

Fungal Records for the Mangemangeroa Reserve March 2018

Background

In April 2015 a permit was granted by Auckland Council to allow small amounts of fungi to be collected for scientific purposes within the Mangemangeroa Reserve. All of the specimen material has been forwarded to Dr Jerry Cooper or other researchers at Landcare Research and will be lodged in the New Zealand Fungarium collection. All observations have been uploaded to <http://naturewatch.org.nz/projects/observations-of-fungi-in-the-mangemangeroa-reserve-howick>.

Statistics

Species list compiled by Dr Jerry Cooper, Landcare Research

- 189 different species have been observed so far.
- Included in the list are 18 'known-unknown species'. This means that they are undescribed species that are known about and which need to be published. Some of these have been given "tag names" where they have been confirmed by DNA sequencing and are known from more than one locality.
- 4 undescribed species are known only from the Mangemangeroa Reserve.

Where collections have been lodged in a national collection they may be re-examined and reassessed. The names of some species may change.

Species not previously recorded in New Zealand

Amongst the undescribed species are some which are known ONLY from the Mangemangeroa Reserve. These have been confirmed by DNA sequencing (but have not been given tag names because of the single location).

Mycenella sp. nov.



Tephrocybella sp. nov.



Limacella illinita aff. sp. nov.



Tricholosporum sp. nov.

This is an especially interesting collection. This genus has relatively few species globally, most tropical, and none otherwise known in Australasia or Oceania. Somewhat coincidentally after the Mangemangeroa species was identified some Chinese authors published a closely related (but not identical) species from southern Asia.



This brings the total undescribed species observed in the Mangemangeroa Reserve to 22. Dr Cooper commented that he is not aware of any other location in NZ (even his favourite haunts or those of others) that come close for the number of confirmed undescribed species. This excludes all the records for the genus *Pluteus* which have been collected comprehensively from this reserve but have yet to be curated. There is at least one undescribed species of *Pluteus* and probably more.

Notes on Interesting Collections

Of the described species two were really important records.

One is *Dermoloma murinum*.

This species was first observed in the Mangemangeroa Reserve in November 2016 and was the first record for this species since 1960. It has subsequently been found in other parts of Auckland. The specimen material for this was able to be sequenced and confirms its position within the Tricholomataceae as a southern hemisphere Gondwana genus. It is not related to the northern hemisphere grassland *Dermoloma* species.



The second is *Hygrophoropsis umbriceps*.

This rare species is a candidate for the national/international threat list under the category of Naturally Uncommon, although that status could go up after a review of the pressure on areas where it is found. For example what is the long term future of the Mangemangeroa Reserve?



Entoloma phaeomarginatum	
Favolaschia pustulosa	
Flammulina velutipes	
Fuligo septica	
Galerina marginata sl	
Geastrum sp.	
Geoglossaceae	
Gerronema sp. 'Howick (PDD105913)'	sp. nov.
Gerronema sp. 'Lake Rotoiti (PDD81522)'	sp. nov.
Gerronema sp. 'Pororari (PDD87079)'	sp. nov.
Gliophorus sp.	
Gliophorus chromolimoneus	
Gliophorus graminicolor	
Gliophorus sulfureus aff.	
Gliophorus viridis cf.	
Gliophorus viscaurantiis.	
Glomus macrocarpa cf.	
Gymnopilus purpuratus	
Gymnopus sp.	
Gymnopus dichrous	
Gymnopus subpruinosis?	
Heimiomyces velutipes	
Hemimycena sp.	
Hericium coralloides	
Hodophilus sp. 'Aongatete (PDD 106327)'	sp. nov.
Hohenbuehelia sp.	
Hohenbuehelia brunnea	
Hohenbuehelia luteola	
Humidicutis multicolor	
Hydropus sp.	
Hydropus sp. 'Kaituna Valley (PDD 86984)'	sp. nov.
Hygrocybe sp.	
Hygrocybe astatogala	
Hygrocybe fuscoaurantiaca	
Hygrocybe lilaceolamellata	
Hygrocybe striatolutea	
Hygrophoropsis umbriceps SS	critical collection
Hygrophorus involutus	
Hygrophorus salmonipes	
Hypholoma sp.	
Hypholoma acutum	
Hypocrea sulfurella	
Hypomyces papulasporae	
Ileodictyon cibarium	
Isaria sinclairii	

Laccaria sp. 'Milnethorpe'	sp. nov.
Lacrymaria asperospora	
Lactocollybia sp. 'Waitangi'	sp. nov.
Lentinellus pulvinulus	
Leucoagaricus sp.	
Leucoagaricus sp. 'Moanui' ?	sp. nov.
Leucoagaricus sp. 'Okuti valley'	sp. nov.
Leucocoprinus sp.	
Leucocoprinus cepistipes	
Limacella illinita aff. sp. nov.	sp. nov.
Lycogala epidendrum	
Lycoperdon perlatum	
Macrolepiota clelandii	
Macrotyphula defibulata	
Marasmiellus candidus	
Marasmius croceus	
Microglossum sp.	
Morchella sp.	
Mycena sp. 'Ahurri' ?	sp. nov.
Mycena austrofilopes	
Mycena clarkeana	
Mycena parsonsii	
Mycena vinacea	
Mycenella sp. nov.	sp. nov. critical collection
Oudemansiella australis	
Panus purpuratus	
Parasola conopilus	
Paurocotylis pila	
Peziza sp. 'Rotokuru Lakes (PDD80842)'	sp. nov.
Pezizomycetes	
Phlebopus marginatus NZ	sp. nov.
Pholiota subflammans	
Picipes sp.?	
Pleurotus australis	
Pleurotus parsonsiae	
Pleurotus pulmonarius?	
Pluteus sp.	
Pluteus cf. decoloratus	
Pluteus cf. hispidilacteus	
Pluteus microspermus	
Pluteus cf. minor	
Pluteus pauperculus	
Pluteus readiarum	
Pluteus similis	
Pluteus cf. thomsonii	
Pluteus velutinornatus	

Podoscypha petalodes	
Polyporaceae	
Polyporus sp.	
Polyporus sp.	
Polyporus sp.	
Polyporus sp. 'Kennedy's Bush'	sp. nov.?
Polyporus arcularius	
Postia sp.?	
Postia caesia (NZ)	
Psathyrella sp.?	
Psathyrella sp. 'Travis'?	
Psathyrella candolleana	
Pseudobaeospora cf.	
Pseudobaeospora sp. 'Kaihoka Lakes'	sp. nov. critical collection
Psilocybe weraroa	
Pycnoporus coccineus	
Ramariopsis sp.	
Ramariopsis depokensis?	
Ramariopsis pulchella	
Resupinatus sp. nov. 1	sp. nov.
Resupinatus subapplicatus	
Resupinatus vinosolidus	
Rhodocybe sp.	
Roridomyces austrororidus	
Schizophyllum commune	
Scutellinia sp.	
Scytinopogon pallescens	
Simocybe pruinata	
Stemonitis splendens	
Stereopsis hiscens	
Stropharia sp.?	
Stropharia sp. 'Kennedy's Bush (PDD79791)'	sp. nov.
Stropharia rugosoannulata?	
Tephrocybella sp. nov.	sp. nov. critical collection
Trametes sp.	
Tremellodendropsis sp.	
Trichia sp.	
Trichoglossum sp.	
Tricholosporum sp. nov.	sp. nov. critical collection
Tubaria rufofulva?	
Urnula campylospora	