

Jones, over aspects of this species' distribution, taxonomy, and conservation status. Gillian Crowcroft provided the photographs used for Figures 2 & 4.

## References

- Allan, H.H. 1961: Flora of New Zealand Vol. 1. Wellington, Government Printer.
- Beadel, S.M. 1988: A register of threatened plant and local plant taxa in the eastern region, department of conservation, their distribution and status. Technical Report Series 6. Rotorua, Department of Conservation.
- Cameron, E.K.; de Lange, P.J.; Given, D.R.; Johnson, P.N. & Ogle, C.C. 1993: New Zealand threatened and local plant lists (1993 Revision). *New Zealand Botanical Society Newsletter* 32: 14-28.
- Cheeseman, T.F. 1925: Manual of the New Zealand flora . Wellington, Government Printer.
- Connor, H.E. 1977: The poisonous plants in New Zealand . Wellington, Government Printer.
- Connor, H.E. & Edgar, E. 1987: Name changes in the indigenous New Zealand Flora, 1960-1986 and Nomina Nova IV, 1983-1986. *New Zealand Journal of Botany* 25: 115-170.
- de Lange, P.J. 1988: New records from the general Waikato. *New Zealand Botanical Society Newsletter* 12: 8 -9.
- de Lange, P.J. 1990: Additions and confirmations to the flora of Great Barrier Island. *Auckland Botanical Society Journal* 45: 22-23.
- Johnson, P. & Brooke, P. 1989: Wetland plants in New Zealand. Wellington, DSIR Publishing.
- Webb, C.J., Sykes, W.R. & Garnock-Jones, P.J. 1988: Flora of New Zealand, Vol. IV. Christchurch, Botany Division, DSIR.
- Wilson, C.M. & Given, D.R. 1989: Threatened plants of New Zealand. Wellington, DSIR Publishing.

## Additional Notes on the Vascular Flora of North Cape

B.S. Parris

I visited the North Cape Scientific Reserve and environs during Labour Weekend 1969 and Easter 1970 in order to check Wheeler's (1963) species list for the area. Numerous additional species were collected or recorded and further habitat records were made, but only those based on herbarium specimens in AK have been included in the most recent survey of the area (Cameron & Jones 1996). The additional sight records made in 1969-70 are included here to augment our knowledge of the composition and distribution of the vascular flora of North Cape. They include 18 additional taxon records, four species validated from unconfirmed records by Buchanan & Kirk (1869), one species confirmed from Wheeler (1963) which was regarded as a possible mistake by Cameron & Jones (1996), and 138 additional habitat records. The new records bring the total number of taxa to 489, 70% of which are native. The community numbers cited are the same as those used in Wheeler (1963) and Cameron & Jones (1996). Numbers in square brackets indicate community records published in Cameron & Jones (1996) which were also noted by me in 1969-1970.

### A. Additional taxa recorded

#### Ferns

*Pteris comans* x *P. saxatilis* 4 Parris 593, K

#### Dicotyledons

\* *Callitriche stagnalis* 6

\* *Carica pubescens* 4

\* *Ciclospermum leptophyllum* 3, 5

\* *Ficus carica* 4

\* *Galium aparine* 3

\* *Helenium puberulum* 3

*Hydrocotyle elongata* 4

\* *Nicotiana tabacum* 5

- \* *Plantago major* 6 \*
- Rorippa nasturtium-aquaticum* 6
- Senecio glomeratus* 4
- \* *Solenopsis laurentia* rare 5 in damp wheel ruts of turnoff of track to Carl's bach from North Cape road, Easter 1970; specimen sent to A J Healy at CHR in 1970, presumably not lodged in herbarium as Webb et al. (1988) give year of first collection as 1981.
- \* *Soliva sessilis* 3
- \* *Trifolium fragiferum* 3, 5, 6
- \* *Veronica arvensis* 3
- \* *Veronica serpyllifolia* 4, 5
- \* *Vicia sativa* 1, 2, 3, 5

## B. Validation of unconfirmed North Cape records

### Ferns & Fern Allies (all from Buchanan & Kirk 1869)

- Histiopteris incisa* rare 5
- Lycopodium volubile* 4
- Lygodium articulatum* rare 4

### Dicotyledons

- Senecio hispidulus/scaberulus* 4 [recorded by Wheeler (1963) without community, regarded as perhaps a mistake by Cameron & Jones (1996)]

### Monocotyledons

- Triglochin striata* 7 (Buchanan & Kirk 1869)

## C. Additional habitat records

### Ferns & Fern Allies

- Adiantum cunninghamii* rare 5 [also 3, 4]
- Adiantum hispidulum* rare 3 [also 1, 4, 5]
- Blechnum* sp. 1 local 4, 6 [also 5]
- Cheilanthes sieberi* rare 4 Parris 1343 K
- Cyathea dealbata* rare 5 [also 4]
- Cyathea medullaris* common 3, 5 [also 4]
- Doodia media* subsp. *australis* common 3 [also 1, 4, 5]
- Gleichenia microphylla* common 2, 3, 6 [also 5]
- Lindsaea linearis* common 2 [also 3, 4, 5, 6]
- Lycopodium deuterodensum* 2, 3 [also 5]
- Pellaea rotundifolia* rare 4
- Phymatosorus pustulatus* local 5 [also 4]
- Pteridium esculentum* common 3, 8 [also 1, 2, 4, 5, 6]
- Pteris macilenta* rare 1, 3 [also 4]
- Pteris saxatilis* rare 3
- Pteris tremula* common 1, 3 [also 4, 5]
- Pyrosia eleagnifolia* rare 4
- Sticherus flabellatus* local 2 [also 3, 4]
- Todea barbara* rare & local 3 [also 4]

### Gymnosperms

- Phyllocladus "trichomanoides"* 4 [also 1, 2, 3] or perhaps true *P. trichomanoides* on a non-serpentine substrate

### Dicotyledons

- \* *Bellis perennis* 5 [note earlier record than 1995]
- \* *Bidens pilosa* 6 [note earlier record than 1991]
- \* *Blackstonia perfoliata* 2, 3, 5, 8 [also 1]
- Brachyglottis repanda* 4 [also 1]
- Carmichaelia australis* 4, 5 [also 1, 8]
- \* *Centaurium erythraea* 6 [also 2, 3, 5]
- Centella uniflora* 6 [also 3, 4, 5, 7]
- \* *Cerastium glomeratum* 5
- \* *Cirsium vulgare* 5 [also 4]
- \* *Conyza albida* 1, 4, 5, 8
- Coprosma rhamnoides* 3, 6 [also 4]
- Coprosma robusta* 1, 3 [also 4]
- Coriaria arborea* 1 [also 3, 4]
- Corynocarpus laevigatus* 5 [also 4]
- Cotula coronopifolia* 5 [also 7]
- Cyathodes juniperina* 4 [also 1, 2, 3, 5]
- Dichondra repens* 4, 7 [also 1, 3, 5]
- Dodonaea viscosa* 3 [also 4]
- Drosera auriculata* 3, 5 [also 2, 6]
- Drosera pygmaea* 5, 6

*Drosera spathulata* 5 [also 2]  
*Dysoxylum spectabile* 1 [also 4]  
 \* *Euphorbia peplus* 3, 4, 5  
*Galium propinquum* 3  
*Gaultheria antipoda* 3  
*Geniostoma rupestre* var. *crassum* 3 [also 1]  
*Geniostoma rupestre* var. *ligustrifolium* 5, 6 [also 1, 3, 4]  
 \* *Geranium molle* 3 [also 4]  
*Geranium potentilloides* 4 [also 8]  
*Gnaphalium audax* 3, 4, 5  
*Gnaphalium involucreatum* 2 [also 3]  
 \* *Gnaphalium purpureum* var. *purpureum* 3, 4, 5 [note earlier record than 1995]  
*Gnaphalium simplicaulae* 5  
*Gonocarpus incanus* 5 [also 2, 3]  
 \* *Hakea gibbosa* 5 [also 3]  
 \* *Hakea sericea* 3, 5 [also 2]  
*Hebe ligustrifolia* 3 [also 2, 4]  
*Helichrysum lanceolatum* 3  
 \* *Hypochoeris radicata* 1 [also 2-8]  
*Ipomoea cairica* 1 [also 8]  
*Knightia excelsa* 3 [also 1, 4]  
*Lagenifera lanata* 3  
*Leucopogon fasciculatus* 5 [also 2, 3, 4]  
*Limosella lineata* 6 [also 7]  
 \* *Linum bienne* 3 [note earlier record than 1995]  
*Lobelia anceps* 7 [also 2, 3, 4, 5, 6]  
 \* *Lotus suaveolens* 6, 7  
 \* *Lychnis coronaria* 4 [note earlier record than 1986-87]  
*Melicope ternata* 1  
*Melicytus ramiflorus* 5 [also 1, 4]  
 \* *Mentha pulegium* 3, 5, 6, 7  
*Metrosideros robusta* 2 [also 1, 3, 4]  
*Myrsine australis* 3, 5 [also 1, 2, 4]  
*Modiola caroliniana* 5 [also 3]  
*Muehlenbeckia complexa* 4, 5 [also 8]  
*Olearia albida* var. *angulata* 3  
 \* *Ornithopus pinnatus* 3, 8 [note earlier record than 1995]  
*Oxalis rubens* 4, 5, 7 [also 1]  
 \* *Parentucellia viscosa* 5  
*Parsonsia heterophylla* 5  
 \* *Physalis peruviana* 5 [also 3, 4]  
 \* *Phytolacca octandra* 5, 8 [also 3]  
*Picris burbridgei* 5 [also 3]  
 \* *Polycarpon tetraphyllum* 8 [also 5]  
 \* *Polygonum hydropiper* 6 [also 5]  
 \* *Portulaca oleracea* 7 [also 1]  
 \* *Prunella vulgaris* 4, 5 [also 3]  
*Pseudognaphalium luteoalbum* agg. 5 [also 1, 3, 4]  
 \* *Ranunculus sardous* 3, 6 [also 5] [note earlier record than 1995]  
 \* *Rumex acetosella* 5 [also 8]  
 \* *Rumex conglomeratus* 3 [also 6]  
 \* *Sagina apetala* 5 [also 7]  
 \* *Senecio bipinnatisectus* 1 [also 4, 5]  
 \* *Sigesbeckia orientalis* 1, 4 [note earlier record than 1983]  
 \* *Silene gallica* 4 [note earlier record than 1995]  
 \* *Silybum marianum* 5, 8 [also 3, 4]  
 \* *Solanum nigrum* 5, 8 [also 4]  
 \* *Sonchus asper* 7  
 \* *Sonchus oleraceus* 2 [also 1, 4]  
 \* *Stellaria media* 4  
*Suaeda novae-zelandiae* 8  
 \* *Trifolium dubium* 4, 5  
 \* *Trifolium repens* 3, 4, 5, 6  
 \* *Verbena litoralis* 3, 4  
*Wahlenbergia vernicosa* 4 [also 1, 3]

**Monocotyledons (excluding grasses)**

*Arthropodium cirrhatum* 4 [also 1]  
*Carex inversa* 4  
*Cordyline australis* 3, 5 [also 4, 6, 8]  
*Cyperus brevifolius* 3, 5, 7  
*Cyperus ustulatus* 5 [also 6, 7]  
*Dianella nigra* 5 [also 2, 3]  
*Gahnia lacera* 3 [also 4]

Isolepis cernua 1  
Isolepis nodosa 5 [also 3]  
Juncus pallidus 5  
Phormium tenax 5 [also 1, 2, 3, 4, 6, 8]  
Schoenus apogon 5  
Schoenus tendo 2

#### Grasses

\* Aira caryophyllea 5  
\* Anthoxanthum odoratum 3, 5  
\* Briza minor 2, 3, 4, 5  
\* Bromus willdenowii 3  
Cortaderia splendens 2, 3 [also 1, 8]  
\* Cynodon dactylon 5 [also 8]  
Dichelachne crinita 3  
Echinopogon ovatus 3  
\* Holcus lanatus 3, 5  
\* Hordeum murinum subsp. leporinum 5 [also 8]  
Isachne globosa 5 [also 3, 6]  
\* Lagurus ovatus 5 [also 8]  
\* Lolium perenne 3 [note earlier record than 1995]  
Oplismenus imbecillis 5 [also 1, 4]  
\* Polypogon fugax 5  
\* Rhytidosperma pilosum 2  
Rhytidosperma unarede 2 [also 1, 3]  
\* Sporobolus africanus 5  
Stenotaphrum secundatum 5 [also 8]  
Zoysia pungens 1, 3

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#### References

- Buchanan, J. & Kirk, T. 1869: List of Plants found in the Northern District of the Province of Auckland. *Transactions of the New Zealand Institute* 2: 239-247.
- Cameron, E. K. & Jones, S. 1996: Vascular Flora of North Cape (including Kerr Point, Murimotu Id, Surville Cliffs, Waikuku Flat). *Auckland Botanical Society Journal* 51(2): 78-95.
- Webb, C. J., Sykes, W. R. & Garnock-Jones, P. J. 1988: Flora of New Zealand Volume IV Naturalised Pteridophytes, Gymnosperms, Dicotyledons. Botany Division, D. S. I. R. Christchurch.
- Wheeler, J. M. 1963: The vegetation of the North Cape area. *Tane* 9: 63-84.

#### Vascular Flora of North Cape - a correction and an addition

E.K. Cameron

Since the publication of the updated North Cape list (Cameron & Jones 1996) I have received a comment from Graeme Hambly that the *Psilotum* record was partly incorrect and I have also received a *Juncus* specimen from Linda Winch that is an addition to the list.

#### Correction:

*Psilotum nudum* 4 ABS, 1 Hambly (pers. comm.)

AK 224996

#### Addition:

\**Juncus microcephalus* 6 Winch

AK 230737 [1997]