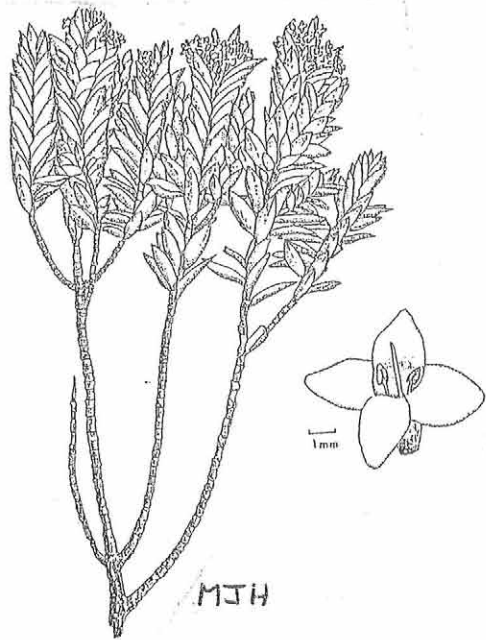


Botanical Society  
of Otago

Newsletter.

No. 5,  
1987 November.



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Botanical Society of Otago Meetings

Saturday November 21: FIELD EXCURSION to the east bank  
of the Lower Taieri Gorge (just up from Taieri  
Mouth).

Led by Dr Ralph Allen, of Botany Division, DSIR.

Meet in Union Street (between Gt King and Cumber-  
land Streets) at 9 am, where we'll assign to cars  
those without transport.

Wednesday February 10: GRASS WORKSHOP,

Led by Professor Alan Mark, of the Botany Department, University of Otago.

In the University Botany Dept. Advanced Lab (enter from Cumberland St, down the drive behind the Otago Museum), 7:30 pm.

The emphasis will be on native grasses. There will be some introduction to the basics of grass identification, so the workshop should be suitable for the novice as well as the more experienced. Grass specimens will be provided, though members are welcome to bring their own if they wish.

Dunedin Naturalists Field Club meetings

November 14: Excursion to Beaumont Forest.

November 16: Dr Fordyce speaks on Antarctica, also AGM at Gardens Visitor Education Centre.

November 28: Excursion to Shag Point.

December 12: Excursion to Maungatua.

A KEY TO THE GENERA OF NEW ZEALAND FERNS  
AND ALLIED PLANTS

National Museum of N.Z. Miscellaneous Series no. 15

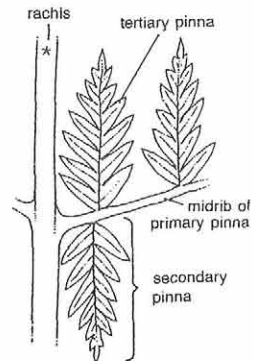
Text by P.J. Brownsey,

Illustrations by T.N.H. Galloway

Reviewed here by Alison Evans

This publication is a guide to the 66 genera of ferns and fern allies of the New Zealand botanical region.

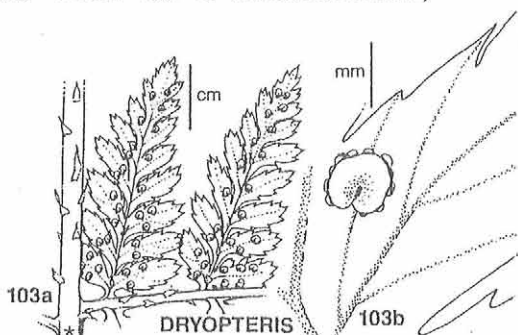
In addition to the seven dichotomous keys there are numerous excellent illustrations. The concise glossary consists of 38 entries, each of which is complemented by one or more clear line drawings. (It's so much more



TRIPINNATE FROND

helpful to have a drawing of a pinnate, a bipinnate and a tripinnate frond, as well as a definition.)

Each genus too is illustrated by a representative species chosen as an example of diagnostic characters used in the key. the specific examples (92 in all) are clear and well annotated.



The keys are arranged in a logical hierarchy that first distinguishes true ferns from fern allies, second the genera of fern allies, third anomalous fern genera, and then there are four keys to other genera grouped according to the degree of division of their fronds.

The layout is easy to follow and bold face for key headings and generic names assists scanning.

Although a nomenclatural reference is given, a list of generic synonyms somewhere in the key would have been helpful.

Modest size (31 pp, 180 X 250 mm) recommends the booklet as a comfortable field companion.

The price of \$5.95 (including GST and postage) is discounted to \$5.50 for a minimum of 10 copies and \$5.00 per copy for 50 or more. Orders should be addressed to the Librarian, National Museum, Private Bag, Wellington, and cheques made payable to the National Museum of N.Z.

New Names in New Zealand Scrophulariaceae

By M. J. Heads, Botany Department, University of Otago,  
P. O. Box 56, Dunedin, New Zealand.

New names are published here in accordance with the  
International Code of Botanical Nomenclature so that they  
can be used by those who wish in advance of the publication  
of the revision.

Chionohebe Briggs et Ehrendorfer

Chionohebe glabra (Cheesem.) Heads comb. nov., stat. nov.

Bas.: Veronica thomsonii var. glabra Cheeseman, Man. N. Z.  
Flora 540. 1906.

Leonohebe Heads, gen. nov.

Frutices vel subfrutices; foliis factis bracteis fecundis  
vel sterilisatis, connatis basaliter, foliis alteris  
manifestis in plantis juvenilibus et in surculis reversis  
basalibus; bracteis floralibus omnibus decussatis atque  
connatis; corolla 4-6-lobata, capsula 2-3-cellularis.

Typus: Leonohebe ciliolata (Hook. f.) Heads

Leonohebe sect. Densifoliae Heads, sect. nov.

Floribus solitariis et lateralibus, corolla azurea vel  
lactea, tubo brevi, limbo lato infundibulari regulari  
quinquelobato, capsula compressa lateraliter.

Typus: Leonohebe densifolia (F. v. Mueller) Heads

1. Leonohebe densifolia (F. v. Muell.) Heads, comb. nov.

Bas.: Paederota densifolia F. v. Muell. Trans. Philos. Soc.  
Victoria 1:107. 1855

= Veronica densifolia (F. v. Muell.) F. Muell. 1861

= Chionohebe densifolia (F. v. Muell.) Briggs et Ehrendorfer  
1976

Syn. tax.: Logania tetragona Hook. f., Handb. N. Z. Fl. 188.  
1864.

= Pygmea tetragona (Hook. f.) Ashwin 1961.

Non Veronica tetragona Hook. f. 1843, = Hebe tetragona  
(Hook. f.) Ckne. et Allan 1926.

2. Leonohebe uniflora (Kirk) Heads, comb. nov.

Bas.: Veronica uniflora Kirk Trans. N. Z. Inst. 28:522  
"1895" 1896

= Hebe uniflora (Kirk) Ckne. et Allan 1926

Syn. Tax.: Logania armstrongii Buchanan, Trans. N. Z. Inst.  
14:347. 1882.

= Pygmea armstrongii (Buchan.) Ashwin 1961

Non Veronica armstrongii Johnson ex J. B. Armstrong, N. Z.  
Country Journal 3:59. 1879, = Hebe armstrongii  
(J. B. Armstrong) Ckne. et Allan, 1926, (vide infra sub  
no. 14).

Leonohebe sect. Leonohebe

Floribus in spiculis coarctatis portatis apicem vegetativum  
cingens; corolla 4-lobata, regulari, capsula compressa  
lateraliter.

Typus: Leonohebe ciliolata (Hook. f.) Heads

3. Leonohebe ciliolata (Hook. f.) Heads, comb. nov.

Bas.: Logania ciliolata Hook. f., Handbook N. Z. Flora 737.  
1867.

= Veronica gilliesiana Kirk 1896.

= Hebe ciliolata Ckne. et Allan 1926.

Syn. tax.: Mitrasacme hookeri Buchanan 1882

4. Leonohebe tetrasticha (Hook. f.) Heads, comb. nov.

Bas.: Veronica tetrasticha Hook. f. Handb. N. Z. Flora 212.  
1864

= Hebe tetrasticha Ckne. et Allan 1926

5. Leonohebe cheesemanii (Buchanan) Heads, comb. nov.

Bas.: Mitrasacme cheesemanii Buchanan, Trans. N. Z. Inst.  
14:348. t. 29, f. 2. 1882.

= Hebe cheesemanii (Kirk) Ckne. et Allan 1926

Syn. tax.: Veronica quadrifaria Kirk 1896 non Benth. 1881.

6. Leonohebe tumida (Kirk) Heads, comb. nov.

Bas.: Veronica tumida Kirk, Trans. N. Z. Inst. 28:521. 1896.  
= Hebe tumida (Kirk) Ckne. et Allan 1926

Leonohebe sect. Connatae Heads, sect. nov.

Subfrutices decumbentes, inflorescentia capitulo terminali e multis spiculis composita, lobis calycis longis et angustis, tubo corollae longa, limbo parva quadrilobata.

Typus: Leonohebe epacridea (Hook. f.) Heads

7. Leonohebe epacridea (Hook. f.) Heads, comb. nov.  
Bas.: Veronica epacridea Hook f., Handbk. N. Z. Flora 213. 1864.  
= Hebe epacridea (Hook. f.) Ckne. et Allan 1926
- 8a. Leonohebe haastii (Hook. f.) Heads, comb. nov.  
var. haastii  
Bas.: Veronica haastii Hook. f., Handb. N. Z. Flora 213. 1864.  
= Hebe haastii (Hook. f.) Ckne. et Allan 1926
- 8b. Leonohebe haastii var. humilis (Simpson) Heads, comb. nov.  
Bas.: Hebe macrocalyx var. humilis Simpson, Trans. Roy. Soc. N. Z. 79: 428. 1952.  
= Hebe haastii var. humilis (Simpson) Moore 1961
- 8c. Leonohebe haastii var. macrocalyx (Armstrong) Heads, comb. nov.  
Bas.: Veronica macrocalyx J. B. Armstrong, Trans. N. Z. Inst. 13: 353. 1881.  
= Veronica haastii var. macrocalyx (J. B. Armstr.) Cheesem. 1906.  
= Hebe haastii var. macrocalyx (J. B. Armstr.) Ckne. et Allan 1926.
- 9a. Leonohebe petriei (Buchanan) Heads, comb. nov.  
var. petriei  
Bas.: Mitrasacme petriei Buchanan, Trans. N. Z. Inst. 14: 349. t. 30, f. 1. 1882.  
= Veronica petriei (Buchan.) Kirk 1896  
= Hebe petriei (Buchan.) Ckne. et Allan 1926
- 9b. Leonohebe petriei var. murrellii (Simpson et Thomson) Heads, comb. nov.  
Bas.: Hebe murrellii Simpson et Thomson, Trans. Roy. Soc. N. Z. 73: 165. 1943.  
= Hebe petriei var. murrellii (Simpson et Thomson) Moore 1961.

10. Leonohebe ramosissima (Simpson et Thomson) Heads, comb. nov.  
 Bas.: Hebe ramosissima Simpson et Thomson, Trans. Roy. Soc. N. Z. 72: 29. 1943.

Leonohebe sect. Apiti Heads, sect. nov.

Inflorescentia spica simplici e decem vel ultra paribus florum composita, calyce 4-5-6-lobato, corolla cyanea 5-6-lobata, regulari, staminibus duobus vel tribus, capsula 2-3-cellularis.

Typus: Leonohebe benthamii (Hook. f.) Heads

11. Leonohebe benthamii (Hook. f.) Heads, comb. nov.  
 Bas.: Veronica benthami Hook. f., Bot. Ant. Voy.: Fl. Antarct. 1: 60, t. 39, 40. 1844.  
 = Hebe benthamii (Hook. f.) Ckne. et Allan 1926.

Leonohebe sect. Salicornioides Heads, sect. nov.

Articulo nodi non evidenti; inflorescentia terminali capitulo spicarum; lobis anticis calycis connatis, capsula compressa dorsaliter.

Typus: Leonohebe salicornioides (Hook. f.) Heads

12. Leonohebe annulata (Petrie) Heads, comb. nov.  
 Bas.: Veronica armstrongii var. annulata Petrie, Trans. N. Z. Inst. 45: 273. 1913.  
 = Veronica annulata (Petrie) Cheesem. 1925.  
 = Hebe annulata (Petrie) Ckne. et Allan 1926.

13. Leonohebe salicornioides (Hook. f.) Heads, comb. nov.  
 Bas.: Veronica salicornioides Hook. f., Handbk. N. Z. Flora 212. 1864.  
 = Hebe salicornioides (Hook. f.) Ckne. et Allan 1926.

14. Leonohebe armstrongii (Armstrong) Heads, comb. nov.  
 Bas.: Veronica armstrongii Johnson ex J. B. Armstrong, N. Z. Ctry. J. 3: 59. 1879.  
 = Hebe armstrongii (J. B. Armstr.) Ckne. et Allan 1926

15. Leonohebe ochracea (Ashwin) Heads, comb. nov.  
 Bas.: Hebe ochracea Ashwin in Allan Flora N. Z. 1: 936. 1961.

Leonohebe sect. Aromaticae Heads, sect. nov.

Frutices aromaticae, internodis longis, inflorescentia spica terminali, lobis anticis atque lobis posticis connatis; capsula perpusilla, didyma.

Typus: Leonohebe cupressoides (Hook. f.) Heads

16. Leonohebe cupressoides (Hook. f.) Heads, comb. nov.

Bas.: Veronica cupressoides Hook. f., Handbk. N. Z. Flora 212. 1864.

= Hebe cupressoides (Hook. f.) Ckne. et Allan 1926.

Leonohebe sect. Flagriformes Heads, sect. nov.

Frutices flagriformes, inflorescentia spica terminali simplici lobis calycis quatuor discretis, capsula compressa dorsaliter.

Typus: Leonohebe hectorii (Hook. f.) Heads

17. Leonohebe lainzii (Ckne.) Heads, comb. nov.

Bas.: Veronica lainzii Cockayne, Rep. Bot. Survey Stewart Id. 44. 1909.

= Hebe lainzii (Ckne.) Ckne. et Allan 1926.

18a. Leonohebe hectorii (Hook. f.) Heads, comb. nov.

var. hectorii

Bas.: Veronica hectori Hook. f., Handb. N. Z. Flora 212. 1864.

= Hebe hectori (Hook. f.) Ckne. et Allan 1926.

18b. Leonohebe hectorii var. demissa (Simpson)

Heads, comb. nov.

Bas.: Hebe demissa Simpson, Trans. Roy. Soc. N. Z. 75:193. 1945.

= Hebe hectori var. demissa (Simpson) Ashwin 1961.

19. Leonohebe coarctata (Cheesem.) Heads, comb. nov.

Bas.: Veronica coarctata Cheeseman, Man. N. Z. Flora 531. 1906.

= Hebe coarctata (Cheesem.) Ckne. et Allan. 1926



- 20a. Leonohebe subsimilis (Col.) Heads, comb. nov.,  
var. subsimilis  
Bas.: Veronica subsimilis Colenso, Trans. N.Z. Inst.  
31:278. 1899.  
= Hebe subsimilis (Col.) Ashwin 1961.
- 20b. Leonohebe subsimilis var. astonii (Petrie)  
Heads, comb. nov.  
Bas.: Veronica astonii Petrie, Trans. N.Z. Inst.  
40:288. 1908.  
= Hebe subsimilis var. astonii (Petrie) Ashwin 1961
21. Leonohebe tetragona (Hook. f.) Heads, comb. nov.  
Bas.: Veronica tetragona Hook. f., Icon. Pl. t.580, 1843.  
= Hebe tetragona (Hook.) Ckne. et Allan 1926
22. Leonohebe imbricata (Petrie) Heads comb. nov.  
Bas.: Veronica imbricata Petrie, Trans. N. Z. Inst. 48:189.  
1916.  
= Hebe imbricata (Petrie) Ckne. et Allan 1926.
23. Leonohebe propinqua (Cheesem.) Heads, comb. nov.  
Bas.: Veronica propinqua Cheeseman, Man. N.Z. Flora 533.  
1906.  
= Hebe propinqua (Cheesem.) Ckne. et Allan 1926.
24. Leonohebe poppelwellii (Ckne.) Heads, comb. nov.  
Bas.: Veronica poppelwellii Cockayne, Trans. N.Z. Inst.  
48:200. 1916.  
= Hebe poppelwellii (Ckne.) Ckne. et Allan 1926.
25. Leonohebe subulata (Simpson) Heads, comb. nov.  
Bas.: Hebe subulata Simpson, Trans. Roy. Soc. N.Z. 79:427.  
1952.
- 26a. Leonohebe lycopodioides (Hook.f.) Heads, comb. nov.  
Bas.: Veronica lycopodioides Hook. f., Handbk. N.Z. Flora  
211. 1864.  
= Hebe lycopodioides (Hook.f.) Ckne. et Allan 1926.
- 26b. Leonohebe lycopodioides var. patula  
(Simpson et Thomson) Heads, comb. nov.  
Bas.: Hebe lycopodioides var. patula Simpson et Thomson,  
Trans. Roy. Soc. N.Z. 73:164. 1943.

Leonohebe sect. Buxifoliatae Heads, sect. nov.

Foliis grandibus tantum connatis, sinu gemmae late obtrullato.

Typus: Leonohebe odora (Hook. f.) Heads

27. Leonohebe pauciflora (Simpson et Thomson)

Heads, comb. nov.

Bas.: Hebe pauciflora Simpson et Thomson, Trans. Roy.

Soc. N. Z. 73:166. 1943.

28. Leonohebe odora (Hook. f.) Heads, comb. nov.

Bas.: Veronica odora Hook. f., Bot. Ant. Voy.: Fl. Antarct.

1:62, t. 41. 1844.

= Hebe odora (Hook. f.) Ckne. 1929.

29a. Leonohebe mooreae Heads, sp. nov.

Frutex erectus vel decumbens, foliis coriaceis foliorum marginibus scissis oblique crenulatisque, stomatibus in abaxiali latere foliorum solum, inflorescentia intercalari uno vel duobus paribus spicarum lateralium.

Holotypus: P. Wardle 16.12.1978 (CHR 321236) Douglas Ra., South Westland. S 78: 298328. "4100' in low scrub on a steep gully side."

29b. L. mooreae var. telmata Heads, var. nov.

Frutex < 60 cm excelsus, lamina c.10mm longa, inflorescentia spicarum 2-3-paribus florum. Crescit in palustris.

Holotypus: P. Wardle 16.12.1978 (CHR 321237) Douglas Ra., south Westland. S 78:286322 "3500' abundant in Chionochloa grassland on rolling country."

30. Leonohebe pauciramosa (Ckne. et Allan) Heads, comb. nov.

Bas.: Hebe buxifolia var. pauciramosa Ckne. et Allan, Trans. N. Z. Inst. 56:27. 1926.

= Hebe pauciramosa (Ckne. et Allan) Moore 1961.

31a. Leonohebe masoniae (Moore) Heads, comb. nov., stat. nov.

Bas.: Hebe pauciramosa var. masonae Moore in Allan Flora of New Zealand 1:926. 1961.

31b. Leonohebe masoniae (Moore) Heads var. rotundata Heads,  
var. nov.

Differt a L. masoniae var. masoniae foliis brevioribus et  
pro ratione latioribus, 4-6mm latis et 5-7mm longis,  
cicatricibus pulvinatis.

Holotypus: A. P. Druce Nov. 1980 CHR "Mineral belt north of Cobb  
Reservoir. S13; 08-53-. 3500'. Tussockland".

Hebe Commerson ex Jussieu

Hebe sect. Subdistichae Heads, sect. nov.

Ramis saepe subdistichis, sinu gemmae longo angusto acutato,  
foliis rigidulis, inflorescentia saepe ramosa, bracteis  
infimis saepe oppositis.

Typus: Hebe diosmifolia (A. Cunn.) Ckne. et Allan

Hebe crawii Heads, sp. nov.

Frutex decumbens, sinu angusto, folis magnis spathulatis  
glaucis, inflorescentia tripartita.

Holotypus: A. F. Mark 2.2.1971 OTA. Excelsior Peak, Takitimu Mts.  
4800'. "Occasional spreading shrubs ca. 40 cm tall in  
fellfield."

Hebe sect. Glaucae Heads, sect. nov.

Foliis glaucis vel albicantibus, sinu gemmae ocluso,  
inflorescentia condensata vel angusta.

Typus: Hebe pinguifolia (Hook. f.) Ckne. et Allan

Hebe sect. Hebe ser. Occlusae Heads, ser. nov.

Differt a serie typica (plantae meridionales, gemmae sinu  
lato quadratoque vel angusto consistens) in sinu ocluso:  
regionibus septentrionalis habitat.

Typus: Hebe macrocarpa (Vahl) Ckne. et Allan

Rotorua Botanical Society Newsletter

The Rotorua Botanical Society have kindly been sending us their newsletter. If you are interested in seeing it, please contact J.B. Wilson.

New Zealand Journal of Botany

DSIR, publishers of the N.Z. J. Bot., now offer discount subscriptions to all personal subscribers directly (previously it was available only through a society). The 1988 cost is \$93.50 per year (this includes p&p and GST, it is a 50% discount on the journal itself). Write to SIPC, DSIR, P.O. Box 9741, Wellington. They accept Visa, Amex and Bankcard.

Finance

The funds of the Botanical Society of Otago stand at \$96. The main expense is the newsletter, each issue of which costs \$25 in postage alone.

Botanical Society of Otago

Information for this newsletter to: Mr Lloyd Esler,  
20, Pilkington St, Dunedin. 'Phone: 740-391.  
Membership, and complaints: Dr J. Bastow Wilson,  
Botany Department, Otago Univ. PO Box 56, Dunedin.  
'Phone: Work 771-640, extension 8895, Home 739-300  
Ideas for activities, to: Dr Peter N. Johnson.  
Donations to cover costs, to: Mr H. Ian West.

This Newsletter was published 1987 November 10  
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