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Notes on Some New Zealand Species of *Cladonia* With  
Descriptions of Two New Species and One New Form

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**Summary**

Two new species of the lichen genus *Cladonia*—*C. murrayi* and *C. southlandica*—are described, also a new form (*f. fiordense*) of *C. aggregata*. Previously unrecorded forms of other species are listed and new localities for several of the rarer species. It is suggested that plants formerly ascribed to *C. impexa* be merged in *C. leptoclada*, and that Nylander's genus *Cladia* be recognised for plants formerly comprising the section *Clathrinae* of the genus *Cladonia*.

CLADONIA—Subsection COCCIFERAE

***Cladonia bacillaris* (Ach.) Nyl.**

Three forms occur in New Zealand: *f. clavata* (slender, obtuse, and rarely branched); *f. elegantior* (longer, stouter, and sometimes branched above); and *f. reagens* (with orange patches on podetia turning violet with KOH). Unrecorded areas include:

— *f. clavata* (Ach.) Vain.

Coromandel (8259); Wellington (4281); Pelorus Bridge, Nelson (8158); Wairau Valley (4048); Greymouth (2158); Awatuna, Westland (6868); Blue Mountains, Otago (8142); Catlins, Otago (7027).

— *f. elegantior* Vain.

Molesworth (7603); Longwood Range (4466a); Mt Pisgah (J.S.T. 1490); Saddle Hill, Dunedin (5111); Cass, Canterbury (6790); Greenhills (7092); Awarua Bay, Southland (8157); Arthurs Pass (9001).

— *f. reagens* Evans.

Wairau Valley (3012); Taupo (L. 202).

***Cladonia hypoxantha* Tuck.**

Typical plants of this uncommon species were recently obtained by me on *Nothofagus* at Black Gully, Blue Mountains, Otago.

***Cladonia metalepta* Nyl.**

No plants of this species occur in any New Zealand herbaria from New Zealand sources. The Mt Hauhangatahi record is erroneous and, pending fuller information, the species should be deleted from the N.Z. flora.