

## **Lithographa Nyl.**

After Flock, 1989, Purvis, 1992, and others

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Thallus crustose, areolate; prothallus thallus present. Photobiont chlorococcoid. Apothecia elongated (lirellate) to  $\pm$  round or angular; discs slit-like; thalline exciple absent; true exciple opaque, of dark brown, conglutinated, anastomosing and radiating hyphae; hypothecium colorless; hymenium colorless, I+ blue; paraphyses branched, soon disappearing. Asci of the Rimularia-type, clavate, the tholus with strongly amyloid lateral areas and apical cap (or tube); outer wall of ascus thick, amyloid. Spores 8, simple, ellipsoid, hyaline. Pycnosporos unknown. On rock.

### **L. tesserata (DC.) Nyl.**

Thallus whitish to pale gray-brown, clearly areolate; areoles to 0.4(-1.0) mm, scattered or  $\pm$  contiguous, flat to convex,  $\pm$  angular; cortex densely packed with small crystals, K+ dissolving; prothallus black, often visible between areoles and around the thallus. Photobiont cells (Trentepohlia) 7-14  $\mu$ m diam., globose, but many ellipsoid, to 20(-26) x 14(-16)  $\mu$ m. Apothecia numerous, 0.2-1.5 x 0.2-0.3 mm, black, lirellate, almost rounded or short, simple, straight or  $\pm$  curved, sometimes divided, solitary or crowded and congested-gnarled, sessile, shiny, adpressed,  $\pm$  emergent, constricted at base; disc slit-like, not opening; true exciple well developed, levated and curved inwards, covering the disc. Hypothecium brown to carbonaceous black, concolorous with and continuous with the exciple; paraphyses coherent, anastomosing, to 1  $\mu$ m wide, the tips weakly thickened; epihymenium olive or brown. Asci of the Rimularia-type, clavate, the tholus with strongly amyloid lateral areas and apical cap (or tube); outer wall of ascus thick, amyloid. Spores hyaline, simple, ellipsoid, 9-12(-15) x 5-8  $\mu$ m. Medulla P+ orange, K+ red (crystals), KC+ red, C-, UV-, I- (norstictic acid). Pycnosporos unknown. On  $\pm$  moist, siliceous or  $\pm$  basic rocks, especially basalt. Arctic (Alaska).

## **Literature**

Flock, J. W. 1989. Lithographa, a lichen genus new to continental North America. Mycotaxon 34: 643-645.

Purvis, O. W. 1992. Lithographa. In: Purvis, et al., Lichen Flora of Great Britain and Ireland.