



Paganoni 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



Surveying team ready to set out

Examining some Armillaria mushrooms

PUBF Website : www.fungiperth.org.au

Perth Urban Bushland Fungi Project mycologist Neale Bougher and community education officer Roz Hart conducted a Biological Survey for Fungi at Paganoni Bushland (Bush Forever Site 395) on 27 June 2006. They were assisted by ten volunteers from both PUBF and the Friends of Paganoni and accompanied by Rockingham Lakes Regional Park operations officer Renee Miles.

The Survey was carried out as part of a **DEC 2006 Regional Parks** Community Grant awarded to the Perth Urban Bushland Fungi Project to survey three sites in nominated DEC Regional Parks. Paganoni Bushland is part of Rockingham Lakes Regional Park. The survey party divided into two groups. Both started from the same point on the northern side of the park and searched for fungi following different routes as shown on the aerial photo on page 8.





Urban Bushland

Fungi

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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 volunteers

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PUBF Website : www.fungiperth.org.au

In 2005, the Perth Urban Bushland Fungi Project conducted a fungi walk in Paganoni Bushland at the invitation of the Friends of Paganoni bushcare group. A report on the fungi found on that day is available for downloading from the PUBF website at www.fungiperth.org.au. Hard copies are held by the Friends of Paganoni, the Urban Bushland Council, the Western Australian Naturalists' Club and the Department of Environment and Conservation, in the Bush Forever Reference Sites Files. The 2005 fungi event showed that this bushland contains a diversity of vegetation and associated fungi and allowed us to produce the **first ever inventory of fungi for Paganoni Bushland**. This represented a very small portion of the fungi which are likely to be present in this bushland.

Due to the nature of fungi, which fruit irregularly and intermittently, it is necessary to conduct many such surveys over different days in the fungi season as well as in successive years to produce an accurate inventory of the fungi present in this valuable bushland. By conducting such surveys with community assistance, PUBF aims to assist Bushcare groups to conduct their own regular fungi surveys in the fungi season and over successive years, depending on the resources available to them. There is now a Perth Urban Fungi Field book, also on the PUBF website for downloading, to assist with identification of some of the fungi.

Paganoni Bushland Fungi

Unusually low rainfall in the period prior to this survey affected the abundance and diversity of fungi observed in the survey. However, 48 species of fungi were recorded. These include decomposer fungi such as *Gymnopilus* species, beneficial mycorrhizal fungi such as *Amanita* species, and pathogenic (disease) fungi such as *Armillaria luteobubalina*.

In the Perth region, as is the case in Paganoni Bushland, Tuart (*Eucalyptus gomphocephala*) seems to be particularly susceptible to *Armillaria luteobubalina*. Other trees and shrubs are also affected by this fungus. The obvious consequences of *Armillaria* infestation include the death of trees and shrubs, but the overall effect on bushland ecology and the capacity of bushlands to recover is not known. *Armillaria luteobublalina* is considered to be a native fungus in the Perth region, so presumably has long been part of bushland ecology in the region, probably including Paganoni Bushland and other areas in Rockingham Lakes Regional Park.

The occurrence of high biodiversity of all types of fungi in bushlands and therefore the various contributions of those fungi to the overall health of bushlands may be one factor determining the frequency and severity of infestations of *Armillaria* (and other disease fungi). Management strategies that aim to nurture fungi biodiversity in parks such as Rockingham Lakes Regional Park therefore may be desirable from a disease management perspective as well as from a more general biodiversity perspective.

Management Recommendations for Fungi Biodiversity at Paganoni Bushland

Is the ecology and biodiversity of Paganoni Bushland in Rockingham Lakes Regional Park in balance for long-term health? To help answer that question, management strategies for the biodiversity of the bushland need to consider the Flora, Fauna <u>and</u> Fungi together. The Fungi have crucial ecological roles for maintaining bushland health, including linkages between the 3 F's. An increased level of knowledge about the fungi at Paganoni is required as a basis to managing the fungi, and in turn for managing the Flora and Fauna.

1. **Armillaria:** Direct management to contain particular *Armillaria* infestations is complex, and an analysis of the various intervention options is beyond the scope of this report. Management options for *Armillaria* that are often applied in gardens such as trenching or changes to soil pH are impracticable for natural bushlands. Quarantine options such as those applied for *Phytophthora* dieback are not as appropriate for *Armillaria*, due to the difference in how these vastly different organisms spread. In most cases, at least in the Perth Region, *Armillaria* infestations have been periodic, often flaring up and diminishing after a period of time. The underlying causes of such fluxes are not fully understood. For Paganoni Bushland, it is recommended that georeferenced surveys of *Armillaria* be undertaken to create a spatial map of the distribution of this fungus. This data can be overlain onto vegetation, soil and fire-age maps so as to potentially recognize associations between infestations and plants or vegetation and landscape types. A georeferencing survey kit developed by John Weaver for PUBF is available for loan from the WA Herbarium. It would be desirable to undertake the surveys successively over time to be able to monitor the spread, intensity and duration of *Armillaria* infections in Paganoni Bushland.

- 2. Undertake biological surveys to build up an inventory of fungi: Far more fungi are likely to occur in Paganoni 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 Paganoni 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 such as fire or disease incursions.
- 3. **Record comprehensive data on surveys:** (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 the Perth Urban Bushland Fungi Project.
- 4. **Georeference the surveys:** It would be desirable to georeference the surveys at Paganoni Bushland: to build up a spatial map of distribution of individual fungi species. As for *Armillaria* (see 1 above), such data can be overlain onto vegetation, soil and fire-age maps so as to potentially recognise associations between particular fungi and plants or vegetation and landscape types. A georeferencing survey kit developed by John Weaver for PUBF is available for loan from the WA Herbarium.
- 5. **Involve community:** It is recommended that further fungi surveys involving members of the local community be undertaken at Paganoni Bushland. Involving community members can enable a greater sampling effort, a general increase in awareness about fungi and their roles and linkages in bushlands, and a greater appreciation of the need to preserve bushland. Fungi surveys are well suited to annual involvement of Friends Groups and volunteers from local community.
- 6. **Determine the mycorrhizal plant partners of fungi:** To understand the mycorrhizal relationships between fungi and plants at Paganoni Bushland, the list of known plants should be annotated with the likely mycorrhizal status of each plant, e.g. categories such as ectomycorrhizal, arbuscular, epacrid, orchid, not mycorrhizal. This will help understand how the pattern of occurrence of various species of fungi relates to the distribution of vegetation types at Paganoni Bushland.
- 7. **Determine the animal interactions with fungi:** Determine what truffle fungi are present at Paganoni Bushland, and if they are being used as a food resource by local native mammals. This information is significant knowledge to apply if mammals are being encouraged or relocated into Paganoni Bushland, or to understand why there may have been declines in mammal populations.
- 8. **Support a strategy to preserve representative landscapes:** By default, this strategy may foster fungi biodiversity at Paganoni Bushland. Support a management plan that aims to preserve a variety of natural vegetation types and the diversity of plant species within the types. Also preserve a diversity of fire ages, including at least some long unburnt patches if possible. This strategy will help retain a variety of microhabitats for fungi e.g. specific components of wood (logs, cones, twigs etc...), litter, moss beds, and specific mycorrhizal partner plants.

Paganoni Bushland Fungi List: 27 June 2006

<u>Life Mode Key</u>: M = Mycorrhizal, S = Saprotropic (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

<u>Scientific Name</u>	<u>Common Name</u>	<u>Form</u>	<u>Habitat</u>	<u>Life</u> Mode	<u>Field</u> <u>Book</u> Page_No	Specimen ID
Agaricus austrovinaceus		mushroom	litter/ground	S		2146
Aleurodiscus sp.	Orange Aleurodiscus	resupinate	dead wood	S	R-3	2156, 2194
Amanita cf. robusta		mushroom	litter/ground	М		2196
Amanita sp.		mushroom	litter/ground	М		2189
Amanita xanthocephala	Yellow Headed Amanita	mushroom	litter/ground	М		2198
Armillaria luteobubalina	Australian Honey Fungus	mushroom	dead/living trees & roots	Р	J-2	2127, 2128, 2157, 2173,
Boletus sp.		mushroom	litter/ground	Μ		2197
Calocera guepinioides	Scotsman's Beard	jelly fungus	dead wood	S	Q-1	2153, 2193
<i>Clavulina</i> sp.		coral	litter/ground	М		2145, 2180
Coltricia cinnamomea	Tough Cinnamon Fungus	mushroom	litter/ground	S	N-1	2195
Conocybe sp.		mushroom	litter/ground	S		2133
<i>Cortinarius</i> sp.		mushroom	litter/ground	М		2188
<i>Exidia</i> sp.		jelly fungus	dead wood	S		2165
Galerina sp.		mushroom	litter/ground	S		2164, 2170, 2181
Gymnopilus allantopus	Golden Wood Fungus	mushroom	dead wood	S	J-15	2126, 2148, 2151, 2176
Gymnopilus aff. pampeanus		mushroom	dead wood	S		2171
Gymnopilus cf. purpuratus		mushroom	dead wood	S		2131, 2161
Harknessia uromycoides	Tuart Nut Fungus	pustules	dead wood	S	C-1	2187
Henningsomyces candidus	Miniature Chimney Pots	tubular	dead wood	S	R-1	2177
Hexagonia vesparia	Wasp Nest Polypore	bracket	dead wood	S	N-3	2159
<i>Hyphodontia</i> sp.		resupinate	dead wood	S		2138

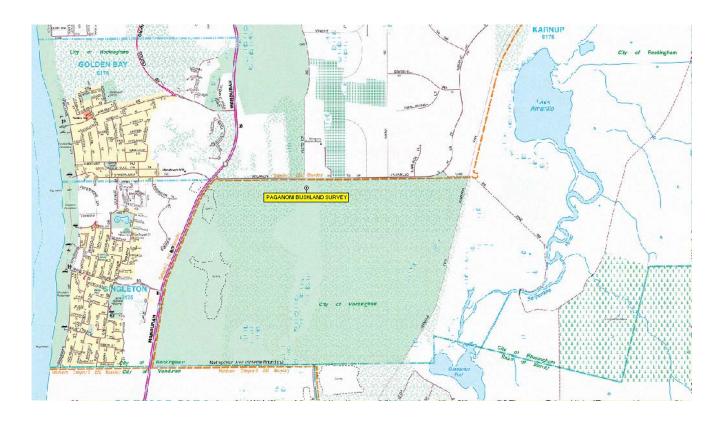
Hypholoma australe		mushroom	dead wood/litter/	S		2191
anstraic		musinoom	ground	5		2171
<i>Hypocrea</i> sp.		pustules	dead wood	S		2167
Ionotus sp.		bracket	dead wood	S		2721
<i>Lepiota</i> sp.		mushroom	litter/ground	S		2136, 2152
Macrolepiota		musinoom	inter/ground	5		
clelandii		mushroom	litter/ground	S		2140, 2147, 2179
Mycena sp.		mushroom	litter/ground	S		2144, 2155, 2168, 2178, 2183, 2186
Mycena clarkeana	Clarke's Pixie Cap	mushroom	bark, tree	S		2137, 2162, 2172
Omphalotus nidiformis	Ghost Fungus	mushroom	dead wood	S/P	J-21	2129
Phaeomarasmius sp.		shell	dead wood	S		2154
Phellinus sp.		bracket	dead wood	S		2169
Phellodon sp.		mushroom	litter/ground	S		2182
<i>Pisolithus</i> sp.	Dog Poo Fungus	puffball	litter/ground	М	L-3	2199
Pluteus lutescens		mushroom	dead wood	S		2132
Polyporus badius		mushroom	dead wood	S		2160
<i>Psathyrella</i> sp.		mushroom	litter/ground	S		2149
Pycnoporus coccineus	Scarlet Bracket Fungus	bracket	dead wood	S	N-8	2163
Ramaria gracilis	Slender Coral Fungus	coral	litter/ground	М	M-1	2143
<i>Resupinatus</i> sp.		shell	dead wood	S		2166
Resupinatus cinerascens		shell	dead wood	S		2192
<i>Rhodocollybia</i> sp.		mushroom	litter/ground	S		2184
Rickenella fibula	Orange Mosscap	mushroom	litter/ground	S	J-27	2130, 2185
Schizopora sp.		resupinate	dead wood	S		2190
Scleroderma cepa		puffball	litter/ground	М		2174
Sphaerobolus stellatus	Cannonball Fungus	birdsnest	dead wood	S	L-5	2141
Stereum hirsutum	Hairy Curtain Fungus	bracket	dead wood	S		2158
<i>Tubaria</i> sp.		mushroom	litter/ground	S		2139, 2150
Undetermined Agaric		mushroom	litter/ground	-		2134
Undetermined Ascomycete		-	-	-	-	2142
Undetermined Bolete		mushroom	litter/ground	М		2175

Xylaria hypoxylon	Candle Snuff	other	litter/ground	c	2125
	Fungus	ottier	inter/ground	5	2155

Permanent Voucher Collections

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

Mycena clarkeana Mycena sp. Armillaria luteobubalina Aleurodiscus sp. Boletus sp. Xylaria hypoxolon Phaeomarasmius sp. Phellodon sp. Macrolepiota clelandii Omphalotus nidiformis	Voucher ID: E8335 Voucher ID: E8336 Voucher ID: E8337 Voucher ID: E8338 Voucher ID: E8339 Voucher ID: E8340 Voucher ID: E8341 Voucher ID: E8342 Voucher ID: E8343 Voucher ID: E8344	Specimen ID: 2172 Specimen ID: 2178 Specimen ID: 2173 Specimen ID: 2194 Specimen ID: 2197 Specimen ID: 2135 Specimen ID: 2154 Specimen ID: 2182 Specimen ID: 2147 Specimen ID 2129	Perth Vrban Bushland Fungi
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StreetExpress Map showing the location of Paganoni Bushland in Karnup.

Paganoni Bushland is Bush Forever Site 395, part of Rockingham Lakes Regional Park and a Department of Environment and Conservation Reference Site.



Aerial photo showing the colour coded tracks taken by the two groups, 27 June 2006.

Georeferenced Track and Photos

Date: 27 June 2006

Group: Joe Froudist and Jolanda Keeble led the group of Leonie Stubbs, Cedric Bakewell, Anne Maughan and Diana Hitchin from the Friends of Paganoni Bushland.



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.

	08 Gymnopilus allantopus	Golden Wood Fungus	
2 2/ 5 8/162	Photographer Jolanda Keeble	Specimen ID: 2126	
	Growing on dead banksia wood in Latitude: -32° 26' 3.21" Longitude: Easting:385709 Northing: 6410781	115° 47' 3.39"	
2 30 40 VI	Date: 27 Jun 2006	opt Image PS59_153JK08	
	09 Armillaria luteobubalina Photographer Jolanda Keeble	Australian Honey Fungus Specimen ID: 2127	
	Growing on dead banksia root in B		
	Latitude: -32° 26' 3.38" Longitude: 115° 47' 3.50"		
	Easting:385712 Northing: 6410776	Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_153JK09	

	12 Armillaria luteobubalina A Photographer Jolanda Keeble	Specimen ID: 2128	
	Growing on dead wood in litter in tuart, <i>B. littoralis</i> woodland. Latitude: -32° 26' 3.59" Longitude: 115° 47' 3.50"		
	Easting:385712 Northing: 6410769 Date: 27 Jun 2006	opt Image PS59_153JK12	
A Greek	14 <i>Omphalotus nidiformis</i> Photographer Jolanda Keeble	Ghost Fungus Specimen ID: 2129	
	Growing on dead tuart wood in tuar Latitude: -32° 26' 3.78" Longitude: Easting:385710 Northing: 6410764	115° 47' 3.43"	
2000	Date: 27 Jun 2006 opt Image PS59_ Vouchered into WA Herbarium #		
	17 <i>Rickenella fibula</i> Photographer Jolanda Keeble	Orange Mosscap Specimen ID: 2130	
5	Growing on old, dead log in <i>Melale</i> Latitude: -32° 26' 3.79" Longitude: Easting:385704 Northing: 6410763	115° 47' 3.19"	
04 of 05	Date: 27 Jun 2006	opt Image PS59_153JK17	
Theres	19 <i>Gymnopilus</i> cf. <i>purpuratus</i> Photographer Jolanda Keeble	Specimen ID: 2131	
	Growing on dead wood in <i>Melaleuc</i> Latitude: -32° 26' 3.70" Longitude: Easting:385700 Northing: 6410766	115° 47' 3.06"	
	Date: 27 Jun 2006	opt Image PS59_153JK19	
ALOS EN	20 <i>Pluteus lutescens</i> Photographer Jolanda Keeble	Specimen ID: 2132	
	Growing in litter in <i>Melaleuca raph</i> Latitude: -32° 26' 4.04" Longitude: Easting:385701 Northing: 6410756 Date: 27 Jun 2006	<i>iophylla</i> woodland. 115° 47' 3.07"	
Allow the second			

	24 <i>Conocybe</i> sp. Photographer Jolanda Keeble	Specimen ID: 2133	
	Growing on dead Melaleuca wood in <i>Melaleuca raphiophylla</i> woodland.		
	Latitude: -32° 26' 3.92" Longitude:	115° 47' 2.89"	
	Easting: 385696 Northing: 6410759		
	Date: 27 Jun 2006	opt Image PS59_153JK24	
	27 Undetermined Agaric		
	Photographer Jolanda Keeble	Specimen ID: 2134	
	Growing on dead Melaleuca wood i woodland.	n Melaleuca raphiophylla	
	Latitude: -32° 26' 4.34" Longitude:	115° 47' 2.50"	
	Easting: 385686 Northing: 6410746		
TANK	Date: 27 Jun 2006	opt Image PS59_153JK27	
	31 <i>Ionotus</i> sp. Photographer Jolanda Keeble	Specimen ID: 2721	
	Growing on dead Melaleuca wood in <i>Melaleuca raphiophylla</i> woodland.		
	Latitude: -32° 26' 4.68" Longitude:		
	Easting:385669 Northing: 6410735		
	Date: 27 Jun 2006	opt Image PS59_153JK31	
	33 <i>Xylaria hypoxolon</i> Photographer Jolanda Keeble	Candle Snuff Fungus Specimen ID: 2135	
P	Growing in litter on dead wood in tu Latitude: -32° 26' 4.60" Longitude:	115° 47' 1.59"	
	Easting:385662 Northing: 6410738		
	Date: 27 Jun 2006 Vouchered into WA Herbarium #	opt Image PS59_153JK33 E8340	
	34 Lepiota sp.		
	Photographer Jolanda Keeble	Specimen ID: 2136	
	Growing in litter in tuart woodland.		
	Latitude: -32° 26' 4.16" Longitude:	115° 47' 1.85"	
	Easting:385669 Northing: 6410751		
	Date: 27 Jun 2006	opt Image PS59_153JK34	

	39 <i>Mycena clarkeana</i> Photographer Jolanda Keeble	Clarke's Pixie Cap Specimen ID: 2137	
	Growing on dead Melaleuca wood ir woodland.	n Melaleuca raphiophylla	
	Latitude: -32° 26' 4.69" Longitude: 1	15° 47' 2.31"	
The Allies	Easting:385681 Northing: 6410735 2		
	Date: 27 Jun 2006	opt Image PS59_153JK39	
	41 <i>Hyphodontia</i> sp. Photographer Jolanda Keeble	Specimen ID: 2138	
	Growing on dead <i>Banksia grandis</i> co woodland.	one in Hakea prostrata	
	Latitude: -32° 26' 3.48" Longitude: 1	15° 47' 1.17"	
10	Easting:385651 Northing: 6410772		
0	Date: 27 Jun 2006	opt Image PS59_153JK41	
in the second	43 Tubaria sp.		
	Photographer Jolanda Keeble	Specimen ID: 2139	
	Growing on dead <i>Banksia grandis</i> co woodland.	one in Hakea prostrata	
TA A	Latitude: -32° 26' 3.48" Longitude: 115° 47' 1.16"		
and and a share a share of the	Easting: 385650 Northing: 6410772 2		
	Date: 27 Jun 2006	opt Image PS59_153JK43	
	17 Subacuch clug stallatus	Cannonhall Fungue	
	47 Sphaerobolus stellatus	Cannonball Fungus	
	Photographer Jolanda Keeble	Specimen ID: 2141	
	Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i>	<u>Specimen ID</u> : 2141 , <i>Banksia grandis</i> woodland.	
	Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1	<u>Specimen ID</u> : 2141 , <i>Banksia grandis</i> woodland. 15° 47' 0.96"	
	Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2	<u>Specimen ID</u> : 2141 , <i>Banksia grandis</i> woodland. 15° 47' 0.96" Zone: 50	
	Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1	<u>Specimen ID</u> : 2141 , <i>Banksia grandis</i> woodland. 15° 47' 0.96"	
	Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2	<u>Specimen ID</u> : 2141 , <i>Banksia grandis</i> woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47	
	Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006	<u>Specimen ID</u> : 2141 , <i>Banksia grandis</i> woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. Latitude: -32° 26' 3.24" Longitude: 1 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00"	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00"	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i>, Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. Latitude: -32° 26' 3.24" Longitude: 1 Easting:385646 Northing: 6410780 2 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00" Zone: 50	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. Latitude: -32° 26' 3.24" Longitude: 1 Easting:385646 Northing: 6410780 2 Date: 27 Jun 2006 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00" Zone: 50 opt Image PS59_153JK49	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i>, Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in grandis woodland. Latitude: -32° 26' 3.24" Longitude: 1 Easting:385646 Northing: 6410780 2 Date: 27 Jun 2006 55 Ramaria gracilis Photographer Jolanda Keeble 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00" Zone: 50 opt Image PS59_153JK49 Slender Coral Fungus Specimen ID: 2143	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. Latitude: -32° 26' 3.24" Longitude: 1 Easting:385646 Northing: 6410780 2 Date: 27 Jun 2006 55 Ramaria gracilis Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00" Zone: 50 opt Image PS59_153JK49 Slender Coral Fungus Specimen ID: 2143	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. Latitude: -32° 26' 3.24" Longitude: 1 Easting:385646 Northing: 6410780 2 Date: 27 Jun 2006 55 Ramaria gracilis Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> <i>marginata</i> woodland. Latitude: -32° 26' 4.04" Longitude: 1 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00" Zone: 50 opt Image PS59_153JK49 Slender Coral Fungus Specimen ID: 2143 , Banksia grandis, Eucalyptus 15° 46' 59.73"	
	 Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> Latitude: -32° 26' 3.20" Longitude: 1 Easting:385645 Northing: 6410781 2 Date: 27 Jun 2006 49 Undetermined Ascomycete Photographer Jolanda Keeble Growing on <i>Banksia grandis</i> leaf in <i>grandis</i> woodland. Latitude: -32° 26' 3.24" Longitude: 1 Easting:385646 Northing: 6410780 2 Date: 27 Jun 2006 55 Ramaria gracilis Photographer Jolanda Keeble Growing in litter in <i>Hakea prostrata</i> <i>marginata</i> woodland. 	Specimen ID: 2141 , Banksia grandis woodland. 15° 47' 0.96" Zone: 50 opt Image PS59_153JK47 Specimen ID: 2142 Hakea prostrata, Banksia 15° 47' 1.00" Zone: 50 opt Image PS59_153JK49 Slender Coral Fungus Specimen ID: 2143 , Banksia grandis, Eucalyptus 15° 46' 59.73"	

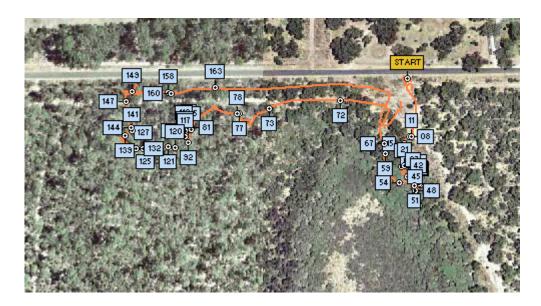
DA FLORID	56 <i>Mycena</i> sp. Photographer Jolanda Keeble	Specimen ID: 2144
	Growing in litter in Hakea prostrata	, Banksia grandis, Eucalyptus
	<i>marginata</i> woodland.	15° 46' 50 62"
A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Latitude: -32° 26' 3.08" Longitude: 1 Easting:385610 Northing: 6410784 2	
A stand	Date: 27 Jun 2006	opt Image PS59_153JK56
	60 Clavulina sp.	
	Photographer Jolanda Keeble	Specimen ID: 2145
	Growing in litter in <i>Hakea prostrata</i>	, Banksia grandis, Eucalyptus
	<i>marginata</i> woodland. Latitude: -32° 26' 3.63" Longitude: 1	15° 46' 59.73''
	Easting:385613 Northing: 6410767 2	
	Date: 27 Jun 2006	opt Image PS59_153JK60
	61 Agaricus austrovinaceus	G : ID 0146
	Photographer Jolanda Keeble	Specimen ID: 2146
K Shank	Growing in litter in Hakea prostrata,	
	Latitude: -32° 26' 3.83" Longitude: 1	
	Easting:385617 Northing: 6410761 2 Date: 27 Jun 2006	opt Image PS59_153JK61
		opt 1100 1 200 _ 10001101
	65 Macrolepiota clelandii	
	Photographer Jolanda Keeble	Specimen ID: 2147
	Growing in litter in Hakea prostrata,	ę
	Latitude: -32° 26' 3.90" Longitude: 1	
Arman In	Easting:385617 Northing: 6410759 2 Date: 27 Jun 2006	opt Image PS59_153JK65
	Vouchered into WA Herbarium #I	
	68 Gymnopilus allantopus	Golden Wood Fungus
	Photographer Jolanda Keeble	Specimen ID: 2148
	Growing on dead Banksia littoralis i	
20 30 24 24 20 24	Latitude: -32° 26' 3.16" Longitude: 1 Easting:385707 Northing: 6410783 2	
	Date: 27 Jun 2006	opt Image PS59_153JK68
	70 Psathyrella sp.	
	Photographer Jolanda Keeble	Specimen ID: 2149
Denser - Vis	Growing in litter in tuart woodland.	
Alexand and the	Latitude: -32° 26' 3.22" Longitude: 1	
CARLES IN	Easting: 385727 Northing: 6410781 2	
A CARD	Date: 27 Jun 2006	opt Image PS59_153JK70

	73 <i>Tubaria</i> sp. Photographer Jolanda Keeble	Specimen ID: 2150	
	Growing in litter in tuart woodland. Latitude: -32° 26' 3.54" Longitude: Easting:385736 Northing: 6410771 Date: 27 Jun 2006		
	2 moi 27 Van 2000	opt mage 1 Sey_10001170	
	74 <i>Gymnopilus allantopus</i> Photographer Jolanda Keeble	Golden Wood Fungus Specimen ID: 2151	
Marza	Growing on dead banksia wood in the Latitude: -32° 26' 3.62'' Longitude:	115° 47' 4.52"	
A LAND	Easting:385738 Northing: 6410769 Date: 27 Jun 2006	Zone: 50 opt Image PS59_153JK74	
	75 <i>Lepiota</i> sp. Photographer Jolanda Keeble	Specimen ID: 2152	
A 7	Growing in litter in tuart woodland. Latitude: -32° 26' 3.60" Longitude: Easting:385738 Northing: 6410769		
	Date: 27 Jun 2006	opt Image PS59_153JK75	
	77 <i>Calocera guepinioides</i> Photographer Jolanda Keeble	Scotsman's Beard Specimen ID: 2153	
C. C. C.	Growing on dead tuart wood in tuart woodland. Latitude: -32° 26' 3.52" Longitude: 115° 47' 4.53" Easting:385738 Northing: 6410772 Zone: 50		
at the	Date: 27 Jun 2006		
TIT ARA	79 Phaeomarasmius sp.		
and the second second	Photographer Jolanda Keeble	Specimen ID: 2154	
10	Growing on dead tuart wood in tuar Latitude: -32° 26' 3.36" Longitude:	115° 47' 4.55"	
οπηίο 2	Easting:385739 Northing: 6410777 Date: 27 Jun 2006	Zone: 50 opt Image PS59_153JK79	
	Vouchered into WA Herbarium #	1 0	
	82 Mycena sp.		
[·] · · · ·	Photographer Jolanda Keeble	Specimen ID: 2155	
	Growing on dead tuart wood in tuar		
HARA	Latitude: -32° 26' 3.25" Longitude:		
	Easting:385739 Northing: 6410780 Date: 27 Jun 2006	Zone: 50 opt Image PS59_153JK82	

Georeferenced Track and Photos

Date: 27 June 2006

Group: Mycologist Neale Bougher led the group of Roz Hart, Peter Davison, Kay Rae, Renee Miles (Rockingham Lakes Regional Operations Officer), Phylis Robertson and Anne Bellman.



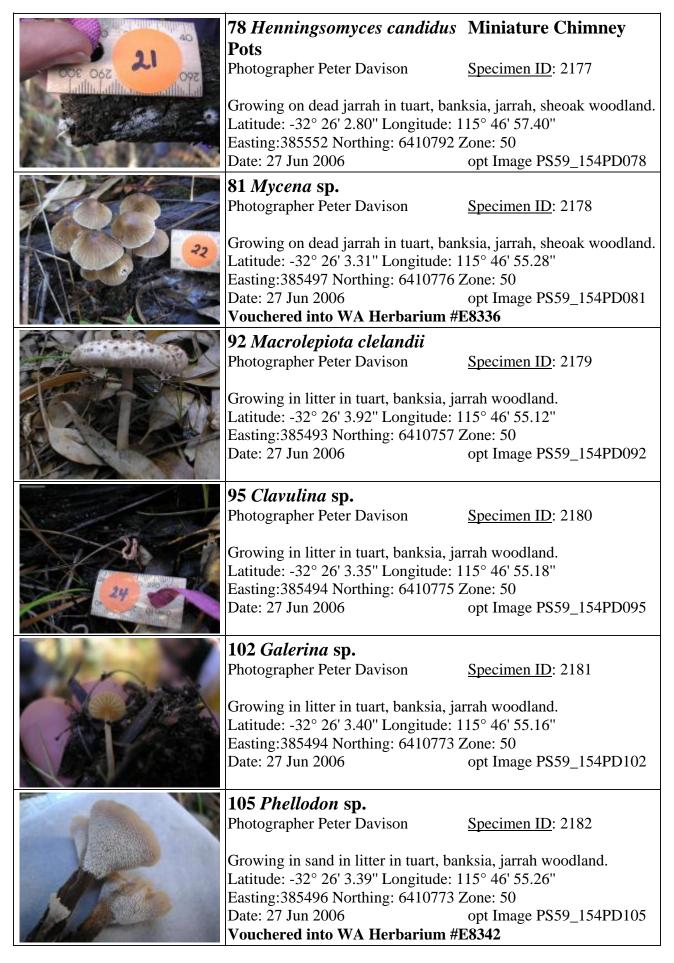
The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

	08 Armillaria luteobubalina Photographer Peter Davison	Australian Honey Fungus Specimen ID: 2157	
12 may	Growing on dead tuart in tuart woodland.		
A A A	Latitude: -32° 26' 3.78" Longitude:		
AVAT STATE OF THE OWNER	Easting: 385758 Northing: 6410764		
	Date: 27 Jun 2006	opt Image PS59_154PD008	
	11 Stereum hirsutum	Hairy Curtain Crust	
	11 <i>Stereum hirsutum</i> Photographer Peter Davison	Hairy Curtain Crust Specimen ID: 2158	
		Specimen ID: 2158	
	Photographer Peter Davison Growing on old rotting log in tuart	Specimen ID: 2158 woodland.	
	Photographer Peter Davison	<u>Specimen ID</u> : 2158 woodland. : 115° 47' 5.37"	
	Photographer Peter Davison Growing on old rotting log in tuart Latitude: -32° 26' 3.79" Longitude:	<u>Specimen ID</u> : 2158 woodland. : 115° 47' 5.37"	

	15 <i>Hexagonia vesparia</i> Photographer Peter Davison	Wasp Nest Polypore Specimen ID: 2159	
	Growing on old rotting log in tuart woodland. Latitude: -32° 26' 4.06'' Longitude: 115° 47' 5.05'' Easting:385752 Northing: 6410756 Zone: 50		
	Date: 27 Jun 2006	opt Image PS59_154PD015	
	17 <i>Polyporus badius</i> Photographer Peter Davison	Specimen ID: 2160	
- Pipe	Growing on old rotting log in tuart v Latitude: -32° 26' 4.95" Longitude: Easting:385749 Northing: 6410728	115° 47' 4.92"	
	Date: 27 Jun 2006	opt Image PS59_154PD017	
	19 <i>Gymnopilus</i> cf. <i>purpuratus</i> Photographer Peter Davison	Specimen ID: 2161	
Contraction of the second seco	Growing on dead paperbark log in tu Latitude: -32° 26' 5.32" Longitude: Easting:385755 Northing: 6410717 Date: 27 Jun 2006	115° 47' 5.16"	
	21 <i>Mycena clarkeana</i> Photographer Peter Davison	Clarke's Pixie Cap Specimen ID: 2162	
	Growing on dead melaleuca in tuart, melaleuca woodland. Latitude: -32° 26' 4.91" Longitude: 115° 47' 5.05" Easting:385753 Northing: 6410729 Zone: 50		
	Date: 27 Jun 2006	opt Image PS59_154PD021	
	26 Pycnoporus coccineus	Scarlet Bracket Fungus	
	Photographer Peter Davison	Specimen ID: 2163	
	Growing on dead melaleuca in tuart, melaleuca woodland. Latitude: -32° 26' 5.39" Longitude: 115° 47' 5.66"		
	Easting:385769 Northing: 6410715 Date: 27 Jun 2006	opt Image PS59_154PD026	
	27 <i>Galerina</i> sp. Photographer Peter Davison	Specimen ID: 2164	
	Growing on dead melaleuca in tuart, melaleuca woodland. Latitude: -32° 26' 5.29" Longitude: 115° 47' 5.46"		
~	Easting:385763 Northing: 6410718 Date: 27 Jun 2006	Zone: 50 opt Image PS59_154PD027	

	1	
	32 Exidia sp.	
	Photographer Peter Davison	Specimen ID: 2165
Constanting of the second second		
CONTRACTOR AND	Growing on dead melaleuca in tuart	
	Latitude: -32° 26' 5.64" Longitude: 115° 47' 5.75" Easting:385771 Northing: 6410707 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD032
and the second sec		
	36 Resupinatus sp.	
	Photographer Peter Davison	Specimen ID: 2166
		-
	Growing on dead melaleuca in tuart, melaleuca woodland. Latitude: -32° 26' 5.61" Longitude: 115° 47' 5.72" Easting:385770 Northing: 6410708 Zone: 50	
THE REAL PROPERTY		
A COMPANY		
	Date: 27 Jun 2006	opt Image PS59_154PD036
COMPANY OF A STATE		
	42 <i>Hypocrea</i> sp.	
and the second second	Photographer Peter Davison	Specimen ID: 2167
S CONTRACT DE	Growing on dead melaleuca in tuart	, melaleuca woodland.
	Latitude: -32° 26' 5.54" Longitude:	
	Easting: 385769 Northing: 6410710	Zone: 50
	Date: 27 Jun 2006	opt Image PS59_154PD042
and the second second second		
	45 <i>Mycena</i> sp.	
	Photographer Peter Davison	Specimen ID: 2168
The second second		
and the second s	Growing in litter in tuart, melaleuca	woodland.
CAR CONTRACT	Latitude: -32° 26' 5.98" Longitude:	115° 47' 5.52"
	Easting:385765 Northing: 6410697	Zone: 50
	Date: 27 Jun 2006	opt Image PS59_154PD045
	48 Phellinus sp.	
	Photographer Peter Davison	Specimen ID: 2169
	Growing on dead wood in tuart, me	laleuca woodland.
	Latitude: -32° 26' 5.90" Longitude: 115° 47' 5.51"	
	Easting: 385765 Northing: 6410699	
	Date: 27 Jun 2006	opt Image PS59_154PD048
Real and	51 Galerina sp.	
	Photographer Peter Davison	Specimen ID: 2170
	Growing on dead melaleuca in tuart, melaleuca woodland.	
	Latitude: -32° 26' 5.71" Longitude: 115° 47' 5.47"	
	Easting: 385764 Northing: 6410705 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD051
and the second sec		
0.4.1.1.1.1.		

	54 Gymnopilus aff. pampeanus	
T AS PAR	Photographer Peter Davison	Specimen ID: 2171
CAN VA CO	Growing on dead melaleuca in tuart, melaleuca woodland. Latitude: -32° 26' 5.57" Longitude: 115° 47' 4.79" Easting:385746 Northing: 6410709 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD054
	59 Mycena clarkeana	Clarke's Pixie Cap
	Photographer Peter Davison	Specimen ID: 2172
	Growing on dead melaleuca in tuart, melaleuca woodland. Latitude: -32° 26' 4.43" Longitude: 115° 47' 4.17"	
	Easting:385729 Northing: 64107442	
	Date: 27 Jun 2006 Vouchered into WA Herbarium #J	opt Image PS59_154PD059 F 8335
	67 Armillaria luteobubalina A	
	Photographer Peter Davison	Specimen ID: 2173
	Growing on dead melaleuca in tuart, Latitude: -32° 26' 4.02'' Longitude: 1	
	Easting:385729 Northing: 64107562	Zone: 50
P Para and	Date: 27 Jun 2006	opt Image PS59_154PD067
	Vouchered into WA Herbarium #E8337	
	72 Scleroderma cepa	G : ID 0174
A Carl and a second	Photographer Peter Davison	Specimen ID: 2174
A LE S DELT - LE S	Growing in sand in tuart, banksia woodland. Latitude: -32° 26' 2.33" Longitude: 115° 47' 2.15"	
	Easting:385676 Northing: 6410808 2	
	Date: 27 Jun 2006	opt Image PS59_154PD072
CORRECT ON CONTRACTOR	73 Undetermined Bolete (parasitised)	
	Photographer Peter Davison	Specimen ID: 2175
	Growing under leaf litter in tuart, hakea, melaleuca woodland. Latitude: -32° 26' 2.63" Longitude: 115° 46' 58.87" Easting:385590 Northing: 6410798 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD073
	77 Gymnopilus allantopus	Golden Wood Fungus
ALC CONTRACTOR		0
RC AN	Photographer Peter Davison	Specimen ID: 2176
and the second	Growing on banksia cone in Banksia grandis woodland.	
	Latitude: -32° 26' 2.80" Longitude: 115° 46' 57.47"	
	Easting:385554 Northing: 6410792 2	
V	Date: 27 Jun 2006	opt Image PS59_154PD077



	110 <i>Mycena</i> sp. Photographer Peter Davison	Specimen ID: 2183
	Growing on dead twig in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.36" Longitude: 115° 46' 54.96" Easting:385488 Northing: 6410774 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD110
	111 <i>Rhodocollybia</i> sp. Photographer Peter Davison	Specimen ID: 2184
28 5	Growing in sand in litter in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.45" Longitude: 115° 46' 54.99"	
OF THE REAL PROPERTY OF	Easting:385489 Northing: 6410771 Date: 27 Jun 2006	opt Image PS59_154PD111
265	113 <i>Rickenella fibula</i> Photographer Peter Davison	Orange Mosscap Specimen ID: 2185
27	Growing in moss in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.60" Longitude: 115° 46' 55.00" Easting:385490 Northing: 6410767 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD113
	117 <i>Mycena</i> sp. Photographer Peter Davison	Specimen ID: 2186
30 000	Growing in moss in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.69" Longitude: 115° 46' 54.97" Easting:385489 Northing: 6410764 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD117
	120 <i>Harknessia uromycoides</i> Photographer Peter Davison	Tuart Nut Fungus Specimen ID: 2187
	Growing on tuart nut in tuart, banksia, jarrah woodland. Latitude: -32° 26' 4.09" Longitude: 115° 46' 54.54" Easting:385478 Northing: 6410751 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD120
	121 Cortinarius sp.	G : ID 0100
ALL AND	Photographer Peter Davison	Specimen ID: 2188
n	Growing amongst dense leaf litter in tuart, banksia, jarrah woodland. Latitude: -32° 26' 4.07" Longitude: 115° 46' 54.20"	
A REAL PROPERTY		
	Easting:385469 Northing: 6410752 Date: 27 Jun 2006	Zone: 50 opt Image PS59_154PD121

	125 <i>Amanita</i> sp. Photographer Peter Davison	Specimen ID: 2189	
33	Growing amongst leaf litter in tuart, Latitude: -32° 26' 4.05" Longitude: Easting:385441 Northing: 6410752 Date: 27 Jun 2006	115° 46' 53.14"	
34	127 <i>Schizopora</i> sp. Photographer Peter Davison	Specimen ID: 2190	
	Growing on banksia cone in tuart, b Latitude: -32° 26' 4.11" Longitude: Easting:385439 Northing: 6410750 Date: 27 Jun 2006	115° 46' 53.07"	
Carlo a constant	132 Hypholoma australe		
W - mark	Photographer Peter Davison	Specimen ID: 2191	
	Growing amongst letter in tuart, banksia, jarrah woodland. Latitude: -32° 26' 4.11" Longitude: 115° 46' 52.71" Easting:385430 Northing: 6410750 Zone: 50		
1/ 19865022	Date: 27 Jun 2006	opt Image PS59_154PD132	
	139 Resupinatus cinerascens		
1 and the second	Photographer Peter Davison	Specimen ID: 2192	
00000	Growing inside jarrah bark in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.61" Longitude: 115° 46' 52.21" Easting:385417 Northing: 6410765 Zone: 50		
Not K	Date: 27 Jun 2006	opt Image PS59_154PD139	
	141 Calocera guepinioides	Scotsman's Beard	
	Photographer Peter Davison	Specimen ID: 2193	
31	Growing on dead banksia in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.44" Longitude: 115° 46' 52.54"		
	Easting:385425 Northing: 6410771 Date: 27 Jun 2006	Zone: 50 opt Image PS59 154PD141	
		opennage 1909_10 (1911)	
	144 Aleurodiscus sp.	Orange Aleurodiscus	
A STAND DOOR	Photographer Peter Davison	Specimen ID: 2194	
38	Growing on banksia cone in tuart, banksia, jarrah woodland. Latitude: -32° 26' 3.31" Longitude: 115° 46' 52.49"		
	Easting:385424 Northing: 6410775 Date: 27 Jun 2006		
	Vouchered into WA Herbarium #	opt Image PS59_154PD144 E8338	

	147 Coltricia cinnamomea	Tough Cinnamon
260	Fungus Photographer Peter Davison	Specimen ID: 2195
39	Growing on dead banksia wood in tuart, banksia, jarrah woodland Latitude: -32° 26' 2.31" Longitude: 115° 46' 52.29" Easting:385419 Northing: 6410806 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD147
	149 <i>Amanita preissii</i> cf. <i>robus</i> Photographer Peter Davison	sta Specimen ID: 2196
	Growing in litter in tuart, banksia, jarrah woodland. Latitude: -32° 26' 1.89" Longitude: 115° 46' 52.57" Easting:385426 Northing: 6410819 Zone: 50	
	Date: 27 Jun 2006	opt Image PS59_154PD149
	158 Boletus sp.	
	Photographer Peter Davison	Specimen ID: 2197
	Growing in litter in tuart, banksia, jarrah woodland. Latitude: -32° 26' 1.97" Longitude: 115° 46' 54.22"	
	Easting:385469 Northing: 6410817	
	Date: 27 Jun 2006 Vouchered into WA Herbarium #	opt Image PS59_154PD158 # E8339
	160 <i>Amanita xanthocephala</i> Amanita	Yellow Headed
	Photographer Peter Davison	Specimen ID: 2198
	arowing in sand in litter in tuart, banksia, jarrah woodland. atitude: -32° 26' 2.00" Longitude: 115° 46' 54.35" asting:385472 Northing: 6410816 Zone: 50	
CARLE MARCH	Date: 27 Jun 2006	opt Image PS59_154PD160
	163 Pisolithus sp.	Dog Poo Fungus
	Photographer Peter Davison	Specimen ID: 2199
	Growing in sand in tuart, banksia, jarrah woodland. Latitude: -32° 26' 1.80" Longitude: 115° 46' 56.38" Easting:385525 Northing: 6410823 Zone: 50	
1 KX5 DE	Date: 27 Jun 2006	opt Image PS59_154PD163