

HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) OF MOUNTAINS W. OF UPPER GLENROY R. AND WEST OF ALPINE FAULT, SOUTHERN NELSON, 1700-5500 FT (500-1675 M)

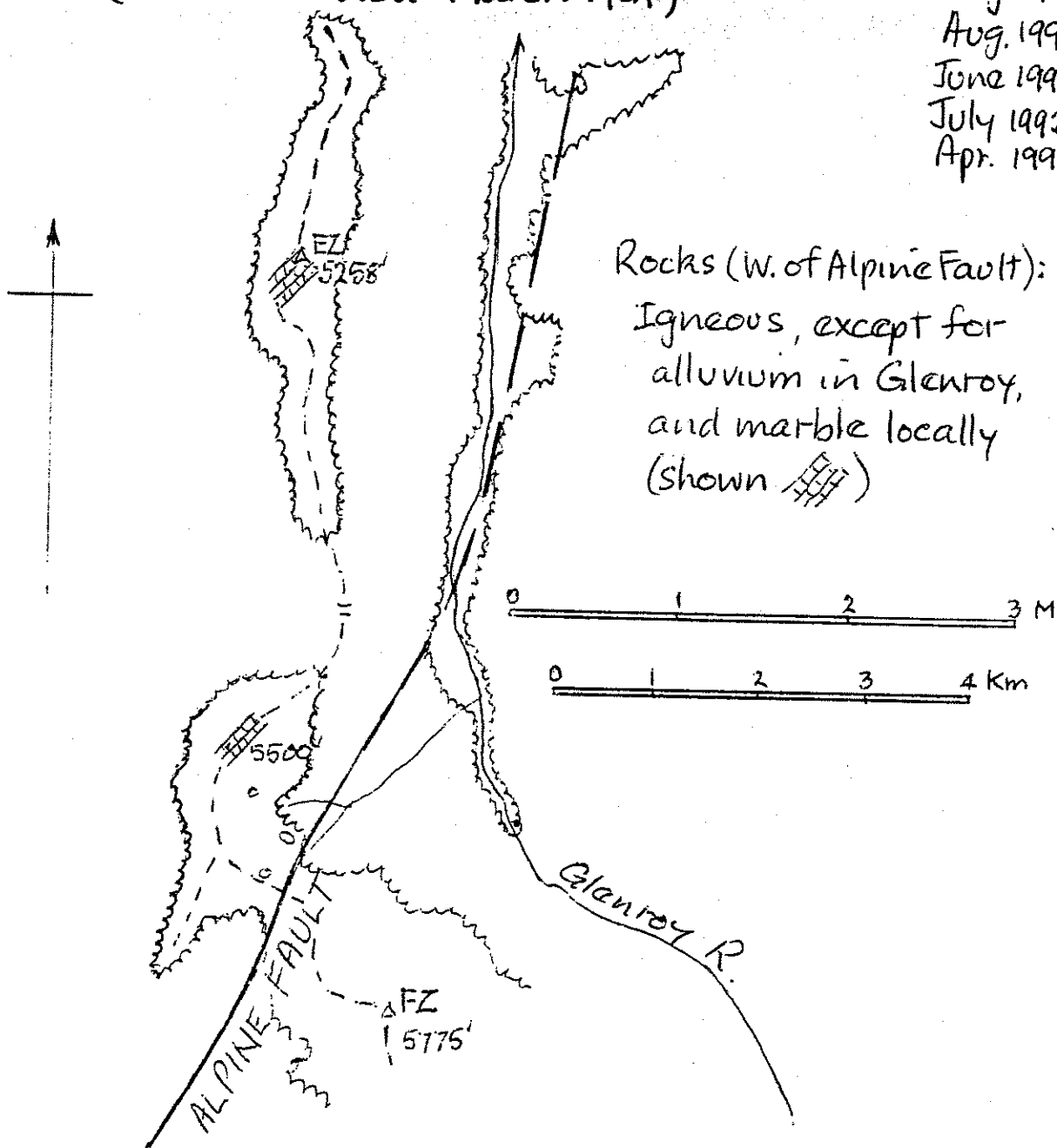
Highest point: unnamed peak, 5500 ft, S39 753140

A.P. Druce, Wellington, May 1984

(revised June 1984, Jan 1985, July 1985,

(Based on visit March 1984)

Aug. 1986,
Aug. 1990,
June 1991,
July 1992,
Apr. 1993)



THE HISTORY OF THE

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INDIGENOUS SPECIES

- (unc) - uncommon or local
- (M) - confined to marble
- (V) - confined to valley floor

GYMNOSPERM TREES AND SHRUBS

- Phyllocladus alpinus agg.
- Podocarpus acutifolius (V)
- P. hallii
- P. nivalis
- Carmichaelia sp. (subgenus Carmichaelia)
- Cassinia vauvilliersii
- Coprosma atropurpurea
- C. cheesemanii ss.

DICOT TREES

- Aristotelia serrata
- Carpodetus serratus
- Dracophyllum traversii (incl. D. pyramidale)
- Fuchsia excorticata
- Griselinia littoralis
- Hohemia lyallii var. (H. glabrata)
- Nothofagus fusca
- N. menziesii
- N. solandri var. cliffortioides
- N. fusca x N. solandri
- Pseudopanax colensoi ss.
- P. crassifolius
- P. simplex (incl. P. s. var. sinclairii)
- C. ciliata ssp. ciliata
- C. colensoi ss.
- C. depressa
- C. foetidissima
- C. linariifolia
- C. microcarpa
- C. propinqua ssp. propinqua (V)
- C. perposilla ssp. perposilla
- C. pseudocuneata ssp. (lvs narrower than in ssp. pseudocuneata)
- C. thamnoides (incl. C. polymorpha)
- C. rigida (V)
- C. rugosa ssp. rugosa
- C. serrulata (unc)

DICOT SHRUBS

- Aristotelia fruticosa var.
- Brachyglottis bidwillii var. viridis (unc)
- B. rotundifolia var. (incl. B. buchananii & B. cockaynei) (unc)
- C. sp. (i) (unnamed; aff. C. pseudocuneata) (low-growing shrubs with small, thick, arcuate lvs)

C. sp. (ii) (unnamed; included in C. parviflora by Oliver, 1935, and others) (drupes vs. unpigmented, occ. purplish red)

C. sp. (iii) (unnamed) (C. parviflora var. dumosa sensu Allan 1961, non C. p. var. dumosa Cheeseman)

Cotaria angustissima (unc) (V)

C. plumosa (V)

C. sarmentosa (V)

Cyathodes dealbata (incl. C. pumila)

Discaria toumatou (V)

Dracophyllum uniflorum

D. sp. (unnamed; aff. D. kirkii) (low-growing shrubs; lf blade up to 2 mm wide, slightly glaucous)

Gaultheria antipoda

G. crassa

G. depressa s.s.

G. sp. (unnamed; included in G. depressa, as var. novae-zelandiae, in var. nummularifolia) (unc) by Franklin (1962)

G. nubicola

Hebe carterburienensis

H. ciliolata

H. gracillima

H. lycopodioides

H. pauciramosa

H. salicifolia var. salicifolia

H. subalpina var. subalpina

H. topiaria

H. sp. (i) (aff. H. glaucophylla)

H. sp. (ii) (H. odora agg.)

H. sp. (iii) (unnamed; aff. H. rigidula) (lvs glaucous beneath, conspicuously boat-shaped)

Helichrysum intermedium var.

Kunzea ericoides agg. (V)

Leucopogon fraseri s.s.

L. suaveolens (incl. Cathodes coleusii)

Malicytus alpinus s.s.

M. sp. (unnamed; aff. M. alpinus) (prostrate shrubs; lvs linear-oblong) (M) (unc)

Myrsine divaricata s.s.

M. nummularia

Olearia avicenniifolia

O. lacunosa var. lacunosa

O. nummularifolia var. (lvs distinctly longer than broad, rather than suborbicular as)

Pentachondra pumila

Pimelea oreophila

(form with densely hairy lvs)

Pseudopanax anomalus

Pseudowintera colorata

DICOT LIANES AND RELATED PLANTS

Muehlenbeckia australis (V)
M. axillaris
Rubus cissoides var. (leaflets
 broader than in var. *cissoides*)

Hypolepis millefolium
H. rufobarbata
Leptopteris superba
Polystichum cystostegia (unc)
P. vestitum
Sticherum cunninghamii (V)

LYCOPODS

Lycopodium australianum
L. fastigiatum
L. scariosum

ORCHIDS

Adenochilus gracilis
Chiloglottis cornuta
Corybas trilobus ss.
Microtis oligantha (V)
Prasophyllum colensoi
Pterostylis venosa (unc)
P. sp. (cf. *P. graminea* and *P.*
itsoniana) (unc)

FERNS

Asplenium flaccidum
Blechnum fluviatile agg.
B. penna-marina
B. procerum
B. vulcanicum
B. sp. (unnamed) (mountain
 sp.; lower pinnae not reduced
 in length) ("The Dunedin-Cass
 Variety" of Crookes 1963)
Cyathea colensoi
Cystopteris tasmanica (M)
Grammitis billardièrèi
G. givenii (unc)
G. magellanica ssp. *nothofageti*
G. poeppigiana
Histiopteris incisa
Hymenophyllum multifidum
H. villosum

GRASSES

Agrostis muelleriana
A. personata
A. sp. (unnamed; aff. *A. dyeri*)
 (panicle spreading, not contract-
 ed as in *A. dyeri*)
Chionochloa australis
C. conspicua ssp. *conspicua*
C. crassiuscula ssp. *torta*
C. oreophila
C. pallens ssp. *pilosa*
C. rubra ssp. *occulta*

C. sp. (unnamed) (C. flavescens auct. South Island, non C. flavescens Zotov)

C. oreophila X C. pallens

Deschampsia tenella

Deyeuxia aucklandica

D. avenoides (incl. D. a. var. brachyantha) (unc)

Microlaena avenacea

M. colensoi

Elymus enysii (unc)

E. sp. (aff. Erecticetus) (plants glaucous)

Festuca sp. (unnamed; aff. F. rubra)

Hierochloa recurvata

Koeleria cheesemanii

K. sp. (i) (K. novo-zelandica agg.) (plants slender, rhizomatous) (unc)

K. sp. (ii) (K. novo-zelandica agg.) (lvs narrow, with conspic. marg. hts) (M) (unc)

Lachnagrostis sp. (unnamed; included in L. filiformis, as var. semiglabra, by Zotov (1965))

Poa breviglumis

P. celsa

P. cita ssp. cita

P. colensoi

P. imbecilla

P. kirkii

P. maia

P. sp. (i) (P. novae-zelandiae or P. subvestita) (M)

P. sp. (ii) (unnamed; aff. P. novae-zelandiae)

Rytidosperma gracile

R. nigricans

Simplicia buchananii (unc)

Trisetum youngii

T. sp. (unnamed) (plants slender; If sheath glabrous, or nearly so)

SEDGES

Carex aciculatis

C. breviculmis

C. comans (V)

C. coriacea

C. echinata var. (C. stellulata var. australis)

C. flagellifera (V)

C. gaudichardiana

C. pyrenaica var. cephalotes

C. secta ss. (V)

C. trachycarpa (unc)

C. wakatipu s.s.

C. sp. (unnamed; aff. C. testacea) (lvs broader than in C. testacea, vs. reddish) (V)

Carpha alpina ss.

Eleocharis gracilis (V)

Isolepis aucklandica

- Oreobolus pectinatus
- O. strictus (unc)
- Schoenus pauciflorus s.s.
- Uncinia astonii
- U. clavata
- U. distans
- U. divaricata
- U. ferruginea
- U. filiformis
- U. fuscovaginata var. (plants glaucous)
- U. gracilentata
- U. tubra
- U. uncinata
- U. zotovii
- U. sp. (unnamed) (U. affinis sensu Hamlin 1959, non U. hiparia var. affinis Col. ex Clarke)

- L. sp.(iii) (unnamed; included in L. chinica, as var. petricano, by Edgar 1966)
- Marsippospermum gracile

MONOCOT HERBS OTHER THAN / ORCHIDS, GRASSES, SEDGES, RUSHES

- Astelia linearis var.
- A. nervosa s.s.
- A. petrici
- Phormium cookianum
- Potamogeton cheesemani

COMPOSITE HERBS

- Brachyglottis sp. (unnamed; included in B. bellidioides, as var. crassa, by Nordenstam 1978)

RUSHES AND ALLIED PLANTS

- Gaimardia setacea
- Juncus antarcticus
- J. gregiflorus (V) (unc)
- J. novae-zelandiae
- Luzula colensoi (unc)
- L. migrata
- L. rufo s.s.
- L. sp. (i) (unnamed; included in L. rufo, as var. albicomans, by Edgar 1966) (V) (unc)
- L. sp. (ii) (unnamed; included in L. picta, as var. limosa, by Edgar 1966)

- Brachyscome sinclairii s.s.
- Celmisia alpina s.s.
- C. bellidioides
- C. haastii ssp. haastii
- C. incana (incl. C. discolor)
- C. laricifolia
- C. lateralis (incl. C. l. var. villosa)
- C. montoi ssp. (C. coriacea ssp. semicordata)
- C. sessiliflora
- C. sinclairii (incl. Callanii + C. durietzii)
- C. spectabilis ssp.
- C. traversii (unc)

C. verbascifolia ssp. *membranacea*

C. viscosa (unc)

C. sp.(i) (unnamed; aff. *C. gracilentata*)

(lvs linear to linear-lanceolate, up to 45 x 1.2 cm; lower surface white with cottony hairs)

with cottony hairs)

C. sp.(ii) (unnamed; aff. *C. gracilentata*)

(plants strongly rhizomatous)

Craspedia sp.(i) (unnamed; included in *C. lanata*, as var. *elongata*, by Allan 1961) (plants summer-green; lvs white or greenish white; both surfaces ± clad in cottony hairs; fls white)

C. sp.(ii) (unnamed) (plants summer-green; lvs green, both surfaces densely clad in multicellular, non-glandular hairs; margins faintly to distinctly white with cottony hairs; fls white)

C. sp.(iii) (plants summer-green; lvs green; both surfaces sparsely clad in short hairs, or almost glabrous; cottony hairs on lvs margins inconspicuous or absent; fls white)

Dolichoglottis lyallii

D. scorzoneroides

Gnaphalium audax (V)

G. mackayi ss.

G. paludosum s.s.

G. vahanicum

G. traversii

Helichtysum filicaule

Lagenifera cuneata

L. petiolata

L. pinnatifida

L. pumila

L. strangulata

Lapinella sp.(i) (*L. pyrothriifolia* agg.)

L. sp.(ii) (unnamed; included in *L. squalida*, as ssp. *mediana*, by Lloyd and Webb, 1987)

L. sp.(iii) (unnamed) (pinnae entire)

Leucogenes grandiceps

Microseris scapigera var.

Pseudognaphalium sp. (unnamed; aff.

P. lutealbum) (lvs mostly

oblong-spathulate to narrowly

oblong, rounded)

Raoulia apicinigra ss. (M)

R. australis agg. (V)

R. bryoides

R. glabra

R. grandiflora var. *grandiflora*

R. tenuicaulis (incl. *R. t.* var. *dimorpha* and *R. t.* var. *pusilla*) (V)

Senecio minimus

S. waitavensis

Taraxacum magallanicum

DICOT HERBS OTHER THAN

COMPOSITES

- Acaena auserinifolia*
- A. fissistipula*
- A. inermis* (V)
- A. profunde incisā* (top. 9)
- A. auserinifolia* X *A. inermis*
- Aciphylla colensoi* var. *colensoi*
- A. montoi*
- A. sp.* (unnamed; aff. *A. aurea*) (stipules short, spreading) (M)
- Anemone tenuicaulis*
- Anisotome aromatica*
- A. filifolia*
- A. haastii*
- A. pilifera*
- A. sp.* (unnamed; included in *A. imbricata* as var. *prostrata*, by Dawson 1961)
- Cardamine sp.* (i) (*C. debilis* agg.)
- C. sp.* (ii) (unnamed) (lvs mostly simple, occ. with up to two pairs of pinnules; blades ± reniform) (M)
- C. sp.* (iii) (unnamed) ("Scree Race" of Pritchard 1957)
- C. sp.* (iv) (*C. debilis* agg.)
- Chionchebe pulvinaris*
- Colobanthus affinis*
- C. apetalus* (incl. *C. a.* var. *alpinus*)

- C. buchananii* (M)
- C. squarrosus* (M)
- C. strictus*
- Donatia novae-zelandiae*
- Kelleria dieffenbachii*
- K. laxa*
- K. multiflora* (unc)
- Drosera arctuti*
- Epilobium brunnescens* ss.
- E. chlorifolium*
- E. cockayneanum*
- E. elegans* (M) (unc)
- E. glabellum* ss.
- E. melanocaulon* (V)
- E. microphyllum* (V)
- E. pernitens*
- E. tasmanicum*
- E. vernicosum* (M)
- E. sp.* (unnamed; included in *E. brunnescens*, as ssp. *minutiflorum*, by Raven and Engelman, 1971)
- Euphrasia revoluta*
- E. zelandica* agg.
- E. sp.* (*E. laingii* or related sp) (unc)
- Forstera tenella*
- F. sp.* (unnamed; aff. *F. sedifolia*)
- Galium perpusillum* s.s.
- Gentiana filipes* (M)
- G. montana* ss. (include *G. patula*, *G. bellidifolia* var. *pulchella*, and *G. montana* var. *stolonifera*)

- G. sp.(i) (unnamed; included in G. bellidifolia, as var. australis, by Petrie in Cheeseman 1925)
- G. sp.(ii) (unnamed; aff. G. montana) (stems tall, robust; cauline lf pairs 4-10; infl umbelliform)
- Geranium ^{sp. (unnamed; aff. G. microphyllum)} microphyllum
- G. sessiliflorum var. novae-zeelandiae
- Geum leiospermum
- G. uniflorum
- G. sp. (G. parviflorum agg.) (stock short; terminal leaflet about as long as broad; fls up to 13 mm diam.)
- Gingidia decipiens
- G. montana
- Gonocarpus aggregatus
- Gunnera dentata var. dentata (V)
- Hydrocotyle heteromera
- H. microphylla (V)
- H. moschata
- H. sp. (unnamed; included in H. novae-zeelandiae, as var. montana, by Kitz 1899)
- Mazus radicans
- Myosotis sp.(i) (unnamed; included in M. pygmaea, as var. drucei, by Moore 1961)
- M. sp.(ii) (M. australis agg.) (fls small, white) (unc)
- Neopaxia sp. (incl. Montia calycina & Claytonia australasiae var. biflora)
- Nertera baltouriana
- N. ciliata
- N. sp. (unnamed; aff. N. dichondrifolia) (hairs present on both surfaces of lf, straight, not hooked as in N. dichondrifolia)
- Notothlaspi australe
- Oreomyrrhis colensoi s.s. (incl. O.c. var. hispida and O.c. var. multifida)
- O. sp. (unnamed; aff. O. ramosa)
- Ourisia caespitosa ssp. caesp.
- O. lactea ssp. lactea
- O. macrocarpa ssp. calycina
- O. simpsonii
- O. glandulosa ssp. (upper lf surface hairs persisting)
- Oxalis magellanica
- Parakebe decora (unc)
- P. linifolia ssp. linifolia (unc)
- P. lyallii
- Phyllochne colensoi var.

Plantago lanigera s.l. (incl. *P.*
novae-zealandiae)
P. raoulii
P. uniflora
Pratia angulata agg.
P. macrodon
Psychrophila novae-zealandiae
Ranunculus altus
R. foliosus
R. gracilipes

R. insignis
R. membranifolius
R. reflexus

R. sp. (unnamed; included in *R.*
lappaceus, as var. *macrophyllus*,
 by Kirk 1899)

R. gracilipes X *R. insignis*

Rumex flexuosus (V)
Schizilema haastii ss.
S. pallidum

S. sp. (unnamed; included in *S.*
haastii, as ssp. *cyanopetalum*,
 by Domin 1908)

No. of indigenous spp.: 350.

No. of adventive spp.: 11.
(above tree-line)

Scleranthus brockiaii
S. uniflorus
Stellaria decipiens (incl. *S.*
parviflora)
S. gracilentata
Urtica incisa
Viola cunninghamii
V. lyallii

ADVENTIVE SPECIES
 (Listed above tree-line only)

GRASSES

Agrostis capillaris (unc)
Festuca nigrescens (unc)
Poa pratensis (unc)

RUSHES

Juncus sp. (*J. effusus* or *J. conglomeratus*) (unc)

COMPOSITE HERBS

Hypochoeris radicata
Hieracium sp. (unc)

DICOT HERBS OTHER THAN

COMPOSITES

Cerastium fontanum ssp. *vulgare*
Ranunculus repens (unc)
Rumex acetosella
Sagina procumbens
Trifolium repens (unc)

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