

Macoun at Lake Manitoba and in the Rocky Mountains of British Columbia.

MESOPTYCHIA, (Lindb.) gen. nov.

*Jungermannia*, B. *Eujungermannia*, b *Mesoptychia*, Lindb.; Lindb. & Arnell, Kongl. Sv. Vet. Akad. Handl. 23<sup>5</sup>: 39. 1889.

*Lophozia*, subgenus *Mesoptychia*, Schiffn.; Engler & Prantl, Die natürl. Pflanzenfam, 1<sup>3</sup>: 85. 1893.

Stem simple or sparingly branched, sometimes with subfloral innovations: rhizoids numerous: leaves alternate, succubous, more or less deeply bilobed and longitudinally folded at about the middle; antical lobe convex; postical lobe concave; underleaves deeply bifid with ciliate divisions: leaf cells with distinct trigones and verruculose cuticle: ♀ inflorescence terminal on a stem or leading branch; bracts and bracteoles similar to the leaves and underleaves, more or less adnate to the perigynium; perianth free with two rounded lateral keels and a sharper antical keel (*i.e.* epigonanthous), contracted and short-ciliate at the mouth; perigynium pendent at right angles to the axis, cylindrical, with numerous scattered rhizoids, smooth inside; calyptra fleshy, covering the whole of the sporophyte except the foot and bearing the unfertilized archegonia at its base: ♂ inflorescence intercalary on a stem or leading branch; bracts similar to the leaves but often with a small tooth-like or sac-like lobe at antical base; paraphyses (when present) in the form of minute filamentous or subulate hairs; bracteoles similar to the underleaves: young sporophyte of the ordinary jungermanniaceous type, divided into capsule, stalk and foot, the last being bluntly conical and extending around the base of the stalk as a narrow collar; mature capsule unknown.

8. MESOPTYCHIA SAHLBERGII, (Lindb. & Arnell).

*Jungermannia Sahlbergii*, Lindb. & Arnell, *l. c.* 40.

*Lophozia Sahlbergii*, Schiffn. *l. c.* 85.

Robust, brownish-green or reddish, growing in loose tufts: stems slightly flattened, 0.8 mm. wide, 0.4 mm. thick