NAMING A SOUTHWESTERN MALAXIS (ORCHIDACEAE)

Recently, Coleman (1997) brought to my attention the fact that Watson (1883) had described a specimen collected in Arizona by the Lemmons, naming it Microstylis purpurea. Ridley (1888) revised Microstylis and Malaxis. Since Lindley (1849) had used the specific epithet purpurea to describe a Microstylis from Ceylon and Java, Ridley renamed the taxon Microstylis porphyrea. In this revision, he rejected the idea that the taxon was the same as M. ehrenbergii. Ridley’s comment was “M. porphyrea has no distinct fovea; the lip is concave at the base but not saccate.” This latter refers to Reichenbach’s (1849) description of the lip of M. ehrenbergii as “gibbere acuto in medio parte basilari,” i.e. acutely gibbous in the middle basal part. Kuntze (1891) placed all Microstylis species under Malaxis, so the taxon became Malaxis porphyrea (Ridl.) Kuntze. In their consideration of Malaxis nomenclature, Ames and Schweinfurth (1935) decided that M. porphyrea was synonymous with M. ehrenbergii, and subsequent authors have followed their lead (e.g., Correll 1950; Luer 1975 et al.).

I have examined the holotype of M. porphyrea from the Gray Herbarium. It has papillate floral segments and narrowly sagittate lip which easily differentiate it from M. ehrenbergii with glabrous floral segments and a broadly triangular-hastate lip. The species should be listed as follows:


There is a difference that appears in Ridley’s and Reichenbach’s descriptions that has not been considered in previous justifications for separation of the two species. Ridley states the stem to be “superne laxe racemosus,” i.e., loosely racemose above. Reichenbach, in contrast, says, “racemus plurimiflorus,” i.e., raceme very many flowered. This difference is readily seen in Figures 1 and 2, where each dorsal sepal is about 2 mm long.

The ranges of the two do not overlap. The southernmost sites of M. porphyrea are probably in northern durango and Sonora. The northernmost site of M. ehrenbergii is in southern Hidalgo. The gap between is about 1200 km.

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Fig. 1. *Malaxis porphyrea*. New Mexico. Photo by T.K. Todsen.

Fig. 2. *Malaxis ehrenbergii*. Oaxaca, Mexico. Photo by E.W. Greenwood.

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REFERENCES


