

flowers of *P. commutatum*, forma *ramosum* are perfect and that the plants set seed every year, thus differing from the forms of *P. multiflorum* and from what appears to be the case in *P. pubescens*, forma *fultius*. No indication is given in the description of the form that it was found growing in a locality which had recently been disturbed.—M. L. FERNALD and S. K. HARRIS, Gray Herbarium.

MOSS FLORA OF NORTH AMERICA.¹ Another part (*Grimmiaceae*) of Grout's Moss Flora has appeared. The text is almost entirely the work of Mr. Jones although Dr. Grout has edited it and contributed an "Artificial Key to the *Grimmiaceae*." Eight genera are described: *Glyphomitrium* with 1 species, *Grimmia* with 47 species and 22 varieties and forms, *Scouleria* with 2 species, *Braunia* with 2 species, *Hedwigia* with 1 species and 5 forms, *Campylostelium* with 1 species, *Ptychomitrium* with 5 species, and *Rhacomitrium* with 9 species and 9 varieties and forms. There are 25 excellent plates figuring about 63 species and varieties. As in earlier parts most of these illustrations are reproduced from many different sources: e. g., *Bryologia Europaea*, *The Bryologist*, *Sullivant*, *Engler and Prantl*, *Bulletin of the Torrey Botanical Club*, *Braithwaite*, etc. There are 7 original illustrations by Mr. Seville Flowers and 1 by Miss E. L. Curtis. Seven species apparently have never previously been illustrated: these are, *Glyphomitrium canadense*, *Grimmia atricha*, *G. coloradensis*, *G. hamulosa*, *G. heterophylla*, *G. Moxleyi*, and *Ptychomitrium Gardneri*. About a dozen species figured in Grout's "Mosses with Hand-lens and Microscope" are not here re-illustrated. There are several new combinations and one description of a new form—*Grimmia alpicola* var. *rivularis* f. *papillosa*. A minor criticism is the lack of uniformity in the use of italics in listing "Exsiccati." Text and plates are of the same high grade as in all earlier parts. The publication is indispensable to active students of North American *Grimmiaceae*.—J. F. C.

¹ *Moss Flora of North America, north of Mexico. Grimmiaceae* by GEORGE NEVILLE JONES, M.Sc., edited by A. J. GROUT, Ph.D. Vol. II, pt. 1, pp. 1-65, plates I-XXV. Published by A. J. Grout, Newfane, Vt., Nov., 1933.

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