

ARTICLE V.—A CONTRIBUTION TOWARDS THE STUDY OF NOVA SCOTIAN MOSSES.—BY JOHN SOMERS, M. D., F. R. M. S.

(Read February 14, 1881.)

THE following additions to the Moss Flora of the Province, see " Vol. IV, V, Transactions, 1877, '78, '79 and '80," have been collected during the past season :

SECT.—Pleurocarpi.

ORD.—Fontinali.

GENUS—I. Fontinalis.

*Fontinalis, antipyretica, L.*

Sporangium, immersed, stems triquetrous, leaves sharply keeled, the margin reflected on one side; on stones in running brooks, near Truro, Sept. 1880: essentially the same as the European species.

ORDER—Hypnei.

GENUS—Hypnum.

*Hypnum, demissum, Wils.*

Stem prostrate, branched, more or less divided; leaves secund, narrow, lanceolate, sporangium small, cernuous; lid with a long, slender beak. On quartzite rocks, Truro, Sept. '80.

*Hypnum, denticulatum, L.*

Leaves complanate, ovate, apiculate; margin recurved, two-nerved, toothed sporangium; oblong curved, cernuous; lid conical, acute. On banks of brooks in damp, shady places. Aug. '80.

ORDER—Isothecii.

GENUS—Climacium.

*Climacium, dendroides, Web. & Mhor.*

Dendroid, rhizome, creeping stem, naked below; erect, dividing above like a miniature tree; leaves ovate, lanceolate, toothed above; nerve reaching the tip; fruitstalks strong, red; aggregated sporangium; large, erect, lid rostrate. By banks of brooks in marshy places (Truro), bearing fruit abundantly. Sept.. '80.

I have examined this species very closely, and find no differ-

ence between it and the description and plate of the British species in Berkley. My friend, A. H. McKaye, of Pictou, has found *C. Americanum*, and thinks all our species are of the latter form.

*C. dendroides* has been described as occurring in British Columbia and eastern slope of Rocky Mts.

SECT.—*Acrocarpi*.

ORD.—*Bartramiei*.

GEN.—*Bartramia*.

*Bartramia*, *ithyphylla*, *Brid.*

Leaves from a sheathing base; lanceolate, rigid, strong nerved, stem dichotomous; sporangium oblique. July, 1880; on granite in elevated places, near Halifax.

ORD.—*Bryei*.

GEN.—*Mnium*.

*Mnium*, *rostratum*, *Schwæg.*

Stems erect, simple; lower leaves ovate or rounded; upper oblong, obtuse, with an apiculus; margined; simply toothed; fruitstalks aggregated; sporangium oval, pendulous; lid rostrate, very handsome. Growing on sandstone, margins of shady brooks; Truro, '81.

ORD.—*Tetraphidei*.

GEN.—*Trematodon*, *Hedw.*

*Trematodon*, *ambiguus*, *Hedw.*

Stem short; seta 1 inch, with an apophysis peristome of 16 lanceolate teeth cleft, but apparently cohering by fine transverse articulations; operculum rostrate, calyptra; cucullate long beaked; leaves oblong, acuminate, concave margins; entire nerve strong excurrent; cells large, oblong at the base; crowded above. Hx., Sept., 1880. — Not described in Berkley's book. An European but not a British species. A. H. McKaye, to whom I submitted specimens, diagnosed it as above. Not described in Sullivant's *Icones*, and rare in U. S.; only other Canadian locality, so far given, Kent County, N. B., where it was found by James.