PUCCINIA ARGOPHYLLI SP. N. ON *ARGOPHYLLUM NULLUMENSE* IN QUEENSLAND

In January 1957 a collection of inconspicuously rusted leaves of the scrub tree *Argophyllum nullumense* R. T. Baker was made on "The Lost World," a small rain-forest plateau in the rugged McPherson Range of south-eastern Queensland. *Argophyllum* is a genus of the family Saxifragaceae, tribe Escallonieae. No rust has been recorded from this genus or the related *Quintinia, Abrophyllum, Cuttsia, Polyosma* and *Anopterus.* The rust is therefore considered to be an unnamed species, and is described below.

Puccinia argophylli sp.n.

Aecia yellow, amphigenous, but mainly epiphyllous, sunken in host tissue, orbicular, mostly 0·2–0·4 mm. diam. Aeciospores subglobose or polygonal, 23–27 x 17–20 μ, walls 2–3 μ thick, distinctly verrucose.

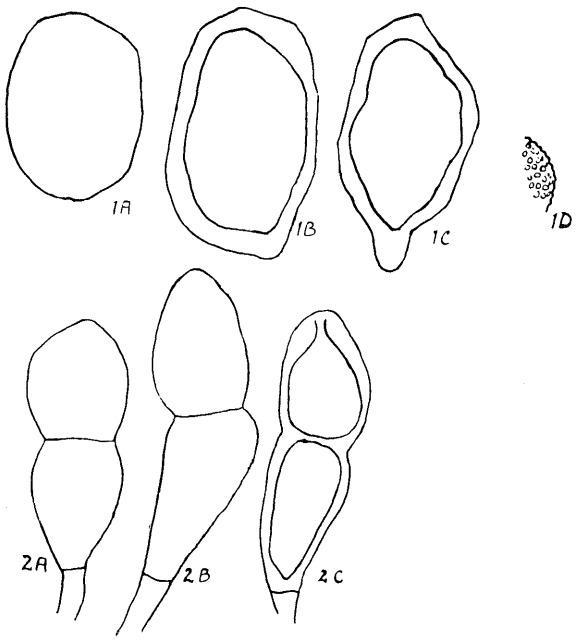

Fig. 1.

Aeciospores and Teliospores of *Puccinia argophylli* sp.n.
1. Aeciospores x 1,000. 1A, outline; 1B, 1C, median optical section; 1D, portion of wall.

2. Teliospores x 500. 2A, 2B, outline; 2C, median optical section.

Telia brown, hypophyllous, protruding through leaf hairs, 0·1–0·2 mm. diam. Teliospores ellipsoidal, constricted at the septum, 60–86 x 20–25 μ, walls smooth, pedicels hyaline, 40–60 μ in length.

In foliage of *Argophyllum nullumense* R. T. Baker, McPherson Range, Queensland, January 26, 1957. Collector, D. S. Teakle.

Aecia flava pro more epiphylla sed etiam amphigena, in textu hostis immersa, orbicularia, pro more 0·2–0·4 mm. diam. Aeciospori subglobosi vel polygoni, 23–27 x 17–20 μ, eorum muri 2–3 μ crassi, distincte verrucosi. Telia brunnea hypophylla extra pilos follii extensa, 0·1–0·2 mm. diam. Teliospori ellipsoidei, septo constricti, 60–86 x 20–25 μ, muris laevibus, pedicellis hyalinis 40–60 μ longis.

In foliis *Argophylli nullumensis* R. T. Baker, McPherson Range, Queensland, January 26, 1957. Leg. D. S. Teakle.

The rust is known only from the one locality. The host plant is for the most part restricted to the McPherson Range and neighbouring ranges.

The type collection has been placed partly with the University of Queensland, Brisbane, and partly with the Commonwealth Mycological Institute, Kew.

Acknowledgement.

Dr. S. T. Blake, of the Queensland Department of Agriculture and Stock, kindly furnished the Latin diagnosis and supplied information concerning the distribution of the host plant.

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