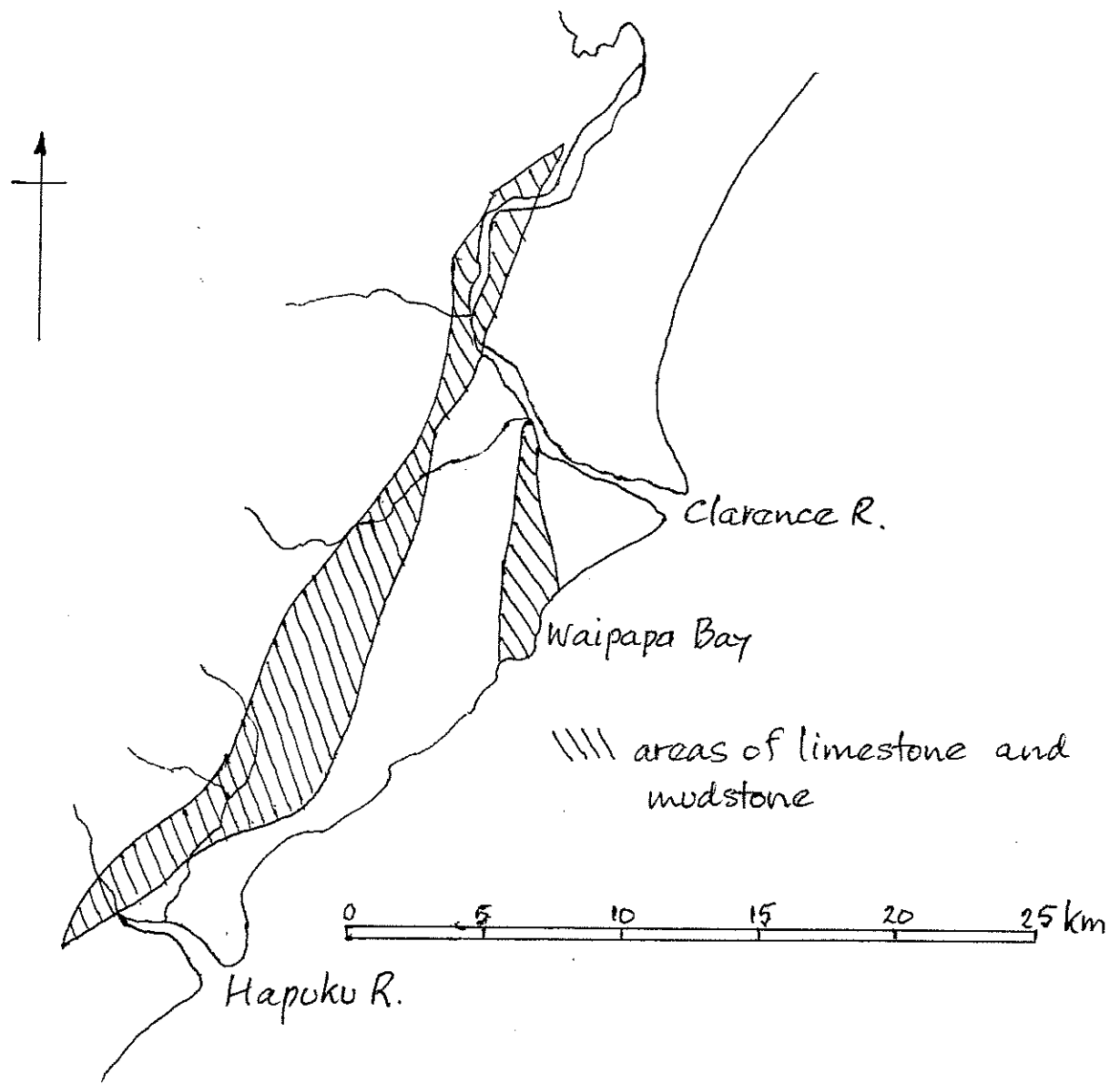


INDIGENOUS HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) IN AREAS OF TERTIARY AND UPPER CRETACEOUS LIMESTONE AND MUDSTONE ROCKS BETWEEN CLARENCE R. AND HAPUKU R., SOUTHERN MARLBOROUGH, INCLUDING BLUE DUCK SCIENTIFIC RESERVE AND PUHIPUHI SCENIC RESERVE, SEA-LEVEL TO 1197 M

Highest point: Mt Alexander, 1197 m (grid ref. NZMS 260, P 31 747899)

A.P. Druce, Wellington, Sept. 1986
(revised Oct. 1986, Aug. 1987, June 1988, Sept. 1990, March 1992, Nov. 1992, April 1993)

(Based on visits July 1986, April 1988, Nov 1991, April 1993)



(unc) - uncommon or local

GYMNOSPERM TREES

- Dactyloctenium aegyptium*
- Dactyloctenium aegyptium*
- Podocarpus hallii*
- P. totara* s.s.
- Prumnopitys ferruginea* (unc)
- P. taxifolia*

MONOCOT TREES AND SHRUBS

- Cordyline australis*
- C. banksii*
- Rhopalostylis sapida* (unc)

DICOT TREES

- Alseodaphne excelsa* var. *excelsa*
- Aristotelia serrata*
- Beilschmiedia tawa*
- Carpodetus serratus*
- Corynocarpus laevigatus*
- Dodonaea viscosa* var.
- Elaeocarpus dentatus* (incl.

- E.d.* var. *obovatus*)
- E. hookerianus* (unc)
- Fuchsia excorticata*
- Griselinia littoralis*
- Hedycarya arborea*
- Hoheria angustifolia*
- H. lyallii* var. *lyallii*

- Lophomyrtus obcordata*
- Macropiper excelsum* var. *excelsum*
- Melicope ramiflorus* ssp. *ramiflorus*
- Myoporum laetum* var. *laetum*

- Myrsine australis*
- Nestegis cunninghamii* (unc)

- Nothofagus solandri* var. *solandri*

- Olearia paniculata*
- Pennantia corymbosa*

- Pittosporum eugenioides*
- P. tenuifolium* ssp. *tenuifolium*

- Plagianthus regius* var. *regius*
- Pseudopanax arboreus* var. *arboreus*

- P. crassifolius*
- P. ferox* (unc)

- Schefflera digitata*
- Sophora microphylla*
- Streblus heterophyllus*

DICOT SHRUBS

- Aristotelia frutescens* var. (unc)
- Brachyglottis montroi* var. *montroi*

- Carmichaelia montroi*
- C. sp.* (subgenus *Carmichaelia*)
- Cassinia leptophylla*

- C. sp.* (unnamed) (lvs larger than in *C. vauvilliersii*)

- C. leptophylla* x *C. sp.* (unnamed)
- Chordospartium stevensonii* (unc)

Coprosma areolata
C. crassifolia
C. grandifolia
C. lucida s.s.
C. propinqua ssp. *propinqua*
C. thamnoides
 (incl. *C. polymorpha*)
C. robusta
C. rotundifolia
C. tubra (unc)
C. propinqua X *C. robusta*
Coriaria arborea
C. sarmentosa
Corokia cotoneaster var. *cot.*
Discaria toumatou
Fuchsia excorticata X *F. perscandens* (unc)
Griselinia lucida
Hebe decumbens (unc)
H. hulkeana
H. salicifolia var. *salicifolia*
H. stricta var. *atkinsonii*
H. traversii
H. sp. (*Veronica squalida*) (unc)
Helichtysum aggregatum var. *aggregatum*
H. intermedium var. (Mt Alex-
 ander) (unc)
Ileostylus micranthus
Korthisella lindsayi (unc)
Kunzea ericoides agg.
Leptospermum scoparium
Leucopogon fasciculatus var.
 (juvenile lvs not much
 wider than adult lvs)

Melicope simplex
Melicytus alpinus s.s.
Neomyrtus pedunculata (unc)
Notospartium carmichaeliae (incl.
N. glabrescens) (unc)
Olearia conacea (unc)
Pachystegia insignis s.l.
Pimelea aridula var. (unc)
P. oreophila
Pseudopanax anomalus (unc)
Pseudowintera axillaris (Will-
 iams 1982)
P. colorata
Solanum aviculare var. *avicu-
 lare* (unc)
Sophora prostrata
S. microphylla X *S. prostrata* (unc)
Teuclidium parvifolium (incl.
T. p. var. luxurians)
Urtica ferox

MONOCOT LIANES

Ripogonum scandens

DICOT LIANES AND RELATED

TRAILING PLANTS

Calystegia soldanella
C. tugatorum
Clematis afoliata
C. foetida
C. forsteri
C. paniculata (unc)
Fuchsia perscandens (unc)
Metrosideros colensoi (incl. *M. c. var.
 pendens*)
M. diffusa
M. perforata

- Muehlenbeckia australis*
M. axillaris (unc)
M. complexa
M. ephedroides (unc) (Williams 1982)
Parsonsia capsularis
P. heterophylla
P. capsularis X *P. heterophylla* (unc)
Passiflora tetrandra (unc)
Rubus cissoides var. ("form c" of Allan 1961; leaflets broader than in var. *cissoides*)
R. schmideloides (Williams 1982)
R. squarrosus
R. cissoides X *R. squarrosus* (unc)

PSILOPSIDS AND LYCOPODS

- Tmesipteris elongata* (incl. *T. e. ssp. robusta*) (unc)
Lycopodium scariosum (unc)
L. varium (incl. *L. billardierei* and *L. novae-zelandicum*) (unc)
L. volubile
- A. sp.* (unnamed; aff. *A. trichomanes*)
Blechnum chambersii
B. colensoi (unc)
B. discolor
B. fluviatile agg.
B. vulcanicum
B. sp. (i) (unnamed) (common lowland sp.; lower pinnae reduced in length)
B. sp. (ii) (unnamed) (cliff sp.; lower pinnae not reduced) ("The Green Bay Species" of Crotches 1963)
Chailanthes distans (unc)
Cyathea dealbata
C. medullaris
C. smithii
Dicksonia squarrosa
Grammitis patagonica
Histiopteris incisa (Williams 1982)
Hymenophyllum demissum
H. sanguinolentum (Williams 1982)
Hypolepis ambigua

FERNS

- Adiantum cunninghamii*
Asplenium colensoi (unc)
A. flabellifolium agg.
A. flaccidum
A. gracillimum
A. hookerianum
A. lyallii
A. oblongifolium
A. terrestre ssp. *terrestre*
Azolla filiculoides (unc)
- Lastreopsis glabella*
L. hispida
L. velutina
Leptopteris hymenophylloides
Paesia scaberula
Pellaea calidiropticum (unc)
P. retundifolia
Pleurosorus tutifolius (unc)
Phymatosorus pustulatus
Pneumatopteris pennigera
Polystichum richardii
P. vestitum

Pteridium esculentum
Pteris tremula (unc)
Pyrrhosia deagnifolia
Trichomanes venosum (unc)

ORCHIDS

Corybas macranthus
Drymoanthus adversus (unc)
Etainia autumnalis (unc)
E. mucronata s.s.
Microtis unifolia

GRASSES

Anemantlele lessoniana (unc)
Chionochloa sp. (unnamed) (*C. flavescens* auct. s.l., non *C. f. Zotov*)
Cortaderia fulvida
C. richardii
Dichelaetone cincta
Echinopogon ovatus (unc)
Elymus multiflorus (unc)
E. sp. (i) (unnamed; aff. *E. rectisetus*) (lvs flat to channelled)
E. sp. (ii) (unnamed) (lvs setaceous)
Festuca multinodis (unc)
Microlaena avenacea
Poa acicularifolia ssp. *acicularifolia* (Mt Alexander)
P. cita
P. colensoi
Rytidosperma buchananii
R. setifolium
R. unarede

Trisetum sp. (unnamed; aff. *T. antarcticum*) (plants robust; lf blade flat, upto 7mm wide, margins scabrid)

SEDGES

Carex breviculmis
C. flagellifera
C. forsteri
C. maotica (unc)
C. secta s.s. (unc)
C. selandri
C. virgata
Gahnia pauciflora (unc)
Uncinia ferruginea (unc)
U. laxiflora
U. leptostachya
U. scabra
U. uncinata

RUSHES

Juncus australis
J. gregiflorus
J. sarophorus

MONOCOT HERBS OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES

Arthropodium candidum
Astelia fragrans
Bulbinella hookeri
CollospERMUM hastatum
C. microspermum (unc)
Dianella nigra (unc)
Libertia ixioides (unc)
Phormium cookianum
Typha orientalis

COMPOSITE HERBS

- Anaphalis* sp. (*Helichrysum bellidioides* s.s.)
Brachyglottis lagopus var. *lagopus*
Brachyscome sinclairii
Celmisia montoi var. *montoi*
Craspedia minor var. *minor* (incl. *C. major*) (unc)
C. sp. (unnamed) (Mt Alexander) (unc)
Gnaphalium audax
G. gymnocephalum
G. traversii (Mt Alexander)
Lagenifera pumila
Leptinella pusilla
L. pyraethifolia agg. (Mt Alexander)
Pseudognaphalium sp. (unnamed; aff. *P. luteocalbum*)

Raoulia apicinigrass (Mt Alexander)
R. australis agg.
R. glabra
R. tenuicaulis (incl. *R. t.* var. *dimorpha* and *R. t.* var. *pusilla*)
Senecio glaucophyllus ssp. (unnamed; aff. ssp. *toa*) (capitula larger than in ssp. *raoulia*) (unc)
S. glomeratus (unc)
S. hispidulus (unc)
S. quadridentatus
Vittadinia australis agg.

DICOT HERBS OTHER THAN COMPOSITES

- Acaena ansetinifolia*
A. inermis
A. juvenea (unc)
A. profunde incisa
Aciphylla aurea
A. sp. (cf. *A. glaucescens*) (unc)
Anisotome aromatica
A. filifolia
Cardamine sp. (*C. debilis* agg.) ("Narrow Petal" of Pritchard 1957)
Colobanthus strictus
Dichondra repens agg.
Einadia triandra
Epilobium attriplicifolium s.s.
E. brevipes (unc)
E. cinereum
E. komarovianum
E. melanocaulon
E. microphyllum
E. netteroides
E. nummularifolium
E. pubens
E. pycnostachyum (Mt Alexander)
E. rotundifolium
E. wilsonii
E. sp. (unnamed; included in *E. brunnescens*, as ssp. *minutiflorum* by Raven and Engellhorn, 1971)
Galium perpusillum s.s.
G. propinquum (unc)
G. trilobum

- G. sp.* (unnamed; aff. *G. perpusillum*) (fls scented, 4-4.5 mm diam., cream to very pale yellow; corolla tube 1-2 mm long, funnel form; corolla lobes 4 (or 5), c. 2 x 0.7-1 mm, subacute) (unc)
Gentiana astonii var. *astonii*
Gentium sessiliflorum var. *novae-zeelandiae* (unc)
G. sp. (unnamed; aff. *G. microphyllum*) (unc)
Gaum sp. (*G. parviflorum* agg.) (stalk short; terminal leaflet about as long as broad; fls up to 13 mm diam.) (unc)
Gingidia decipiens (unc)
G. montana
Genocarpus aggregatus
Halotagis erecta ssp. *erecta*
Hydrocotyle heteromeria
H. microphylla
H. moschata
H. novae-zeelandiae s.s. (unc)
H. sp. (unnamed; included in *H. novae-zeelandiae*, as var. *montana*, by Kirk 1899)
Linum monogynum (unc)
Nertera depressa (incl. *N. cunninghamii*)
N. setulosa (unc)
Oreomyrrhis rigida (Mt Alexander)
Oxalis exilis
O. magellanica
Parietaria debilis
- Plantago raoulii*
Ranunculus insignis (Mt Alexander)
R. reflexus
R. royi (unc)
Stackhousia minima
Stellaria decipiens (incl. *S. parviflora*)
Viola cunninghamii
Wahlenbergia albomarginata var. *albomarginata* (incl. *W. pygmaea* var. *laxa*, *W. brockiei*, *W. simpsonii*)
W. matthewsii
W. sp. (cf. *W. colensoi* and *W. rupestris*) (fls small, lilac)

No. of species: 288.

Records not accepted

- Asplenium bulbiferum* (Williams 1982) [= *A. gracillimum*]
Cyathea colensoi (Williams 1982) [= *C. smithii*]
Gahnia procera (Williams 1982) [= *G. pauciflora*]
Hoharia populnea var. *lanceolata* (Wardle 1961, as *H. sexstylosa*)
 [= *H. angustifolia*]
Hypolepis millefolium (Williams 1982) [= *H. ambigua*]
Leptopteris superba (Williams 1982) [= *L. hymenophylloides*]
Leptolepia novae-zelandiae (Williams 1982) [= *Lastreopsis glabella*]
Notofagus solandri var. *cliffortioides* (Williams 1982) [= *N. solandri*
 var. *solandri*]

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