

BLUFF STREAM KAURI LOOP, WAITAWHETA VALLEY FIELD TRIP

Paul Cashmore

On Sunday 19 November 2003 approximately 15 RBS members, families and several DoC staff left the Franklin road end to walk to Bluff Stream Kauris in the Waitewheta Valley of the northern Kaimai-Mamaku Forest Park. There was a quick walk across the farmland to where the botanising started on the forest edge. The track immediately crossed the main Waitewheta River and then proceeded to climb up a spur. Initially the vegetation traversed was young early successional secondary vegetation typical of that occurring in the northern Kaimai and Coromandel Ranges on previously burnt and logged ridges and spurs. Species common here included tanekaha (*Phyllocladus trichomanoides* var. *trichomanoides*), manuka (*Leptospermum scoparium*) as well as two species of the exotic Australian hakea (*Hakea salicifolia* and *H. sericea*). Some debate was had about whether we were observing kamahi (*Weinmannia racemosa*) or towai (*Weinmannia silvicola* var. *silvicola*). Other plants of note in this area were Kirk's daisy (*Brachyglottis kirkii*), comb ferns (*Schizaea* spp.), and several orchid species as well as sundews (*Drosera peltata* subsp. *auriculata*) and the large leaved Hebe (*Hebe macrocarpa* var. *macrocarpa*). Moving further up the hill we moved into older forest which included a stand of rimu (*Dacrydium cupressinum*) and hard beech (*Nothofagus truncata*).

The remainder of the track to the Bluff Stream kauris traversed mature tawa-dominated forest. Several magnificent specimens of podocarps, mainly rimu were noted beside the track. The track passed several nikau (*Rhopalostylis sapida*) groves. Kohekohe (*Dysoxylum spectabile*) was also occasionally present in the canopy further up the hill.

About half way up the slope the track passed near two small wetland areas. The first was comprised of scattered pukatea (*Laurelia novae-zelandiae*) and kahikatea (*Dacrycarpus dacrydioides*) with an abundance of kiekie (*Freycinetia banksii*) in the understorey. Here Sarah Beadel discovered several saplings of swamp maire (*Syzygium maire*), right in front of the noses of several other botanists and DoC staff!!!. The second small wetland had more characteristic wetland vegetation (*Carex* spp., *Juncus* spp., *Eleocharis* spp., *Ranunculus* spp.)

around the margins with some open water in middle. Although too much water to botanise thoroughly a quite look from the edge confirmed with reasonable certainty that this wetland didn't have swamp maire.

Eventually the whole party meet up at the Bluff Stream Kauris for a late lunch. We then headed to view the recently discovered *Thismia rodwayi* site. Unfortunately we were disappointed. Despite the timing which should have been perfect none of the characteristic orange-red flowers were present at the two known sites. Some promising looking white "roots" were noted which may have been *Thismia* but it was difficult to tell without the flowers.

The party returned down the loop track to the Bluff Stream noting some magnificent northern rata (*Metrosideros robusta*) and associated bluffs across the valley. Stopping for a break in the Waitewheta streambed in the sun we then recrossed the river and joined the main Waitewheta valley track and begun returning to the roadend. With the track passing along underneath the bluffs the damp open habitat provided some excellent orchid habitat with several species noted included *Corybas oblongus*. Between the track and adjoining hills were noted small wetlands which had probably been originally artificially created by impoundment as a result of the construction of the tramline (now walking track) beside the river. Sarah Beadel, again noticing the presence of pukatea and kahikatea was quick to point out several more small swamp maire specimens, much to the surprise of others present. Not giving up yet she went on to find several large mature swamp maire trees growing in the paddock almost at the roadend!!!

In summary this was a well attended trip with a diverse group of people with some interesting botanical finds made in an easily accessible area which is little visited by Rotorua botanists. My thanks go to Sarah Beadel for compiling the following species list.

BLUFF STREAM KAURI LOOP - WAITAWHETA VALLEY
VASCULAR PLANT SPECIES LIST

Sarah Beadel

Compiled during a Rotorua Botanical Society field trip on 9 November 2003.

Indigenous Species

Gymnosperms

<i>Agathis australis</i>	kauri
<i>Dacrycarpus dacrydioides</i>	kahikatea
<i>Dacrydium cupressinum</i>	rimu
<i>Phyllocladus trichomanoides</i> var. <i>trichomanoides</i>	tanekaha
<i>Podocarpus hallii</i>	Hall's totara
<i>Podocarpus totara</i>	totara
<i>Prumnopitys ferruginea</i>	miro
<i>Prumnopitys taxifolia</i>	matai

Monocot. trees and shrubs

<i>Cordyline banksii</i>	ti ngahere, forest cabbage tree
<i>Phormium cookianum</i>	wharariki, mountain flax
<i>Rhopalostylis sapida</i>	nikau

Dicot. trees and shrubs

<i>Alseuosmia macrophylla</i>	toropapa
<i>Aristotelia serrata</i>	makomako, wineberry
<i>Beilschmiedia tawa</i>	tawa
<i>Brachyglottis kirkii</i>	
<i>Brachyglottis repanda</i> s.s.	rangiora
<i>Carmichaelia australis</i>	makaka, maukoro

<i>Carpodetus serratus</i>	putaputaweta
<i>Coprosma arborea</i>	tree coprosma, mamingi
<i>Coprosma grandifolia</i>	kanono
<i>Coprosma rhamnoides</i>	
<i>Coprosma robusta</i>	karamu
<i>Coriaria arborea</i> var. <i>arborea</i>	tutu
<i>Dracophyllum latifolium</i>	neinei
<i>Dysoxylum spectabile</i>	kohekohe
<i>Elaeocarpus dentatus</i> (incl. <i>E. d.</i> var. <i>obovatus</i>)	hinau
<i>Gaultheria antipoda</i>	tawiniwini
<i>Griselinia lucida</i>	puka
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko
<i>Hebe macrocarpa</i> var. <i>macrocarpa</i>	
<i>Hedycarya arborea</i>	porokaiwhiri
<i>Helichrysum lanceolatum</i>	niniao
<i>Hoheria populnea</i> var. <i>lanceolata</i>	houhere, lacebark
<i>Ixerba brexioides</i>	tawari
<i>Knightia excelsa</i>	rewarewa
<i>Kunzea ericoides</i> var. <i>ericoides</i>	kanuka
<i>Laurelia novae-zealandiae</i>	pukatea
<i>Leptecophylla juniperina</i> subsp. <i>juniperina</i>	prickly mingimingi
<i>Leptospermum scoparium</i>	manuka
<i>Leucopogon fasciculatus</i>	mingimingi
<i>Lophomyrtus bullata</i>	ramarama
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe
<i>Metrosideros robusta</i>	northern rata
<i>Mida salicifolia</i> (incl. <i>M. s.</i> var. <i>myrtifolia</i>)	mida
<i>Myrsine australis</i>	mapou
<i>Myrsine salicina</i>	toro
<i>Nestegis lanceolata</i>	white maire

<i>Nothofagus truncata</i>	hard beech, tawhai raunui
<i>Olearia furfuracea</i>	akepiro
<i>Olearia rani</i>	heketara
<i>Pittosporum cornifolium</i>	tawhirikao
<i>Pittosporum eugenioides</i>	tarata
<i>Pittosporum tenuifolium</i> subsp. <i>tenuifolium</i>	kohuhu
<i>Pseudopanax arboreus</i> var. <i>arboreus</i>	whauwhaupaku, five finger
<i>Pseudopanax crassifolius</i>	horoeka, lancewood
<i>Pseudopanax discolor</i>	
<i>Pseudopanax laetum</i>	
<i>Quintinia serrata</i> (incl. <i>Q. acutifolia</i> and <i>Q. elliptica</i>)	tawheowheo
<i>Rhabdodhammus solandri</i>	taurepo
<i>Schefflera digitata</i>	pate
<i>Solanum aviculare</i> var. <i>aviculare</i> (incl. <i>S. a.</i> var. <i>albiflorum</i> and <i>S. cheesemanii</i>)	poroporo
<i>Syzygium maire</i>	maire tawake, swamp maire
<i>Toronia toru</i>	toru
<i>Weinmannia racemosa</i>	kamahi
<i>Weinmannia silvicola</i> var. <i>silvicola</i>	towai

Monocot. lianes

<i>Freycinetia banksii</i>	kiekie
<i>Ripogonum scandens</i>	kareao, supplejack

Dicot. lianes

<i>Clematis paniculata</i>	puawananga
<i>Metrosideros diffusa</i>	rata
<i>Metrosideros fulgens</i>	rata
<i>Metrosideros perforata</i>	aka
<i>Parsonsia capsularis</i>	akakioire

<i>Passiflora tetrandra</i>	kohia
<i>Rubus cissoides</i>	tataramoa

Lycopods and psilopsids

<i>Huperzia varia</i>	Whiri-o-Raukatauri
<i>Lycopodium deuterodensum</i>	puakarimu
<i>Lycopodium volubile</i>	waewaekoukou
<i>Tmesipteris elongata</i>	
<i>Tmesipteris lanceolata</i>	
<i>Tmesipteris tannensis</i>	

Ferns

<i>Adiantum cunninghamii</i>	huruhuru tapairu
<i>Anarthropteris lanceolata</i>	
<i>Asplenium bulbiferum</i> s.s.	mouku
<i>Asplenium flaccidum</i> s.s.	makawe
<i>Asplenium lamprophyllum</i>	petako-paraharaha
<i>Asplenium oblongifolium</i>	huruhuruwhenua
<i>Asplenium polyodon</i>	petako
<i>Blechnum chambersii</i>	rereti
<i>Blechnum filiforme</i>	panako
<i>Blechnum fluviale</i> agg.	kiwikiwi
<i>Blechnum fraseri</i>	
<i>Blechnum novae-zelandiae</i> s.s.	kiokio
<i>Blechnum novae-zelandiae</i> (wetland form; <i>B. minus</i> of NZ authors)	swamp kiokio
<i>Crepidomanes venosum</i>	
<i>Ctenopteris heterophylla</i>	
<i>Cyathea dealbata</i>	ponga
<i>Cyathea medullaris</i>	mamaku

<i>Deparia petersenii</i>	
<i>Dicksonia squarrosa</i>	wheki
<i>Diplazium australe</i>	
<i>Doodia australis</i>	pukupuku
<i>Gleichenia microphylla</i>	waewaekaka
<i>Grammitis billardierei</i>	
<i>Grammitis ciliata</i>	
<i>Histiopteris incisa</i>	matata
<i>Hymenophyllum demissum</i>	irirangi
<i>Hymenophyllum dilatatum</i>	matua mauku
<i>Hymenophyllum ferrugineum</i>	mauku
<i>Hymenophyllum flabellatum</i>	mauku
<i>Hymenophyllum rarum</i>	mauku
<i>Hymenophyllum revolutum</i>	mauku
<i>Hymenophyllum sanguinolentum</i>	piripiri
<i>Hypolepis ambigua</i>	
<i>Lastreopsis glabella</i>	
<i>Lastreopsis hispida</i>	
<i>Leptopteris hymenophylloides</i>	heruheru
<i>Lindsaea linearis</i>	
<i>Lindsaea viridis</i>	
<i>Lygodium articulatum</i>	mangemange
<i>Microsorium pustulatum</i>	kowaowao (hounds tongue fern)
<i>Microsorium scandens</i>	mokimoki
<i>Paesia scaberula</i>	matata
<i>Pellaea rotundifolia</i>	tarawera (button fern)
<i>Pneumatopteris pennigera</i>	pakau
<i>Pteridium esculentum</i>	rarahi (bracken)
<i>Pyrrosia eleagnifolia</i>	leather-leaf fern
<i>Rumohra adiantiformis</i>	

Schizaea bifida

Schizaea dichotoma

Sticherus cunninghamii

waekura

Trichomanes elongatum

Trichomanes reniforme

Orchids

Acianthus sinclairii

Bulbophyllum pygmaeum

piripiri

Corybas acuminatus

Corybas 'Kaimai'

Corybas oblongus

Drymoanthus adversus

Earina autumnalis

raupeka

Earina mucronata s.s.

peka-a-waka

Microtis unifolia

maikaika

Pterostylis alobula

Pterostylis banksii

tutukiwi

Pterostylis agathicola

Thelymitra longifolia

maikuku

Winika cunninghamii

Grasses

Cortaderia fulvida

toetoe

Deyeuxia avenoides

Isachne globosa

swamp millet

Microlaena stipoides

Patiti

Oplismenus hirtellus subsp. *imbecillis*

Poa anceps subsp. *anceps*

Sedges

<i>Baumea rubiginosa</i>	
<i>Carex dissita</i>	
<i>Carex forsteri</i>	
<i>Carex geminata</i>	
<i>Carex maorica</i>	
<i>Carex secta</i>	purei
<i>Carex solandri</i>	
<i>Carex virgata</i>	purei
<i>Cyperus ustulatus</i>	toetoe upokotangata
<i>Eleocharis acuta</i>	
<i>Eleocharis gracilis</i>	
<i>Eleocharis sphacelata</i>	
<i>Gahnia pauciflora</i>	takahikahi
<i>Gahnia setifolia</i>	mapere
<i>Isolepis habra</i>	
<i>Isolepis reticularis</i>	
<i>Machaerina sinclairii</i>	tuhara
<i>Morelotia affinis</i>	
<i>Schoenus maschalinus</i>	
<i>Schoenus tendo</i>	wiwi
<i>Uncinia filiformis</i>	matau
<i>Uncinia uncinata</i>	kamu, matau a Maui
<i>Uncinia</i> sp.	

Rushes

<i>Juncus pallidus</i>	wi
<i>Juncus planifolius</i>	
<i>Juncus sarophorus</i>	wi

Luzula picta var. *picta*

Monocot. herbs (other than orchids, grasses, sedges and rushes)

Astelia solandri kowharawhara

Astelia trinervia mauri

Collospermum hastatum kahakaha

Collospermum microspermum

Dianella nigra turutu

Thismia rodwayi (P. Cashmore pers. comm.)

Typha orientalis raupo

Composite herbs

Anaphalioides trinervis puatea

Lagenifera pumila papataniwhaniwha

Pseudognaphalium luteoalbum agg. pukatea

Senecio minimus

Dicot. herbs (other than composites)

Callitriche stagnalis

Cardamine sp.

Drosera peltata subsp. *auriculata*

Elatostema rugosum parataniwha

Epilobium pedunculare

Epilobium rotundifolium

Gonocarpus incanus piripiri

Haloragis erecta subsp. *erecta* toatoa

Hydrocotyle dissecta

Hydrocotyle heteromeria

Nertera depressa

Nertera dichondrifolia

Oxalis sp.

<i>Parahebe catarractae</i>	
<i>Pratia angulata</i>	panakenake
<i>Ranunculus reflexus</i>	maruru
<i>Stellaria decipiens</i> (incl. <i>S. minuta</i> and <i>S. parviflora</i>)	kohukohu
<i>Wahlenbergia violacea</i>	

Adventive Species

Gymnosperms

<i>Pinus radiata</i>	radiata pine
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Dicot. trees and shrubs

<i>Dendrobenthamia capitata</i>	strawberry dogwood
<i>Erica caffra</i>	
<i>Erica lusitanica</i>	Spanish heath
<i>Hakea salicifolia</i>	willow-leaved hakea
<i>Hakea sericea</i>	prickly hakea
<i>Rubus</i> sp. (<i>R. fruticosus</i> agg.)	blackberry
<i>Ulex europaeus</i>	gorse

Grasses

<i>Aira caryophyllaea</i>	silvery hairy grass
<i>Anthoxanthum odoratum</i>	sweet vernal
<i>Avena barbata</i>	slender oat
<i>Cortaderia selloana</i>	pampas
<i>Dactylis glomerata</i>	cocksfoot
<i>Holcus lanatus</i>	Yorkshire fog
<i>Miscanthus nepalensis</i>	Himalaya fairy grass

Sedges

Cyperus eragrostis

Isolepis sepulcralis

Rushes

Juncus articulatus

Juncus microcephalus

Juncus tenuis track rush

Monocot. herbs (other than orchids, grasses, sedges and rushes)

Agapanthus praecox agapanthus

Composite herbs

Cirsium arvense California thistle

Conyza albida fleabane

Erigeron karvinskianus Mexican daisy

Gamochaeta spicata cudweed

Hypochoeris radicata catsear

Senecio bipinnatisectus Australian fireweed

Senecio jacobaea ragwort

Dicot. herbs (other than composites)

Fragaria vesca wild strawberry

Plantago australis swamp plantain

Plantago lanceolata narrow-leaved plantain

Plantago major broad-leaved plantain

Prunella vulgaris selfheal

Ranunculus flammula spearwort

Ranunculus repens creeping buttercup

Ranunculus scleratus celery-leaved buttercup

Stellaria media chickweed

Trifolium repens white clover

Verbena bonariensis

purple-top

Vicia sativa

vetch