

*? <u>Hymenostomum patulum</u> (Knight) Dix.	58-41
<u>Hypnum cupressiforme</u> Hedw.	58-50a
<u>Philonotis tenuis</u> (Tayl.) Reichdt.	58-34b
* <u>Rhynchostegium tenuifolium</u> (Hedw.) Reichdt.	58-43
* <u>Sematophyllum amoenum</u> (Hedw.) Mitt.	58-39
<u>Trichostomiopsis australasiae</u> Card.	58-34c

\* indicates that capsules were seen

#### ACKNOWLEDGEMENT

I thank Anthony Wright for his skilled work as bosun (Heinemann NZ Dictionary: 'a seaman in charge of a ship's rigging, boats and anchors').

#### REFERENCES

- Cameron, E.K. and Beard, C.M. 1990. Moturemu Island - Kaipara Harbour. Auckland Botanical Society Journal 45(1): 5-8.
- Esler, A.E. (in prep) in Clunie, N.M.U. and Esler, A.E. 'The Rodney-Otamatea Area of southern Northland Scenic and Scientific Reserves'. Dept. of Conservation Biological Survey of Reserves Series.
- Wright, A.E. 1991. Moturemu Island revisited. Auckland Botanical Society Journal 46(1): 9.

### Field trip report : Brynderwyn Hills, Mangawhai

Sandra Jones

Twenty-six members ignored the threatening skies and were rewarded with and **almost** rainless day. We were welcomed to the Mangawhai Forest Preservation Company's block in the Brynderwyn Hills by Pat and John Morton who had kindly invited us to explore the 1,000 acre property which was purchased 3 years ago and is now owned by a company of 16 shareholders. Each has the right to build a house on a designated plot within 100 acres of former farmland. The whole property is protected by a Queen Elizabeth II National Trust covenant.

An initial list of 135 species had been compiled by the Mortons and the Jones, but there were some surprising omissions. Incentives were offered, in the form of chocolate fish, to anyone who could find Bulbophyllum, five-finger (Pseudopanax arboreus), kowhai (Sophora microphylla), and a Pittosporum or a Hebe of any kind. In the event, Bulbophyllum pygmaeum, Pseudopanax arboreus and Pittosporum eugenioides were discovered, but it wasn't until the next day that Pat Morton found Hebe stricta and Pittosporum tenuifolium. Kowhai has remained elusive. At the end of the day, the species list had grown by one-third, to 180.

We spent some time in a magic patch of regenerating bush (kauri, rimu, kahikatea, tanekaha, Mida, Coprosma arborea) near the entry gate. We had barely started exploring when Maureen Young identified Corybas unguiculatus. There was lots of it, some in flower, some still in bud. Maureen and Frank Hudson had found this species a few years ago at Woodcocks Reserve near Warkworth, but it was not known elsewhere in the area, so this was quite a find. ["Unguiculatus" means "fingernail",

referring to the shape of the hood. There is an excellent photograph in Wilson and Given "Threatened Plants of New Zealand". C. unguiculatus is also recognised as an Australian species, but Doug McCrae believes that the N.Z. and Australian plants are not the same species. As the N.Z. form is known only from "a few sites between Kaimaumu and Warkworth" its status is "endangered".] In this healthy patch of bush we found 7 species of ground orchid in flower. An unusual find was a small patch of Pterostylis trullifolia, each flower with strong red streaks along the dorsal sepal. Patches of ordinary green P. trullifolia grew nearby. It was finally agreed that the Alseuosmia seedlings were A. x quercifolia, which is the name given by R.O. Gardner (N.Z. Jnl. Bot. 1978) to "(all) members of the A. banksii x macrophylla group". On a previous occasion Maureen had recorded A. banksii from Hastie's bush, a little further to the east, but we saw no sign of either species. Later in the day a shrub of Alseuosmia was found with one flower. Tmesipteris elongata, T. lanceolata and T. sigmatifolia were all found here, with T. tannensis recorded in the bush above the main stream.

We climbed the hill to a grassy area above the Morton's cottage where we could eat our lunch overlooking the bush in the valley and on the hills behind. The group stayed together for a while along the shallow creek as far as a small waterfall. The main items of botanical interest along the stream were Adiantum diaphanum and Clematis cunninghamii (syn parviflora). The leaves of the latter species appear to be most commonly entire; the ones we found were mostly lobed.

The party then split up. Six opted for an easy walk along an old 4wd track (rapidly becoming overgrown) which follows the valley floor for some distance, as far as a grove of four large rata (Metrosideros robusta) and numerous matai (Prumnopitys taxifolia). This area has been heavily grazed but since the livestock were removed, seedling shrubs, mainly Coprosma rhamnoides, C. areolata and Carpodetus serratus and nikau, have sprung up forming a miniature knee-high forest of their own. Pig rooting continues to cause some damage though. The only matai seedlings we could find were a few protected by the root mass of a large rata. No doubt many more will appear as the understorey recovers.

The main party decided to head for the hills. From the waterfall, we climbed straight up a long spur until we reached the old farm track which runs along the crest of the main ridge. We then followed the next spur down, keeping to the valley slope, slithering and sliding most of the way, to emerge, very cleverly, we thought, immediately below Morton's house. Trichomanes endlicherianum and Dracophyllum latifolium were the botanical highlights of this valley.

Postscript: Next day, Pat and John Morton, accompanied by a pied tit for part of the way, explored the ridge track for some distance and added the following species to the list: Toronia toru, Pittosporum tenuifolium, Hebe stricta, Gahnia xanthocarpa, Lophomyrtus bullata.

## GYMNOSPERMS

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

## FERNS & FERN ALLIES

?*Adiantum cunninghamii*  
*Adiantum diaphanum*  
*Adiantum hispidulum*  
*Anarthropteris lanceolata*  
*Asplenium bulbiferum*  
*Asplenium flaccidum*  
*Asplenium oblongifolium*  
*Asplenium polyodon*  
*Blechnum capense* agg. "black spot"  
*Blechnum chambersii*  
*Blechnum discolor*  
*Blechnum filiforme*  
*Blechnum fluviatile*  
*Blechnum fraseri*  
*Blechnum membranaceum*  
*Cyathea dealbata*  
*Cyathea medullaris*  
*Deparia petersenii* ssp. *congrua*  
*Dicksonia squarrosa*  
*Doodia media* ssp. *australis*  
*Gleichenia dicarpa*  
*Grammitis ciliata*  
*Histiopteris incisa*  
*Hymenophyllum demissum*  
*Hymenophyllum dilatatum*  
*Hymenophyllum flabellatum*  
*Hymenophyllum revolutum*  
*Hymenophyllum sanguinolentum*  
*Lastreopsis glabella*  
*Lastreopsis hispida*  
*Leptopteris hymenophylloides*  
*Lindsaea trichomanoides*  
*Lycopodium cernuum*  
*Lycopodium varium*  
*Lycopodium volubile*  
*Lygodium articulatum*  
*Paesia scaberula*  
*Phymatosorus diversifolius*  
*Phymatosorus scandens*  
*Pneumatopteris pennigera*  
*Pteridium esculentum*  
*Pteris pendula*  
*Pteris tremula*  
*Pyrrosia eleagnifolia*  
*Tmesipteris elongata* subsp. *elongata*  
*Tmesipteris lanceolata*  
*Tmesipteris signatifolia*

*Tmesipteris tannensis*  
*Trichomanes elongatum*  
*Trichomanes endlicherianum*  
*Trichomanes reniforme*

## GRASSES

*Isachne globosa*  
*Microlaena avenacea*  
*Oplismenus imbecillis*  
*Rytidosperma gracile*

## ORCHIDS

*Acianthus sinclairii*  
*Bulbophyllum pygmaeum*  
*Corybas cheesemanii*  
*Corybas trilobus*  
*Corybas* aff. *unguiculatus*  
*Drymoanthus adversus*  
*Earina autumnalis*  
*Earina mucronata*  
*Microtis unifolia*  
*Orthoceras novae-zeelandiae*  
*Pterostylis alobula*  
*Pterostylis rubricaulis*  
*Pterostylis trullifolia*  
*Thelymitra longifolia*

## DICOTYLEDONS

*Acaena novae-zelandiae*  
*Alseuosmia quercifolia*  
*Aristotelia serrata*  
*Beilschmiedia tarairi*  
*Beilschmiedia tawa*  
*Brachyglottis repanda*  
*Callitriche muelleri*  
*Calystegia sepium*  
*Carmichaelia aligera*  
*Carpodetus serratus*  
*Centella uniflora*  
*Clematis cunninghamii*  
*Clematis paniculata*  
*Coprosma arborea*  
*Coprosma areolata*  
*Coprosma grandifolia*  
*Coprosma rhamnoides*  
*Coprosma robusta*  
*Coprosma spathulata*  
*Corynocarpus laevigatus*  
*Cyathodes juniperina*  
*Dichondra repens*  
*Dracophyllum latifolium*  
*Drosera peltata* ssp. *auriculata*  
*Dysoxylum spectabile*  
*Elaeocarpus dentatus*  
*Elatostema rugosum*  
*Epilobium* sp. (1)  
*Epilobium* sp. (2)  
*Fuchsia excorticata*

*Geniostoma rupestre* var *ligustrifolium*  
*Geranium homeanum*  
*Gnaphalium limosum*  
*Gnaphalium gymnocephalum*  
*Gonocarpus incanus*  
*Griselinia lucida*  
*Haloragis erecta*  
*Hebe stricta* var *stricta*  
*Hedycarya arborea*  
*Hoheria populnea*  
*Hydrocotyle novae-zeelandiae*  
*Knightia excelsa*  
*Kunzea ericoides*  
*Laurelia novae-zeelandiae*  
*Leptospermum scoparium*  
*Leucopogon fasciculatus*  
*Lobelia anceps*  
*Lophomyrtus bullata*  
*Macropiper excelsum*  
*Meliccytus macrophyllus*  
*Meliccytus ramiflorus*  
*Metrosideros diffusa*  
*Metrosideros fulgens*  
*Metrosideros perforata*  
*Metrosideros robusta*  
*Mida salicifolia*  
*Muehlenbeckia australis*  
*Myrsine australis*  
*Nertera depressa*  
*Nertera dichondrifolia*  
*Nestegis lanceolata*  
*Olearia furfuracea*  
*Olearia rani*  
*Parsonsia heterophylla*  
*Pittosporum eugenioides*  
*Pittosporum tenuifolium*  
*Pomaderris kumeraho*

*Pomaderris phyllicifolia* var *ericifolia*  
*Pseudopanax arboreus* var *arboreus*  
*Pseudopanax crassifolius*  
*Ranunculus reflexus*  
*Rhabdothamnus solandri*  
*Rubus australis*  
*Rubus cissoides*  
*Schefflera digitata*  
*Senecio hispidulus*  
*Senecio minimus*  
*Solanum aviculare*  
*Toronia toru*  
*Vitex lucens*  
*Wahlenbergia gracilis*  
*Weinmannia silvicola*

MONOCOTS excl. grasses & orchids

*Astelia solandri*  
*Carex ? dissita*  
*Carex virgata*  
*Collospermum hastatum*  
*Cordyline australis*  
*Cordyline banksii*  
*Cordyline pumilio*  
*Dianella nigra*  
*Eleocharis gracilis*  
*Freycinetia baueriana* subsp. *banksii*  
*Gahnia setifolia*  
*Gahnia xanthocarpa*  
*Isolepis inundata*  
*Juncus planifolius*  
*Lepidosperma laterale*  
*Rhopalostylis sapida*  
*Ripogonum scandens*  
*Schoenus maschalinus*  
*Schoenus tendo*  
*Uncinia banksii*  
*Uncinia uncinata*

Orchid update

E.D. Hatch

In Lindleyana 4:(3) 1989 p. 138, Jones and Clements transfer the pygmy prasophylls to Genoplesium R. Br. Only 2 NZ species are affected -

Genoplesium nudum (J. D. Hook.) D. Jones & M. Clements p. 144  
 syn. Prasophyllum nudum J. D. Hook.

Genoplesium pumilum (J. D. Hook.) D. Jones & M. Clements p.144  
 syn. Prasophyllum pumilum J. D. Hook.