

Tararua Range

On b. b. l. c.

(Rewritten notes,  
V. Zbtov, pp. 22-90)

30. 1. 30

DIARY NOTES - V.D. ZOTOV

Orchids  
and base

WAIIOPEHU TRACK - from Levin

Left Ohau River up the ridge @ 6.35<sup>am</sup> elevation then 550 ft

- Juncus polyanthemus
- "  vaginatus
- Acaena san. isorbae
- Pteris incisa
- Pteridium esculentum
- Hydrocotyle elongata
- Epilobium nummularifolium
- Aristotelia racemosa
- Meliccytus ramiflorus
- Fuschia excorticata
- Erechites prenanthoides
- Coprosma robusta
- Nothopanax arboreum
- Juncus lampocarpus
- Pratia unguolata (small l.) (#1)
- Nertera
- Rubus australis

WAIIOPEHU TRACK @ signboard, 7.10 am, 950 ft

- Blechnum discolor (abund)
- Beilschmiedia tawa
- Cyathea dealbata
- Gleichenia cunninghamii
- Metosideros robusta
- Trichomanes reniforme (pl)
- Podocarpus hallii ?
- Rhipogynum scandens
- Freycinetia banksii (abund)
- Uncinia uncinata (very com)
- Carpodetus serratus
- Polypodium diversifolium
- Wintera axillaris
- Nothopanax arboreum
- Senecio Kirkii
- Weinmannia racemosa
- Suttonia salicina (very com), tree, seedlings & saplings abundant
- Microlaena avenacea (pl)
- Hymenophyllum demissum (abundant)
- Knightia excelsa
- Coprosma grandifolia
- Shefflera digitata
- Fuchsia excorticata
- Podocarpus ferrugineus
- Hedycaria arborea
- Dacrydium cupressinum
- Asplenium bulbiferum
- Rubus australis, very wide leaves
- Blechnum fluviatile
- Geniostoma ligustrifolium

PALMER'S CAMP, 1,750 ft, 7.45 am (Bush more open)

- Coprosma foetidissima
- Griselinia littoralis
- Asplenium flaccidum
- Nothopanax edgerleyi
- Coprosma robusta ABSENT

2,150 ft

Myrtus pedunculata (pl)  
 Wintera axillaris (com)  
 " colorata (rare)  
 Weinmannia racemosa (abund)  
 Podocarpus hallii  
 Suttonia salicina (com)  
 Enargea marginata  
 Libertia pulchella (pl, very dense in places)  
 Nothofagus menziesii  
 Coprosma foetidissima  
 " colensoi  
 Uncinia unciniata (few)  
 " filiformis (com)  
 " hybrids (pl)  
 Podocarpus ferrugineus  
 Blechnum procerum (huge fronds)  
 Polypodium pustulatum  
 P " diversifolium  
 Microlaena avenacea  
 Elaeocarpus hookerianus  
 Griselinia lucida  
 " littoralis  
~~Nothopanax~~ arborescens  
 Hedycaria arborea  
 Asplenium flaccidum  
 Polystichum vestitum  
 Phormium colensoi  
 Hymenophyllum  
 Erechites prenanthoides  
 Astelia cochaynei  
 Podocarpus hallii  
 Rhipogynum sandens ABSENT

HUT, 9.20 am, 2,750 ft

HUT, 10.20 am, 2,750 ft

Scirpus cernuus  
 Olearia colensoi  
 Senecio elaeagnifolius  
 Euphrasia cuneata  
 Gaultheria rufostriata  
 Danthonia flavescens  
 Juncus polyanthemus  
 Gleichenia cunninghamii  
 Dracophyllum longifolium  
 Blechnum procerum (small)  
 Juncus novae Zeelandiae  
 Astelia cockaynei  
 Aristotelia fruticosa? (Pittosporum rigidum?)  
 Coprosma pseudocuneata  
 Griselinia littoralis  
 Coprosma propinqua ?

10.45 am, 3,450 ft

Luzula campestris (montane)  
 Juncus antarcticus

3,500 ft - open scrub

Astelia predominant

C .

*Celmisia spectabilis*

(3558')

3,800 ft Also seen on way up

*Hemitelia smithii*, *Abrotanella pusilla*, *Oreomyrrhis andicola*, *Epilobium pedunculare*  
*Leptopteris hymenophylloides*; - *Hymenophyllum villosum*

WAIIOPEHU, 3,588 ft, 11.0 am (VDZ 3,800 ft)

*Astelia cockaynei* )  
*Olearia colensoi* ) predominant

*Euphrasia cuneata* )  
*Coprosma pseudocuneata* ) plentiful  
 " *colensoi* )

*Danthonia flavescens* (com)

*Coprosma depressa* ?

*Gaultheria rupestris*

*Aciphylla colensoi* var. *conspicua* (uncom)

*Pimelia gnidia*

*Abrotanella pusilla*

*Juncus antarcticus*

*Hypochaeris radicata* (com)

*Pentachondra pumilla*

*Gentiana patula*

*Danthonia flavescens*

*Celmisia spectabilis*

*Pimelia gnidia*

*Epilobium pedunculare*

*Abrotanella pusilla*

*Plantago uniflora*

" *brownii*

OFF WAIIOPEHU, 3,500 ft, 11.20 am

*Lycopodium fastigiatum* ✓

*Giselinia littoralis* (pl)

*Olearia colensoi* "

*Dracophyllum longifolium* (pl)

*Danthonia flavescens* "

*Nothopanax sinclairii* (com)

*Viola filicaulis*

TWIN PEAK, 3,800 ft, 11.25 am (dir. N)

*Danthonia flavescens* (abundant)

*Astelia cockaynei*

*Olearia colensoi*

*Dracophyllum longifolium*

*Pimelia gnidia*

*Coprosma colensoi*

*Phormium colensoi*

*Coprosma pseudocuneata*

*Gahnia pauciflora* (abund)

*Carpha alpina*

3,400 ft, 11.35 am

Tall scrub

3,200 ft, 11.40 am

Beech toright off the ridge

*Coprosma foetidissima*

" *colensoi*

" *pseudocuneata*

Nothopanax arbbreum  
 N. sinclairii  
 Olearia colensoi  
 Senecio elaeagnifolius  
 Astelia cockaynei  
 Phormium colensoi  
 Aristotelia fruticosa  
 Dracophyllum longifolium  
 Podocarpus hallii  
 Griselinia littoralis  
 Gahnia pauciflora  
 Weinmannia racemosa  
 Myrtus pedunculata  
 Suttonia divaricata

12 Noon, dir. E

Coprosma sp., leaves narrow, fr, like C. rhamnoides

3,500 ft, dir. N

Olearia colensoi - a patch of trees about 15 ft high with stems 1'6" diam at 2' from the ground

Pentachondra pumilla seen also off Waiopetu

GABLE END, 3,400 ft, 12,30 pm

Phyllocladus alpinus  
 Metrosideros hypericifolius  
 Elaeocarpus hookerianus  
 Hymenophyllum demissum  
 Viola filicaule  
 Poesia scaberule  
 Blechnum filiforme  
 Pseudopanax crassifolium  
 Leptopteris superba (rare)

3,350 ft, 12.45 pm

Tarn about 30 ft diameter

Sphagnum (scant growth)

3,300 ft, 12.50 pm

Nothofagus menziesii - small clump

3,200 ft, 1.00 pm - entered rain forest

Leptopteris superba (com)

1,050 ft, 1.30 pm c. OHAU RIVER

525  
RAN 1107 557

2.10 pm started down stream

Brachiglottis repanda (fl)

Gnaphalium kerriense (fl)

Geniostoma ligustrifolium

Weinmannia racemosa (com to fl)

Cardamine heterophylla (fl)

Epilobium nummularifolium

Shefflera digitata

Aristotelia fruticosa (fl)

Rhipogynum scandens

Blechnum lanceolatum ?

" discolor

" procerum

Hemitelia smithii

Nothopanax arboreum

" edgerleyi (seen ca 500' up in bush)

*Teucrium parvifolium*  
*Freycinetia banksii*  
*Uncinia uncinata*  
*Suttonia salicina*  
*Dacrydium cupressinum*  
*Carpodetus serratus*  
*Trichomanes reniforme*  
*Hymenophyllum demissum*  
*Nertera depressa*  
*Cyathea dealbata*  
*Coraria sarmentosa*  
*Raoulia tenuicaulis*  
*Fuchsia excorticata*  
*Astelia nervosa ?*  
*Metrosideros colensoi*  
     "    *robusta*  
*Beilschmiedia tawa*  
*Microlaena avenacea*  
*Acæna sanguisorbæ v. pusilla*  
*Erechtites prenanthoides*  
*Pratia unguata (small l)*  
*Hydrocotyle elongata*  
*Geranium microphyllum*  
*Wintera axillaris*  
*Urtica ferox*  
*Gunnera strigosa (pl)*  
*Libertia ixioides (pl - robust plant - only 1 seen)*  
*Viola filicaulis*  
*Senecio kirkii (plenty up on the hills)*  
*Luzula campestris (pl) (pl)*  
*Polypodium diversifolium*  
*Metrosideros perforata*  
*Earina autumnalis*  
*Dendrobium cunninghamii*

900 ft

*Coprosma robusta*  
     "    *grandifolia*  
     "    *lucida (rare)*

*Earina mucronata*  
*Rhopalostylis sapida*  
*Raoulia tenuicaulis* plentiful throughout  
*Gunnera strigosa*  
*Libertia ixioides (tufted)*  
*Oxalis lactea*  
*Dixonia squarrosa*

Car reached about 7.0 pm.

The noteworthy feature is that the slopes of the gorge on the southern side of the river have little *Rhipogynum* but plenty of *Freycinetia* - the reverse is the case on the northern side.

*Podocarpus ferrugineus*  
*Lycopodium scariosum*

26.12.30, 5.10 am.

Crossed the river at Otaki Forks. Flats, 500 ft poor pasture including

*Pratia angulata*, sm. lvd. (in fl.) abund*Acaena sanguisorbae* v. *pusilla* (fl)*Juncus polyanthemus* v. "multiflorum" (bud) (com)" *luxurians**Pteridium esculentum**Digitaria purpurea* (fl) (abund)" " v. *alba* (fl) (freq)

1,300 ft, 5.45 am

6.00 am

*Rubus australis* ) abund*Fuchsia excorticata* )

1,700 ft, 6.20 am - enter bush

*Weinmannia racemosa* (fl) (abund)*Podocarpus ferrugineus* (com)*Suttonia salicina* (abund)*Carpodetus serratus**Aristotelia racemosa**Wintera axillaris**Shefflera digitata**Nothopanax arboreum**Coprosma foetidissima* (rare)*Astelia solanderi**Podocarpus hallii* )*Blechnum* ) rare*Coprosma grandifolia* (rare)*Rhipogynum scandens* (rare)*Blechnum discolor* (com)*Uncinia uncinata**Hymenophyllum**Trichomanes reniforme**Blechnum procerum**Asplenium* (epiph)

Tree fern

*Metrosideros colensoi*

2,000 ft, 6.40 am

7.00 am

*Coprosma colensoi**Enargea marginata**Gaultheria antipoda* (fl) (rare)*Coprosma lucida* (single young plant)*Nothofagus fusca* (a few young plants)

2,300 ft, 7.20 am

*Polypodium**Senecio kirkii**Microlaena avenacea* (also seen 2,000-2,300 ft)*Elaeocarpus hookerianus* )*Nothofagus menziesii* ) uncom*Uncinia filiformis**Nertera**Senecio elaeagnifolius*

2,600 ft, 7.40 am  
8.00 am  
Polypodium diversifolium

2,855 ft, 8.15 am, TIRO TIRO KNOB  
Dracophyllum longifolium  
Gaultheria rupestris  
Podocarpus hallii  
Phormium colensoi  
Coprosma foetidissima  
" colensoi  
Olearia colensoi  
Senecio elaeagnifolius  
" arborescens  
Nothofagus menziexii  
" fusca  
Weinmannia racemosa (bud)  
Nothopanax sinclairii  
Hymenophyllum  
Blechnum procerum  
" discolor  
Astelia cockaynei  
Wintera colorata  
Uncinia filiformis  
Nothopanax arboreum  
Fuchsia excorticata  
Suttonia divaricata  
Podocarpus totara  
Scirpus cernuus  
Microlaena avenaces  
Gaultheria antipoda  
Enargea marginata  
8.35 am  
2,870 ft, 9.00 am, FIELD HUT  
9.20 am  
Stunted trees and shrubs  
Weinmannia racemosa (predom)  
Nothopanax arboreum  
Dracophyllum longifolium  
Podocarpus hallii  
Phormium colensoi  
Blechnum procerum  
Olearia colensoi  
Podocarpus totara  
Astelia cockaynei (fl)  
Gahnia cunninghamii ? pauciflora  
Danthonia flavescens  
Senecio elaeagnifolius  
Pimelia gnidia  
Hymenophyllum ~~sp~~  
Coprosma colensoi  
" pseudocuneata  
Nothopanax sinclairii  
Pimelia gnidia (fl)  
Ephrasia  
Hydrocotyle (hairy)  
Griselinia littoralis  
Polystichum vestitum  
Olearia lacunosa (12 ft high, girth 2 ft)

3,150 ft, 9.50 am  
*Coprosma foetidissima* (abund)  
*Suttonia divaricata*  
*Pittosporum rigidum* (fr & fl)

3,300 ft  
 Low shrubs  
*Astelia cockaynei* )plentiful  
*Danthonia flavescens* )  
*Pimelea gnidia*  
*Coprosma myrtifolia* (bud)  
*Olearia lacunosa*  
 " *arborescens*  
*Senecio elaeagnifolius*

3,400 ft  
*Anisotome dissectum*

3,550 ft TABLE TOP  
*Astelia cockaynei* (2 ft high) predominant  
*Phormium colensoi* )  
*Danthonia flavescens* ) abundant  
*Coprosma foetidissima*  
 " *pseudofuncata*  
*Pimelea gnidia*  
*Poa imvecilla*  
*Juncus antarcticus* (fl)  
*Uncinia uncinata*  
*Hypochaeris radicata*  
*Senecio elaeagnifolius*  
*Gentiana natula*  
*Epilobium pedunculare*  
*Gnaphalium traversii*  
*Anisotome dissectum*

11.15 am  
 Swampy patch:  
*Celmisia spectabilis*  
*Hebe buxifolia*  
*Juncus antarcticus*  
*Gnaphalium traversii*  
*Anisotome dissectum*  
*Cyathodes empetrifolium*  
*Pentachorda pumilla*  
*Astelia linearis* (fr & fl) (crimson fruit)  
*Juncus novae-zealandiae*  
 " *antarcticus*  
*Drosera stenopetala*  
*Oreobolus pectinatus*  
*Aciphylla colensoi* var. *conspicua*

3,600 ft  
*Hebe buxifolia* (fl)  
*Ranunculus geraniifolius* (fl)

4,000 ft, 12.15 am MOUNT DENNAN

*Astelia nervosa* (abund)  
*Danthonia flavescens* (plenty)  
*Phormium colensoi*  
*Olearia colensoi*  
*Senecio elaeagnisfolius*  
*Olearia arborescens*  
 " *lacunosa*  
*Anisotome dissecta* (fl) (plent)  
*Gentiana pqtula*  
*Gaultheria rupestris*  
*Aciphylla colensoi* var. *conspicua*  
*Luzula*  
*Coprosma depressa*  
*Helichyrum bellidioides*  
*Coprosma pseudocuneata*  
*Hebe evenosa*  
*Dracophyllum filifolium*  
*Euphrasia cuneata*  
*Nothopanax colensoi*  
*Danthonia raoulii*  
 " *gracilis*  
*Hierochloa redolens*  
*Senecio lagopus*  
*Celmisia spectabilis*  
*Coprosma ramulosa* ? *rugosa*? (rare)  
*Blechnum procerum* (intermediate)  
*Dracophyllum rasmarinifolium* (prostrate)  
*Olearia ilicifolia*  
*Ranunculus geraniifolius*  
*Senecio bidwillii*  
*Raoulia grandiflora* (fl)  
*Gaultheria depressa*  
*Phyllachne colensoi*  
*Microlaena colensoi*  
*Gaultheria depressa*

4,100 ft

*Hebe astoni*  
*Deyeuxia setifolia*  
*Chrysobactron hookeri*  
*Raoulia rubra*  
*Leucogenes leontopodium*  
*Celmisia hieracifolium*  
*Poa colensoi*  
*Lycopodium fastigiatum*

ca. 3.0 pm KIME HUT (4,600 ft)

Suppl. list of plants seen below Dennan:

*Schoenus pauciflorus*  
*Poa colensoi*  
*Coprosma repens*  
*Ourisia caespitosa*  
*Oreomyrrhis andicola*  
*Anisotome aromatica*  
*Scirpus cernuus*  
*Caltha novae-zealandiae*  
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*Nertera dichondraefolia*  
*Juncus novae-zealandiae*  
*Polypodium australe*  
 " *hillardieri*  
*Hymenophyllum demissum*  
 " *bivalve*  
*Lindsaya*

27.12.30

5.50 am Left KIME HUT  
 11.30 am Arr. ALPHA HUT, 3,600 ft  
 1.30 pm Left for MOUNT MERCHANT ridge

*Nothofagus menziesii* (stunted)  
*Senecio elaeagnifolius*  
*Glebaria lacunosa*  
 " *colensoi*  
 " *arborescens*  
*Coprosma foetidissima*  
 " *colensoi*  
 " *pseudocuneata*  
*Pittosporum rigidum*  
*Suttonia divaricata*  
*Astelia cockaynei*  
*Gaultheria depressa*  
*Pimelea gnidia*  
*Griselinia littoralis*  
*Uncinia unciniata*  
*Nothopanax sinclairii*  
*Euphrasia cuneata*  
*Scirpus cernuus*  
*Phormium colensoi*

3,750 ft, 1.50 pm  
*Nothopanax colensoi* ?  
*Danthonia flavescens*  
*Uncinia filiformis*

3,900 ft, 2.05 pm. HELLS GATES  
*Coprosma colensoi* (fr yellow)  
*Danthonia flavescens* (abund)

3,700 ft, 2.15 pm  
*Nothopanax edgerleyi*  
*Cordyline indivisa*  
*Coprosma foetidissima* (fr)  
*Geranium microphyllum*  
*Viola filicaulis*

3,500 ft  
*Ranunculus* (fl)  
*Luzula*  
*Hebe salicifolia*  
*Polystichum vestitum*  
*Blechnum procerum*

*Acaena sanguisorbae* var. *pusilla*  
*Fuchsia excorticata*  
*Astelia nervosa*  
*Cordyline indivisa*  
*Coprosma parviflora*  
*Hemitelia smithii*

3,320 ft, 2.35 pm UP  
*Leptopteris superba*  
*Astelia cockaynei*  
*Dracophyllum longifolium*  
*Enargea parviflora*  
*Coprosma pseudocuneata*  
 " *foetidissima*  
*Suttonia divaricata*  
*Griselinia littoralis*  
*Nothofagus menziesii* (stunted)  
*Senecio elaeagnifolius*  
*Phormium colensoi*  
*Nothopanax colensoi* ?  
*Pittosporum rigidum*  
*Gaultheria antipoda* var *depressa*  
*Hymenophyllum*

3,600 ft, track divides  
 3,650 ft, top of ridge (OMEGA)  
*Nothofagus menziesii* (6 ft high)  
*Dracophyllum longifolium* is the characteristic feature of an extensive  
 boggy area towards north. Number of large sphagnum patches.  
 Plenty of deer foot-marks.

*Lycopodium fastigiatum*  
*Abrotanella pusilla*  
*Celmisia spectabilis*  
*Carpha alpina*  
*Celmisia hieracifolia*  
*Uncinia uncinata*  
*Hymenophyllum*  
*Gaultheria antipoda* v. *depressa*  
*Olearia colensoi*  
*Danthonia raoulii*  
*Juncus antarcticus*  
*Astelia cockaynei* (stunted)

Up the track:  
*Olearia colensoi*  
*Scirpus cernuus*  
*Juncus antarcticus*  
*Oreobolus pectinatus*  
*Pentachondra pumilla*

3,620 ft, 3.20 pm  
*Dracophyllum longifolium*  
*Olearia colensoi*  
*Coprosma pseudocuneata*  
*Nothofagus menziesii* (3 ft)

*Phormium colensoi*  
*Carpha alpina*  
*Coprosma foetidissima*  
*Suttonia divaricata*  
*Scirpus cernuus*  
*Uncinia unciniata*  
*Senecio elaeagnifolius*  
*Hymenophyllum*  
*Blechnum procerum*

3,700 ft, 3.30pm OMEHA  
*Gaultheria antipoda* v. *depressa*  
*Pittosporum rigidum* (bud)

3.50 pm - turned back  
 4.05 pm - track meet - up BULL MOUND

*Olearia lacunosa*  
*Nothopanax menziesii*  
*Coprosma pseudocuneata*  
     "    *foetidissima*  
     "    *colensoi* (also hybrids?)  
*Dracophyllum longifolium*  
*Senecio elaeagnifolius*  
*Gaultheria antipoda* v. *depressa*  
*Phormium colensoi*  
*Blechnum procerum*  
*Suttonia divaricata*  
*Juncus antarcticus*  
*Scirpus cernuus*  
*Pittosporum rigidum*  
*Danthonia flavescens*  
*Celmisia spectabilis*  
*Nothofagus menziesii*  
 (all plants very stunted largest 2 - 3ft high)  
*Juncus antarcticus* )  
*Coprosma repens* ) Boggy patch  
*Epilobium* )  
*Juncus lampocarpus* )  
*Oreomyrrhis andicola* )  
*Abrotanella pusilla* )  
*Hebe buxifolia*

#### NORTH SLOPE

*Euphrasia revoluta* (fl)  
*Cyathodes cypripetifolia*  
*Oreobolus pectinatus*  
*Coprosma repens*  
*Celmisia spectabilis*  
     "    *hieracifolia*  
*Pentachondra pumilla*  
*Astelia cockaynei* (stunted)  
*Carpha alpina*  
*Astelia linearis* (fl & fr)  
*Ranunculus geraniifolius*

*Phyllachne colensoi*  
*Danthonia racoulli*  
 C

C L :

*Celmisia hieracifolia*  
*Raoulia grandiflora*  
*Danthonia raoulii*  
*Celmisia hieracifolia*  
*Poa colensoi*  
*Anisotome aromatica* (fl)

3,650 ft, BULL MOUND

*Gaultheria antipoda* v. *depressa*  
*Poa colensoi* (fl)  
*Celmisia hieracifolia* (f & fl)  
*Oreobolus pectinatus*  
*Anisotome aromatica* (fl)  
*Pittosporum rigidum*  
*Coprosma parviflora*  
*Nothopanax menziesii*  
*Dracophyllum longifolium*  
*Euphrasia cuneata* ?  
*Celmisia spectabilis*  
*Lycopodium fastigiatum*  
*Raoulia grandiflora*  
*Coprosma pseudocuneata*  
*Ranunculus geraniifolius*  
*Coprosma repens*  
*Hebe buxifolia*  
*Danthonia raoulii*  
*Astelia linearis*  
*Pentachondra pumill*<sub>n</sub>  
*Plantago brownii*  
*Juncus novae-zealandiae*  
*Carpha alpina*  
*Senecio bidwillii*  
*Anisotome dissecta*  
*Danthonia flavescens*

3,700 ft top of BULL MOUND

NW of top if almost bare

SE - stunted *Nothofagus menziesii* & *Dracophyllum longifolium*.

*Senecio elaeagnifolius* is also plentiful.

Over the top. Ridge wide and boggy

*Gaultheria rupestris*  
*Suttonia divaricata*  
*Phormium colensoi*  
*Juncus antarcticus*  
*Oreomyrrhis andicola* (fl)  
*Ourisia caespitosa* ?  
*Juncus lampocarpus*  
*Astelia linearis*  
 3,600 ft

3,550 ft

*Carpha alpina* (plentiful)

5,30 pm Ridge divides. Turn back. Alpha Hut 6.30 pm.

While there was only a mild breeze over Omega, the wind blew with a force of a gale over Bull Mound.

## ALPHA HUT, 3,660 ft

7.35 am Started up Mt Alpha

7.50 am 3,900 ft *Nothofagus menziesii* and shrub line.

*Danthonia flaccescens* (predom)  
*Microlaena colensoi*  
*Carpha alpina*  
*Celmisia spectabilis*  
*Celmisia hieracifolia*  
*Dracophyllum uniflorum*  
*Olearia colensoi* (up to 2 ft cushions)  
*Ranunculus geraniifolius*  
*Anisotome dissecta*  
*Raoulia grandiflora*  
*Oreobolus pectinatus*  
*Pimelia gnidia*  
*Epilobium pedunculare*  
*Pentachondra pumilla*  
*Astelia linearis*  
*Coprosma pseudocuneata*  
*Astelia cockaynei*  
*Schoenus pauciflorus* (plenty in places)  
*Dracophyllum longifolium* (few)  
*Drapetes diffenbachii*  
*Drosera stenopetala*  
*Suttonia nummularia*  
*Hebe buxifolia* (few)  
*Phormium colensoi* (fl)  
*Euphrasia revoluta*

The appearance of vegetation is very xerophytic even about springs.

## 4,000 ft

*Danthonia raoulii*  
*Euphrasia revoluta* (Waiopehu ?)  
*Gentiana ptula*  
*Gaultheria antipoda* v. *depressa*  
*Pittosporum rigidum* (bud)  
*Senecio bidwillii*

## 4,020 ft, East slope so far

South slope (very steep and rocky)

*Nothofagus menziesii* up to 4,020 ft.

Vegetation is much the same as before but more stunted and not so very xerophytic. *Danthonia raoulii* more frequent.

*Caltha novae-zealandiae*  
*Hebe astoni*  
*Chrysobactron hookeri*  
*Leocogenes leontopodium*  
*Helichrysum bellidioides* (bud)  
*Lycopodium fastigiatum*  
*Hymenophyllum*  
*Luzula*  
*Epilobium*  
*Aciphylla colensoi* v. *conspicua*  
*Poa colensoi*  
*Senecio lagopus*  
 Prevalent wind along the slope W to E. Predominant species here

Olearia colensoi  
 Senecio bidwillii  
 Dracophyllum uniflorum  
 Danthonia raoulii  
 " flavescens also common

4,300 ft

E slope near the top of Alpha is much the same as just above bush line but more grassy. Additions are:

Phyllachne colensoi  
 Anisotome aromatica

4,500 ft, 9.15 am ALPHA (top)

9.25 am down the ridge to Quoin. Ridge runs N to S. Both E & W slopes are covered (chiefly) by Danthonia raoulii and Astelia cockaynei. There are very few shrubs. Extensive patches of Danthonia flavescens are present. There is no evidence of strong wind on either side of the ridge except that the W side is windswept down for about 20 ft. Here Dracophyllum uniflora is common.

4,350, 9.40 am - KNOB

Raoulia grandiflora  
 Anisotome dissecta  
 " aromatica  
 Oreomyrrhis indicola  
 Celmisia spectabilis  
 Danthonia raoulii  
 Dracophyllum uniflora  
 Phyllachne colensoi  
 Luzula (fl)  
 Gaultheria antipoda v. depressa  
 Astelia cockaynei  
 Poa colensoi  
 Aciphylla colensoi v. conspicua  
 Drapetes dieffenbachii

NEXT KNOB

Raoulia rubra  
 Pentachondra pumilla

NEXT KNOB

Leucogenes leontopodium  
 Microglena colensoi

STEEP FACE SE

No evidence of wind. Vegetation very xerophytic in appearance. Soil shingly and dry.

Danthonia raoulii	) 1'6" high
Olearia colensoi	) predominant
Senecio bidwillii	) open
Celmisia spectabilis	)
Astelia cockaynei (stunted)	) common
Hebe astoni	)
Dracophyllum uniflorum	
Anisotome dissectum	
Euphrasia revoluta	
Chrisobactron hookeri	
Celmisia hieracifolia	
Geranium	
Plantago	(common)

Hymenophyllum  
 Poa colensoi (common)  
 Epilobium pedunculare  
 Ranunculus geraniifolius  
 Luzula  
 Helichrysum bellidioides  
 Gaultheria antipoda var depressa

4,150 ft, 10.15 am KNOB, ridge divides. Down left ridge no sign of wind. Veg. chiefly *Danthonia raoulii*, *Astelia cockaynei*, also *Dracophyllum uniflorum*. Very close association. Burned. *Nothofagus menziesii* line about 4,050 ft.

Down to QUOIN  
*Nothofagus menziesii* begins at 3,800 ft

3,700 ft, saddle.  
 Ridge runs SW to NE. Gentle breeze from NW.

NW SLOPE  
 Chiefly *Danthonia flavescens*, *Astelia cockaynei*, *Dracophyllum longifolium*, *D. uniflorum*

SE SLOPE  
*Senecio elaeagnifolius*, *Olearia colensoi*, *O. lacunosa*, *Dracophyllum longifolium*, *D. uniflorum*. *Nothofagus menziesii* comes up higher.

4,010 ft QUOIN, 11.45 am  
 12.05 am Ridge divides 3,800 ft  
 Wind is from W (NW?) apparently never strong.  
*Nothofagus menziesii* 10-15 ft high (fairly open)  
*Senecio elaeagnifolius*  
*Coprosma pseudocuneata*  
 " foetidissima  
 Hymenophyllum

12.20 Turn back  
*Olearia colensoi*  
*Coprosma colensoi* (first seen)  
*Pittosporum rigidum*  
*Dracophyllum longifolium*  
*Phormium colensoi*  
*Uncinia uncinata*  
*Olearia lacunosa*  
~~*Nothopanax*~~ *sinclairii*  
*Suttonia divaricata*  
*Pentachondra pumilla* )  
*Danthonia flavescens* )  
*Carpha alpina* ) open patch  
*Juncus antarcticus* )  
*Astelia cockaynei*

3,850 ft *Nothofagus menziesii* line on the NW side of the ridge.

Up the ridge to QUOIN. Wind from West. WEST FACE. Wind direction well defined, never very strong, soil shingly.  
*Danthonia flavescens* (predom)  
*Olearia colensoi*  
*Nothofagus menziesii* (up to 3 ft h)  
*Carpha alpina* (plenty)  
 Ast

*Astelia cockaynei*  
*Pentachondra pumilla*  
*Celmisia spectabilis*  
*Microlaena colensoi*  
*Dracophyllum longifolium*  
*Oreobolus pectinatus*  
*Drosera stenopetala*  
*Pimelea gnidia*  
*Suttonia nummularia*

3,950 ft limit of *Nothofagus menziesii* on E side of the ridge.

4,000 ft up along the ridge. Soil grey, soft, damp.

*Carpha alpina* (predominant)  
*Celmisia spectabilis* (plenty)  
*Danthonia flavescens*  
*Olearia colensoi*  
*Dracophyllum longifolia*  
     "    *uniflorum*  
*Pentachondra pumilla*  
*Astelia cockaynei*  
*Pimelea gnidia*  
*Epilobium pedunculare*  
*Phyllachne colensoi*  
*Ranunculus tenuicaulis* (fl)  
*Uncinia uncinata* ?  
*Aciphylla colensoi* v. *conspicua* (bud)  
*Oreobolus pectinatus*  
*Drosera stenopetala*  
*Forstera*  
*Suttonia nummularia*  
*Astelia linearis*  
*Caladenia bifolia*  
*Bentiana bellidioides*  
*Poa colensoi* ? *Fescue*?  
*Anisotome aromatica*  
*Raoulia grandiflora*  
*Microlaena colensoi*  
*Luzula*  
*Abrotanella pusilla*  
*Claytonia australasica*

QUOIN. The top is boggy. Westward side id windworn, shingly.  
 Vegetation nowhere taller than 6" except *Danthonia* 1'6" h.

*Danthonia flavescens* ) Predom on W side  
     "    *raoulia* )  
*Carpha alpina* (predominant elsewhere)  
*Celmisia spectabilis* (com)  
*Dracophyllum uniflorum*  
*Raoulia grandiflora*  
*Senecio lugopus* (uncom)  
*Luzula*  
*Schoenus pauciflorus*  
*Abrotanella pusilla*  
*Coprosma repens*  
*Anisotome aromatica*  
*Ranunculus tenuicaulis*  
*Epilobium pedunculare*  
*Pentachondra pumila*

*Oreobolus pectinatus*  
*Astelia linearis*  
*Phyllachne colensoi*  
*Drosera stenopetala*  
*Caladenia bifolia*  
*Microlaena colensoi*  
*Cyathodes empetrifolia*  
*Epilobium cockaynei*  
*Caltha novae-zealandiae*  
*Poa* " "  
*Scirpus aucklandicus*  
*Astelia cockaynei*  
*Pimelea gnidia*  
*Euphrasia revoluta* (fl)  
*Claytonia australasica*  
*Forstera*  
*Drapetes dieffenbachii*  
*Deyeuxia setifolia*  
*Juncus antarcticus*  
*Aciphylla colensoi* v. *conspicua* (bud)  
*Gnaphalium traversii*

1.5 pm Left QUON for top of ALPHA  
 3,950 ft KNOB

*Ourisia colensoi* )  
*Poa imbecilla*  
*Gaultheria antipoda* v. *depressa*  
*Hypochaeris radicata*

3,550 ft Saddle  
*Olearia lacunosa* (abund)  
*Coprosma foetidissima* )  
     " *pseudocuneata* ) plentiful  
     " *colensoi* - apparently ABSENT altogether  
*Cordyline indivisa* (abund down N face)  
*Uncinia uncinata* ?  
*Ranunculus hirtus* (Hells Gates)  
*Epilobium nummularifolium*  
*Leptopteris superba*  
*Scirpus cerbuius*  
*Fuchsia excorticata*  
*Nertera* (glabrous)  
*Gaultheria rupestris*  
*Coprosma depressa*  
     " *parviflora*

4,550 ft, 4.00 pm. ALPHA  
 Very similar in character to Quoin, less in extent.

*Danthonia flavescens*  
     " *raoulii*  
*Celmisia spectabilis*  
     " *hieracifolia*  
     " " v. *oblonga*  
*Plantago*  
*Caltha novae-zealandiae*  
*Microlaena colensoi*  
*Drapetes dieffenbachii*  
*Schoenus pauciflorus*  
*Anisotome dissecta*  
     " *aromatica*  
     "

*Raoulia grandiflora*  
*Phyllachne colensoi*  
*Pentachondra pumila*  
*Gaultheria antipoda* v. *depressa*  
*Leucogenes leontopodium*  
*Coprosma repens*  
*Dracophyllum uniflorum*  
*Chrysobactron hookeri*  
*Carpha alpina*  
*Epilobium pedunculare*  
*Oreobolus pectinatus*  
*Astelia cockaynei*  
*Astelia linearis*  
*Pimelea gnidia*  
*Drosera stenopetala*  
**Forsters**  
*Ranunculus geraniifolius*  
*Lycopodium fastigiatum*  
*Juncus antarcticus*

NORTH FACE (of ALPHA) is much like the top, at 4,450 ft one or the other *Danthonia* becomes almost exclusive.

Down a stream: 4,200 ft

*Olearia colensoi*

" *lacunosa*

*Dracophyllum longifolium*

*Danthonia flavescens*

*Aciphylla colensoi* v. *conspicua*

The above plants are abundant, other plants as at Alpha Hut.

*Nothofagus menziesii* soon joins in.

4,100 ft Single, vigorous plant of *Hoheria sexstylosa* noted.

Several shrubs of *Hebe evenosa*, plenty of *Ourisia macrophylla* and

*Olearia ilicifolia* - *macrodonata* ?. *Veronica catarractae*, also

*Hebe evenosa* and *Coprosma parviflora*.

4,050 ft Out on the open spur to tarn 3,900 ft (limit of *Nothofagus menziesii*). Tarn quite free from plants except some *Scirpus* round the edges submerged completely in water.

Sheltered E SLOPE near *Nothofagus* has very dense association of grass 2' to 3'6" high.

*Danthonia flavescens* (predomin)

" *raoulii*

*Aciphylla colensoi* v. *conspicua*

*Hebe buxifolia* (few)

*Carex* sp.

ALPHA HUT 7 p.m.

29.12.30

7.00 am Left Alpha Hut, 3,660 ft

Down the watercourse:

*Nothofagus menziesii*

*Senecio elaeagnifolius*

*Nothopanax sinclairii*

" *simplex*

*Coprosma pseudocuneata*

Coprosma foetidissima  
 Polystichum vestitum  
 Leptopteris superba  
 Coprosma colensoi  
 Blechnum procerum  
 Uncinia filiformis  
 " uncinata  
 " sp

Phormium colensoi  
 Suttonia divaricata (fr)  
 Astelia nervosa  
 Olearia lacunosa  
 Nothopanax arboreum ?  
 Danthonia flavescens  
 Olearia colensoi  
 Griselinia littoralis  
 Pittosporum rigidum  
 Hymenophyllum

3,560 ft Turn back @ 7.25 am

7.40 Left ALPHA HUT  
 NORTH ridge of ALPHA  
 Poa colensoi frequent

4,550 ft, 9.40 am. DRESS CIRCLE  
 Wind NWN very strong but apparently from unusual direction. Fog creeping.

Down to MOUNT ELDER  
 3,920 ft Nothofagus menziesii line  
 3,500 ft Wintera colorata (single plant seen)

3,350 ft, 10.35 am, Saddle  
 Nothofagus menziesii 25ft h  
 Hymenophyllum (profuse)  
 Danthonia flavescens  
 Astelia nervosa (com)  
 " cunninghamii (com)  
 Griselinia littoralis  
 Coprosma foetidissima  
 " colensoi  
 " pseudocuneata  
 Senecio elaeagnifolius  
 Pittosporum rigidum  
 Nothopanax arboreum )  
 " sinclairii ) also hybrids?  
 Blechnum procerum  
 Leptopteris superba  
 Wintera colorata  
 Hemitelesia smithii  
 Phormium colensoi  
 Polystichum vestitum  
 Suttonia divaricata  
 Uncinia filiformis  
 Asplenium flaccidum  
 Uncinia uncinata

3,520 ft  
 Olearia colensoi  
 Nertera dichondraefolia

3,640 ft  
*Dracophyllum longifolium*

3,780 ft, 11.20 am, MOUNT ELDER  
 Wind from west, fairly strong but app. never very strong. Both  
 slopes equal in steepness, vegetation similar.  
*Nothofagus menziesii* up to 4 ft high  
*Dracophyllum longifolium*  
*Olearia colensoi*  
*Danthonia flavescens*  
*Astelia cockaynei*  
*Celmisia spectabilis*  
*Carex* sp?  
*Phormium colensoi*  
*Carpha alpina*  
*Senecio lagopus*  
*Coprosma pseudocuneata*  
*Oreobolus pectinatus*  
*Pentachondra pumila*  
*Lycopodium fastigiatum*  
*Gaultheria depressa*  
*Pittosporum rigidum*

11.30 am. Turn back to DRESS CIRCLE  
 4,600 ft Top of DRESS CIRCLE, 1.00 pm.

5,000 ft, 2.15 pm VOSSELER (ATKINSON)  
*Ranunculus geraniifolius* (Mt Quoin var. was seen between Alpha and  
 Dress Circle only, Mt Dennan var. is to be seen here.  
*Anisotome dissecta* )  
 " *aromatica* ) abundant  
*Oreomyrrhis andicola*

4,750 ft, 2.30 pm. Down EAST RIDGE - very steep rocky ridge.  
 Wind from south.

NORTH SIDE:

*Senecio bidwillii*  
*Olearia colensoi*  
*Dracophyllum uniflorum*  
*Celmisia spectabilis*  
*Danthonia flavescens*  
*Anisotome dissecta*  
*Schoenus pauciflorus*  
*Leucogenes leontopodium*  
*Microlaena colensoi*  
*Danthonia raoulii*  
*Astelia cockaynei*

SOUTH SIDE:

*Danthonia raoulii*  
*Raculia rubra*  
 " *randiflora*  
*Phyllachne colensoi*  
*Anisotome dissecta*  
 " *aromatica*  
*Ranunculus geraniifolius* (Dennan)  
*Drapetes dieffenbachii*  
*Pentachondra pumila*  
*Celmisia spectabilis*  
 " *hieracifolia*  
*Callitha novae-zealandiae*

*Plantago brownii*  
*Carpha alpina*  
*Abrotanella pusilla*  
*Coprosma repens*  
*Dracophyllum uniflorum*  
*Schoenus pauciflorus*  
*Leucogenes leantopodium*  
*Poa colensoi*  
*Poa imbecilla*  
*Euphrasia revoluta*  
*Lycopodium fastigiatum*

Other species to be seen about Vosseler (ATKINSON)

*Astelia linearis*  
*Oreobolus pectinatus*  
*Abrotanella pusilla*  
*Hebe astoni*  
*Coprosma depressa*  
*Senecio lagopus*  
*Poa novae-zealandiae?*  
*Oreomyrrhis andicola* v. *colensoi*  
*Aciphylla colensoi*  
*Suttonia nummularia*  
*Scirpus aucklandicus*  
 On to Hector 3.20 pm

bag  
 5,250/(5016ft), 4.00 pm, HECTOR  
 4,600 (4820 bar) KIME HUT, 4,30 pm  
 Fog very dense and course. Start raining at 7.15 pm

(TO END PAGE 71, V.ZOTOV)

30.12.30

Fog very dense, light breeze from N  
 4,650 ft, 8.10 am, NW slope of MOUNT FIELD

<i>Danthonia flavescens</i> (predom)	)	
<i>Astelia linearis</i>	)	
<i>Schoenus pauciflorus</i>	)	
<i>Celmisia spectabilis</i>	)	
<i>Anisotome dissectum</i>	)	
<i>Phyllachne colensoi</i>	)	all very common
<i>Raoulia grandiflora</i>	)	
<i>Oreobolus pectinatus</i>	)	
<i>Danthonia raoulii</i>	)	
<i>Dracophyllum uniflorum</i>	)	
<i>Caltha novae-zealandiae</i>	)	
<i>Carpha alpina</i>	)	
<i>Drapetes dieffenbachii</i> (fl)	✱	
<i>Pentachondra pumila</i>	)	
<i>Suttonia nummularia</i>	)	
<i>Senecio lagopus</i>	)	
<i>Microlaena colensoi</i>	)	
<i>Coprosma repens</i>	)	
<i>Anisotome aromatica</i>	)	
<i>Aciphylla colensoi</i> v. <i>conspicua</i> (rare)	)	
<i>Celmisia hieracifolia</i> (rare)	)	
<i>Ranunculus geranii folius</i> (" ) (fl)	)	
<i>Apilobium pedunculare</i>	)	
Steepness 28 - 30°		

SOUTH SLOPE (FIELD), slightly higher, steepness 50-60°

Signs of severe upward wind  
*Danthonia raoulii* (in big patches)  
*Dracophyllum uniflorum* (plentiful)  
*Anisotome dissecta* (plentiful)  
*Celmisia hieracifolia* (v. com)  
 " *spectabilis* (com)  
*Hebe astoni*  
*Raoulia rubra* (abundant on rocks)  
*Euphrasia cuneata* (fl) (com)  
*Ourisia caespitosa* (fl) (com)  
*Coprosma depressa* (fl & fr)  
 " *repens*  
*Luzula*  
*Poa colensoi*  
*Claytonia australasica* (Shingle slip)

M

*Microlaena colensoi*  
*Gaultheria antipoda* v. *depressa*  
*Aciphylla colensoi* v. *conspicua* (rare)  
*Leucogenes leontopodium*  
*Anisotome aromatica*  
*Danthonia flavescens*  
*Ranunculus geraniifolius* (Dennan var.)  
*Poa colensoi*  
*Forstera bidwillii*  
*Ranunculus hirtus*  
*Epilobium pedunculare*  
*Hymenophyllum* (common on rocks)  
*Senecio bidwillii*

4,850 ft, 9.50 am, top of FIELD PEAK unlike any peak so far seen  
 Steepness 35 - 40° on N side, 50 - 70° on other sides  
 Much weather-worn all round wind irregular, whirling. Rocky and shingly,  
 slips on S and terraces on N.

Vegetation same all round except SE which is most sheltered, here  
*Danthonia*, *Olearia bidwilliae*, *Hebe astoni* and *Dracophyllum* grow in  
 dense association.

<i>Danthonia raoulii</i>	)	
<i>Raoulia rubra</i>	)	
<i>Phyllachne colensoi</i>	)	
<i>Poa colensoi</i>	)	predominant
<del>For</del> <i>Leucogenes leontopodium</i>	)	
<i>Anisotome dissecta</i>	)	

*Celmisia spectabilis*  
*Danthonia flavescens* (v. few)  
*Hebe astoni*  
*Luzula* (fl)  
*Pentachondra pumila*  
*Gaultheria depressa*  
*Celmisia hieracifolia*  
*Raoulia grandiflora*  
*Microlaena colensoi*  
*Lycopodium fastigiatum*  
*Ranunculus geraniifolius*  
 (Cyperace (Alpha tarn) in rocks on top)

*Euphrasia revoluta*  
*Ourisia caespitosa*  
*Anisotome aromatica*  
*Carpha alpina*  
*Drapetes dieffenbachii*  
*Coprosma repens*  
*Caltha novae-zealandiae*  
*Schoenus pauciflorus* (few)  
*Epilobium pedunculare*  
*Oreobolus pectinatus*  
*Plantago brownii* (fl)  
*Senecio lagopus*  
*Gentiana bellidifolia*  
*Astelia linearis*  
*Abrotanella pusilla*  
*Astelia cockaynei*  
*Coprosma depressa* (in shelter)  
*Carex ? Uncinia ?*  
*Chrysobactron hookeri* (in shelter)  
*Aciphylla colensoi* v. *conspicua* (in shelter)  
*Senecio bidwillii* "  
*Ranunculus insignis*  
*Cotula pyrethrifolia* (fl) (in similar situations to *R. insignis*)  
*Leucogenes leontopodium*

Shingle slip near the top on S side:

*Juncus antarcticus*  
*Cardamine hirsuta*  
*Oreomyrrhis andicola*  
*Poa colensoi*  
*Cololeanthus*  
*Luzula*  
*Claytonia australasica*  
*Anisotome aromatica* (few)  
*Raoulia rubra* (up to 1 ft h on the top)

1,650 ft, SOUTH SLOPE

Anisotome dissecta  
 Leocogones leontopodium  
 Celmisia spectabilis  
 " hieracifolia

Danthonia raoulii

Dracophyllum

Senecio bidwillii

Coprosma depressa

The above are the most important

Ranunculus geraniifolius )

Cotula pyrethrifolia ) are ABSENT

Below this Olearia colensoi and Danthonia flavescens mix in.

Also seen: Geranium

4,600 ft, NORTH SIDE

Danthonia flavescens (pred.)

Dracophyllum uniflorum )

Anisotome dissecta ) next most important

Schoenus pauciflorus )

Celmisia spectabilis )

4,980ft bar (5,016) 2.00 pm HECTOR

S, W, & N-W portions are severely wind worn to the middle of the crest.

Westerly wind apparently prevailing.

Steepness on W & S sides 50-75° or more,

N & E 25° - 40°. There are big slips on steep sides.

TOP (of HECTOR)

Phyllachne colensoi

Raoulia grandiflora (fl)

Ourisia caespitosa (fl)

Caltha novae-zealandiae (fl & past)

Anisotome dissecta (fl)

Gaultheria depressa

Poa colensoi

Loocogenes leontopodium ~~on rock~~

Danthonia raoulii (scattered)

Raoulia rubra (freq)

Ranunculus insignis (fl)

Celmisia spectabilis

" hieracifolia

Oreomyrrhis andicola

Cotula pyrethrifolia

Juncus Antarcticus

Epilobium pedunculare

Hydrocotyle (Field)

Lycopodium fastigiatum

Coprosma repens

Anisotome aromatica

Drapetes dieffenbachii

Ranunculus geraniifolius

Senecio lagopus

Geranium microphyllum

Dracophyllum uniflorum

Schoenus pauciflorus

Hebe astoni

Hymenophyllum

Astelia nervosa (at 4,850ft)

Coprosma depressa

Loocogenes leontopodium (pred. on r)

Plantago brownii

Celmisia hieracifolia v. oblonga

Euphrasia revoluta

Forstera bidwillii

Claytonia australasica

Chrysobactron hookeri

Schizeilema hydrocotyloides (Field)

Epilobium cookianum

Luzula

Poa novae-zealandiae

Scirpus aucklandicus

Uncinia compacta

Carex acicularis ? (com)

Cololeanthus

Gentiana bellidioides

Gaimardia ciliata

*Helichrysum bellidioides* (sh. slip)  
*Raoulia loganii* (single plant)  
 Plants common on shingle slips:  
*Cotula pyrethrifolia*  
*Cardamine hirsuta*  
*Ranunculus insignis*  
*Oreomyrrhis andicola*  
*(Viola filicaulis)*

## EAST SIDE (of HECTOR)

*Danthonia raoulii* )  
*Anisotome dissecta* ) predom. in  
*Schoenus pauciflorus* ) open assoc.  
*Celmisia spectabilis* )  
*Dracophyllum uniflorum*  
*Pentachondrypumila*  
*Hebe astoni*  
*Senecio lagopus*  
*Chrysoacton hookeri*  
*Ranunculus geraniifolius*  
*Astelia linearis*  
*Leucogenes leontopodium*  
*Senecio bidwillii*  
*Microlaena colensoi*  
*Caltha novae-zealandiae*  
*Dracopetes dieffenbachii*  
*Anisotome aromatica*  
*Celmisia hieracifolia* (v. uncom)  
*Carex* as on the other side  
*Phyllachne colensoi*  
*Coprosma repens*  
*Carpha alpina*  
 (Grass perpendicular to slope)

## NE ROCKY SPUR (of HECTOR)

Here *Raoulia rubra* is common also *Celmisia hieracifolia* & *Phyllachne colensoi*.

4.45 pm Down HECTOR RIDGE. (NEILL RIDGE)

West side of crest is wind worn  
*Raoulia rubra*  
*Phyllachne colensoi*  
*Raoulia grandiflora*

4,920 ft, 4.55 pm KNOB

*Astelia cockaynei* ) predom  
*Danthonia raoulii* )

4,750ft, 5.15 pm

Ridge very steep, both sides with a number of big slips. *Ranunculus insignis* was seen on two slips on S side only. Prevailing wind is from N-W (?) downwards. *Danthonia flavescens* grows luxuriantly after each knob.

Cycoerace on rocks.

4,600 ft, 5.45 pm

Vegetation is much the same throughout *Danthonia flavescens* either predominant or exclusive.

6.00 pm Turn back to HECTOR.

The Hector ridge affords a striking example to illustrate the effects of wind on distribution of plants. The ridge runs from Hector eastward and this is the direct of the prevalent winds. The ridge is equally steep (about 60°) on both sides and with a number of big slips on both sides. As the wind changes from side to side between various knobs so do the associations of plants.

The associations are almost identical to those on Hector except that *Ranunculus insignis* was seen only on slips on southern faces, and that *Danthonia flavescens* starts from the altitude 4,850 ft down while on Hector its limit is about 4,600 ft.

It is also observed that whenever *Danthonia flavescens* and *D. raoulii* meet on a ridge the latter always takes the windy side.

31.12.30

KIME HUT 4,600 ft, Left 7.45 am for Crawford

Saddle 3,650 ft

Kjob 3,960 ft.

Danthonia flavescens  
 Olearia colensoi  
 Dracophyllum langifolium ) predominant

Saddle 3,600 ft

Scrub with

Olearia colensoi

Nothopanax colensoi predominant up to 6ft h.

*Dracophyllum* PK  
 4350 (No. 11)  
 → 2 pm. Herbar

Plants on pinnacles:

Danthonia raoulii

" flavescens

Olearia colensoi

Anisotome dissecta

Senecio lagopus (plentiful)

Ranunculus geraniifolius

" insignis (on shingle slip. N.W.)

Caltha novae-zealandiae

Astelia cockaynei

" linearis

Poa colensoi

Gaultheria antipoda depressa

Suttonia nummularia

Oreomyrrhis andicola

Schoenus pauciflorus

Chrysobactron hookeri

Caladenia bifolia

Raoulia rubra

Pentachondra pumila

Phyllachne colensoi

Aciphylla colensoi v. conspic.

Anisotome aromatica

Carpha alpina

Carex ? uncinia ?

Drapetes dieffenbachii

Raoulia grandiflora

Celmisia spectabilis

" hieracifolia

Ourisia macrophylla (fl)

Oreobolus pectinatus

Pittosporum rigidum

Pimelea gnidia

Coprosma repens

Nothopanax colensoi )saddle about 3,650 ft

Coprosma foetidissima)

" pseudocuneata

" depressa

Gentiana bellidioides

Cardamine hirsuta

Luzula (Mt)

" (low-ld)

Ranunculus hirtus

Senecio latifolius

Centrolepis viridis

Most common plants to be seen throughout in order of frequency:

Danthonia flavescens

Olearia colensoi

Schoenus pauciflorus

Senecio lagopus

Anisotome dissecta

Astelia linearis

Celmisia spectabilis

Ranunculus geraniifolius

Raoulia rubra does not seem to be lower than about 4,000 ft.

Dense associations of *Olearia colensoi* often climb right to the top in sheltered places.

*Danthonia flavescens* usually grows very luxuriant on tops and is quite green. The soil is usually saturated with water. In some such places especially just after the 1st saddle on S face there are dense associations of *Schoenus pauciflorus* and *Olearia colensoi*, which does not grow more than 6" h.

Down the 1st saddle on the banks of stream 3,300 ft

*Ranunculus insignis* (fl) (v. luxuriant)

*Hebe salicifolia*

*Coriaria lurida*

*Gentiana bellidioides*

*Senecio latifolius*

*Ourisia macrophylla*

*Copposma repens*

*Veronica catarractae*

*Viola filicaulis*

*Hierochloa redolens*

*Helichrysum bellidioides*

*Polypodium billardieri*

The whole ridge to Tararua is equally steep on both sides. At first the steepness is about of 45° but later of 60° or more. The prevailing wind is N or NW but occasionally the opposite though nowhere severe.

1. 1. 1931

KIME HUT, left at 11.0 am for FIELD

Half way up Field Peak. Down the SOUTH face along stream course 4,300 ft.

*Ranunculus insignis* (fl) abundant

*Caltha pyrethrifolia* (fl)

*Helichrysum bellidioides* (bud)

*Schizaeilema hydrocotyloides* (fl)

*Senecio elaeagnifolius*

*Oreomyrrhis andicola*

*Danthonia raoulii*

" *flavescens*

*Luzula* (mt) (fl)

*Senecio lagopus*

*Ranunculus geraniifolius* (fl)

*Celmisia spectabilis*

*Coprosma depressa* (fr & fl)

*Senecio bidwillii*

*Ourisia macrophylla*

*Anisotome dissecta*

*Polystichum vestitum*

*Olearia colensoi*

*Epilobium pedunculare*

*Euphrasia cuneata*

*Ourisia caespitosa*

*Geranium microphyllum*

*Poa anceps*

*Hierochloa redolens* (fl)

*Chrysobactron hookeri*

*Veronica catarractae*

*Uncinia*

*Poa colensoi*

*Celmisia hieracifolia*

*Geum parviflorum*

*Gentiana bellidioides*

*Epilobium* sp.

*Viola filicaulis*

*Caltha novae-zeal*

*Forstera bidwillii*

*Hymenophyllum*

*Microlaena colensoi*

*Agrostis ~~dyeri~~ dyeri*

*Schizaeilema* sp. (sm. lvd. also Hector)

*Aciphylla colensoi* v. conspic

*Pittosporum rigidum*

*Hebe evenosa*

*Montia fontana*

*Poa anceps*

" *umbellata*

" "

Gaultheria depressa  
 Coprosma pseudocuneata  
 Cololeanthus  
 Coriaria lurida

3,850 ft  
 Aciphylla squarrosa  
 Acaena sanguisorbae v. pusilla?  
 Senecio elaeagnifolius  
 Olearia lacunosa  
 Nothopanax colensoi  
 Montia fontana (fl)  
 Poa imbecilla

3,750ft  
 Olearia arborescens

3,650 ft  
 Coprosma foetidissima  
 Aristotelia fruticosa  
 Griselinia littoralis

3,600 ft  
 Numerous waterfalls of 20 & more feet.  
 2.15 pm Turn back  
 Nothofagus menziesii is about 100 ft below

3.15 pm Kime Hut

(END OF PAGE 90 - VDZOTOV)

N of FIELD PEAK & S of WEST PEAK vegetation identical