

10TH NEW ZEALAND FUNGAL FORAY

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The 10th New Zealand Fungal Foray was held over the week beginning 6 May 1996, with collecting carried out over three days, 7-9 May, at various sites around the Hunua Ranges, south-east of Auckland. Twenty-four people, both amateur and professional, attended the foray. The professionals were from a number of research organisations from around the country and included Landcare Research, Forest Research Institute, the University of Canterbury and Lincoln University. We also had overseas visitors from the University of Melbourne and from Norway.

The group assembled at the Hunua Outdoor Pursuits Centre on Monday evening where Peter Johnston outlined the collecting options available over the next three days. This foray was to be more relaxed than previous forays with participants choosing walks and locations that best suited them. In this way a number of sites were explored.

Sites visited included:

- Waharau Regional Park and adjoining Hunua Ranges Water Supply Fringe Land with regenerating kanuka/manuka on the lower slopes and *Nothofagus* on the ridge top. Transportation to the ridge top was kindly provided by Alistair Douglas of the Auckland Regional Council.
- Tapapakanga Regional Park with small patches of regenerating and planted manuka/kanuka. The diversity of mycorrhizal fungi of these patches is being monitored by Peter Johnston, Landcare Research.
- The Mangatangi and Workman Tracks near the Mangatangi Reservoir provided access to regenerating kauri and to stands of *Nothofagus*.
- A number of tracks near the lodge, including Cossey's Track, Hunua Falls Track and around the Wairo Dam, were explored.

Weather conditions meant that collecting was not easy, with relatively few fungi being found at most sites visited. It was noticeable that the wetter, southern-facing slopes were generally more productive. The species found at each site visited during the foray are listed later in the *Newsletter*.

In the evenings a number of informal seminars were presented. Peter Buchanan (Herb. PDD) outlined the equipment needed and methods of collecting fungi. Geoff Ridley (Herb. NZFRI) presented slides of the varying methods employed by fungi to kill nematodes as a nutrient source. Catherine Elsworth (Uni. Melbourne) described her PhD studies on pigments derived from Australian mushrooms. Gillian Nicholas (Uni. Canterbury) presented some of her PhD studies into bioactive chemicals derived from fungi. Stephen Whitton (Uni. Hong Kong) outline his PhD project on the fungi occurring on Pandanaceae. Don Horne and Don Pittham presented a dazzling display of fungi to be found in the New Zealand bush and Per Marstad introduced the edible fungi of Norway.

Thursday saw the great majority scurrying for the hills to be out of shot of the team from 'Maggie's Garden Show'. Although a number of innocents were later caught on Cossey's track and forced to walk down the track 'foraying' for the camera. That afternoon Lawrie Taylor cooked up a mess of mushrooms for the show which the rest of us got to enjoy later.

The Grand Finale to the weeks events were the rounding up of a couple of dumped cockerels who had woken us each morning. The birds were trapped in one of the bunk rooms and wrestled to the ground by Diana Pittman. They are now residing in Te Puke with Lindsay Gibbons.

A new innovation this year was the 'Mycology Shop' organised by Peter Buchanan. This included our first foray tee shirts featuring a cartoon of *Agaricus campestris*. This illustration was from 'The Edible Mushrooms of New Zealand' poster produced by the *New Zealand Geographic* and who kindly allowed its reproduction.

Species List Compiled from the 10th New Zealand Fungal Foray Held in the Hunua Ranges, Auckland, 6–10 May 1996

Of the 113 species found during the foray, 76 were 'new' records for the Hunua Ranges. There is no published list of fungi for this area, however a list derived from the Herbarium PDD database was used to provide the best base-line data available on fungi known from the Ranges. A search of the database on the word 'hunua' in the locality field gave a list of 277 species from 412 records. The high proportion of new records illustrates the real lack of even the most basic data on the occurrence and distribution of indigenous fungi in New Zealand.

Voucher specimens are held at NZFRI (Mycological Herbarium, New Zealand Forest Research Institute, Rotorua) or PDD (Herbarium PDD, Landcare Research, Mt Albert, Auckland).

Cossey's Track

Agrocybe parasitica
Armillaria novae-zelandiae
Camarophyllus pratensis var. *gracilis*
 (= *Hygrophorus pratensis*)
Clitocybe sp. (NZFRI)
Descolea sp.
Entoloma peralbidum
Entoloma sp.
Favolaschia calocera (NZFRI)
Favolaschia pustulosa (NZFRI)
Humidicutis multicolor (= *Hygrocybe multicolor*)
Macrolepiota sp.
Mycena parsonsii
Nivatogastrium sp.
Pholiota adiposa
Pluteus sp.

Calvatia sp.
Clavaria sulcata
Hericium clathroides
Weraroa virescens

Aleuria rhenana
Beauveria bassiana on wasp
Cookeina colensoi
Cookeina sp.
Fasciatispora nypae on *Ripogonum scandens*
 (previously known only from palm fronds from
 tropical Asia)
Scutellinia sp.

Hunua Falls

Cantharellus sp. (NZFRI)
Gymnopilus sp. (NZFRI)
Hypholoma sp. (NZFRI)

Phellodon sp. (NZFRI)
Stereum fasciatum (NZFRI)

Mangatangi Track

Agaricus sp.
Amanita nothofagi
Amanita taiepa
Austroptoporus portentosus
Cantharellus brunneum

Clitocybe sp.
Cortinarius sp.
Entoloma hochstetteri
Entoloma porphyrescens
Entoloma spp. (× 2) (NZFRI)
Galerina patagonica
Gymnopilus sp.
Hebeloma victoriense
Inocybe sp.
Notholepiota areolata
Rozites pallida
Russula sp. (NZFRI)
Tricholomopsis rutilans (NZFRI)
Tylopilus formosus

Gautieria novae-zelandiae
Nidula sp.
Scleroderma sp.
 Repeater Valley
Bertrandia astatogala

Tapapakanga Park

under planted manuka
Scleroderma sp.
Laccaria spp. (× 2)
 hypogeous species, white, staining yellow
Cortinarius sp.

under 'natural' manuka

Amanita nehuta
Amanita nothofagi
Cortinarius sp.
Entoloma sp.
Hebeloma victoriense
Inocybe luteobulbosa var. *volvata*
Inocybe spp. (× 3)
Laccaria sp.
Russula acrolamellata
Russula sp.
 hypogeous species, small, staining reddish

Track near Wairoa Dam

Amanita australis
Amanita nehuta
Amanita nothofagi
Collybia sp.

Favolaschia calocera
Hypholoma sp.
Inocybe sp.
Laccaria sp.
Marasmiellus sp.
Psathyrella aff. *bipellis* (NZFRI)
Psilocybe aucklandii
Russula sp.
Tylopilus formosus

Waharau Nature Trail

Amanita nehuta (NZFRI)
Amanita nothofagi
Cantharellus brunneus (NZFRI)
Collybia spp.
Cortinarius sp.
Entoloma porphyrescens
Gliophorus versicolor or *viridis*
Hygrophorus sp.
Hypholoma fasciculare
Laccaria sp.
Russula acrolamellata (NZFRI)
Russula spp. (× 3) (NZFRI)

Clavaria sulcata (NZFRI)
Coltricia oblectans
Hyphoderma collosperma
Podoseyha petaloides
Postia brunnea (NZFRI)
Pycnoporus coccineus
Scleroderma sp. under kanuka

Mycogone sp. on agaric
Sepedonium chrysospermum on bolete

Waharau Ridge Track

Amanita australis (NZFRI)
Amanita pekeoides (NZFRI)
Amanita nothofagi (NZFRI)
Amanita taiepa
Armillaria limonea (NZFRI)
Conchomyces bursiformis
Cortinarius sp.
Entoloma sp.
Galerina pategonica (NZFRI)
Gymnopilus sp.
Hebeloma victoriense (NZFRI)
Hygrophorus chromolimoneus
Mycena subviscosa
Psathyrella sp. (NZFRI)
Psilocybe aucklandii (NZFRI)
Rozites australiensis
Russula sp. (NZFRI)
Tylopilus formosus (NZFRI)
Xerocomus sp. (NZFRI)

Bjerkandera adusta
Fomitopsis hemitephra

Ganoderma aff. *applanatum*
Gloeoporus dichrous
Phellinus sp.
Piptoporus sp.
Pseudohydnum gelatinosum
Pycnoporus coccineus

Arachnopeziza rhopalostylidis
Coccomyces cupressinum on *Dacrydium cupressinum*
Coccomyces globosus on *Nestegis lanceolata*
Coccomyces lauraceus on *Beilschmiedia tawa*
Coccomyces radiatus on *Knightia excelsa*
Hypoderma collospermi on *Collosporum hastatum*
Hypoxyton sp.
Lachnum filiceum on *Dicksonia squarrosa*
Plectania sp.
Proliferodiscus sp on *Dicksonia squarrosa*
Stictis lata on *Freycinetia baueriana* ssp. *banksii*
Stictis ramuligera on *Rhopalostylis sapida*
Torrendiella sp. 1 on *Rhopalostylis sapida*
Xylaria cf. *filiformes*

Workman Track, Mangatangi

Amanita australis
Amanita nehuta
Amanita nothofagi
Austroboletus novae-zelandiae
Cantharellus wellingtonensis
Cortinarius spp.
Entoloma hochstetteri (NZFRI)
Hygrocybe sp. (NZFRI)
Inocybe sp.
Lactarius umerensis
Lactarius spp.
Lepiota sp.
Mycena mamaku
Phaeomarasmius sp.
Russula spp.
Tylopilus formosus

Fomitopsis hemitephra
Ganoderma applanatum
Gautieria novae-zelandiae
Phellodon nothofagi
Phellodon sinclairii

Lachnum filiceum
Hymenoscyphus sp.
Hyphomyces aurantius on *Russula*
Hypoderma obtectum on *Nothofagus truncata*
Lanzia allantospora on *Agathis australis*
Lophodermium agathidis on *Agathis australis*
Plectania sp.
Torrendiella sp. 2 on *Coriaria arborea*