

DENNSTAEDTIACEAE-PTEROPSIDA

HYPOLEPIS VILLOSO-VISCIDA NEW TO THE FLORA OF SOUTHERN AFRICA

Recently, a *Hypolepis* collection from Genadendal in the Western Cape, differing from *H. sparsisora* (Schrad.) Kuhn came to my attention. This collection differs in the distribution of hairs on the lamina, the presence of glandular and receptacular hairs, and larger stomata and spores. To determine whether the plants may be recent introductions and to determine the size of the population, I have subsequently visited the location. A review of herbarium collections revealed that this species, although scarce, also occurs elsewhere in South Africa, but has always been erroneously determined as *H. sparsisora*. A morphological study showed that these plants are synonymous with *H. villoso-viscida* (Thouars) Tardieu, a species also occurring on the South Atlantic island groups of Gough and Tristan da Cunha.

Key to the South African species of *Hypolepis*

- Lamina with acicular and oblong hairs confined to axes and veins; receptacle nude; stomata 28–(37.11)–46 μm long; spores 24–(29.04)–38 \times 15–(19.63)–26 μm *H. sparsisora*
- Lamina with acicular and glandular hairs (rarely also oblong hairs) on axes, veins and lamina surfaces; receptacle usually with uniseriate hairs; stomata 38–(50.33)–64 μm long; spores 32–(38.01)–46 \times 20–(23.95)–30 μm *H. villoso-viscida*

Hypolepis villoso-viscida (Thouars) Tardieu, *Flore de Madagascar et de Comores* 5, 1: 6, fig. 1, t. 3–5 (1958).

Polypodium villoso-viscidum Thouars: 33: (1808). Type: Tristan d'Acunha, Aubert du Petit-Thouars s.n. (P, holo.).

Cheilanthes viscosa Carmich.: 511 (1818). Type: Tristan da Cunha, Carmichael s.n. (K, holo.; BM, iso.).

Specimens examined

EASTERN CAPE.—3225 (Somerset East): Somerset East, Boschberg, 760 m. Nov. 1875, (–DA), MacOwan 1575 (SAM).

WESTERN CAPE.—3418 (Simonstown): Orange Kloof, W-facing slopes, \pm 220 m. 24 Nov. 2000, (–BD), Roux 3023 (NBG). 3419 (Caledon): Genadendal, Baviaans River, north bank alongside road upstream of weir, 280 m. 2 June 2000, (–BA), Boucher 6515 (NBG); Genadendal, Baviaans River, above 2nd weir, \pm 300 m. 7 July 2000, (–BA), Roux 3007, 3009, 3010, 3011 (NBG).

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- THOUARS, L.M. AUBERT DU PETIT. 1808. *Esquisse de la flore de l'Isle de Tristan d'Acunha*. Paris.

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