

ium and hypothecium without color, paraphyses distinct, slender, discrete, asci inflated, hymenial gel. with I+ faint blue.

Bark of willows. Sidney, Vancouver Island; Prof. J. Macoun. Near to *Phlyctis argenta* (Ach.) Koerb, but differing in the color of the thallus and aspect of the apothecia. The whole appearance of the plant is that of a *Pertusaria*. Type in herbarium Merrill.

***Biatora* (*Biatorina*) *Griffithii* var. *Pacifica* (Tuck.) comb. nov.**
Biatora mixta Pacifica Tuck. Syn. Pt. 88, p. 30.

Thallus thin, ashy for the most part, limited and decussated by black hypothalline lines. Apothecia small to minute, depressed, plane or convex, from waxy, through various shades of brown, or finally blackening, sometimes pruinose, margin persistent or sub-persistent, but not conspicuous, not showing the color mutation of the disk and commonly brown. Spores 8, fusiform or oblong-ellipsoid, straight or curved, one-septate or rarely with two septa, $12-15 \times 4-5 \mu$, hymenium and hypothecium without color, asci ventricose-clavate, paraphyses distinct, coherent, epithecium fuscous downward, hymenial gel., with I + intense blue.

Bark of alders, willows, oaks and other trees. Sidney, Vancouver Island; Prof. J. Macoun.

Apothecia sometimes strongly convex, blackening, and excluding the margin. When the disk is pruinose or light colored the margin is conspicuous from its darker hue.

***Biatora* (*Biatorina*) *Columbiana* sp. nov.**

Thallus effuse, thin and granulate, or thicker and areolate, cinereous or greenish-cinereous. Apothecia small or moderate (1-2 mm.), at first concave with a relatively thick margin, but ultimately strongly convex and immarginate, brownish-black or black, the margin concolorous. Spores 8, ellipsoid or fusiform-ellipsoid colorless, $16-18 \times 4.5-6 \mu$, hymenium hyaline or suffused with purple, hypothecium blue or green, asci clavate or ventricose-clavate, paraphyses distinct, slender, discrete, tips purple, hymenial gel., with I + blue. Bark of alders, maples and Douglas fir. Sidney, Vancouver Island; Prof. J. Macoun.

The affinities of the plant are with *B. Laureri*, and *B. atropurpurea*.

The hypothecium is often imposed on a stratum of confused hyphema of a distinctly purple color. Under the microscope the hymenium is a beautiful object.