

often 3-7 connate, plane and thinly margined when young, at length strongly convex and immarginate, disk blackish-brown with the epithecium roughened. Spores ellipsoid, oblong-ellipsoid or cymbiform, one to three septate, $14-34 \times 3-6\mu$, paraphyses distinct, concrete or somewhat lax, bluish-green at the apices, hypothecium reddish-brown, hymenial gel., with I + blue, the color persisting.

The species is reported from Port Clarence, Alaska, Greenland and Newfoundland, under the generic synonym of *Lecidea* of its section *Toninia*, and from Lake Nipigon, Ontario, Arctic America, Islands of Behring Straits, and from the Canadian Rockies under the name of *Biatora artyta*.

Lecidea sublatypea Leight. Lich. Flora G. Brit. ed. I, p. 271 (1871).

Thallus effuse or sub-determinate, granulate, ashy-fuscon, K—, C—, Apothecia small (0.5 mm.), sessile, scattered or connate, plane or concave, with a persistent or evanescent, opaque or shining entire margin, disk black. Spores 8, ellipsoid, simple, $12 \times 6.5\mu$, hypothecium brown, asci ventricose, paraphyses distinct, compacted, tips blackish-green, hymenial gel., with I + deep-blue.

Granite rocks. Sidney, Vancouver Island; Prof. J. Macoun. Previously unreported from America.

***Xylographa micrographa* sp. nov.**

Thallus hypophlaeous, the hyphema ramifying through the superficial fibers of the substratum, algae *Palmella*, few and scattered, K—, C—, Apothecia innate, scattered, parallel with the fibers, small (less than 1 mm. in length), lirelliform or fusiform, acuminate, typically concave, but sometimes plane, with a prominent slightly inflexed margin, or the margin reduced and the disk nearly plane, black. Spores 8, ellipsoid, simple, nebulous, filled with granular protoplasm or developing nucleoli, $11-13 \times 7\mu$, hymenium and hypothecium colorless, asci inflated-clavate, paraphyses distinct, slender, lax, abundant.

Old decorticated log. Sidney, Vancouver Island; Prof. J. Macoun.

The thallus visibly whitens the wood, and is effuse. The internal characters ally the plant with *X. parallela* (Ach.) Fr., the external with *X. hians* Tuck. Type specimen in herbarium Merrill.

Rockland, Maine.