

acute; costa long-excurrent. Tufts blackish-brown when dry, dense, 2-3 cm. high. Stem capillary. Dioecious. Capsules not seen.

On rocks, summit of McArthur Pass, western slope of Rocky Mountains, B.C., altitude 7,500 feet, August 10th, 1904. No. 241.

48. *BARBULA SUBANDREÆOIDES*.

Resembles *B. andræoides* in the stem being often proliferous with long shoots, also in perichetial leaves and in habit.

Differs from it: Leaves longer, generally subovate-oblong short-acuminate and not reflexed. Tufts pulvinate, about 1 cm. high.

On rocks, near Twin Falls, Yoho Valley, western slope of Rocky Mountains, B.C., altitude 6,800 feet, September 6th, 1904.

49. *BARBULA INCLINATA* (HEDW. FIL.) SCHWAEGR.

On damp rocks at Laggan, eastern slope of Rocky Mountains, altitude 5,200 ft., June 26th, 1904. No. 113. New to Canada.

50. *DIDYMODON BRACHYDONTIUS* (BRUCH) WILS.

(*Trichostoman mutabile* Notaris).  
British Columbia, fruiting: A. Brinkman, 1908.

51. *ENCALYPTA ALASKANA*. KINDB.

"*E. flaviseta*," Kindb. in letter to Macoun, 1890.

Leaves recurved, not limbate obtuse or subobtuse. Capsule faintly sulcate when dry; pedicel soon red; calyptra not fringed.

Collected on rocks at Sicamous, B.C., July 3rd, 1889, on the Yoho Pass, B.C., September 2nd, 1904; also at Laggan, Alta., June 27th, 1904.

52. *MEESEA MACOUNII*.

Synœcious. Leaves decurrent, from a dilated base tapering to a gradually attenuate, acute, entire or near the apex sparingly dentate acumen: the upper reflexed at the borders and with an excurrent costa; basal cells larger than the upper ones. Pedicel of capsule to 7 cm. long.

*M. longiseta* differs in the leaves not being reflexed and with an abbreviate costa. In *M. Albertinii* the leaves are entire, their basal cells small; the pedicel of the capsule is not so long.

In a small log at Laggan, eastern slope of Rocky Mountains, Alta., altitude 5,500 feet, July 25th, 1904. No. 37.

53. *MIELICHHOFERIA RECURVIFOLIA*.

Leaves small and smooth, broadly ovate, obtusate or very shortly acuminate, slightly denticulate above, often recurved