

and well-defined; other cells narrow, very small; costa thin, mostly indistinct, sometimes ceasing below or near the middle.

Dioecious. Stem irregularly divided, not creeping; paraphyllia none. Capsules unknown.

Differs from the resembling *H. Kneiffii* in small leaf-cells and indistinct or short and faint costa. Now approved by Mr. Renauld.

Alaska, St. Paul's Island. J. M. Macoun, 1892, No. 113; Ottawa, 28th September, 1907, No. 268. New to Canada.

92. *ORTHOTRICHUM AFFINE*, SCHRAD., SUBSP. SUBRIVALE.

Capsule and pedicel exserted. Leaves short-acuminate acute (not subulate).

Quebec, 1905, No. 69.

93. *BARTRAMIA CIRCINNULATA*, C. M. ET KINDB.

Capsule long-pedicellate, as in *B. pomiformis*.

Vancouver Island, 1908.

94. *BRYUM HYDROPHILUM*, KINDB.

Leaves of fruiting stem narrowly recurved in the lower part. Cilia of the endostome appendiculate. Spores small, about 0.01 m.m. Dioecious. Allied to *B. ventricosum*.

Vancouver Island, fruiting, 1908.

95. *EURHYNCHIUM RUSCIFORME* (WEIS) MILDE, VAR. *OBTUSUM*.

Leaves generally obtuse, often rounded at the apex. Capsules not seca.

Vancouver Island, 1908.

96. *CALLIERGON TRIFARIUM* (WEB. ET MOHR), SUBSP. *APICULATUM*.

Stem much divided; branches curved; leaves short-apiculate, not rounded at apex, less strongly appressed. Capsules unknown.

Vancouver Island 1908.

97. *ISOTHECIUM MYUROIDES*, KINDB.

("Isothecium aplocladum, Mitt.:" Kindb., Eur. and N. Amer. Bryineo).

Leaves shorter than in *I. myosuroides*; cells often oblong.

It is several times found, also 1908, in Vancouver Island.

98. *WEISIA WOLFII*, LESQ. ET JAMES.

("W. mucronata Br. eur.:" C. Mueller).