

**Leciophysma** Th. Fr.  
(COLLEMATACEAE)

After Henssen (1965) and Thomson (1984)

Rev. 5/94

Thallus small, mealy, granular, or dwarf fruticose. Thallus dark olive or blackish. Lobes to 0.8 mm long and 0.3 mm broad, globose to cylindrical. Hyphae reticulately arranged; cells angular, elongated, or roundish; no cortex developed.

Apothecia much larger than the lobes, without thalline margin; proper margin distinct or indistinct. Apothecia lecideine (with a black carbonaceous exciple), the hypothecium dark. Proper exciple medianly open below, strongly developed; hyphae radially arranged; cell lumina finally rounded; walls gelatinized. Asci cylindrical with thickened apices. Spores 8, simple, colorless. Paraphyses sparingly branched, the apices thickened. Supporting tissue may be developed at the thallus base below the hymenium. Ascus walls I+ blue; hymenial gel I+ blue or wine red. Pycnidia containing shortcelled conidiophores; conidia short, laterally and terminally produced. Photobiont Nostoc. Growing on moss and plant debris, arcticalpine.

**1. Thallus black, subfruticose; lobes to 0.8 mm long. Thallus caespitose in rosettes to 15 cm across; lobes erect, branching, without cortex. Apothecia with proper margin indistinct; hymenium 120190  $\mu$ m; spores globose to ovoid, 1623 x 1114  $\mu$ m. On mosses and other lichens over limestone soils in moist habitats, arctic (Greenland; Ellesmere Island to Alaska), south to Washington state. .... L. finnmarkicum Th. Fr.**

**1. Thallus olive or blackish, granulose; lobes to 0.2 mm long. Thallus scattered or forming cushions to 2 cm across; lobes globose, sometimes forming a thin cortical parenchyma in older thalli. Apothecia with proper margin distinct at first; hymenium 80135  $\mu$ m; spores ellipsoid with slightly pointed tips, 1120 x 79.5  $\mu$ m. On mosses and other lichens and occasionally on bark. Alaska, British Columbia, Greenland, South Dakota, Colorado. .... L. furfurascens (Nyl.) Gyelnik**

**Literature**

Henssen, A. 1965. A review of the genera of Collemataceae with simple spores (excluding Physma). Lichenologist 3: 2941.

Poelt, J. 1969. Bestimmungsschlüssel europischer Flechten.

Thomson, J. W. 1984. American Arctic Lichens I. The  
Macrolichens. U. of Columbia Press, New York.