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Notes on the Orchidaceae of Ontario.

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(With Plates 1 and 2, drawn from nature by the author.)

I N the Catalogue of "Canadian Plants" John Macoun¹⁾ enumerates species of the following genera of Orchidaceae recorded from Ontario: *Microstylis*, Nutt.; *Liparis*, Rich.; *Calypso*, Salisb; *Aplectrum*, Nutt.; *Corallorhiza*, R. Br.; *Listera*, R. Br.; *Spiranthes*, Rich.; *Goodyera*, R. Br.; *Arethusa*, L.; *Calopogon*, R. Br.; *Pogonia*, Juss.; *Orchis* L.; *Habenaria*, Willd., and *Cypripedium*, L. To *Pogonia* are referred *P. ophioglossoides*, Nutt., and *P. verticillata*, Nutt, but the latter belongs more naturally to the genera *Isotria* Rafin. on account of the structure of the flower, the petals being longer than the sepals, beside the very different habit, the leaves being whorled; to *Orchis* is referred *O. rotundifolia*, Pursh, which surely agrees with this genus so far as concerns the presence of a bursicula surrounding the glands, but otherwise it is better referable to *Platanthera* section *Crassicornes*, Pfitzer, to which *P. obtusata*, Lindl., also belongs. Finally in respect to the genus *Habenaria*, Willd., this is not represented in Canada, and with exception of *H. virescens*, Spreng, the other species must be placed under *Platanthera*; in *Habenaria* the two stigmata are free, projecting, instead of being sessile, slightly concave. In regard to *Habenaria virescens*, Spreng, this is *Perularia fuscescens*, Lindl., with the habit of *Orchis*, but with the sepals and petals of about the same length and shape, and with the glands enclosed by the valves of the anthers. As to the classification of these genera the one proposed by Pfitzer²⁾ is undoubtedly the most natural, viz.:

1) Part IV, p. 2, Montreal, 1888.
 2) Engler and Prantl: Nat. Pflanzen. Part 22, p. 76.