

on the borders, appressed when dry; nearly all cells quadrate; costa percurrent. Tufts compact, decolorate with green branch-tips, about 3 cm. high, in the lower part filled by earth. Capsules and flowers not seen.

On earth by Lake Agnes above Lake Louise, eastern slope of Rocky Mountains, altitude 7,500 feet, September 14th, 1904. No. 34.

54. *PHILONOTIS MICROCARPA*.

Allied to *Philonotis marchica*, agreeing in the leaves being uniform, small and serrate, also in the stem being high and not thick; differs in the leaves being sometimes reflexed at the borders, the inner perichetial long, reaching far above the vaginula, broad and acute with a not percurrent costa; capsule very small.

The tufts are tomentose, about 6 cm. high; lid of capsule conic; pedicel capillary, 2, 2.5 cm. long. Male plants not seen.

In other allied species (*Ph. Macourii* et al) tufts are very much lower, the stems thinner and subcapillary.

Bogs along Pipestone Creek, eastern slope of Rocky Mountains, altitude 6,000 feet, July 8th, 1904. No. 75.

55. *PHILONOTIS FONTANA* (L.) BRID., VAR. *MICROTHAMNIA*, KINDB. New variety.

Tufts dense, nearly wholly tomentose. Shoots of male plants very slender, 1-1.5 cm. long; barren branches shorter; stem capillary. Leaves small recurved acuminate acute, spreading or falcate with double mamillæ; the upper longish with long-excurrent costa; the lower shorter with shorter costa. All perigonal leaves obtuse; costa faint or obsolete.

Collected in a peat bog along Hunker Creek, Yukon, July, 1902. No. 152.

56. *FUNARIA MICROSTOMA* BRYOL. EUR.

Vancouver Island, 1908. New to Canada.

57. *PHYSCOMITRIUM MICROCARPUM*.

Leaves entire, limbate by one yellow cell-row, ovate-oblong short-acuminate, not recurved; the upper with short-excurrent costa. Capsule small; lid convex; spores rough; pedicel pale, finally pale-reddish.

Brit. Columbia. A. Brinkman, 1908. New to Canada.

58. *MNIUM SELIGERI*, JURATZKA & MILDE.

On rocks near Fort Albany, west coast of James Bay, Hudson Bay, August 9th, 1904. Coll. Mr. W. Spreadborough.