32° 4' 56.93" Longitude: 115° 50' 9.78"<br/> Easting:390153 Northing: 6449829 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR23</p>                       |
|  | <p><b>24 <i>Pisolithus</i> sp.</b>      <b>Dog Poo Fungus</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2453</p> <p>Growing in sand in kunzea, lecuopogon and zamia wetland.<br/> Latitude: -32° 4' 56.79" Longitude: 115° 50' 9.91"<br/> Easting:390157 Northing: 6449833 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR24</p>  |
|  | <p><b>25 <i>Gymnopilus allantopus</i></b>      <b>Golden Wood Fungus</b><br/> Photographer Phylis Robertson      <u>Specimen ID:</u> 2454</p> <p>Growing on dead wood in kunzea, lecuopogon and zamia wetland.<br/> Latitude: -32° 4' 57.00" Longitude: 115° 50' 11.29"<br/> Easting:390193 Northing: 6449827 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_169PR25</p>                                     |









## Georeferenced Track and Photos

Jolanda Keeble's Group, 12 July 2006.









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|  | <p><b>04 <i>Campanella</i> sp.</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2455</p> <p>Growing on dead banksia in banksia, kunzea woodland.<br/> Latitude: -32° 4' 56.76" Longitude: 115° 49' 55.66"<br/> Easting:389783 Northing: 6449830 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK04<br/> <b>Vouchered into WA Herbarium E8361</b></p> |
|  | <p><b>06 <i>Gymnopilus allantopus</i></b>      <b>Golden Wood Fungus</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2456</p> <p>Growing on dead banksia in banksia, kunzea woodland.<br/> Latitude: -32° 4' 56.71" Longitude: 115° 49' 55.70"<br/> Easting:389784 Northing: 6449831 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK06</p>         |
|  | <p><b>09 <i>Dermocybe clelandii</i></b>      <b>Cleland's Cortinar</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2458</p> <p>Growing in sand in banksia, kunzea woodland.<br/> Latitude: -32° 4' 55.24" Longitude: 115° 49' 55.37"<br/> Easting:389775 Northing: 6449877 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK09</p>                   |

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|    | <p><b>12 <i>Scleroderma</i> sp.</b><br/> Photographer Kim Sarti <span style="float: right;"><u>Specimen ID:</u> 2459</span></p> <p>Growing in sand under kunzea in banksia, kunzea woodland.<br/> Latitude: -32° 4' 55.16" Longitude: 115° 49' 55.35"<br/> Easting:389775 Northing: 6449879 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_170JK12</span></p>   |
|    | <p><b>13 <i>Pholiota communis</i></b> <span style="float: right;"><b>Common Pholiota</b></span><br/> Photographer Jolanda Keeble <span style="float: right;"><u>Specimen ID:</u> 2460</span></p> <p>Growing in sand in kunzea woodland.<br/> Latitude: -32° 4' 55.05" Longitude: 115° 49' 55.42"<br/> Easting:389776 Northing: 6449883 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_170JK13</span></p>            |
|   | <p><b>16 <i>Gymnopilus cf. purpuratus</i></b><br/> Photographer Jolanda Keeble <span style="float: right;"><u>Specimen ID:</u> 2462</span></p> <p>Growing on dead wood in kunzea woodland.<br/> Latitude: -32° 4' 54.84" Longitude: 115° 49' 55.78"<br/> Easting:389786 Northing: 6449889 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_170JK16</span></p>   |
|  | <p><b>18 <i>Calocera guepiniioides</i></b> <span style="float: right;"><b>Scotsman's Beard</b></span><br/> Photographer Jolanda Keeble <span style="float: right;"><u>Specimen ID:</u> 2463</span></p> <p>Growing on dead wood in kunzea woodland.<br/> Latitude: -32° 4' 54.89" Longitude: 115° 49' 55.78"<br/> Easting:389786 Northing: 6449888 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_170JK18</span></p> |
|  | <p><b>20 <i>Russula</i> sp.</b><br/> Photographer Jolanda Keeble <span style="float: right;"><u>Specimen ID:</u> 2464</span></p> <p>Growing in sand in kunzea woodland.<br/> Latitude: -32° 4' 54.63" Longitude: 115° 49' 55.91"<br/> Easting:389789 Northing: 6449896 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_170JK20</span></p>  |
|  | <p><b>22 <i>Rickenella fibula</i></b> <span style="float: right;"><b>Orange Moss-cap</b></span><br/> Photographer Jolanda Keeble <span style="float: right;"><u>Specimen ID:</u> 2465</span></p> <p>Growing in moss in kunzea woodland.<br/> Latitude: -32° 4' 54.70" Longitude: 115° 49' 55.85"<br/> Easting:389787 Northing: 6449894 Zone: 50<br/> Date: 12 Jul 2006 <span style="float: right;">opt Image NL63_170JK22</span></p>            |

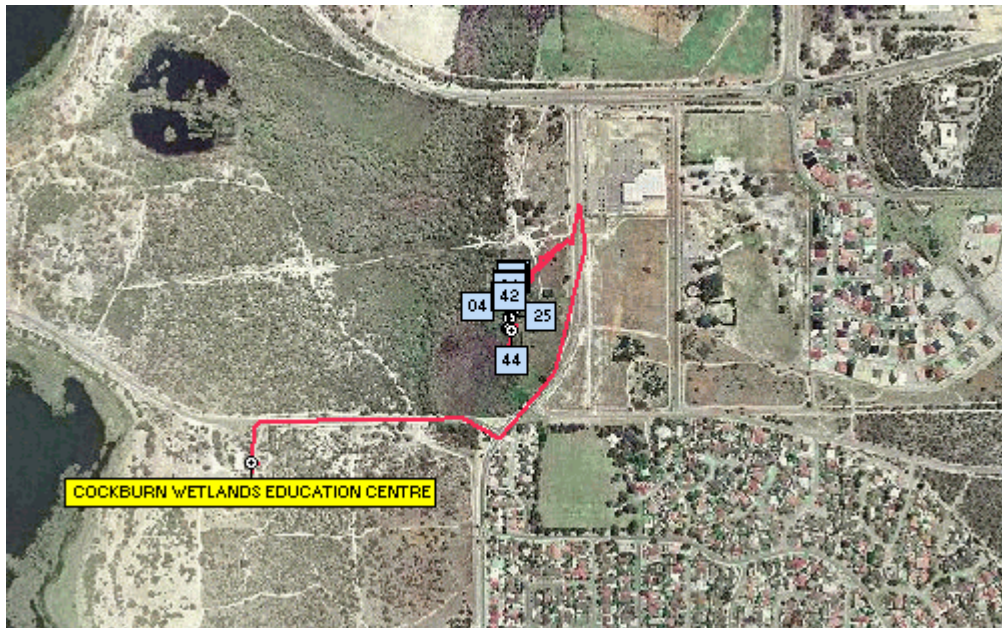


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|    | <p><b>24 <i>Laccaria</i> sp.</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2466</p> <p>Growing in sand in kunzea woodland.<br/> Latitude: -32° 4' 54.53" Longitude: 115° 49' 56.10"<br/> Easting:389794 Northing: 6449899 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK24</p>                     |
|    | <p><b>26 <i>Ramaria</i> sp.</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2467</p> <p>Growing in sand in kunzea woodland.<br/> Latitude: -32° 4' 54.47" Longitude: 115° 49' 56.07"<br/> Easting:389793 Northing: 6449901 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK26</p>                      |
|   | <p><b>30 <i>Russula persanguinea</i></b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2468</p> <p>Growing in sand in kunzea woodland.<br/> Latitude: -32° 4' 54.52" Longitude: 115° 49' 56.02"<br/> Easting:389792 Northing: 6449899 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK30</p>             |
|  | <p><b>31 <i>Crepidotus nephrodes</i></b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2469</p> <p>Growing on dead melaleuca wood along riverbank.<br/> Latitude: -32° 4' 54.56" Longitude: 115° 49' 55.98"<br/> Easting:389791 Northing: 6449898 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK31</p> |
|  | <p><b>34 <i>Rhodocollybia</i> sp.</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2470</p> <p>Growing in litter of reeds along drain.<br/> Latitude: -32° 4' 54.40" Longitude: 115° 49' 56.03"<br/> Easting:389792 Northing: 6449903 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK34</p>            |
|  | <p><b>37 <i>Gymnopilus</i> sp.</b><br/> Photographer Jolanda Keeble      <u>Specimen ID:</u> 2471</p> <p>Growing on dead wood on bank of drain.<br/> Latitude: -32° 4' 54.25" Longitude: 115° 49' 56.03"<br/> Easting:389792 Northing: 6449907 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_170JK37</p>                |






## Georeferenced Track and Photos

Roz Hart and Neil Goldsborough's Group, 12 July 2006.



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|  | <p><b>04 <i>Gymnopilus allantopus</i></b>      <b>Golden Wood Fungus</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2472</p> <p>Growing on dead wood in marri, kunzea woodland.<br/> Latitude: -32° 5' 0.71" Longitude: 115° 50' 11.62"<br/> Easting:390203 Northing: 6449713 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG04</p> |
|  | <p><b>08 <i>Mycena</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2473</p> <p>Growing on dead wood in kunzea woodland.<br/> Latitude: -32° 5' 0.71" Longitude: 115° 50' 11.76"<br/> Easting:390207 Northing: 6449713 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG08</p>  |
|  | <p><b>09 <i>Ramaria</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2474</p> <p>Growing in litter in kunzea woodland.<br/> Latitude: -32° 5' 0.89" Longitude: 115° 50' 11.69"<br/> Easting:390205 Northing: 6449707 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG09</p>  |

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|    | <p><b>11 <i>Inocybe</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2475</p> <p>Growing in litter in kunzea woodland.<br/> Latitude: -32° 5' 0.89" Longitude: 115° 50' 11.69"<br/> Easting:390205 Northing: 6449707 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG11</p>  |
|    | <p><b>13 <i>Gymnopilus</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2476</p> <p>Growing on dead wood in kunzea woodland.<br/> Latitude: -32° 5' 0.89" Longitude: 115° 50' 11.69"<br/> Easting:390205 Northing: 6449707 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG13</p>                                    |
|   | <p><b>15 <i>Calocera guepinoides</i>      Scotsman's Beard</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2477</p> <p>Growing on dead wood in marri, kunzea woodland.<br/> Latitude: -32° 5' 0.89" Longitude: 115° 50' 11.69"<br/> Easting:390205 Northing: 6449707 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG15</p> |
|  | <p><b>17 <i>Galerina</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2478</p> <p>Growing in moss in marri, kunzea woodland.<br/> Latitude: -32° 5' 0.89" Longitude: 115° 50' 11.68"<br/> Easting:390205 Northing: 6449707 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG17</p>                                    |
|  | <p><b>19 <i>Dermocybe clelandii</i>      Cleland's Cortinar</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2479</p> <p>Growing in litter in marri, kunzea woodland.<br/> Latitude: -32° 5' 0.79" Longitude: 115° 50' 11.62"<br/> Easting:390203 Northing: 6449710 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG19</p>   |
|  | <p><b>25 <i>Russula</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2480</p> <p>Growing in litter in marri, kunzea woodland.<br/> Latitude: -32° 5' 1.32" Longitude: 115° 50' 11.47"<br/> Easting:390199 Northing: 6449694 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG25</p>                                   |



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|    | <p><b>26 <i>Cortinarius</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2481</p> <p>Growing in litter in marri, kunzea woodland.<br/> Latitude: -32° 5' 1.32" Longitude: 115° 50' 11.47"<br/> Easting:390199 Northing: 6449694 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG26</p>  |
|    | <p><b>31 <i>Laccaria</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2482</p> <p>Growing in litter in marri, kunzea, banksia woodland.<br/> Latitude: -32° 5' 1.32" Longitude: 115° 50' 11.47"<br/> Easting:390199 Northing: 6449694 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG31</p>  |
|   | <p><b>34 <i>Tubaria</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2483</p> <p>Growing in litter in marri, kunzea woodland.<br/> Latitude: -32° 5' 1.43" Longitude: 115° 50' 11.50"<br/> Easting:390200 Northing: 6449691 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG34</p>  |
|  | <p><b>39 <i>Resupinatus</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2484</p> <p>Growing on dead wood in <i>Melaleuca preissiana</i> woodland.<br/> Latitude: -32° 5' 2.16" Longitude: 115° 50' 11.34"<br/> Easting:390196 Northing: 6449668 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG39</p>                                     |
|  | <p><b>42 <i>Exidia</i> sp.</b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2485</p> <p>Growing on dead wood in <i>Melaleuca preissiana</i> woodland.<br/> Latitude: -32° 5' 2.04" Longitude: 115° 50' 11.39"<br/> Easting:390197 Northing: 6449672 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG42</p>  |
|  | <p><b>44 <i>Mycoacea subceracea</i>      <b>Golden Splash Tooth</b></b><br/> Photographer Neil Goldsborough      <u>Specimen ID:</u> 2486</p> <p>Growing on dead wood in <i>Melaleuca preissiana</i> woodland.<br/> Latitude: -32° 5' 2.18" Longitude: 115° 50' 11.59"<br/> Easting:390203 Northing: 6449667 Zone: 50<br/> Date: 12 Jul 2006      opt Image NL63_171NG44</p> |