

HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS,
FLOWERING PLANTS) OF MTS CRUSADER¹ AND HOARY HEAD²,
N.W. NELSON, 3000-4820 FT/900-1450 M

A.P. Druce, Botany Division, D.S.I.R., June 1981

(Revised Nov. 1981, Dec. 1981, Jan. 1982, May 1982,

(Based on visits Dec. 1980 and
Feb. 1986)

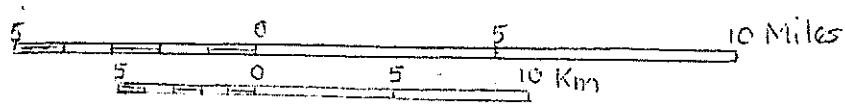
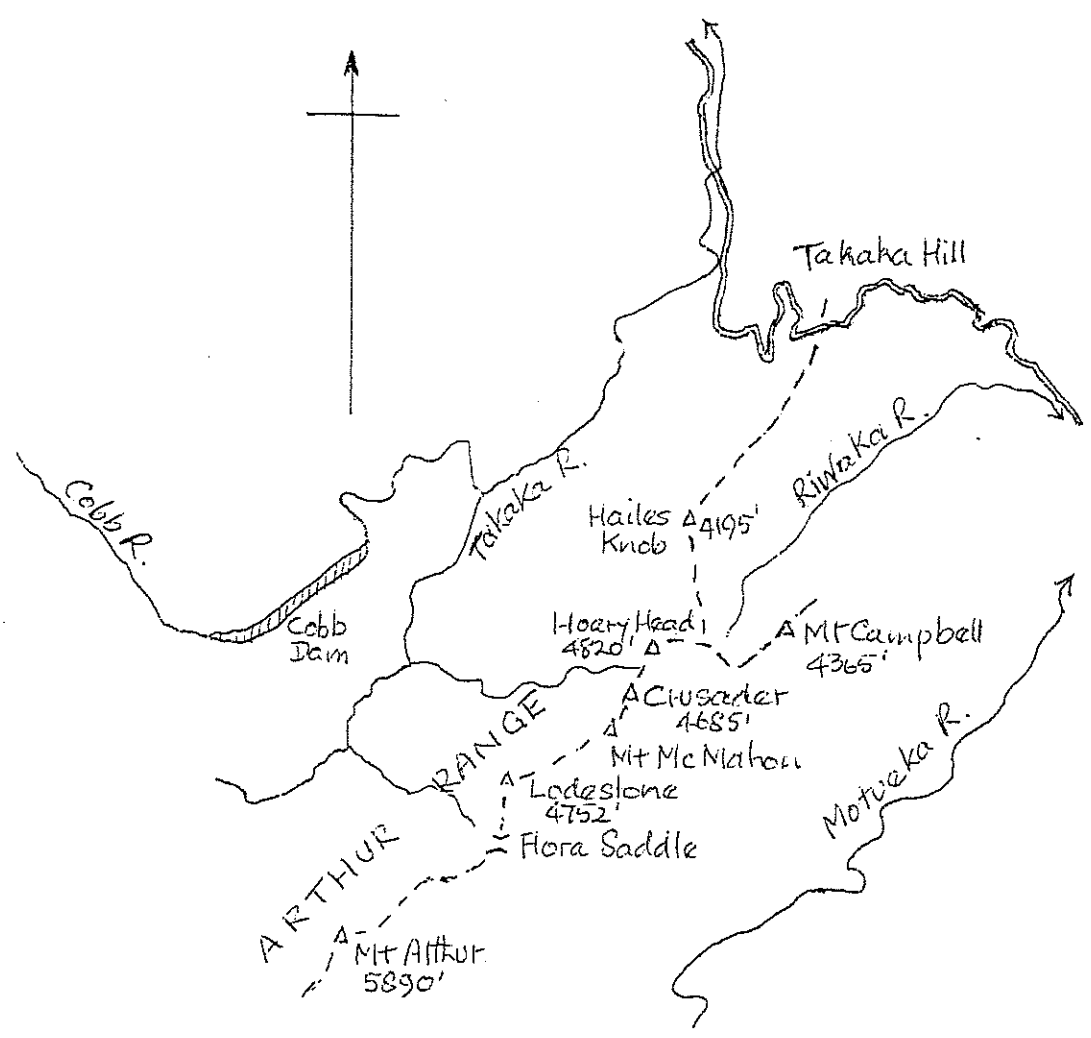
Sept 1982,
June 1983,
Dec. 1983,
June 1984,
Nov. 1984,
Feb. 1986,
Apr. 1986,
Nov. 1988,
June 1990,
July 1991,
July 1992)

¹Grid ref. 313 187453, alt. 4685'

→ ²Grid ref. 513 198471, alt. 4820'

rocks - marble (Arthur Marble)

(unc) - uncommon



GYMNOSPERM TREES AND SHRUBS

- Lepidothamnus laxifolius (unc)
- Libocedrus bidwillii (unc)
- Phyllocladus alpinus agg.
- Podocarpus hallii
- P. nivalis
- P. hallii X P. nivalis (unc)

DICOT TREES

- Aristotelia serrata
- Dracophyllum traversii (incl. D. pyramidale)
- Elaeocarpus hookerianus
- Griselinia littoralis
- Metrosideros umbellata
- Nothofagus fusca
- N. menziesii
- N. solandri var. cliffortioides

- Pittosporum tenuifolium (unc)
- Pseudopanax simplex (incl. P. s. var. sinclairii) (unc)
- P. sp. (unnamed; included in P. colensoi, as var. fiordensis and as var. fernatus, by Wardle 1968) (unc)

DICOT SHRUBS

- Aristotelia fruticosa var.
- Brachyglottis greyi (incl. B. laxifolia)
- Cassinia vauvilliersii (unc)
- Coprosma atropurpurea

- C. cheesemanii s.s.
- C. ciliata ssp. ciliata
- C. colensoi s.s.
- C. depressa (unc)
- C. foetidissima (unc)
- C. linariifolia
- C. propinqua ssp. propinqua

- C. pseudocuneata ssp. (lvs narrower than in ssp. pseudocuneata)
- C. sp. (i) (unnamed) (prostrate shrubs; lvs plano-convex, linear; drupes orange)
- C. sp. (ii) (unnamed; aff. C. pseudocuneata) (low-growing shrubs with small, thick arcuate lvs)
- C. sp. (iii) (unnamed; aff. C. colensoi) (low-growing shrubs with trailing branches) (unc)
- C. sp. (iv) (unnamed) (C. parviflora var. dumosa Allan 1961, non C. p. var. dumosa Cheeseman) (unc)
- C. sp. (v) (unnamed; included in C. parviflora by Oliver, 1935, and others) (lf under surface not minutely hairy as is usual in C. parviflora; drupes vs. unpigmented occ. purplish red)

- Corokia cotoneaster var. (prostrate) (unc)

Dracophyllum longifolium var.
(incl. *D. filifolium* and *D. oliveri*)

D. sp. (unnamed; aff. *D. kirkii*)
(low-growing shrub; branches often
rooting; infl. of few-fl'd racemes)

Exocarpus bidwillii (unc)

Gaultheria antipoda

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

Hebe canterburciensis

H. gracillima

H. haastii var. (cf. var. *humilis*;
see Moore 1961, p. 940)

H. macrantha var. *brachyphylla*

H. topiaria

H. venustula (incl. *H. brachysiphon*)

H. vernicosa

H. sp. (aff. *H. glaucophylla*)

Helichrysum intermedium var.

Leucopogon fasciculatus var.

L. fraseri s.s.

L. suaveolens (incl. *Cyathodes*
colensoi)

Malicytus alpinus s.s.

M. obovatus var. *obovatus* (unc)

Myrsine divaricata s.s.

M. nummularia

Olearia avicenniifolia

O. colensoi var. *colensoi* (unc)

O. cymbifolia

O. lacunosa var. *lacunosa*

O. nummulariifolia var. (vs distinctly
longer than broad rather than sub-
orbicular as in var. *nummulariifolia*)
(unc)

Pentachondra pumila

Pimelea longifolia var. *longifolia* (unc)

P. suteri var. (*Poreophila*)

Pittosporum anomalum

Pseudowintera colorata

DICOT LIANES AND RELATED

TRAILING PLANTS

Clematis forsteri

C. marmoraria

Muehlenbeckia axillaris

LYCOPODS

Lycopodium australianum (unc)

L. fastigiatum

FERNS

Asplenium flaccidum

A. hookerianum

A. lyallii (unc)

- A.sp. (unnamed; aff. A. trichomanes)
- Blechnum fluviatile agg.
- B. penna-marina
- B. procerum
- B.sp. (unnamed) (mountain sp.; lower pinnae not reduced in length) ("The Dunedin-Cass Variety" of Crookes 1963")
- Botrychium sp. (cf. B. lunaria) (unc)
- Cyathea colensoi
- Cystopteris tasmanica
- Grammitis billardierei
- G. patagonica
- G. poeppigiana (unc)
- Hymenophyllum villosum (unc)
- Hypolepis millefolium
- Ophioglossum coriaceum agg.
- Polystichum vestitum

ORCHIDS

- Chiloglottis cornuta
- Corybas macranthus
- C. trilobus s.s.
- Prasophyllum colensoi
- Pterostylis humilis
- P. irsoniana (unc)
- Thelymitra hatchii (unc)

GRASSES

- Agrostis sp. (unnamed; aff. A. dyeri) (panicle not contracted as in A. dyeri) (unc)
- Chionochloa cheesemanii
- C. conspicua ssp. conspicua (unc)

- C. pallens ssp. pallens
- C.sp. (unnamed) (C. flavescens auct. South I, non C. flavescens Zotov) (unc)
- C. pallens X C.sp. (unnamed) (unc)
- Deschampsia tenella (unc)
- Deyeuxia avenoides (unc)
- Flymus sp. (aff. F. rectisetus) (plants glauc.)
- Festuca sp. (i.) (unnamed; aff. F. tubra)
- F.sp. (ii) (aff. F. matthewsii) (tufted but not tussock-forming, glaucous)
- Hierochloa recurvata (unc)
- Koeleria cheesemanii (unc)
- Lachnagrostis sp. (unnamed; included in L. filiformis, as var. semiglabra, by Zotov 1965)
- Poa breviglumis
- P. colensoi
- P. imbecilla
- Rytidosperma gracile
- R. setifolium
- Trisetum youngii (unc)
- T.sp. (i) (unnamed) (included in T. antarcticum, as ssp. tenellum, by Petrie 1912)
- T.sp. (ii) (unnamed) (plants slender; lf sheath glabrous or nearly so)
- T.sp. (iii) (unnamed; aff. T. antarcticum) (plants robust; lf sheath glabrous at least in upper part; lf blade margins scabrid)

SEDGES

- Carex breviculmis
- C. enysii
- C. wakatipu s.s. (unc)
- C.sp. (i) (unnamed) (calcicole; lvs green to brownish-green, recurved; styles 3) (see Edgar 1970, p. 28A)
- C.sp. (ii) (unnamed) (calcicole; styles 3)

- C. sp. (iii) (unnamed) (callicole; lvs green, stiff, erect; styles 3)
- C. sp. (iv) (unnamed; aff. C. wakatipu)
- Schoenus pauciflorus s.s.
- Uncinia caespitosa
- U. clavata
- U. divaricata
- U. filiformis
- U. fuscovaginata var. (plants glaucous)
- U. involuta
- U. rupestris (incl. U. angustifolia)
- U. sinclairii
- U. viridis
- U. laxiflora
- U. sp. (unnamed) (U. affinis Hamlin 1959, non U. Hipatia var. affinis Col. ex Clarke; see Nootboom 1978)

RUSHES

- Luzula migrata
- L. picta s.s.
- L. sp. (i) (L. picta var. limosa) (unc)
- L. sp. (ii) (unnamed; aff. L. rufa) (stoloniferous, infl. head smaller than in L. rufa)

MONOCOT HERBS (OTHER THAN GRASSES, SEDGES, RUSHES)

- Astelia graminea
- A. sp. (unnamed; aff. A. nervosa) (lvs broad, not conspicuously white adaxially as in A. nervosa)
- Libertia grandiflora
- Phormium cookianum

COMPOSITE HERBS

- Brachyscome radicata var. radicata (incl. B. r. var. membranifolia)
- B. sinclairii s.s.
- Brachyglottis lagopus var. (cottony hairs on both surfaces of lf, dense at first, but becoming sparse)
- Anaphalis sp. (Helichrysum ballioides s.s.)

- Celmisia gracilentata ssp.
- C. monroi ssp. (C. semicordata ssp. semicord.)
- C. spectabilis ssp.
- C. gracilentata X C. semicordata (unc)
- C. g. X C. spectabilis (unc)
- C. semicordata X C. spectabilis
- Craspedia sp. (i) (unnamed; included in C. lanata, as var. elongata, by Allan 1961) (unc)
- C. sp. (ii) (unnamed) (summer-green; lvs green, both surfaces densely clad in short glandular hairs < 0.3 mm long; margins ± faintly white; fls white) (unc)
- Gnaphalium audax (unc)
- G. mackayi s.s. (unc)
- G. tuahinicum (unc)
- G. traversii (unc)
- G. audax X G. traversii (unc)
- Pseudognaphalium sp. (unnamed; aff. P. luteoalbum) (mountain sp.; lvs mostly oblong-spathulate to narrowly oblong, rounded; involucre bracts light brown) (unc)
- Helichrysum filicaule (unc)
- Lagenifera cuneata (unc)
- L. pinnatifida
- L. pumila
- L. strangulata
- L. pinnatifida X L. pumila (unc)
- Microseris scapigera var.
- Raoulia apicinigra s.s.
- R. glabra
- R. subsericea (unc)
- Senecio glaucophyllus ssp. glaucophyllus (unc)

Taraxacum magellanicum (unc)

Galium perpusillum s.s.
E. pubens
E. tenuipes s.s.
E. vernicosum

DICOT HERBS (OTHER THAN COMPOSITES)

Acaena profundeincisa

Aciphylla sp. (cf. A. aucta) (unc)

Anisotome aromatica

A. filifolia

A. pilifera (unc)

Cardamine sp. (i) (unnamed) (calcicole; lvs mostly simple; blades ± reniform)

C. sp. (ii) (C. debilis agg.) (cf. "Long Style" of Pritchard 1957)

Cheesemani latifolia (incl. C. gibbsii) (unc)

Colobanthus affinis

C. apetalus (incl. C. var. alpinus) (unc)

C. canaliculatus (?)

C. strictus

C. wallii (incl. C. masoniae)

C. sp. (unnamed) (lvs and sepals strongly aciculate; lvs unbordere; sepals 5, broader than lvs, without a thickened midrib)

Epilobium alsinoides s.s. (unc)

E. atriplicifolium s.s.

E. chlorifolium

E. cockayneanum (unc)

E. elegans

E. glabellum s.s.

E. gracilipes

E. komarovianum (unc)

E. linnaeoides

E. nummularifolium

E. sp. (unnamed; included in E. brunnescens, as ssp. minutiflorum by Raven and Engelhorn, 1971)

Euphrasia sp. (unnamed; aff. E. laingii)

Gentiana bellidifolia agg.
G. filipes

G. tenuifolia (unc)

G. sp. (unnamed; aff. G. corymbifera) (unc)

Geranium sessiliflorum var. n.3.

G. sp. (aff. G. microphyllum)

Gingidia decipiens
G. montana (unc)

Hydrocotyle microphylla
H. moschata

Kelleteria dieffenbachii
K. laxa

Myosotis arnoldii

M. pygmaea s.s. (unc)

M. sp. (i) (M. australis agg.) (calcicole; fls small, white) (unc)

M. sp. (ii) (unnamed; included in M. pygmaea, as var. drucei by Moore 1961)

Notothlaspi sp. (unnamed) (N. australe auct., non Thlaspi australe Hook. f.)
Oreomythus colensoi s.s. (incl. O. c. var. hispida and O. c. var. multifida)

O. sp. (unnamed; aff. O. ramosa)

Oreopora alpestris alpina

Ourisia lactea ssp. lactea

Parakebe linifolia ssp. linifolia (unc)

M. sp. (iii) (M. australis agg.) (fls yellow) (unc)

- Ranunculus altus (unc)
- R. insignis
- R. membranifolius (unc)
- R. verticillatus (unc)

Scleranthus brockiei

S. uniflorus

Schizilema colensoi

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

Stachyosia minima (unc)

Stellaria decipiens (incl. S. parviflora)

Urtica incisa

Viola cunninghamii

Wahlenbergia albomarginata var.

albomarginata (incl. W. pygmaea

var. laxa, W. brockiei, and W. simpsonii)

No. of indigenous spp: 235.

ADVENTIVE PLANTS

GRASSES

Agrostis capillaris

Dactylis glomerata (unc)

Poa pratensis

COMPOSITE HERBS

Cirsium lanceolatum (unc)

Hieracium sp. (unc)

Hypochoeris radicata

Mycelis muralis

DICOT HERBS OTHER THAN COMPOSITES

Cerastium fontanum ssp. vulgare

Linum catharticum

Rumex acetosella (unc)

Sagina procumbens

Trifolium dubium (unc)

T. repens

No. of adventive spp.: 13.

8

REFERENCES

- Allan, H.H. 1961: "Flora of New Zealand". Government Printer, Wellington. Vol. 1. 1085 pp.
- Crookes, M. 1963: "New Zealand Ferns". Ed. 6. Whitcombe and Tombs. 408 pp.
- Domin, K. 1908: Engl. Bot. Jb. 40: 573-85.
- Edgar, E. 1970: Cyperaceae. Pp. 167-285 in "Flora of New Zealand". Government Printer, Wellington. Vol. 2. 354 pp.
- Franklin, D. A. 1962: The Ericaceae in New Zealand (Gaultheria and Perrettia). Trans. R. Soc. N.Z. Bot. 1: 155-73
- Hamlin, B.G. 1959: A revision of the genus Uncinia (Cyperaceae - Caricoidae) in New Zealand. Dom. Mus. Bull. 19. 106 pp.
- Mooze, L.B. 1961: In "Flora of New Zealand" Govt. Printer, Wellington. Vol. 1. 1085 pp.
- Nootboon, H.P. 1978: A taxonomic revision of the Malasian and Australian species of Uncinia (Cyperaceae). Blumea 24: 511-20.
- Pritchard, G.G. 1957: Experimental taxonomic studies on species of Cardamine Linn. in New Zealand. Trans. R. Soc. N.Z. 85: 75-89.
- Raven, P.H.; Engelhorn, T. 1971: New taxa and new combinations in Australasian Epilobium (Onagraceae). N.Z. J. Bot. 9: 345-50.
- Wardle, P. 1968: The taxonomy and distribution of the stipulate species of Pseudopanax in New Zealand. N.Z. J. Bot. 6: 226-36.
- Zotov, V.D. 1965: Grasses of the subantarctic islands of the New Zealand region. Rec. Dom. Mus. Wellington 5: 101-46.
- Oliver, W.R.B. 1935: The genus Coprosma. Bishop Mus. Bull. 132. 207 pp
- Petrie, D. 1912: Descriptions of new native species of phanerogams. Trans. N.Z. Inst. 44: 179-87.