

- Newhook, F.J.; Dickson, E. M.; Bennett K. J. 1971. A botanical survey of some offshore islands of the Coromandel Peninsula. *Tane* 17:97-117.
- Nicholls, J. L. 1971. *Ecological Survey of New Zealand's Indigenous Forests. Forest Service Mapping Series 6: 1:250 000. Sheet N. 3. Coromandel.* Forest Research Institute, Rotorua.
- Smith-Dodsworth, J. 1992. Additions to plant list in "Botanical features of islands near the west coast of the Coromandel Peninsula, New Zealand", Esler, A. E. 1978: NZ Journal of Botany (16)25-44. *Rotorua Botanical Society Newsletter* 26:19.
- Studholme, W.P.; Philipson, W. R. 1966. A comparison of the cambium in two woods with included phloem: *Heimerliodendron brunonianum* and *Avicennia resinifera*. *New Zealand Journal of Botany* 4:355-365.

Acknowledgements

Thanks to Tim Hooson (Lot 6), Sean Marsh (Lot 22) and Mike Sean (Lot 25) of the Mahakirau Forest Estate for access through their land to the Manaia Forest Sanctuary; to Tim and Jude Hooson for hospitality and assistance with maps and references; to Danny Hitchcock for guidance in the field and for assistance with access arrangements; to Dick McNair for guidance to "Tanenui"; to John Gaukrodger, Finn Buchanan and Jason Roxburgh (Thames), Rob Chappell (Coromandel) and Andrea Brandon (Hamilton) of DOC for advice and assistance; to Bruce Burns of Landcare Research, Hamilton, for his 1984 report on the flora of the Manaia Forest Sanctuary; to John Smith-Dodsworth for guidance on Motuoruhi and at Otama; to Oho Nicholls and other owners of Motuoruhi for permission for our group to land on and explore the island; to Ian James and family of Te Kouma Farm for access to their bush and for their fine company and guidance; to Daryl O'Keefe of Snapper Safaris for our transport to the islands; to Heini and Teresa Gujer of Te Kouma Harbour Farmstay for our accommodation; to Jessica Beever for checking the identity of the Otama Beach mosses; and to all members of our group for their contributions to transportation, meals and species records, and for their cheerful company and admirable perseverance in the field.

Field Trip: Mahurangi West Regional Park. 19/02/05

Maureen Young

The field trip to Mahurangi West Regional Park explored two bush clad headlands within the park. Due to the Te Muri River having to be crossed at low tide, the more southerly of these was explored first. This is the northern headland of the Puhoi River. The main canopy trees here are large specimens of tawaroa (*Beilschmiedia tawaroa*), and the dappled shade of the bush was a welcome relief from the blazing February sun. As usual, the presence of this species generated a great deal of discussion as to whether or not it is a good species. The consensus was that not all species have hard and fast boundaries. The later finding of a true tawa (*Beilschmiedia tawa*) made comparison possible. Other northern coastal species present were pohutukawa (*Metrosideros excelsa*), *Coprosma macrocarpa* subsp. *minor*, whau (*Entelea arborescens*), *Hebe macrocarpa* and *Olearia albida*. This latter species is only occasionally encountered, and of the two trees seen, one was very old and gnarled. Due to the heat, the intended picnic on Te Muri Beach was passed up in favour of lunch being eaten in the shade.

After lunch a considerably deeper river crossing was necessary. On the riverside dunes was a succulent adventive plant that caused much comment. This was

saltwort (*Salsola kali*), a species that was very familiar to our Canadian visitor, Randy Olson. It was disappointing to observe here the plantings of Tasmanian ngaio (*Myoporum insulare*). On a shady bank near the river was a good population of the fern, *Arthropteris tenella*, and also a few plants of the velvet fern (*Lastreopsis velutina*).

The second headland, named Cudlip Point, had robust plants of *Pteris comans* growing along the track to the viewpoint on the cliff top. Good populations of *P. macilenta*, *P. saxatilis* and *P. tremula* completed the quartet. The presence of a large titoki tree satisfied those who were wondering why none had been seen, and along the cliff top can be found a thicket of *Melicope ternata*. On the walk back to the cars John earned a chocolate fish by finding a flowering bush of *Solanum aviculare*. Some ended the day with a swim at Sullivans Bay.

Those present were:

Colleen Crampton, Gwenda Cruickshank, Brian Cumber, Frances Duff, Robyn Gardner-Gee, Leslie Haines, Naomi Lorimer, Alistair McArthur, John Millett, Randy Olsen (from Saskatchewan, Canada), Margaret Peart, Josh Salter, Alison Wesley, Mike Wilcox, Maureen Young (leader).

Species List

This list of vascular indigenous plants was compiled by Graeme Hambly and Maureen Young on 22 January 2005, with additions by ABS on 19 February 2005.

Ferns & Fern Allies

Adiantum cunninghamii
Adiantum fulvum
Adiantum hispidulum
Anarthropteris lanceolata
Arthropteris tenella
Asplenium flaccidum

Asplenium gracillimum
Asplenium oblongifolium
Asplenium polyodon
Blechnum chambersii
Blechnum filiforme
Blechnum membranaceum
Blechnum novae-zelandiae

Cyathea dealbata
Cyathea medullaris
Dicksonia squarrosa
Doodia australis
Huperzia varia
Hypolepis ambigua
Lastreopsis microsora

Lastreopsis velutina
Lygodium articulatum
Microsorium pustulatum
Microsorium scandens
Paesia scaberula
Pellaea rotundifolia
Pneumatopteris pennigera
Polystichum neozelandicum
Pteridium esculentum
Pteris comans
Pteris macilenta
Pteris saxatilis
Pteris tremula
Pyrrosia eleagnifolia
Tmesipteris elongata

Gymnosperms

Agathis australis
Dacrycarpus dacrydioides
Dacrydium cupressinum
Phyllocladus trichomanoides
Podocarpus totara
Prumnopitys ferruginea
Prumnopitys taxifolia

Dicotyledons

Alectryon excelsus
Avicennia marina
Beilschmiedia tarairi
Beilschmiedia tawa
Beilschmiedia tawaroa
Brachyglottis repanda
Calystegia sepium
Calystegia soldanella
Carmichaelia australis
Centella uniflora
Clematis paniculata
Coprosma arborea
Coprosma areolata
Coprosma macrocarpa subsp.
minor
Coprosma rhamnoides

Coprosma robusta
Corynocarpus laevigatus
Dichondra repens
Dodonaea viscosa
Dysoxylum spectabile
Entelea arborescens
Geniostoma ligustrifolium
Geranium homeanum
Haloragis erecta
Hebe macrocarpa
Hedycarya arborea
Hoheria populnea
Knightia excelsa
Kunzea ericoides
Leptospermum scoparium
Leucopogon fasciculatus
Lobelia anceps
Macropiper excelsa
Melicope ternata
Melicytus ramiflorus
Metrosideros excelsa
Metrosideros perforata
Muehlenbeckia australis
Muehlenbeckia complexa
Myoporum laetum
Myrsine australis
Nestegis lanceolata
Olearia albida
Olearia furfuracea
Parsonsia heterophylla
Peperomia urvilleana
Pittosporum crassifolium
Plagianthus divaricatus
Pseudopanax arboreus
Pseudopanax crassifolius
Pseudopanax lessonii
Pseudopanax crassifolius x lessonii
Rhabdothamnus solandri
Rubus cissoides
Solanum aviculare
Sophora microphylla
Streblus heterophyllus

Vitex lucens

Monocotyledons

Apodasmia similis
Astelia banksii
Austrostipa stipoides
Bolboschoenus medianus
Bulbophyllum pygmaeum
Carex flagellifera
Carex lambertiana
Carex ochrosaccus
Carex testacea
Carex virgata
Collospermum hastatum
Cordyline australis
Cordyline pumilio
Cyperus ustulatus
Desmoschoenus spiralis
Dianella nigra
Drymoanthus adversus
Earina autumnalis
Earina mucronata
Eleocharis acuta
Ficinia nodosa
Freycinetia banksii
Gahnia lacera
Gahnia xanthocarpa
Isolepis reticularis
Juncus australis
Microlaena stipoides
Oplismenus hirtellus subsp.
imbecillis
Phormium tenax
Poa anceps
Rhopalostylis sapida
Ripogonum scandens
Spinifex sericeus
Uncinia uncinata
Winika cunninghamii

Field Trip: Bombing Range, Waionui Inlet, Kaipara South Head. 19/03/05

Ewen K. Cameron

The primary purpose of this monthly Auckland Bot Soc (ABS) field trip (19 March 2005) was to survey the oioi (*Apodasmia similis*) dominated dune slacks, west of the Waionui Inlet at Kaipara South Head (Fig. 1), for the environmental weed, royal fern (*Osmunda regalis*). Department of Conservation (DOC) staff joined the trip to help search and to spray any royal fern found. Royal fern was first found in the area in the summer of 2002-03, and since then c.80 plants have been located. The area is Crown Land within the Papakanui Conservation Area, now called the Papakanui

Conservation Area, managed by DOC and it is used as a weapons training area by the NZ Defence Department.

Present on the trip were: Enid & Paul Asquith, Jonathan Boow (leader), Ewen Cameron, Geoff Davidson, Frances Duff, Peter Hutton, Elaine Marshall, Josh Salter, Fran Hintz; and from DOC: Phil Brown, David Wilson, George Wilson and volunteer Duncan Innes.